

# ***APPENDIX A***

## ***Capital Improvement Plan Cost Estimates***

**Install Programmable school zone and speed feedback signs**

**Objective:**

Provide attention-grabbing signage indicating a lower speed during programmed times and informing drivers of current speed. Also includes installation for typical school crossing signage and additional speed limit signs.



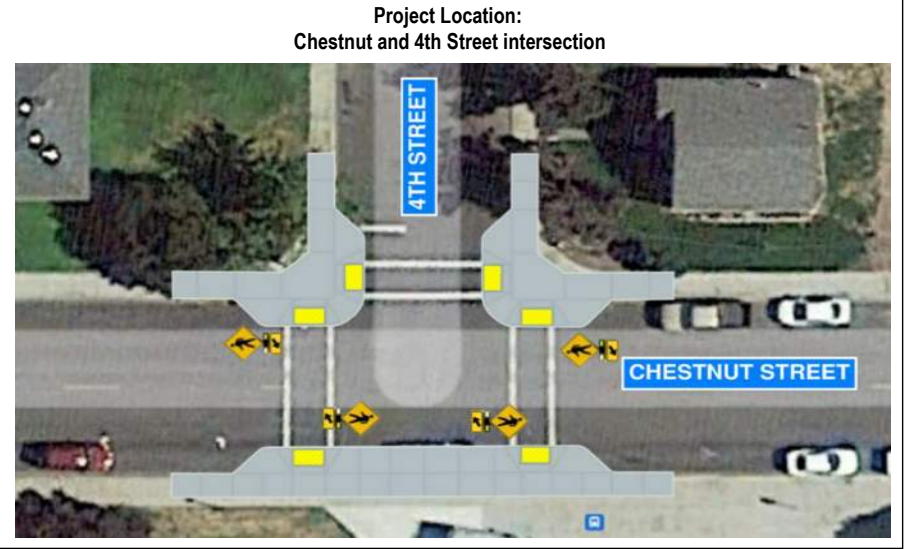
General Line Items	Unit	Unit Price	Estimated Quantity	Cost (2022 dollars)
Solar School Zone System (1 Primary and 1 Secondary Beacon)	EACH	\$ 6,000.00	1	\$ 6,000
Radar Activated Feedback Sign	EACH	\$ 6,000.00	2	\$ 12,000
Signs	EACH	\$ 500.00	10	\$ 5,000
<b>Subtotal</b>				<b>\$ 23,000</b>
Mobilization		10%		\$ 2,300
Contingency - % of construction costs		30%		\$ 6,900
<b>Total Project Cost (rounded)</b>				<b>\$33,000</b>

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**Install Curb Ramp Bulbouts on all corners with RRFB crossing beacons**

**Project Identifier:** CHS.1

**Objective:**  
Provide safer crossing over Chestnut Street, reduce crossing time and distance. Traffic calming, speed reduction.



General Line Items	Unit	Unit Price	Estimated Quantity	Cost (2022 dollars)
Concrete Removal (Sidewalk, Slabs, etc.)	SY	\$ 15.00	90	\$ 1,350
ADA Ramps	EACH	\$ 4,500.00	6	\$ 27,000
Sidewalk	SY	\$ 80.00	90	\$ 7,200
Curb and Gutter	LF	\$ 55.00	225	\$ 12,375
Crosswalk Striping	SF	\$ 10.00	100	\$ 1,000
RRFBs (Solar, Pair)	EACH	\$ 15,000.00	2	\$ 30,000
Traffic Control	LS	\$ 5,000.00	1	\$ 5,000
<b>Subtotal</b>				<b>\$ 84,000</b>
Mobilization		10%		\$ 8,400
Contingency - % of construction costs		30%		\$ 25,200
Engineering Design		20%		\$ 23,600
<b>Total Construction Costs</b>				<b>\$ 141,200</b>
Bidding & CE&I		20%		\$ 29,000
<b>Total Project Cost (rounded)</b>				<b>\$171,000</b>

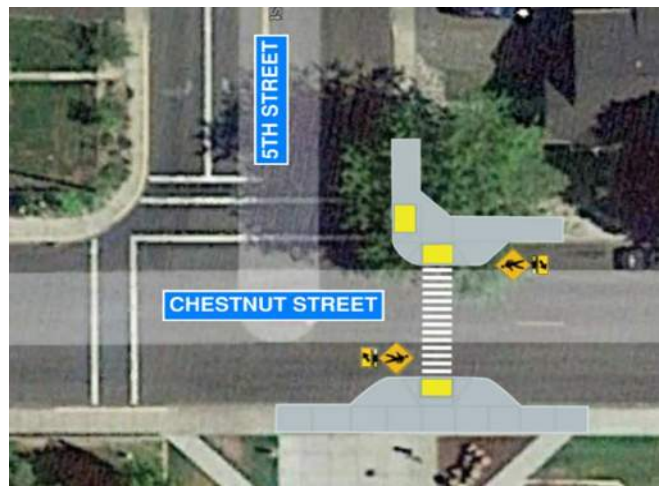
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**Install Curb Ramp Bulbouts on eastern corners with crossing beacons**

**Project Identifier:** CHS.2


**Objective:**  
 Create safer crossing for students across Chestnut Street at the 5th Street intersection. Bulb outs will provide traffic calming, and RRFBs will notify drivers and decrease speeding.

**Project Location:  
 Chestnut and 5th Street intersection**



General Line Items	Unit	Unit Price	Estimated Quantity	Cost (2022 dollars)
Concrete Removal (Sidewalk, Slabs, etc.)	SY	\$ 15.00	50	\$ 750
ADA Ramps	EACH	\$ 4,500.00	6	\$ 27,000
Sidewalk	SY	\$ 80.00	50	\$ 4,000
Curb and Gutter	LF	\$ 55.00	160	\$ 8,800
Crosswalk Striping	SF	\$ 10.00	300	\$ 3,000
RRFBs (Solar, Pair)	EACH	\$ 15,000.00	2	\$ 30,000
Traffic Control	LS	\$ 5,000.00	1	\$ 5,000
<b>Subtotal</b>				<b>\$ 78,600</b>
Mobilization		10%		\$ 7,900
Contingency - % of construction costs		35%		\$ 27,600
Engineering Design		20%		\$ 22,900
<b>Total Construction Costs</b>				<b>\$ 137,000</b>
Bidding & CE&I		20%		\$ 27,400
<b>Total Project Cost (rounded)</b>				<b>\$165,000</b>

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<p><b>Signal layout and timing adjustments, lane restructure, install ADA crossing at Park Street</b></p> <p><b>Project Identifier:</b> CHS.3</p> <p><b>Objective:</b> Provide safer crossing over 6th Street and at 6th/Chestnut intersection, reduce crossing time and distance. Traffic calming, speed reduction, improved intersection flow.</p> <p><b>Potential Issues:</b> Will need to coordinate with businesses north of intersection to relocate street parking</p>	<p style="text-align: center;"><b>Project Location: Along 6th Between Chestnut &amp; Diagonal</b></p> 
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General Line Items	Unit	Unit Price	Estimated Quantity	Cost (2022 dollars)
<b>6th Street Lane Realignment</b>				
Obliterate Pavement Markings	SF	\$ 1.50	3,000	\$ 4,500
Seal Coat	SY	\$ 3.50	3,500	\$ 12,250
Traffic Striping	LF	\$ 2.50	3,700	\$ 9,250
<b>Subtotal</b>				<b>\$ 26,000</b>
<b>Park Street Crossing</b>				
Concrete Removal (Sidewalk, Slabs, etc.)	SY	\$ 15.00	40	\$ 600
ADA Ramps	EACH	\$ 4,500.00	3	\$ 13,500
Sidewalk	SY	\$ 80.00	40	\$ 3,200
Curb and Gutter	LF	\$ 55.00	95	\$ 5,225
Crosswalk Striping	SF	\$ 10.00	200	\$ 2,000
RRFBs (Solar, Pair)	EACH	\$ 15,000.00	1	\$ 15,000
Traffic Control	LS	\$ 5,000.00	1	\$ 5,000
<b>Subtotal</b>				<b>\$ 44,600</b>
Mobilization		10%		\$ 7,060
Contingency - % of construction costs		35%		\$ 24,800
Engineering Design		20%		\$ 20,500
<b>Total Construction Costs</b>				<b>\$ 123,000</b>
Bidding & CE&I		20%		\$ 24,600
<b>Total Project Cost (rounded)</b>				<b>\$148,000</b>

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**Lane Restructure to Include Bike Lanes**

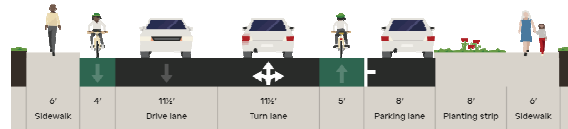
**Project Identifier:** CHS.4

**Objective:**

Increase bicyclist and pedestrian safety along Chesnut Street and create a main east/west pedestrian and bicycle pathway.


**Project Location:**  
Along Chestnut From Beachview Boulevard to 13th Street

**Chestnut Street**



General Line Items	Unit	Unit Price	Estimated Quantity	Cost (2022 dollars)
<b>Chestnut Bike Lane Improvements</b>				
High Visibility Bike Lane Markings	SF	\$ 5.00	45,000	\$ 225,000
Traffic Striping	LF	\$ 2.50	10,000	\$ 25,000
<b>Subtotal</b>				<b>\$ 250,000</b>
Mobilization		10%		\$ 25,000
Contingency - % of construction costs		35%		\$ 87,500
<b>Total Construction Costs</b>				<b>\$ 362,500</b>
Bidding & CE&I		0%		\$ -
<b>Total Project Cost (rounded)</b>				<b>\$363,000</b>

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<p><b>Install ADA-compliant sidewalks and curb ramps</b></p> <p><b>Project Identifier:</b> CHS.5</p> <p><b>Objective:</b> Increase overall quality and condition of ADA network around residential areas that feed into Clarkston High School.</p>	<p><b>Project Location:</b> Greater residential area around Clarkston High School</p> 
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General Line Items	Unit	Unit Price	Estimated Quantity	Cost (2022 dollars)
<b>Chestnut (Beachview - 8th Street)</b>				
Sidewalk Improvements	LF	\$ 150.00	3,770	\$ 565,500
ADA Ramps	EACH	\$ 4,500.00	14	\$ 63,000
Crosswalk Striping	SF	\$ 10.00	2,100	\$ 21,000
Traffic Control	LS	\$ 5,000.00	7	\$ 35,000
<b>Subtotal</b>				<b>\$ 684,500</b>
<b>6th Street (Chestnut - Adams Street)</b>				
Sidewalk Improvements	LF	\$ 150.00	1,140	\$ 171,000
ADA Ramps	EACH	\$ 4,500.00	2	\$ 9,000
Crosswalk Striping	SF	\$ 10.00	160	\$ 1,600
Traffic Control	LS	\$ 5,000.00	2	\$ 10,000
<b>Subtotal</b>				<b>\$ 191,600</b>
<b>5th Street (Chestnut - Sycamore Street)</b>				
Sidewalk Improvements	LF	\$ 150.00	1,170	\$ 175,500
ADA Ramps	EACH	\$ 4,500.00	4	\$ 18,000
Crosswalk Striping	SF	\$ 10.00	680	\$ 6,800
Traffic Control	LS	\$ 5,000.00	1	\$ 5,000
<b>Subtotal</b>				<b>\$ 205,300</b>
<b>4th Street (Chestnut - Sycamore Street)</b>				
Sidewalk Improvements	LF	\$ 150.00	1,170	\$ 175,500
ADA Ramps	EACH	\$ 4,500.00	4	\$ 18,000
Crosswalk Striping	SF	\$ 10.00	680	\$ 6,800
Traffic Control	LS	\$ 5,000.00	1	\$ 5,000
<b>Subtotal</b>				<b>\$ 205,300</b>
<b>3rd Street (Chestnut - Sycamore Street)</b>				
Sidewalk Improvements	LF	\$ 150.00	1,170	\$ 175,500
ADA Ramps	EACH	\$ 4,500.00	4	\$ 18,000
Crosswalk Striping	SF	\$ 10.00	680	\$ 6,800
Traffic Control	LS	\$ 5,000.00	1	\$ 5,000
<b>Subtotal</b>				<b>\$ 205,300</b>
<b>2nd Street (Chestnut - Sycamore Street)</b>				
Sidewalk Improvements	LF	\$ 150.00	1,170	\$ 175,500
ADA Ramps	EACH	\$ 4,500.00	4	\$ 18,000
Crosswalk Striping	SF	\$ 10.00	680	\$ 6,800
Traffic Control	LS	\$ 5,000.00	1	\$ 5,000
<b>Subtotal</b>				<b>\$ 205,300</b>
Mobilization		10%		\$ 170,000
Contingency - % of construction costs		35%		\$ 595,000
Engineering Design		20%		\$ 340,000
<b>Total Construction Costs</b>				<b>\$ 2,802,300</b>
Bidding & CE&I		25%		\$ 701,000
<b>Total Project Cost (rounded)</b>				<b>\$3,504,000</b>

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**Install parallel pull through pick up and drop off**

**Project Identifier:** PES.1

**Objective:**

Increase parent pick up/drop off capacity and child safety along 4th Street by removing perpendicular parking and moving pick up/drop off out of the lane of travel.

**Potential Issues:**

Will need to coordinate with both Parkway Elementary and Clarkston High School to determine what locations are viable for faculty parking relocation.

**Project Location:  
4th Street**



General Line Items	Unit	Unit Price	Estimated Quantity	Cost (2022 dollars)
Concrete Removal (Sidewalk, Slabs, etc.)	SY	\$ 8.00	195	\$ 1,560
Sidewalk	SY	\$ 80	520	\$ 41,600
Curb and Gutter	LF	\$ 55	2	\$ 110
Traffic Control	LS	\$ 5,000	1	\$ 5,000
Seeding	LS	\$ 2,000	1	\$ 2,000
Seal Coat	SY	\$ 3.50	520	\$ 1,820
Traffic Striping	LF	\$ 2.50	325	\$ 813
<b>Subtotal</b>				<b>\$ 53,000</b>
Mobilization		10%		\$ 5,300
Contingency - % of construction costs		35%		\$ 18,600
Engineering Design		20%		\$ 15,400
<b>Total Construction Costs</b>				<b>\$ 92,300</b>
Bidding & CE&I		25%		\$ 23,100
<b>Total Project Cost (rounded)</b>				<b>\$116,000</b>

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**Install Curb Ramp Bulbouts on corners with crossing beacons**

**Project Identifier:** PES.2

**Objective:**

Provide safer crossing over Adams and 4th Streets, reduce crossing time and distance. Traffic calming, speed reduction.

**Project Location:  
4th & Adams intersection**



General Line Items	Unit	Unit Price	Estimated Quantity	Cost (2022 dollars)
Concrete Removal (Sidewalk, Slabs, etc.)	SY	\$ 15.00	60	\$ 900
ADA Ramps	EACH	\$ 4,500.00	4	\$ 18,000
Sidewalk	SY	\$ 80.00	60	\$ 4,800
Curb and Gutter	LF	\$ 55.00	160	\$ 8,800
Crosswalk Striping	SF	\$ 10.00	240	\$ 2,400
RRFBs (Solar, Pair)	EACH	\$ 15,000.00	1	\$ 15,000
Traffic Control	LS	\$ 5,000.00	1	\$ 5,000
<b>Subtotal</b>				<b>\$ 54,900</b>
Mobilization		10%		\$ 5,500
Contingency - % of construction costs		35%		\$ 19,300
Engineering Design		20%		\$ 16,000
<b>Total Construction Costs</b>				<b>\$ 95,700</b>
Bidding & CE&I		25%		\$ 24,000
<b>Total Project Cost (rounded)</b>				<b>\$120,000</b>

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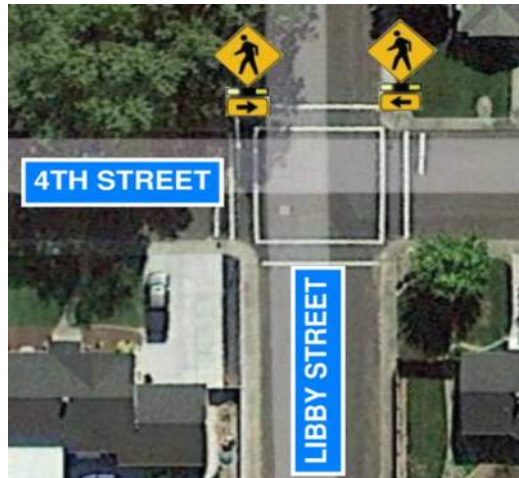
**Install crossing beacons, Overall ADA improvement with option for bulbouts on corners**

**Project Identifier:** PES.3

**Objective:**

Provide safer crossing over Libby and 4th Streets, reduce crossing time and distance. Traffic calming, speed reduction.

**Project Location:**  
4th & Libby intersection



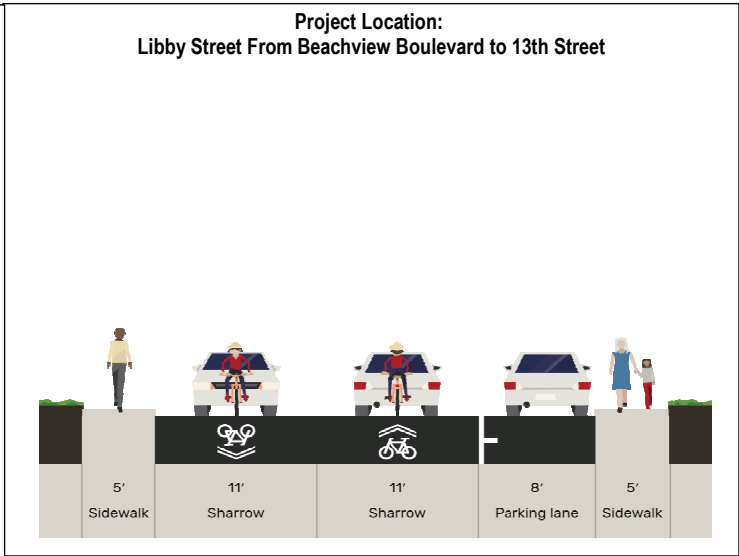
General Line Items	Unit	Unit Price	Estimated Quantity	Cost (2022 dollars)
<b>Crossing Beacons and Crosswalk only</b>				
RRFBs (Solar, Pair)	EACH	\$ 15,000.00	1	\$ 15,000
Obliterate Pavement Markings	SF	\$ 1.50	320	\$ 480
Crosswalk Striping	SF	\$ 10.00	560	\$ 5,600
Seal Coat	SY	\$ 3.50	315	\$ 1,103
<b>Subtotal</b>				<b>\$ 22,200</b>
<b>Blub-out Improvements</b>				
Concrete Removal (Sidewalk, Slabs, etc.)	SY	\$ 15.00	80	\$ 1,200
ADA Ramps	EACH	\$ 4,500.00	8	\$ 36,000
Sidewalk	SY	\$ 80.00	80	\$ 6,400
Traffic Control	LS	\$ 5,000.00	1	\$ 5,000
<b>Subtotal</b>				<b>\$ 48,600</b>
Mobilization		10%		\$ 7,100
Contingency - % of construction costs		35%		\$ 24,800
Engineering Design		20%		\$ 20,600
<b>Total Construction Costs</b>				<b>\$ 123,300</b>
Bidding & CE&I		25%		\$ 30,900
<b>Total Project Cost (rounded)</b>				<b>\$155,000</b>

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**Lane Restructure to Include Bike Lanes**

**Project Identifier:** PES.4

**Objective:**  
Increase bicyclist and pedestrian safety along Libby Street and create a main east/west pedestrian and bicycle boulevard.



General Line Items	Unit	Unit Price	Estimated Quantity	Cost (2022 dollars)
<b>Libby Street Bike Boulevard Improvements</b>				
Thermoplastic Sharrows	SF	\$ 10.00	2,500	\$ 25,000
Traffic Striping	LF	\$ 2.50	13,000	\$ 32,500
<b>Subtotal</b>				<b>\$ 57,500</b>
Mobilization		10%		\$ 5,800
Contingency - % of construction costs		35%		\$ 20,200
<b>Total Construction Costs</b>				<b>\$ 83,500</b>
Bidding & CE&I		0%		\$ -
<b>Total Project Cost (rounded)</b>				<b>\$84,000</b>

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**Install Curb Ramp Bulbouts on northern corners with crossing beacons**

**Project Identifier:** PES.5

**Objective:**

Provide safer crossing over 6th Street, reduce crossing time and distance. Traffic calming, speed reduction.

**Project Location:  
6th & Libby intersection**



General Line Items	Unit	Unit Price	Estimated Quantity	Cost (2022 dollars)
Concrete Removal (Sidewalk, Slabs, etc.)	SY	\$ 15.00	75	\$ 1,125
ADA Ramps	EACH	\$ 4,500.00	4	\$ 18,000
Sidewalk	SY	\$ 80.00	75	\$ 6,000
Curb and Gutter	LF	\$ 55.00	180	\$ 9,900
Crosswalk Striping	SF	\$ 10.00	100	\$ 1,000
RRFBs (Solar, Pair)	EACH	\$ 15,000.00	1	\$ 15,000
Traffic Control	LS	\$ 5,000.00	1	\$ 5,000
Seeding	LS	\$ 2,000.00	1	\$ 2,000
Obliterate Pavement Markings	SF	\$ 1.50	140	\$ 210
<b>Subtotal</b>				<b>\$ 58,300</b>
Mobilization		10%		\$ 5,900
Contingency - % of construction costs		35%		\$ 20,500
Engineering Design		20%		\$ 17,000
<b>Total Construction Costs</b>				<b>\$ 101,700</b>
Bidding & CE&I		25%		\$ 25,500
<b>Total Project Cost (rounded)</b>				<b>\$128,000</b>

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**Install ADA-compliant sidewalks and curb ramps**

**Project Identifier:** PES.6

**Objective:**  
 Increase overall quality and condition of ADA network around residential areas that feed into Parkway Elementary.



General Line Items	Unit	Unit Price	Estimated Quantity	Cost (2022 dollars)
<b>4th Street (Adams - Libby Street)</b>				
Sidewalk Improvements	LF	\$ 150.00	695	\$ 104,250
ADA Ramps	EACH	\$ 4,500.00	0	\$ -
Crosswalk Striping	SF	\$ 10.00	0	\$ -
Traffic Control	LS	\$ 5,000.00	1	\$ 5,000
<b>Subtotal</b>				<b>\$ 109,300</b>
<b>Libby Street (3rd - 6th Street)</b>				
Sidewalk Improvements	LF	\$ 150.00	1,415	\$ 212,250
ADA Ramps	EACH	\$ 4,500.00	8	\$ 36,000
Crosswalk Striping	SF	\$ 10.00	800	\$ 8,000
Traffic Control	LS	\$ 5,000.00	3	\$ 15,000
<b>Subtotal</b>				<b>\$ 271,300</b>
<b>Adams Street (2nd - 6th Street)</b>				
Sidewalk Improvements	LF	\$ 150.00	2,265	\$ 339,750
ADA Ramps	EACH	\$ 4,500.00	6	\$ 27,000
Crosswalk Striping	SF	\$ 10.00	560	\$ 5,600
Traffic Control	LS	\$ 5,000.00	3	\$ 15,000
<b>Subtotal</b>				<b>\$ 387,400</b>
<b>6th Street (Adams - Libby Street)</b>				
Sidewalk Improvements	LF	\$ 150.00	1,050	\$ 157,500
ADA Ramps	EACH	\$ 4,500.00	0	\$ -
Crosswalk Striping	SF	\$ 10.00	0	\$ -
Traffic Control	LS	\$ 5,000.00	1	\$ 5,000
<b>Subtotal</b>				<b>\$ 162,500</b>
<b>5th Street (Adams - Libby Street)</b>				
Sidewalk Improvements	LF	\$ 150.00	1,050	\$ 157,500
ADA Ramps	EACH	\$ 4,500.00	0	\$ -
Crosswalk Striping	SF	\$ 10.00	0	\$ -
Traffic Control	LS	\$ 5,000.00	1	\$ 5,000
<b>Subtotal</b>				<b>\$ 162,500</b>
Mobilization		10%		\$ 109,300
Contingency - % of construction costs		35%		\$ 382,600
Engineering Design		20%		\$ 218,600
<b>Total Construction Costs</b>				<b>\$ 1,803,500</b>
Bidding & CE&I		25%		\$ 450,900
<b>Total Project Cost (rounded)</b>				<b>\$2,255,000</b>

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**Install parallel pull through pick up and drop off, Install Curb Ramp Bulbouts on corners with crossing beacons**

**Project Identifier:** GES.1

**Objective:**  
 Increase parent pick up/drop off capacity and child safety along 4th Street by removing perpendicular parking and moving pick up/drop off out of the lane of travel.  
 Provide safer crossing over Adams and 4th Streets, reduce crossing time and distance. Traffic calming, speed reduction.

**Project Location:  
 Along Poplar between 13th and Monroe**



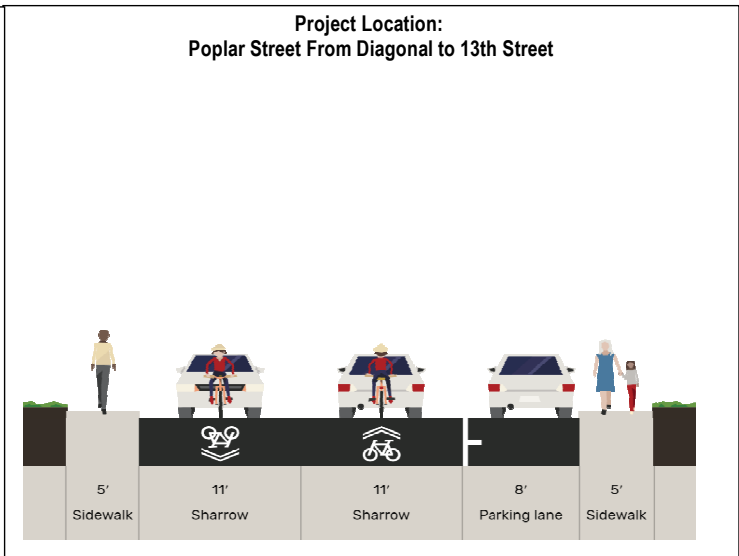
General Line Items	Unit	Unit Price	Estimated Quantity	Cost (2022 dollars)
<b>Parallel Curbside Parking - Poplar South Side</b>				
Concrete Removal (Sidewalk, Slabs, etc.)	SY	\$ 15.00	290	\$ 4,350
ADA Ramps	EACH	\$ 4,500.00	4	\$ 18,000
Sidewalk	SY	\$ 80.00	660	\$ 52,800
Curb and Gutter	LF	\$ 55.00	485	\$ 26,675
RRFBs	EACH	\$ 15,000.00	2	\$ 30,000
Traffic Control	LS	\$ 5,000.00	1	\$ 5,000
<b>Subtotal</b>				<b>\$ 136,900</b>
<b>Bulbouts and Sidewalk - Poplar North Side</b>				
Concrete Removal (Sidewalk, Slabs, etc.)	SY	\$ 15.00	20	\$ 293
ADA Ramps	EACH	\$ 4,500.00	4	\$ 18,000
Sidewalk	SY	\$ 80.00	60	\$ 4,800
Curb and Gutter	LF	\$ 55.00	420	\$ 23,100
Crosswalk Striping	SF	\$ 10.00	350	\$ 3,500
RRFBs (Solar, Pair)	EACH	\$ 15,000.00	2	\$ 30,000
Obliterate Pavement Markings	SF	\$ 1.50	125	\$ 188
Traffic Control	LS	\$ 5,000.00	1	\$ 5,000
<b>Subtotal</b>				<b>\$ 84,900</b>
Mobilization		10%		\$ 22,200
Contingency - % of construction costs		35%		\$ 77,700
Engineering Design		20%		\$ 64,400
<b>Total Construction Costs</b>				<b>\$ 386,100</b>
Bidding & CE&I		25%		\$ 96,600
<b>Total Project Cost (rounded)</b>				<b>\$483,000</b>

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**Lane Restructure to Include Bike Lanes**

**Project Identifier:** GES.2


**Objective:**  
Increase bicyclist and pedestrian safety along Poplar Street and create a main east/west pedestrian and bicycle boulevard.



General Line Items	Unit	Unit Price	Estimated Quantity	Cost (2022 dollars)
<b>Libby Street Bike Boulevard Improvements</b>				
Thermoplastic Sharrows	SF	\$ 10.00	1,250	\$ 12,500
Traffic Striping	LF	\$ 2.50	7,000	\$ 17,500
<b>Subtotal</b>				<b>\$ 30,000</b>
Mobilization		10%		\$ 3,000
Contingency - % of construction costs		35%		\$ 10,500
<b>Total Construction Costs</b>				<b>\$ 43,500</b>
Bidding & CE&I		0%		\$ -
<b>Total Project Cost (rounded)</b>				<b>\$44,000</b>

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<p><b>Install ADA-compliant sidewalks and curb ramps</b></p> <p><b>Project Identifier:</b> GES.3</p> <p><b>Objective:</b> Increase overall quality and condition of ADA network around residential areas that feed into Grantham Elementary.</p>	<p><b>Project Location:</b> Greater residential area around Grantham</p> 
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General Line Items	Unit	Unit Price	Estimated Quantity	Cost (2022 dollars)
<b>Poplar Street (Burns - 9th Street)</b>				
Sidewalk Improvements	LF	\$ 150.00	2,130	\$ 319,500
ADA Ramps	EACH	\$ 4,500.00	20	\$ 90,000
Crosswalk Striping	SF	\$ 10.00	2,800	\$ 28,000
Traffic Control	LS	\$ 5,000.00	4	\$ 20,000
<b>Subtotal</b>				<b>\$ 457,500</b>
<b>Morrison Street (Poplar - Bridge Street)</b>				
Sidewalk Improvements	LF	\$ 150.00	1,200	\$ 180,000
ADA Ramps	EACH	\$ 4,500.00	2	\$ 9,000
Crosswalk Striping	SF	\$ 10.00	100	\$ 1,000
Traffic Control	LS	\$ 5,000.00	1	\$ 5,000
<b>Subtotal</b>				<b>\$ 195,000</b>
<b>Monroe Street (Poplar - Bridge Street)</b>				
Sidewalk Improvements	LF	\$ 150.00	1,200	\$ 180,000
ADA Ramps	EACH	\$ 4,500.00	2	\$ 9,000
Crosswalk Striping	SF	\$ 10.00	100	\$ 1,000
Traffic Control	LS	\$ 5,000.00	1	\$ 5,000
<b>Subtotal</b>				<b>\$ 195,000</b>
<b>13th Street (Bridge - Elm Street)</b>				
Sidewalk Improvements	LF	\$ 150.00	3,470	\$ 520,500
ADA Ramps	EACH	\$ 4,500.00	14	\$ 63,000
Crosswalk Striping	SF	\$ 10.00	1,820	\$ 18,200
Traffic Control	LS	\$ 5,000.00	3	\$ 15,000
<b>Subtotal</b>				<b>\$ 616,700</b>
<b>12th Street (Bridge - Elm Street)</b>				
Sidewalk Improvements	LF	\$ 150.00	3,600	\$ 540,000
ADA Ramps	EACH	\$ 4,500.00	6	\$ 27,000
Crosswalk Striping	SF	\$ 10.00	700	\$ 7,000
Traffic Control	LS	\$ 5,000.00	3	\$ 15,000
<b>Subtotal</b>				<b>\$ 589,000</b>
<b>Maple Street (13th - 9th Street)</b>				
Sidewalk Improvements	LF	\$ 150.00	4,090	\$ 613,500
ADA Ramps	EACH	\$ 4,500.00	12	\$ 54,000
Crosswalk Striping	SF	\$ 10.00	1,680	\$ 16,800
Traffic Control	LS	\$ 5,000.00	5	\$ 25,000
<b>Subtotal</b>				<b>\$ 709,300</b>
<b>Burns Street (Bridge - Ash)</b>				
Sidewalk Improvements	LF	\$ 150.00	2,900	\$ 435,000
ADA Ramps	EACH	\$ 4,500.00	2	\$ 9,000
Crosswalk Striping	SF	\$ 10.00	140	\$ 1,400
Traffic Control	LS	\$ 5,000.00	3	\$ 15,000
<b>Subtotal</b>				<b>\$ 460,400</b>
Mobilization		10%		\$ 322,300
Contingency - % of construction costs		35%		\$ 1,128,100
Engineering Design		20%		\$ 644,600
<b>Total Construction Costs</b>				<b>\$ 5,317,900</b>
Bidding & CE&I		25%		\$ 1,329,500
<b>Total Project Cost (rounded)</b>				<b>\$6,648,000</b>

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**Install Curb Ramp Bulbouts on all corners with crossing beacons**

**Project Identifier:** HFCS.1

**Objective:**  
Provide safer crossing over Chestnut Street, reduce crossing time and distance. Traffic calming, speed reduction.

**Project Location:**  
Chestnut and 10th & 11th intersections



General Line Items	Unit	Unit Price	Estimated Quantity	Cost (2022 dollars)
Concrete Removal (Sidewalk, Slabs, etc.)	SY	\$ 15.00	80	\$ 1,200
ADA Ramps	EACH	\$ 4,500.00	12	\$ 54,000
Sidewalk	SY	\$ 80.00	80	\$ 6,400
Curb and Gutter	LF	\$ 55.00	260	\$ 14,300
Crosswalk Striping	SF	\$ 10.00	2	\$ 20
RRFBs (Solar, Pair)	EACH	\$ 15,000.00	2	\$ 30,000
Traffic Control	LS	\$ 5,000.00	1	\$ 5,000
<b>Subtotal</b>				<b>\$ 106,000</b>
Mobilization		10%		\$ 10,600
Contingency - % of construction costs		35%		\$ 37,100
Engineering Design		20%		\$ 30,800
<b>Total Construction Costs</b>				<b>\$ 184,500</b>
Bidding & CE&I		25%		\$ 46,200
<b>Total Project Cost (rounded)</b>				<b>\$231,000</b>

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**Install ADA-compliant sidewalk**

**Project Identifier:** HFCS.2

**Objective:**

Complete the sidewalk along 10th Street to keep pedestrians out of the street.

**Potential Issues:**

Will need to coordinate with owner of property that is causing the issue to either procure land or build in front.

**Project Location:  
10th Street**



General Line Items	Unit	Unit Price	Estimated Quantity	Cost (2022 dollars)
<b>Northern 10th Street (west side)</b>				
Sidewalk Improvements	LF	\$ 150.00	185	\$ 27,750
ADA Ramps	EACH	\$ 4,500.00	1	\$ 4,500
Crosswalk Striping	SF	\$ 10.00	0	\$ -
Traffic Control	LS	\$ 5,000.00	1	\$ 5,000
Mobilization - Percent of Item Cost Sum		10%		\$ 3,800
Contingency - % of construction costs		35%		\$ 4,700
Engineering Design		20%		\$ 9,200
<b>Construction Total</b>				<b>\$ 55,000</b>
<b>Chestnut to Diagonal Street Replacement</b>				
Sidewalk Improvements	LF	\$ 150.00	960	\$ 144,000
ADA Ramps	EACH	\$ 4,500.00	2	\$ 9,000
Crosswalk Striping	SF	\$ 10.00	0	\$ -
Traffic Control	LS	\$ 5,000.00	1	\$ 5,000
Mobilization - Percent of Item Cost Sum		10%		\$ 15,800
Contingency - % of construction costs		35%		\$ 60,900
Engineering Design		20%		\$ 47,000
<b>Subtotal</b>				<b>\$ 282,000</b>
Engineering and CMS - % of construction costs		25%		\$ 70,500
<b>Construction Total</b>				<b>\$ 353,000</b>
<b>Total Project Cost (rounded)</b>				<b>\$408,000</b>

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**Install 6-way roundabout, install ADA-compliant ramps for each crossing**

**Project Identifier:** HFCS.3

**Objective:**  
Install 6-way "Compact Peanut" roundabout complete with pedestrian islands and ADA ramps to improve delay times, intersection safety, and pedestrian safety and accessibility.

**Project Location:**  
10th & Diagonal & Sycamore



General Line Items	Unit	Unit Price	Estimated Quantity	Cost (2022 dollars)
Asphalt Removal	SY	\$ 8.00	3,350	\$ 26,800
Concrete Removal (Sidewalk, Slabs, etc.)	SY	\$ 15.00	240	\$ 3,600
Excavation	CY	\$ 25.00	1,250	\$ 31,250
Traffic Striping	LF	\$ 2.50	180	\$ 450
3/4" Aggregate Base	TON	\$ 35.00	1,250	\$ 43,750
Hot Mix Asphalt (1/2" Mix)	TON	\$ 120.00	560	\$ 67,200
Curb and Gutter	LF	\$ 55.00	1,000	\$ 55,000
Signs	EACH	\$ 500.00	34	\$ 17,000
Illumination	LS	\$ 120,000.00	1	\$ 120,000
Sidewalk	SY	\$ 80.00	140	\$ 11,200
ADA Ramps	EACH	\$ 4,500.00	18	\$ 81,000
<b>Subtotal</b>				<b>\$ 457,300</b>
Mobilization - Percent of Item Cost Sum		10%		\$ 45,800
Contingency - % of construction costs		35%		\$ 160,100
Engineering Design		20%		\$ 132,700
<b>Total Construction Costs</b>				<b>\$ 795,900</b>
Engineering and CMS - % of construction costs		25%		\$ 199,000
<b>Total Project Cost (rounded)</b>				<b>\$995,000</b>

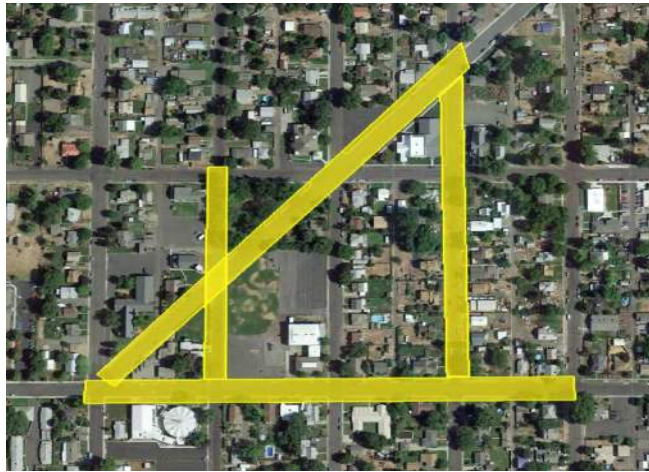
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**Install ADA-compliant sidewalks and curb ramps**

**Project Identifier:** HFCS.5

**Objective:**  
Increase overall quality and condition of ADA network around residential areas that feed into Holy Family Catholic School.

**Project Location:**  
Greater residential area around Holy Family



General Line Items	Unit	Unit Price	Estimated Quantity	Cost (2022 dollars)
<b>Chestnut Street (8th - 12th Street)</b>				
Sidewalk Improvements	LF	\$ 150.00	2,160	\$ 324,000
ADA Ramps	EACH	\$ 4,500.00	14	\$ 63,000
Crosswalk Striping	SF	\$ 10.00	2,620	\$ 26,200
Traffic Control	LS	\$ 5,000.00	4	\$ 20,000
<b>Subtotal</b>				<b>\$ 433,200</b>
<b>Diagonal Street (9th - 12th Street)</b>				
Sidewalk Improvements	LF	\$ 150.00	2,080	\$ 312,000
ADA Ramps	EACH	\$ 4,500.00	16	\$ 72,000
Crosswalk Striping	SF	\$ 10.00	3,320	\$ 33,200
Traffic Control	LS	\$ 5,000.00	3	\$ 15,000
<b>Subtotal</b>				<b>\$ 432,200</b>
<b>11th Street (Chestnut - Sycamore Street)</b>				
Sidewalk Improvements	LF	\$ 150.00	925	\$ 138,750
ADA Ramps	EACH	\$ 4,500.00	4	\$ 18,000
Crosswalk Striping	SF	\$ 10.00	640	\$ 6,400
Traffic Control	LS	\$ 5,000.00	2	\$ 10,000
<b>Subtotal</b>				<b>\$ 173,200</b>
<b>9th Street (Chestnut - Diagonal Street)</b>				
Sidewalk Improvements	LF	\$ 150.00	1,665	\$ 249,750
ADA Ramps	EACH	\$ 4,500.00	4	\$ 18,000
Crosswalk Striping	SF	\$ 10.00	640	\$ 6,400
Traffic Control	LS	\$ 5,000.00	2	\$ 10,000
<b>Subtotal</b>				<b>\$ 284,200</b>
Mobilization		10%		\$ 132,300
Contingency - % of construction costs		35%		\$ 463,000
Engineering Design		20%		\$ 264,600
<b>Total Construction Costs</b>				<b>\$ 1,918,100</b>
Bidding & CE&I		25%		\$ 479,600
<b>Total Project Cost (rounded)</b>				<b>\$2,398,000</b>

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