

CHAPTER 7

CAPITAL IMPROVEMENT PROGRAM

This Chapter presents the proposed Capital Improvement Program (CIP), with a brief description of the proposed projects and a preliminary cost estimate for each proposed improvement for the City. Also included in the CIP recommendations are general timelines and scheduling for the needed improvements, and general guidelines for cost allocations relative to existing and future developments.

BASIS OF CAPITAL IMPROVEMENT PROGRAM COSTS

The capital improvement program (CIP) costs were developed based on engineering judgment, confirmed bid prices for similar work in the Central Coast area, consultation with vendors and contractors, established budgetary unit prices for the work, and other reliable sources. Hard construction costs are typically escalated by a factor of 1.4, to allow budget for "soft costs" that include preliminary engineering, engineering, administration, construction management and inspection costs. Some projects may have factors other than 1.4 depending on project type. All CIP costs are expressed in Year 2010 dollars, using McGraw-Hill ENR Construction Cost Index of 8671 (March 2010), and will need to be escalated to the year or years scheduled for the work. The unit cost for new gravity sewers includes the proposed pipelines, manholes, lateral re-connections, sewer bypassing, traffic control, etc., and all other aspects of sewer system construction.

TIMING OF RECOMMENDED IMPROVEMENTS

There are projects triggered by existing deficiencies and projects triggered by future development. The projects that address existing deficiencies are ranked in order of importance, which is discussed in greater detail within this Chapter and shown in Table 7-1. These existing deficiencies are considered Near Term projects and are recommended to be completed within the next 1 to 5 years and are shown in Table 7-2. Near Term CIP that are triggered by existing demands, but also must be upgraded for future flows are identified in Tables 7-1 and 7-2. In these cases the CIP recommendation is the upgrade required to accommodate future flows.

There are also projects that are triggered by potential future development, for which the timing is always difficult to ascertain. These Long Term projects are presented in Table 7-3.

Recommended projects have not been evaluated for potential environmental impacts as a part of this study. Projects will be subject to the requirements of CEQA prior to approval and funding.

CIP RANKING

The near term capital improvement projects were ranked to determine what priority the existing recommended projects should be constructed. Table 7-1 evaluates each of the

projects in five categories: overflow to a water body of the state, hydraulic capacity (d/D), community impact, maintenance hot spots, and cost. Each category was provided a weighted importance factor based on what factors are more important than others. The importance factor is multiplied by the score the project received and then summed together to determine its final score.

*Although the projects are ranked as described above, it should be noted that **all** projects identified in the Near Term CIPs are a result of deficiencies in the existing collection system due to existing needs and are therefore all important to be constructed within the next 1 to 5 years. It is also recommended that the City review these projects periodically to determine if any substantial changes have occurred that may re-prioritize a project to a higher ranking.*

Table 7-2 provides a summary of all the existing recommended CIPs, or Near Term Projects, in order of ranking from Table 7-1. Table 7-2 also provides an estimate of the construction and "soft" costs for each project. The costs are based on engineering judgment, confirmed bid prices for similar work in the Central Coast area, consultation with vendors and contractors, established budgetary unit prices for the work, and other reliable sources. The cost estimates are approximate and should be used for planning purposes only. Actual project costs will vary depending upon economic conditions at the time of construction. As noted previously, these costs are based on Year 2010 dollars (McGraw-Hill ENR Construction Cost Index of 8671) and need to be escalated to the year or years scheduled for the work.

Table 7-3 provides a summary of the future recommended CIPs, or Long Term Projects, and their estimated costs. These projects are not ranked.

Following the tables, project description sheets are provided for each project noted. The project description sheets provide the following information:

- Project name
- Project trigger
- Project benefit
- Project need
- Project cost
- Project schedule
- Project description
- Project map

These description sheets can be used by City Staff in the planning for each project, and for inclusion in fiscal year budget requests.

Exhibits 1 and 2 in Appendix D show the Near Term and Long Term CIPS throughout the City.

UNIT COSTS

Table 7-2 and 7-3 provide costs for the recommended capital improvement projects. The unit costs are based on recent construction costs and engineering judgment. The unit costs for the various pipe diameters are as follows in Table 7-4:

Table 7-4. Unit Cost for Construction of Sewer Mains

Pipe Diameter (inches)	Unit Cost (\$/LF)	Notes
8	180	Typical construction
8	235	For projects with heavy traffic control requirements
10	195	Typical construction
10	255	For projects with heavy traffic control requirements
12	205	Typical construction
12	265	For projects with heavy traffic control requirements
12	300	For projects located in trenches with concrete backfill
15	220	Typical construction
15	280	For projects with heavy traffic controls requirements
15	315	For projects located in trenches with concrete backfill
18	235	Typical construction
18	325	For projects with heavy traffic controls requirements
21	250	Typical construction
21	325	For projects with heavy traffic controls requirements
36	400	Typical construction

Projects with heavy traffic control requirements will be identified using the listing of highways, major thoroughfares, major collectors, and collectors as defined in Appendix D of the City's 1992 Design Standards.

Table 7-1. City of Hollister CIP Ranking Matrix

Importance Factor		5	4	3	2	1	Impacted By Future Development	Score = Sum of Importance Factor X Points	Ranking
		Overflow to Water Body of the State Yes - 10 No - 0	Design Standard Meets Design Standard - 0 Doesn't Meet Design Standards - 2 Surcharging - 5 Overflowing - 10	Community Impact < 1,000 - 0 1,001 to 5,000 - 5 > 5,000 - 10	Maintenance Hot Spot Not Critical - 0 Yearly Check - 5 Weekly or Monthly Checks - 10	Cost <\$25,000 - 10 \$25,001 to \$100,000 - 5 >\$100,000 - 2			
Project Name							Yes/No		
Bridge Road Interconnect		0	2	10	0	10	No	48	1
Powell Street Sewer Pipe Upgrade		0	5	0	10	2	Yes	42	2
West Street Sewer Pipe Upgrade		0	5	0	10	2	Yes	42	3
Line Street Near Term Sewer Pipe Upgrade		0	2	10	0	2	No	40	4
GLP Lift Station Upgrades Near Term		0	2	0	10	10	No	38	5
Nash Road Sewer Pipe Upgrade		0	5	5	0	2	Yes	37	6
Southside Lift Station Upgrades Near Term		0	2	0	10	2	No	30	7
2nd and East Lift Station Upgrades Near Term		0	0	0	10	10	No	30	8
Sunset Drive Sewer Pipe Upgrade		0	2	5	0	2	Yes	25	9
Airport Lift Station Upgrades Near Term		0	0	0	10	5	No	25	10

Table 7-2. City of Hollister Near Term Capital Improvement Program

Project #	Title	Description	Quantity	Length (ft)	Old Diameter (in)	New Diameter (in)	Street	Location	Upstream Manhole Number	Downstream Manhole Number	Upgrade to Meet Future Needs*	Traffic Control	Construction Cost (\$)	Subtotal (\$)	Total Project Cost (\$)**
1	Bridge Road Interconnect	New Pipe	--	30	--	21	Bridge Road	Northeast of Azul Court	WGS49	549	Yes	Light	\$250	\$7,500	\$10,500
3	Powell Street Sewer Pipe Upgrade	Pipe Upgrade	--	800	6	10	Powell Street	From Wiebe Way to 7th Street	462	427	Yes	Light	\$195	\$156,000	\$218,400
				480	6	8	Powell Street	From Val Way to Wiebe Way	459	462	Yes	Light	\$180	\$72,000	\$100,800
				Total Pipe Length 1,280											\$319,200
2	West Street Sewer Pipe Upgrade	Pipe Upgrade	--	800	6	10	West Street	From SMH 471 to 7th Street	471	428	Yes	Light	\$195	\$156,000	\$218,400
				1,600	6	8	West Street	From B Street to SMH 471	475	471	Yes	Light	\$180	\$288,000	\$403,200
				Total Pipe Length 2,400											\$621,600
4	Line Street Near Term Sewer Pipe Upgrade	Pipe Upgrade	--	3,000	15	18	Line Street	From Nash Road to Mica Court	274	414	Yes	Heavy	\$385	\$975,000	\$1,365,000
5	GLP L.S. Upgrade	Facility Upgrades	1	--	--	--	Frontage Road	Frontage Road 1,500 feet north of McCloskey Road	--	--	No	Light	\$14,400	\$14,400	\$20,160
6	Nash Road Sewer Pipe Upgrade	Pipe Upgrade	--	1,000	12	15	Nash Road	From San Benito Street to Prune Street	268	271	Yes	Heavy	\$280	\$280,000	\$382,000
				2,700	12	15	Tras Pinos Road	From Prune Street to Airline Highway	280	268	Yes	Heavy	\$280	\$756,000	\$1,058,400
				1,700	12	15	Sunnyslope Road	From Airline Highway to SMH 259	259	290	Yes	Heavy	\$280	\$476,000	\$666,400
				400	8	12	Sunnyslope Road	From SMH 259 to Memorial Drive	245	259	Yes	Heavy	\$265	\$106,000	\$148,400
				Total Pipe Length 5,600											\$2,265,200
7	Southside L.S. Upgrades	Facility Upgrades	1	--	--	--	Southside Road	At the intersection of Southside Road and Enterprise Road	--	--	No	--	\$76,500	\$76,500	\$107,100
8	2nd and East L.S. Upgrades	Facility Upgrades	1	--	--	--	East Street	At the intersection of 2nd Street and East Street	--	--	No	--	\$7,200	\$7,200	\$10,080
9	Sunset Drive Sewer Pipe Upgrade	Pipe Upgrade	--	600	8	12	Memorial Drive	From Sunnyslope Road to Cedar Street	207	245	Yes	Heavy	\$285	\$159,000	\$222,600
				700	6	12	Cedar Street	From Memorial Drive to Iris Street	204	207	Yes	Heavy	\$265	\$185,500	\$259,700
				500	6	12	Iris Street	From Cedar Street to Valley View Road	202	204	Yes	Heavy	\$285	\$132,500	\$185,500
				800	6	12	Valley View Drive	From Iris Street to Sunset Drive	188	202	Yes	Heavy	\$265	\$212,000	\$296,600
				600	6	12	Sunset Drive	From Valley View Drive to SMH 190	190	188	Yes	Heavy	\$255	\$153,000	\$214,200
				1,900	6	10	Sunset Drive	From Valley View Drive to Clara Vista Drive	197	190	Yes	Heavy	\$255	\$484,500	\$678,300
				1,300	6	10	Clara Vista Drive	From Sunset Drive to Tiburon Drive	190	197	Yes	Heavy	\$255	\$331,500	\$464,100
				Total Pipe Length 5,400											\$2,321,200

Table 7-2. City of Hollister Near Term Capital Improvement Program

Project #	Title	Description	Quantity	Length (ft)	Old Diameter (in)	New Diameter (in)	Street	Location	Upstream Manhole Number	Downstream Manhole Number	Upgrade to Meet Future Needs*	Traffic Control	Construction Cost (\$)	Subtotal (\$)	Total Project Cost (\$)**
10	Airport LS Upgrades	Facility Upgrades	1	--	--	--	San Felipe Road	At Hollister municipal airport	--	--	No	--	\$76,200	\$76,200	\$106,690
TOTAL NEAR TERM PROJECT COSTS															\$7,146,720

* If noted "Yes", then the proposed project has existing deficiencies. In addition, upgrades are necessary for future development. The proposed pipe diameter noted in this table is to meet the capacity needs of future development.

** Total includes construction cost plus preliminary engineering, design engineering, administration construction management and inspection costs. Construction costs were developed based on engineering judgment, confirmed bid prices for similar work in the Central Coast area, consultation with

Table 7-3. City of Hollister Long Term Capital Improvement Program

Project #	Title	Description	Quantity	Length (Ft)	Old Diameter (in)	New Diameter (in)	Street	Location	Upstream Manhole Number	Downstream Manhole Number	Traffic Control	Construction Cost (\$)	Subtotal (\$)	Total Project Cost (\$)**	
1	Aerostar Way Sewer Pipe Upgrade	Pipe Upgrade	--	1,900	12	15	Aerostar Way	From Airway Drive to SMH 503	494	503	Light	\$220	\$418,000	\$585,200	
2	Hillcrest Road Sewer Pipe Upgrade	Pipe Upgrade	--	1,400	8	10	Hillcrest Road	From El Cerro Drive to Memorial Drive	335	330	Heavy	\$255	\$357,000	\$498,800	
3	Fallon Road Sewer Pipe Upgrade	Pipe Upgrade	--	2,200	10	12	Fallon Road	From Shelton Drive to Technology Parkway	485	480	Heavy	\$265	\$583,000	\$816,200	
4	Kirk Patrick to GLP LS	Pipe Upgrade	--	1,600	10	12	Frontage Road	From McCloskey Road To GLP Lift Station	WG373	GLP LS	Light	\$205	\$328,000	\$459,200	
		Pipe Upgrade	--	500	10	12	McCloskey Road	From McCloskey Road to Frontage Road	WG372	WG373	Light	\$205	\$102,500	\$143,500	
		Pipe Upgrade	--	1,700	10	12	Kirk Patrick	From Chappel Road to McCloskey Road	525	WG372	Light	\$205	\$348,500	\$487,900	
		Pipe Upgrade	--	500	10	12	San Felipe Road	From SMH 524 to Chappel Road	524	525	Light	\$205	\$102,500	\$143,500	
Total Pipe Length 4,300														Total	\$1,234,100
5	Line Street Long Term Sewer Pipe Upgrade	Pipe Upgrade	--	1,600	15	18	Line Street	From Peridot Court to 5th Street	414	406	Heavy	\$325	\$520,000	\$728,000	
		Pipe Upgrade	--	1,800	15	18	Nash Road	From West Street to Line SMH 274	281	274	Heavy	\$325	\$585,000	\$819,000	
Total Pipe Length 3,400														Total	\$1,547,000
6	Miller Road Sewer Pipe Upgrade	Pipe Upgrade	--	300	8	12	Miller Road	From Shelton Drive to Technology Parkway	485	480	Light	\$205	\$61,500	\$86,100	
7	San Juan Road Sewer Pipe Upgrade	Pipe Upgrade	--	30	27	36	San Juan Road	At the intersection of Westside Boulevard	543	542	Heavy	\$400	\$12,000	\$16,800	

Table 7-3. City of Hollister Long Term Capital Improvement Program

Project #	Title	Description	Quantity	Length (ft)	Old Diameter (in)	New Diameter (in)	Street	Location	Upstream Manhole Number	Downstream Manhole Number	Traffic Control	Construction Cost (\$)	Subtotal (\$)	Total Project Cost (\$)**
8	Technology Parkway Sewer Pipe Upgrade	Pipe Upgrade	--	700	10	12	Technology Parkway	From SMH 488 to SMH 510	488	510	Light	\$205	\$143,500	\$200,900
9	Airport LS VFD Upgrade	Facility Upgrades	1	--	--	--	San Felipe Road	At Hollister municipal airport	--	--	Minimal	\$540,000	\$540,000	\$756,000
10	GLP LS VFD Upgrade	Facility Upgrades	1	--	--	--	Frontage Road	Frontage Road 1,500 feet north of McCloskey Road	--	--	Light	\$600,000	\$600,000	\$840,000
11	2nd and East LS Upgrades	Facility Upgrades	1	--	--	--	East Street	At the intersection of 2nd Street and East Street	--	--	Light	\$6,500	\$6,500	\$9,100
12	Cushman Street Sewer Pipe Upgrade	Pipe Upgrade	--	600	15	18	Cushman Street	From Velado Street to Andrews Drive	177	179	Light	\$235	\$141,000	\$197,400
TOTAL LONG TERM PROJECT COSTS														\$6,788,600
** Total includes construction cost plus preliminary engineering, design engineering, administration construction management and inspection costs. Construction costs were developed based on engineering judgment, confirmed bid prices for similar work in the Central Coast area, consultation with vendors and contractors, established budgetary unit prices for the work, and other reliable sources.														



Near Term Project No. 1: Bridge Road Interconnect

City of Hollister Capital Improvement Project Information Sheet
2010 Sanitary Sewer Collection System Master Plan

Project Trigger

- ☒ Existing Condition
☐ Future Condition

Jurisdiction

- ☒ City of Hollister
☐ San Benito County

Project Benefit

Existing Customers 60%
New Development 40%

Project Components

- ☐ Upgrade Gravity Pipeline
☒ New Gravity Pipeline
☐ Upgrade Lift Station
☐ Upgrade Force Main
☐ Rehabilitation/Repair
☐ Inspection and/or analysis
☐ Replace Manhole

Project Scheduling

Est. Construction Duration: 2 weeks



Project Need

- ☐ Insufficient capacity for existing flow
☒ Insufficient capacity for future flow
☐ Existing condition limits O&M
☐ Consolidate parallel sewer mains

Project Cost Breakdown

	Construction Cost ¹	\$7,500
Planning, Engineering, CM, Legal/Admin (40%)		\$3,000
Total Project Cost		\$10,500

Project Description

The Bridge Road Near Term project proposes to add approximately 30 feet of 21-inch pipe between two sewer manholes on the existing parallel 21-inch and 36-inch sewer pipes on Bridge Road. The existing 21-inch runs at 60% to 80% full during existing peak flow conditions and 90% full during future peak flow conditions. It is assumed that wastewater flows are not properly distributed between the parallel sewer pipes. This upgrade would allow for continued use of the existing 21-inch sewer pipe without upgrading the sewer pipe.

1. Construction costs are expressed in Year 2010 dollars, using an ENR construction Cost Index of 8671, and will need to be escalated to the year or years scheduled for the work.

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Near Term Project No. 2: Powell Street Sewer Pipe Upgrade

City of Hollister Capital Improvement Project Information Sheet
2010 Sanitary Sewer Collection System Master Plan

Project Trigger

- ☒ Existing Condition
☐ Future Condition

Jurisdiction

- ☒ City of Hollister
☐ San Benito County

Project Benefit

Existing Customers	95%
New Development	5%

Project Components

- ☒ Upgrade Gravity Pipeline
☐ New Gravity Pipeline
☐ Upgrade Lift Station
☐ Upgrade Force Main
☒ Rehabilitation/Repair
☐ Inspection and/or analysis
☐ Replace Manhole

Project Scheduling

Est. Construction Duration: 6 weeks



Project Need

- ☒ Insufficient capacity for existing flow
☒ Insufficient capacity for future flow
☐ Existing condition limits O&M
☐ Consolidate parallel sewer mains

Project Cost Breakdown

Construction Cost ¹	\$228,000
Planning, Engineering, CM, Legal/Admin (40%)	\$91,200
Total Project Cost	\$319,200

Project Description

The Powell Street Near Term project proposes to replace approximately 1,200 feet of 6-inch pipe with 8-inch and 10-inch pipe on Powell Street from 7th Street to Vali Way. Powell Street is a known problem area and has insufficient capacity for existing conditions. These pipes segments run 50% to 100% full during existing peak flow conditions. Although these pipe will receive future flow, the pipes will not need to be upsized further to accept future flow conditions since future pipe size recommendations are being used for this near term project.

1. Construction costs are expressed in Year 2010 dollars, using an ENR construction Cost Index of 8671, and will need to be escalated to the year or years scheduled for the work.

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Near Term Project No. 3: West Street Sewer Pipe Upgrade

City of Hollister Capital Improvement Project Information Sheet

2010 Sanitary Sewer Collection System Master Plan

Project Trigger

- ☒ Existing Condition
☐ Future Condition

Jurisdiction

- ☒ City of Hollister
☐ San Benito County

Project Benefit

Existing Customers	90%
New Development	10%

Project Components

- ☒ Upgrade Gravity Pipeline
☐ New Gravity Pipeline
☐ Upgrade Lift Station
☐ Upgrade Force Main
☐ Rehabilitation/Repair
☐ Inspection and/or analysis
☐ Replace Manhole

Project Scheduling

Est. Construction Duration: 10 weeks



Project Need

- ☒ Insufficient capacity for existing flow
☒ Insufficient capacity for future flow
☐ Existing condition limits O&M
☐ Consolidate parallel sewer mains

Project Cost Breakdown

Construction Cost ¹	\$444,000
Planning, Engineering, CM, Legal/Admin (40%)	\$177,600
Total Project Cost	\$621,600

Project Description

The West Street Near Term project proposes to replace approximately 2,400 feet of 6-inch pipe with 8-inch and 10-inch pipe on West Street from 7th Street to Haydon Street. West Street is a known problem area and has insufficient capacity for existing conditions. These pipes segments run 90% to 100% full during existing peak flow conditions. Although these pipe will receive future flow, the pipes will not need to be upsized further to accept future flow conditions since future pipe size recommendations are being used for this near term project.

1. Construction costs are expressed in Year 2010 dollars, using an ENR construction Cost Index of 8671, and will need to be escalated to the year or years scheduled for the work.

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Near Term Project No. 3: West Street Sewer Pipe Upgrade



Near Term Project No. 4: Line Street Sewer Pipe Upgrade

City of Hollister Capital Improvement Project Information Sheet

2010 Sanitary Sewer Collection System Master Plan

Project Trigger

- ☒ Existing Condition
☐ Future Condition

Jurisdiction

- ☒ City of Hollister
☐ San Benito County

Project Benefit

Existing Customers	70%
New Development	30%

Project Components

- ☒ Upgrade Gravity Pipeline
☐ New Gravity Pipeline
☐ Upgrade Lift Station
☐ Upgrade Force Main
☐ Rehabilitation/Repair
☐ Inspection and/or analysis
☐ Replace Manhole

Project Scheduling

Est. Construction Duration: 12 weeks



Project Need

- ☒ Insufficient capacity for existing flow
☒ Insufficient capacity for future flow
☐ Existing condition limits O&M
☐ Consolidate parallel sewer mains

Project Cost Breakdown

Construction Cost ¹	\$975,000
Planning, Engineering, CM, Legal/Admin (40%)	\$390,000
Total Project Cost	\$1,365,000

Project Description

The Line Street Near Term project proposes to replace approximately 3,000 feet of 15-inch pipe with 18-inch pipe on Line Street from Nash Road to Mica Court. These pipes segments run 75% full during existing peak flow conditions. Although these pipes will receive future flow, the pipes will not need to be upsized further to accept future flow conditions.

1. Construction costs are expressed in Year 2010 dollars, using an ENR construction Cost Index of 8671, and will need to be escalated to the year or years scheduled for the work.

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Near Term Project No. 4: Line Street Sewer Pipe Upgrade



Near Term Project No. 5: GLP Lift Station Upgrade

City of Hollister Capital Improvement Project Information Sheet
2010 Sanitary Sewer Collection System Master Plan

Project Trigger

- ☒ Existing Condition
☐ Future Condition

Jurisdiction

- ☒ City of Hollister
☐ San Benito County

Project Benefit

Existing Customers	100%
New Development	0%

Project Components

- ☐ Upgrade Gravity Pipeline
☐ New Gravity Pipeline
☒ Upgrade Lift Station
☐ Upgrade Force Main
☐ Rehabilitation/Repair
☒ Inspection and/or analysis
☐ Replace Manhole

Project Scheduling

Est. Construction Duration: 2 weeks



Project Need

- ☐ Insufficient capacity for existing flow
☐ Insufficient capacity for future flow
☒ Existing condition limits O&M
☐ Consolidate parallel sewer mains

Project Cost Breakdown

Construction Cost ¹	\$14,400
Planning, Engineering, CM, Legal/Admin (40%)	\$5,760
Total Project Cost	\$20,160

Project Description

The GLP Lift Station Near Term project proposes to evaluate the existing SCADA control system for failure to send an alarm signal when one or both of the pumps is not operating. In addition, the project proposes to reconfigure SCADA controls at the lift station to disable the pumps at the Airport Lift Station if the GLP Lift Station pumps are not operating. The SCADA controls will help to prevent overflow at the GLP Lift Station by minimizing inflow during a power outage or pump failure.

1. Construction costs are expressed in Year 2010 dollars, using an ENR construction Cost Index of 8671, and will need to be escalated to the year or years scheduled for the work.

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Near Term Project No. 5: GLP Lift Station Upgrade



Near Term Project No. 6: Nash Road Sewer Pipe Upgrade

City of Hollister Capital Improvement Project Information Sheet
2010 Sanitary Sewer Collection System Master Plan

Project Trigger

- ☒ Existing Condition
☐ Future Condition

Jurisdiction

- ☒ City of Hollister
☐ San Benito County

Project Benefit

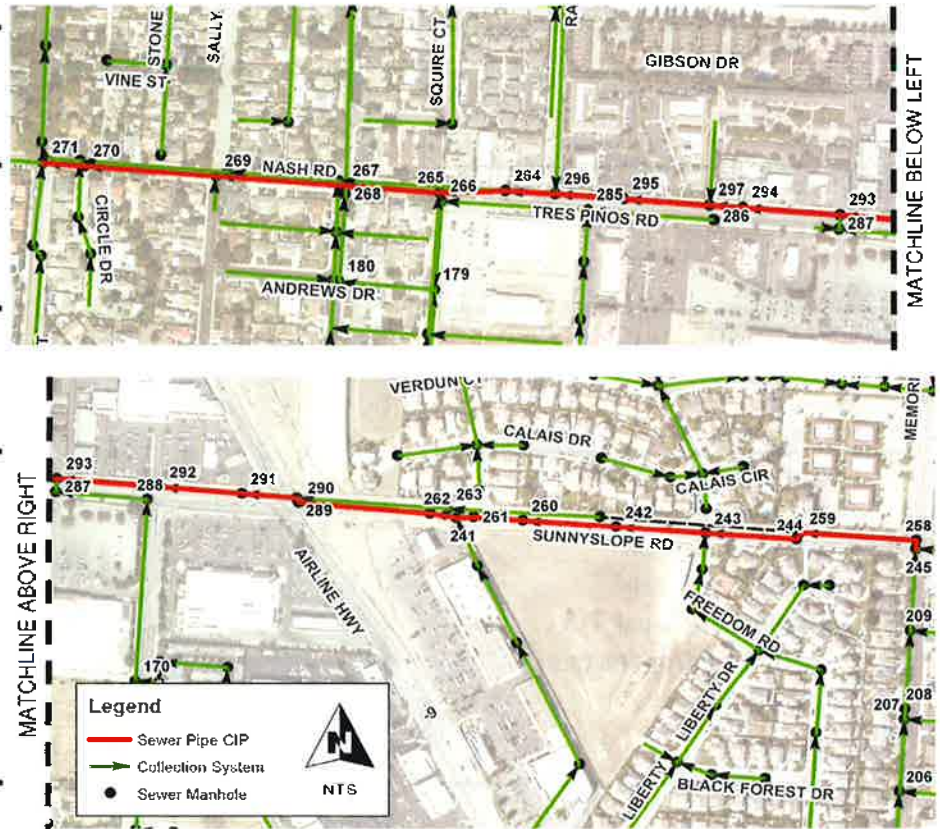
Existing Customers	70%
New Development	30%

Project Components

- ☒ Upgrade Gravity Pipeline
☐ New Gravity Pipeline
☐ Upgrade Lift Station
☐ Upgrade Force Main
☐ Rehabilitation/Repair
☐ Inspection and/or analysis
☐ Replace Manhole

Project Scheduling

Est. Construction Duration: 24 weeks



Project Need

- ☒ Insufficient capacity for existing flow
☒ Insufficient capacity for future flow
☐ Existing condition limits O&M
☐ Consolidate parallel sewer mains

Project Cost Breakdown

Construction Cost ¹	\$1,618,000
Planning, Engineering, CM, Legal/Admin (40%)	\$647,200
Total Project Cost	\$2,265,200

Project Description

The Nash Road Near Term project proposes to replace approximately 5,400 feet of 12-inch pipe and 400 of 8-inch pipe with 15-inch pipe and 12-inch pipe on Nash Road from San Benito Street to Memorial Drive. These pipes segments run 70% to 100% full during existing peak flow conditions. Although these pipe will receive future flow, the pipes will not need to be upsized further to accept future flow conditions since future pipe size recommendations are being used for this near term project.

1. Construction costs are expressed in Year 2010 dollars, using an ENR construction Cost Index of 8671, and will need to be escalated to the year or years scheduled for the work.

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Near Term Project No. 7: Southside Lift Station Upgrade

City of Hollister Capital Improvement Project Information Sheet

2010 Sanitary Sewer Collection System Master Plan

Project Trigger

- ☒ Existing Condition
☐ Future Condition

Jurisdiction

- ☐ City of Hollister
☒ San Benito County

Project Benefit

Existing Customers	100%
New Development	0%

Project Components

- ☐ Upgrade Gravity Pipeline
☐ New Gravity Pipeline
☒ Upgrade Lift Station
☐ Upgrade Force Main
☐ Rehabilitation/Repair
☐ Inspection and/or analysis
☐ Replace Manhole

Project Scheduling

Est. Construction Duration: 3 weeks



Project Need

- ☐ Insufficient capacity for existing flow
☐ Insufficient capacity for future flow
☒ Existing condition limits O&M
☐ Consolidate parallel sewer mains

Project Cost Breakdown

	Construction Cost ¹	\$76,500
Planning, Engineering, CM, Legal/Admin (40%)		\$30,600
Total Project Cost		\$107,100

Project Description

The Southside Lift Station Near Term project proposes to install a blower and odor scrubber adjacent to the wet well to help prevent corrosion of the wet well, pumps, and piping. In addition, it is proposed to help protect the site from vandalism by installing security fencing.

1. Construction costs are expressed in Year 2010 dollars, using an ENR construction Cost Index of 8671, and will need to be escalated to the year or years scheduled for the work.

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Near Term Project No. 7: Southside Lift Station Upgrade



Near Term Project No. 8: 2nd and East Lift Station Upgrade

City of Hollister Capital Improvement Project Information Sheet
2010 Sanitary Sewer Collection System Master Plan

Project Trigger

- ☒ Existing Condition
☐ Future Condition

Jurisdiction

- ☒ City of Hollister
☐ San Benito County

Project Benefit

Existing Customers	100%
New Development	0%

Project Components

- ☐ Upgrade Gravity Pipeline
☐ New Gravity Pipeline
☐ Upgrade Lift Station
☐ Upgrade Force Main
☒ Rehabilitation/Repair
☐ Inspection and/or analysis
☐ Replace Manhole

Project Scheduling

Est. Construction Duration: 1 week



Project Need

- ☐ Insufficient capacity for existing flow
☐ Insufficient capacity for future flow
☒ Existing condition limits O&M
☐ Consolidate parallel sewer mains

Project Cost Breakdown

Construction Cost ¹	\$7,200
Planning, Engineering, CM, Legal/Admin (40%)	\$2,880
Total Project Cost	\$10,080

Project Description

The 2nd and East Near Term Project proposes to replace an existing slide gate due to corrosion. The slide gate protects the lift station from backflow entering the wetwell through the overflow pipeline.

1. Construction costs are expressed in Year 2010 dollars, using an ENR construction Cost Index of 8671, and will need to be escalated to the year or years scheduled for the work.

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San Luis Obispo, CA

Near Term Project No. 8: 2nd and East Lift Station Upgrade



Near Term Project No. 9: Sunset Drive Sewer Pipe Upgrade

City of Hollister Capital Improvement Project Information Sheet

2010 Sanitary Sewer Collection System Master Plan

Project Trigger

- ☒ Existing Condition
☐ Future Condition

Jurisdiction

- ☒ City of Hollister
☐ San Benito County

Project Benefit

Existing Customers	60%
New Development	40%

Project Components

- ☒ Upgrade Gravity Pipeline
☐ New Gravity Pipeline
☐ Upgrade Lift Station
☐ Upgrade Force Main
☐ Rehabilitation/Repair
☐ Inspection and/or analysis
☐ Replace Manhole

Project Scheduling

Est. Construction Duration: 24 weeks



Project Need

- ☒ Insufficient capacity for existing flow
☒ Insufficient capacity for future flow
☐ Existing condition limits O&M
☐ Consolidate parallel sewer mains

Project Cost Breakdown

Construction Cost ¹	\$1,658,000
Planning, Engineering, CM, Legal/Admin (40%)	\$663,200
Total Project Cost	\$2,321,200

Project Description

The Sunset Drive Near Term project proposes to replace approximately 5,800 feet of 6-inch pipe and 600 feet of 8-inch pipe with 10-inch pipe and 12-inch pipe along Sunset Drive from Sunnyslope Road to Tiburon Drive. These pipe segments run 50% to 100% full during existing peak flow conditions. Although these pipes will receive future flow, the pipes will not need to be upsized further to accept future flow conditions since future pipe size recommendations are being used for this near term project.

1. Construction costs are expressed in Year 2010 dollars, using an ENR construction Cost Index of 8671, and will need to be escalated to the year or years scheduled for the work.

PREPARED BY:

Wallace Group
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 San Luis Obispo, CA

Near Term Project No. 9: Sunset Drive Sewer Pipe Upgrade



Near Term Project No. 10: Airport Lift Station Upgrade

City of Hollister Capital Improvement Project Information Sheet

2010 Sanitary Sewer Collection System Master Plan

Project Trigger

- ☒ Existing Condition
☐ Future Condition

Jurisdiction

- ☒ City of Hollister
☐ San Benito County

Project Benefit

Existing Customers	100%
New Development	0%

Project Components

- ☐ Upgrade Gravity Pipeline
☐ New Gravity Pipeline
☒ Upgrade Lift Station
☐ Upgrade Force Main
☐ Rehabilitation/Repair
☒ Inspection and/or analysis
☐ Replace Manhole

Project Scheduling

Est. Construction Duration: 3 weeks



Project Need

- ☐ Insufficient capacity for existing flow
☐ Insufficient capacity for future flow
☒ Existing condition limits O&M
☐ Consolidate parallel sewer mains

Project Cost Breakdown

	Construction Cost ¹	\$76,200
Planning, Engineering, CM, Legal/Admin (40%)		\$30,480
Total Project Cost		\$106,680

Project Description

The Airport Lift Station Near Term project proposes to install a blower and odor scrubber adjacent to the wet well to help prevent corrosion of the wet well, pumps, and piping. In addition, it is proposed to prepare a feasibility and cost analysis to determine if the Airport lift station could be upgraded in the future to bypass the GLP lift station and flow to the gravity collection system.

1. Construction costs are expressed in Year 2010 dollars, using an ENR construction Cost Index of 8671, and will need to be escalated to the year or years scheduled for the work.

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Near Term Project No. 10: Airport Lift Station Upgrade



Long Term Project No. 1: Aerostar Way Sewer Pipe Upgrade

City of Hollister Capital Improvement Project Information Sheet

2010 Sanitary Sewer Collection System Master Plan

Project Trigger

- ☐ Existing Condition
☒ Future Condition

Jurisdiction

- ☒ City of Hollister
☐ San Benito County

Project Benefit

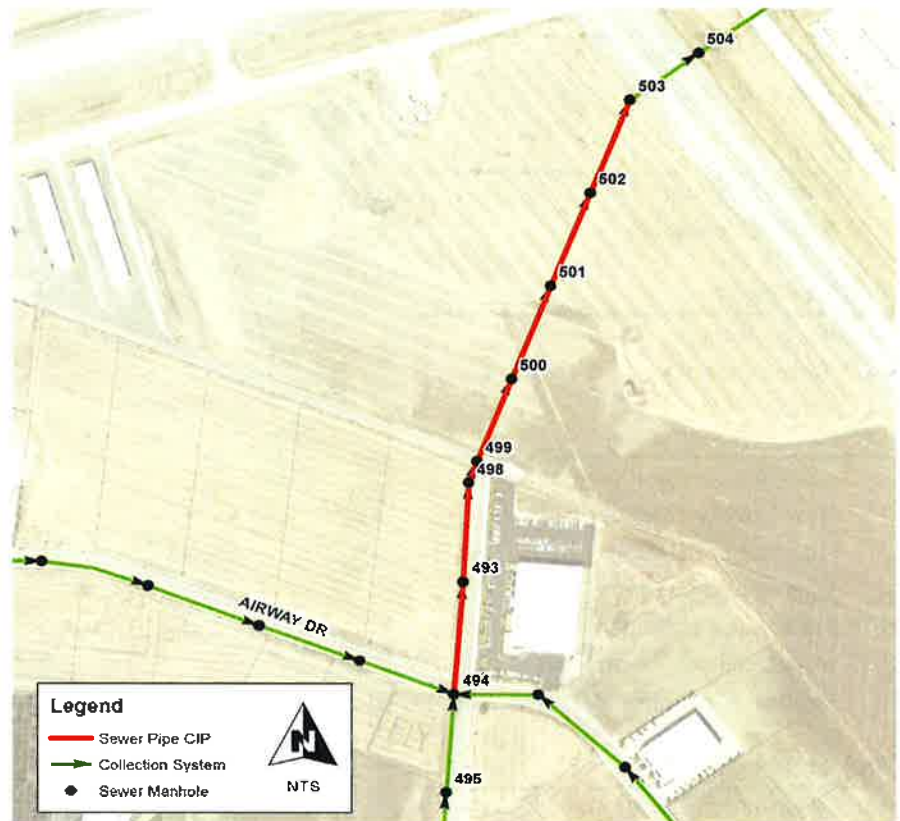
Existing Customers 0%
New Development 100%

Project Components

- ☒ Upgrade Gravity Pipeline
☐ New Gravity Pipeline
☐ Upgrade Lift Station
☐ Upgrade Force Main
☐ Rehabilitation/Repair
☐ Inspection and/or analysis
☐ Replace Manhole

Project Scheduling

Est. Construction Duration: 8 weeks



Project Need

- ☐ Insufficient capacity for existing flow
☒ Insufficient capacity for future flow
☐ Existing condition limits O&M
☐ Consolidate parallel sewer mains

Project Cost Breakdown

Construction Cost ¹	\$418,000
Planning, Engineering, CM, Legal/Admin (40%)	\$167,200
Total Project Cost	\$585,200

Project Description

The Aerostar Way Long Term project proposes to replace approximately 1,900 feet of 12-inch pipe with 15-inch pipe on Aerostar Way from Airway Drive north to the airport. These pipe segments run 70% to 90% full during future peak flow conditions. This upgrade increases collection system capacity to serve future flow conditions within the project area.

1. Construction costs are expressed in Year 2010 dollars, using an ENR construction Cost Index of 8671, and will need to be escalated to the year or years scheduled for the work.

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Long Term Project No. 2: Hillcrest Road Sewer Pipe Upgrade

City of Hollister Capital Improvement Project Information Sheet
2010 Sanitary Sewer Collection System Master Plan

Project Trigger

- ☐ Existing Condition
☒ Future Condition

Jurisdiction

- ☒ City of Hollister
☐ San Benito County

Project Benefit

Existing Customers 0%
New Development 100%

Project Components

- ☒ Upgrade Gravity Pipeline
☐ New Gravity Pipeline
☐ Upgrade Lift Station
☐ Upgrade Force Main
☐ Rehabilitation/Repair
☐ Inspection and/or analysis
☐ Replace Manhole

Project Scheduling

Est. Construction Duration: 6 weeks



Project Need

- ☐ Insufficient capacity for existing flow
☒ Insufficient capacity for future flow
☐ Existing condition limits O&M
☐ Consolidate parallel sewer mains

Project Cost Breakdown

	Construction Cost ¹	\$357,000
Planning, Engineering, CM, Legal/Admin (40%)		\$142,800
Total Project Cost		\$499,800

Project Description

The Hillcrest Road Long Term project proposes to replace approximately 1,400 feet of 8-inch pipe with 10-inch pipe on Hillcrest Road from Memorial Drive to Busby Court. These pipe segments run 50% to 70% full during future peak flow conditions. This upgrade increases collection system capacity to serve future flow conditions within the project area.

1. Construction costs are expressed in Year 2010 dollars, using an ENR construction Cost Index of 8671, and will need to be escalated to the year or years scheduled for the work.

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Long Term Project No. 2: Hillcrest Road Sewer Pipe Upgrade



Long Term Project No. 3: Fallon Road Sewer Pipe Upgrade

City of Hollister Capital Improvement Project Information Sheet
2010 Sanitary Sewer Collection System Master Plan

Project Trigger

- ☐ Existing Condition
☒ Future Condition

Jurisdiction

- ☒ City of Hollister
☐ San Benito County

Project Benefit

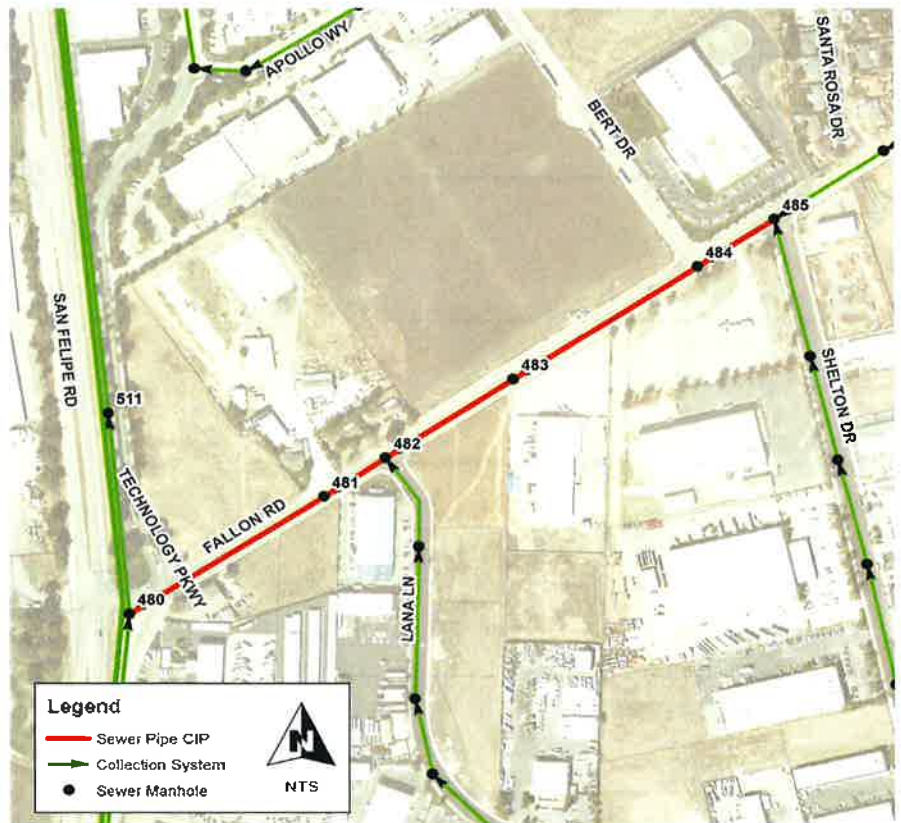
Existing Customers 0%
New Development 100%

Project Components

- ☒ Upgrade Gravity Pipeline
☐ New Gravity Pipeline
☐ Upgrade Lift Station
☐ Upgrade Force Main
☐ Rehabilitation/Repair
☐ Inspection and/or analysis
☐ Replace Manhole

Project Scheduling

Est. Construction Duration: 8 weeks



Project Need

- ☐ Insufficient capacity for existing flow
☒ Insufficient capacity for future flow
☐ Existing condition limits O&M
☐ Consolidate parallel sewer mains

Project Cost Breakdown

Construction Cost ¹	\$583,000
Planning, Engineering, CM, Legal/Admin (40%)	\$233,200
Total Project Cost	\$816,200

Project Description

The Fallon Road Long Term project proposes to replace approximately 2,200 feet of 10-inch pipe with 12-inch pipe on Fallon Road from Technology Drive to Shelton Drive. These pipe segments run 50% to 70% full during future peak flow conditions. This upgrade increases collection system capacity to serve future flow conditions within the project area.

1. Construction costs are expressed in Year 2010 dollars, using an ENR construction Cost Index of 8671, and will need to be escalated to the year or years scheduled for the work.

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Long Term Project No. 4: Kirk Patrick to GLP Sewer Pipe Upgrade

City of Hollister Capital Improvement Project Information Sheet
2010 Sanitary Sewer Collection System Master Plan

Project Trigger

- ☐ Existing Condition
☒ Future Condition

Jurisdiction

- ☒ City of Hollister
☐ San Benito County

Project Benefit

Existing Customers 0%
New Development 100%

Project Components

- ☒ Upgrade Gravity Pipeline
☐ New Gravity Pipeline
☐ Upgrade Lift Station
☐ Upgrade Force Main
☐ Rehabilitation/Repair
☐ Inspection and/or analysis
☐ Replace Manhole

Project Scheduling

Est. Construction Duration: 20 weeks



Project Need

- ☐ Insufficient capacity for existing flow
☒ Insufficient capacity for future flow
☐ Existing condition limits O&M
☐ Consolidate parallel sewer mains

Project Cost Breakdown

Construction Cost ¹	\$881,500
Planning, Engineering, CM, Legal/Admin (40%)	\$352,600
Total Project Cost	\$1,234,100

Project Description

The Kirk Patrick to GLP Lift Station Long Term project proposes to replace approximately 4,300 feet of 10-inch pipe with 12-inch pipe along Kirk Patrick from Chappell Road to GLP Lift Station. These pipe segments run 50% to 80% full during future peak flow conditions. This upgrade increases collection system capacity to serve future flow conditions within the project area.

1. Construction costs are expressed in Year 2010 dollars, using an ENR construction Cost Index of 8671, and will need to be escalated to the year or years scheduled for the work.

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Long Term Project No. 5: Line Street Sewer Pipe Upgrade

City of Hollister Capital Improvement Project Information Sheet

2010 Sanitary Sewer Collection System Master Plan

Project Trigger

- ☐ Existing Condition
☒ Future Condition

Jurisdiction

- ☒ City of Hollister
☐ San Benito County

Project Benefit

Existing Customers 0%
 New Development 100%

Project Components

- ☒ Upgrade Gravity Pipeline
☐ New Gravity Pipeline
☐ Upgrade Lift Station
☐ Upgrade Force Main
☐ Rehabilitation/Repair
☐ Inspection and/or analysis
☐ Replace Manhole

Project Scheduling

Est. Construction Duration: 12 weeks



Project Need

- ☐ Insufficient capacity for existing flow
☒ Insufficient capacity for future flow
☐ Existing condition limits O&M
☐ Consolidate parallel sewer mains

Project Cost Breakdown

Construction Cost ¹	\$1,105,000
Planning, Engineering, CM, Legal/Admin (40%)	\$442,000
Total Project Cost	\$1,547,000

Project Description

The Line Street Long Term project proposes to replace approximately 3,400 feet of 15-inch pipe with 18-inch pipe on Nash Road from West Street to Homestead Avenue and Line Street from Peridot Court to 5th Street. These pipe segments run 50% to 80% full during future peak flow conditions. This upgrade increases collection system capacity to serve future flow conditions within the project area. It is recommended that Near Term Project No. 1: Line Street Sewer Pipe Upgrade be completed prior to the completion of this long term project.

1. Construction costs are expressed in Year 2010 dollars, using an ENR construction Cost Index of 8671, and will need to be escalated to the year or years scheduled for the work.

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Long Term Project No. 6: Miller Road Sewer Pipe Upgrade

City of Hollister Capital Improvement Project Information Sheet
2010 Sanitary Sewer Collection System Master Plan

Project Trigger

- ☐ Existing Condition
☒ Future Condition

Jurisdiction

- ☒ City of Hollister
☐ San Benito County

Project Benefit

Existing Customers 0%
New Development 100%

Project Components

- ☒ Upgrade Gravity Pipeline
☐ New Gravity Pipeline
☐ Upgrade Lift Station
☐ Upgrade Force Main
☐ Rehabilitation/Repair
☐ Inspection and/or analysis
☐ Replace Manhole

Project Scheduling

Est. Construction Duration: 2 weeks



Project Need

- ☐ Insufficient capacity for existing flow
☒ Insufficient capacity for future flow
☐ Existing condition limits O&M
☐ Consolidate parallel sewer mains

Project Cost Breakdown

Construction Cost ¹	\$61,500
Planning, Engineering, CM, Legal/Admin (40%)	\$24,600
Total Project Cost	\$86,100

Project Description

The Miller Road Long Term project proposes to replace approximately 300 feet of 8-inch pipe with 12-inch pipe from San Juan Road north on Miller Road. This pipe segment runs 65% full during future peak flow conditions. This upgrade increases collection system capacity to serve future flow conditions within the project area.

1. Construction costs are expressed in Year 2010 dollars, using an ENR construction Cost Index of 8671, and will need to be escalated to the year or years scheduled for the work.

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Long Term Project No. 7: San Juan Road Sewer Pipe Upgrade

City of Hollister Capital Improvement Project Information Sheet

2010 Sanitary Sewer Collection System Master Plan

Project Trigger

- ☐ Existing Condition
☒ Future Condition

Jurisdiction

- ☒ City of Hollister
☐ San Benito County

Project Benefit

Existing Customers 0%
 New Development 100%

Project Components

- ☒ Upgrade Gravity Pipeline
☐ New Gravity Pipeline
☐ Upgrade Lift Station
☐ Upgrade Force Main
☐ Rehabilitation/Repair
☐ Inspection and/or analysis
☐ Replace Manhole

Project Scheduling

Est. Construction Duration: 1 weeks



Project Need

- ☐ Insufficient capacity for existing flow
☒ Insufficient capacity for future flow
☐ Existing condition limits O&M
☐ Consolidate parallel sewer mains

Project Cost Breakdown

Construction Cost ¹	\$12,000
Planning, Engineering, CM, Legal/Admin (40%)	\$4,800
Total Project Cost	\$16,800

Project Description

The San Juan Road Long Term project proposes to replace approximately 30 feet of 27-inch pipe with 36-inch pipe on San Juan Road at Westside Boulevard. This is a short pipe segment that receives upstream flow from existing 27-inch and 36-inch pipes. This pipe segment runs at 85% full once all existing and future upstream improvements are in place.

1. Construction costs are expressed in Year 2010 dollars, using an ENR construction Cost Index of 8671, and will need to be escalated to the year or years scheduled for the work.

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Long Term Project No. 8: Technology Parkway Sewer Pipe Upgrade

City of Hollister Capital Improvement Project Information Sheet

2010 Sanitary Sewer Collection System Master Plan

Project Trigger

- ☐ Existing Condition
- ☒ Future Condition

Jurisdiction

- ☒ City of Hollister
- ☐ San Benito County

Project Benefit

Existing Customers	0%
New Development	100%

Project Components

- ☒ Upgrade Gravity Pipeline
- ☐ New Gravity Pipeline
- ☐ Upgrade Lift Station
- ☐ Upgrade Force Main
- ☐ Rehabilitation/Repair
- ☐ Inspection and/or analysis
- ☐ Replace Manhole

Project Scheduling

Est. Construction Duration: 3 weeks



Project Need

- ☐ Insufficient capacity for existing flow
- ☒ Insufficient capacity for future flow
- ☐ Existing condition limits O&M
- ☐ Consolidate parallel sewer mains

Project Cost Breakdown

Construction Cost ¹	\$143,500
Planning, Engineering, CM, Legal/Admin (40%)	\$57,400
Total Project Cost	\$200,900

Project Description

The Technology Parkway Long Term project proposes to replace approximately 700 feet of 10-inch pipe with 12-inch pipe at Technology Road. These pipe segments run 50% to 80% full during future peak flow conditions. This upgrade increases collection system capacity to serve future flow conditions within the project area.

1. Construction costs are expressed in Year 2010 dollars, using an ENR construction Cost Index of 8671, and will need to be escalated to the year or years scheduled for the work.

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Long Term Project No.9: Airport Lift Station Upgrade

City of Hollister Capital Improvement Project Information Sheet

2010 Sanitary Sewer Collection System Master Plan

Project Trigger

- ☐ Existing Condition
☒ Future Condition

Jurisdiction

- ☒ City of Hollister
☐ San Benito County

Project Benefit

Existing Customers 0%
New Development 100%

Project Components

- ☐ Upgrade Gravity Pipeline
☐ New Gravity Pipeline
☒ Upgrade Lift Station
☐ Upgrade Force Main
☐ Rehabilitation/Repair
☐ Inspection and/or analysis
☐ Replace Manhole

Project Scheduling

Est. Construction Duration: 20 weeks



Project Need

- ☐ Insufficient capacity for existing flow
☒ Insufficient capacity for future flow
☐ Existing condition limits O&M
☐ Consolidate parallel sewer mains

Project Cost Breakdown

Construction Cost ¹	\$540,000
Planning, Engineering, CM, Legal/Admin (40%)	\$216,000
Total Project Cost	\$756,000

Project Description

The Airport Lift Station Long Term project proposes to replace the existing lift station with a new wet well and three new VFD operated submersible pumps capable of providing service for future flows. It is proposed to convert the existing wet well to emergency storage to help prevent sewer overflows. The installation of VFDs will minimize impact to the GLP Lift Station and downstream collection system due to potential increased flow from the Airport Lift Station.

1. Construction costs are expressed in Year 2010 dollars, using an ENR construction Cost Index of 8671, and will need to be escalated to the year or years scheduled for the work.

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Long Term Project No. 10: GLP Lift Station Upgrade

City of Hollister Capital Improvement Project Information Sheet
2010 Sanitary Sewer Collection System Master Plan

Project Trigger

- ☐ Existing Condition
- ☒ Future Condition

Jurisdiction

- ☒ City of Hollister
- ☐ San Benito County

Project Benefit

Existing Customers	0%
New Development	100%

Project Components

- ☐ Upgrade Gravity Pipeline
- ☐ New Gravity Pipeline
- ☒ Upgrade Lift Station
- ☐ Upgrade Force Main
- ☐ Rehabilitation/Repair
- ☐ Inspection and/or analysis
- ☐ Replace Manhole

Project Scheduling

Est. Construction Duration: 24 weeks



Project Need

- ☐ Insufficient capacity for existing flow
- ☒ Insufficient capacity for future flow
- ☐ Existing condition limits O&M
- ☐ Consolidate parallel sewer mains

Project Cost Breakdown

Construction Cost ¹	\$600,000
Planning, Engineering, CM, Legal/Admin (40%)	\$240,000
Total Project Cost	\$840,000

Project Description

The GLP Lift Station Long Term project proposes to upgrade the existing lift station with three new VFD operated submersible pumps capable of providing service for future flows. The installation of VFDs will minimize impact to the downstream collection system due to potential increased future flows.

1. Construction costs are expressed in Year 2010 dollars, using an ENR construction Cost Index of 8671, and will need to be escalated to the year or years scheduled for the work.

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Long Term Project No. 11: 2nd and East Lift Station Upgrade

City of Hollister Capital Improvement Project Information Sheet

2010 Sanitary Sewer Collection System Master Plan

Project Trigger

- ☐ Existing Condition
- ☒ Future Condition

Jurisdiction

- ☒ City of Hollister
- ☐ San Benito County

Project Benefit

Existing Customers	0%
New Development	100%

Project Components

- ☐ Upgrade Gravity Pipeline
- ☐ New Gravity Pipeline
- ☐ Upgrade Lift Station
- ☐ Upgrade Force Main
- ☐ Rehabilitation/Repair
- ☒ Inspection and/or analysis
- ☐ Replace Manhole

Project Scheduling

Est. Construction Duration: 2 weeks



Project Need

- ☐ Insufficient capacity for existing flow
- ☐ Insufficient capacity for future flow
- ☐ Existing condition limits O&M
- ☒ Monitor capacity and performance

Project Cost Breakdown

Construction Cost ¹	\$6,500
Planning, Engineering, CM, Legal/Admin (40%)	\$2,600
Total Project Cost	\$9,100

Project Description

The 2nd and East Lift Station Long Term project proposes to perform a pump test and physical evaluation of the lift station to monitor performance and capacity as future services contribute to this lift station. Project cost does not include any required upgrades or rehabilitation.

1. Construction costs are expressed in Year 2010 dollars, using an ENR construction Cost Index of 8671, and will need to be escalated to the year or years scheduled for the work.

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Long Term Project No. 12: Cushman Street Sewer Pipe Upgrade

City of Hollister Capital Improvement Project Information Sheet
2010 Sanitary Sewer Collection System Master Plan

Project Trigger

- ☐ Existing Condition
☒ Future Condition

Jurisdiction

- ☒ City of Hollister
☐ San Benito County

Project Benefit

Existing Customers	0%
New Development	100%

Project Components

- ☒ Upgrade Gravity Pipeline
☐ New Gravity Pipeline
☐ Upgrade Lift Station
☐ Upgrade Force Main
☐ Rehabilitation/Repair
☐ Inspection and/or analysis
☐ Replace Manhole

Project Scheduling

Est. Construction Duration: 3 weeks



Project Need

- ☐ Insufficient capacity for existing flow
☒ Insufficient capacity for future flow
☐ Existing condition limits O&M
☐ Consolidate parallel sewer mains

Project Cost Breakdown

Construction Cost ¹	\$141,000
Planning, Engineering, CM, Legal/Admin (40%)	\$56,400
Total Project Cost	\$197,400

Project Description

The Cushman Street Long Term project proposes to replace approximately 600 feet of 15-inch pipe with 18-inch pipe from Velado Street to Andrews Drive. With all existing and future improvement in place throughout the City, these pipe segments run 80% to 90% full during future peak flow conditions with the additional flow contributions from Ridgemark and Cielo Vista Estates. It is recommended that all downstream improvements are in place prior to the completion of this project. This upgrade increases collection system capacity to serve future flow conditions from Ridgemark and Cielo Vista Estates.

1. Construction costs are expressed in Year 2010 dollars, using an ENR construction Cost Index of 8671, and will need to be escalated to the year or years scheduled for the work.

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San Luis Obispo, CA