

CITY OF MADERA

CAPITAL IMPROVEMENT PLAN

FISCAL YEARS 2015/16 TO 2019/2020

The 5 year Capital Improvement Plan (the CIP) is a plan for major public facility improvements that are programmed to be implemented over the next five years. The projects included in the Project Details Report, attached hereto, are consistent with both City Council's direction and the Vision 2025 Plan.

The CIP is prepared by the Engineering Department and includes the funding and expense for projects provided from the City Departments of Community Development, Public Works, Parks & Community Services, and Grants. The Project Details Report summarizes the capital projects into programs or categories that include the following:

PUBLIC WORKS - AIRPORT: The projects in this program are for the reconstruction and rehabilitation of existing infrastructure and facilities and for the construction of new facilities. The primary funding sources for these projects is FAA Grants, California Aeronautical Grants and Airport Fund Balance.

PUBLIC WORKS – DRAINAGE SYSTEM: The projects in this program are for the construction and rehabilitation of storm drain pipelines and drainage basins. The primary funding sources for these projects is Development Impact Fees.

PUBLIC WORKS – SEWER SYSTEM: The projects in this program are for replacement of existing sewer main pipeline, installing larger pipelines to meet increased flow capacity and for manhole improvements. The primary funding source for these projects is the Sewer Utility Fund and Development Impact Fees.

PUBLIC WORKS – WATER SYSTEM: The projects in this program are for replacement of water main pipelines, installation of residential and commercial water meters, and the installation of water wells. The primary funding source for these projects is the Water Utility Fund and Development Impact Fees.

GRANTS – TRANSIT SYSTEM: The projects in this program are infrastructure improvements and passenger enhancements for the Fixed Route Transit System and the Intermodal Operation and for the new Transit Maintenance-Administration Facility. The primary funding sources for these projects is Prop 1B – PTMISEA, Prop 1B – CalOES, Measure T and Development Impact Fees.

ENGINEERING – BRIDGES: The projects in this program are for rehabilitation and improvements to existing bridges. The primary funding sources for these projects is State & Federal Grants, Measure T, and Bridge Preventative Maintenance Program (BPMP).

ENGINEERING – STREETS: The projects in this program are for reconstruction, widening and pavement overlays of Collector and Arterial Streets, installing sidewalks and curb returns for ADA walkability and installing bike lanes and safety improvements. The primary funding sources for these projects is Measure A, Measure T, Local Transportation Fund (LTF), Regional Surface Transportation Program (RSTP), Congestion Mitigation & Air Quality (CMAQ), Bicycle Transportation Account (BTA), Highway Safety Improvement Program (HSIP) and Development Impact Fees.

ENGINEERING – TRAFFIC SIGNALS: The projects in this program are for the installation of new traffic signals and improvements to existing traffic signals. The primary funding sources for these projects is CMAQ, LTF, HSIP, Section 130 and Development Impact Fees.

PARKS AND COMMUNITY SERVICES – The projects in this program are for constructing bike/pedestrian paths, the Fresno River trail, park improvements and rehabilitation. The primary funding sources for these projects is Measure T, CMAQ, LTF, BTA, CDBG, San Joaquin Valley Air Pollution Control District (SVAPCD), grants and donations.

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PROJECT DETAILS

Airport

Apron Reconstruction Phase II	Project Number:	AIP 30
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Project Cost: \$1,261,000

Category: Airport

Phase:

Description: Reconstruction of deteriorated pavement.

Justification: Reconstruction of deteriorated pavement per pavement management program.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Construction	1,041,000					1,041,000
Environmental	20,000					20,000
Construction Management/Inspection	100,000					100,000
Contingency	100,000					100,000
Total	1,261,000					1,261,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Airport Fund Balance: 20500-355	126,100					126,100
FAA Grant: 20500-355	1,134,900					1,134,900
Total	1,261,000					1,261,000

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PROJECT DETAILS

Airport

Engineering Design - Apron, Drainage **Project Number: AIP 31**

Project Cost: \$175,000

Category: Airport **Phase:**

Description: Engineering Design for Phase II Reconstruct General Aviation Apron and Apron and taxiway drainage.

Justification: Pavement is deteriorated and must be reconstructed as specified in new pavement management program. Drainage between the apron and taxiway is insufficient and needs to be upgraded.

Prior	Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
100,000	Design/Engineering	75,000					75,000
Total	Total	75,000					75,000

Prior	Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
100,000	Airport Fund Balance: 20500-355	75,000					75,000
Total	Total	75,000					75,000

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PROJECT DETAILS

Airport

Extend & Rehab Runway 12-30, Extend Taxiway P	Project Number:	AIP 35
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Project Cost: \$620,000

Category: Airport

Phase:

Description: Rehabilitate existing Runway 12-30 pavement, extend the runway and taxiway P.

Justification: Pavement is deteriorated and must be reconstructed as specified in new pavement management program. Extending the runway will allow the Airport to support larger aircraft and allow the airport to grow.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering					620,000	620,000
Total					620,000	620,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Airport Fund Balance: 20500-355					46,500	46,500
Caltrans Aeronautic Grant: 20500-355					15,500	15,500
FAA Grant: 20500-355					558,000	558,000
Total					620,000	620,000

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PROJECT DETAILS

Airport

Extend Commercial Hangar Development - Phase III	Project Number:	AIP 34
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Project Cost: \$1,673,500

Category: Airport **Phase:**

Description: Construct pavement and infrastructure appurtances to support future commercial hangars (201,000 sq.ft.)

Justification: Construction of additional taxiway and apron to facilitate the development of additional commercial hangars to accommodate additional aircraft and Fixed Based Operators at the airport.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering			136,000			136,000
Construction				1,291,500		1,291,500
Construction Management/Inspection				246,000		246,000
Total			136,000	1,537,500		1,673,500

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Airport Fund Balance: 20500-355			10,200	115,312		125,512
Caltrans Aeronautic Grant: 20500-355			3,400	38,438		41,838
FAA Grant: 20500-355			122,400	1,383,750		1,506,150
Total			136,000	1,537,500		1,673,500

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PROJECT DETAILS

Airport

Reconstruct Apron Ph. II, Apron & Taxiway Drainage	Project Number:	AIP 32
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Project Cost: \$1,066,667

Category: Airport

Phase:

Description: Construct pavement and infrastructure appurtances to support new tee hangars.

Justification: Pavement is deteriorated and must be reconstructed as specified in new pavement management program. Drainage between the apron and taxiway is insufficient and needs to be upgraded.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Construction	896,000					896,000
Construction Management/Inspection	170,667					170,667
Total	1,066,667					1,066,667

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Airport Fund Balance: 20500-355	80,000					80,000
Caltrans Aeronautic Grant: 20500-355	26,667					26,667
FAA Grant: 20500-355	960,000					960,000
Total	1,066,667					1,066,667

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PROJECT DETAILS

Airport

Runway, Taxiway & Apron Crack Seal	Project Number:	AIP 33
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Project Cost: \$657,000

Category: Airport

Phase:

Description: Sealing of numerous cracks on the apron, taxiways and runway.

Justification: The asphaltic concrete (AC) pavements on the runway, taxiways and aprons are old and have significant transverse and longitudinal cracks, some alligator cracking and some block and map cracking.

<u>Expenditures</u>	<u>'15/'16</u>	<u>'16/'17</u>	<u>'17/'18</u>	<u>'18/'19</u>	<u>'19/'20</u>	<u>Total</u>
Construction	552,000					552,000
Construction	105,000					105,000
Management/Inspection						
Total	657,000					657,000

<u>Funding Sources</u>	<u>'15/'16</u>	<u>'16/'17</u>	<u>'17/'18</u>	<u>'18/'19</u>	<u>'19/'20</u>	<u>Total</u>
Airport Fund Balance: 20500-355	49,275					49,275
Caltrans Aeronautic Grant: 20500-355	16,425					16,425
FAA Grant: 20500-355	591,300					591,300
Total	657,000					657,000

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PROJECT DETAILS

Airport

Tee Hangar Design Phase I **Project Number: AIP 25**

Project Cost: \$75,000
Category: Airport **Phase:** DESIGN

Description: Design of Phase I Tee Hangar Development
Justification: Pavement is deteriorated and must be reconstructed as specified in new pavement management program.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering	73,000					73,000
Environmental	2,000					2,000
Total	75,000					75,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Airport Fund Balance: 20500-355	7,500					7,500
FAA Grant: 20500-355	67,500					67,500
Total	75,000					75,000

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PROJECT DETAILS

Airport

Tee Hangar Taxiway & Apron Construction Phase I **Project Number: AIP 28**

Project Cost: \$791,000
Category: Airport **Phase:** DESIGN

Description: Construct pavement and infrastructure appurtances to support new Tee hangars.

Justification: Construction of additional taxiway and apron to facilitate the development of additional Tee hangars to accommodate additional aircraft at the airport.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Construction	0					0
Environmental		110,000				110,000
Construction Management/Inspection		572,000				572,000
Contingency		109,000				109,000
Total	0	791,000				791,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Airport Fund Balance: 20500-355		59,325				59,325
Caltrans Aeronautic Grant: 20500-355		19,775				19,775
FAA Grant: 20500-355		711,900				711,900
Total		791,000				791,000

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PROJECT DETAILS

Airport

Tee Hangar Taxiway & Apron Construction Phase II **Project Number: AIP 29**

Project Cost: \$585,000

Category: Airport

Phase:

Description: Construct pavement and infrastructure appurtances to support new Tee hangars.

Justification: Construction of additional taxiway and apron to facilitate the development of additional Tee hangars to accommodate additional aircraft at the airport.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering		65,000				65,000
Construction			437,000			437,000
Construction Management/Inspection			83,000			83,000
Total		65,000	520,000			585,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Airport Fund Balance: 20500-355		45,500				45,500
Caltrans Aeronautic Grant: 20500-355			13,000			13,000
FAA Grant: 20500-355		58,500	468,000			526,500
Total		104,000	481,000			585,000

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PROJECT DETAILS

Community Development

City Hall Relocation & Expansion	Project Number:	Misc-1
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Project Cost: \$19,863,000

Category: Buildings

Phase:

Description: Relocation and expansion of City Hall to accommodate medium-to long term projected growth.

5.4 Acres of Land for Buildings and Parking
53,000 Square Feet of Building Area
Fixtures, Furniture & Equipment

The relocation and expansion of City Hall will occur in conjunction with community growth as demands for service exceed the capacity of existing facilities.

Justification: Additional City Hall space is required to accommodate medium to long-term projected growth.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Other					863,000	863,000
Land Acquisition/Right of Way					1,000,000	1,000,000
Construction					17,000,000	17,000,000
Construction Management/Inspection					1,000,000	1,000,000
Total					19,863,000	19,863,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
DIF:45259 General Government Impact Fee					863,000	863,000
UNDETERMINED					19,000,000	19,000,000
Total					19,863,000	19,863,000

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PROJECT DETAILS

Community Development

Fire Station - Northwest	Project Number:	Misc-2
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Project Cost: \$3,425,000

Category: Buildings

Phase:

Description: Construction of a Fire Station in the northwest quadrant of the City to accommodate new growth.

1 Acre of Land
5,000 Square Foot Building
Apararatus, Vehicles & Equipment

The construction of a new fire station in the northwest quadrant of the City will occur when sufficient funds are available.

Justification: The addition of new Fire Station is required to accommodate new growth.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Other				1,800,000		1,800,000
Land Acquisition/Right of Way				125,000		125,000
Construction				1,500,000		1,500,000
Total				3,425,000		3,425,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
DIF:45216 Fire Department Impact Fee				3,425,000		3,425,000
Total				3,425,000		3,425,000

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PROJECT DETAILS

Community Development

Fire Station 7 - Parking Lot Paving **Project Number:** Misc-3

Project Cost: \$67,000
Category: Street Reconstruction **Phase:**

Description: Repave parking lot of Fire Station No. 7 on Schoor Avenue

Justification:

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Construction		64,080				64,080
Construction Management/Inspection		2,920				2,920
Total		67,000				67,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
DIF:45216 Fire Department Impact Fee		67,000				67,000
Total		67,000				67,000

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PROJECT DETAILS

Engineering

Gateway Bridge Repair **Project Number:** B-3

Project Cost: \$12,000
Category: Street Reconstruction **Phase:**

Description: Determine deficiency and determine corrective action.

Justification: This bridge is listed on Caltran's Inspection & Action report.

Prior	Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
2,000	Design/Engineering	10,000					10,000
Total	Total	10,000					10,000

Prior	Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
2,000	BPMP: 41700-473	8,000					8,000
	LTF - Streets: 42000-333	2,000					2,000
Total	Total	10,000					10,000

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PROJECT DETAILS

Engineering

Westberry Bridge Construction	Project Number:	B-2
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Project Cost: \$6,000,000

Category: Bridges

Phase: FUTURE

Description: Construct Westberry Bridge over the Fresno River

Justification: Efficient circulation and maintenance of acceptable levels of service at various local intersections dictate the need for this bridge with the next 5 to 10 years

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total	Future
Planning/Design			500,000	500,000		1,000,000	5,000,000
Total			500,000	500,000		1,000,000	Total

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total	Future
DIF:45260 Transportation Impact Fee			500,000	500,000		1,000,000	5,000,000
Total			500,000	500,000		1,000,000	Total

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PROJECT DETAILS

Engineering

Sharon Blvd. Plan, Ellis Street to Avenue 17 **Project Number: CDD-1D-ST**

Project Cost: \$186,978
Category: Street Reconstruction **Phase:** DESIGN

Description: Sharon Boulevard Infrastructure Project-Street Component - Sharon Boulevard Alignment, South of Avenue 17, East of SR99. Establish Master Planned and Development-Serving Infrastructure Configurations and Right of Way requirements for facilities including Streets, Water, Wastewater Disposal, Street, and Storm Drainage. The street component will establish the plan line.

Justification: Completion of plan line allows for more efficient construction of necessary road and utility facilities.

Prior	Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
141,978	Construction	45,000					45,000
	Management/Inspection						
Total	Total	45,000					45,000

Prior	Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
141,978	DIF:45263 Arterial/Collector	45,000					45,000
	St. Impact Fee						
Total	Total	45,000					45,000

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PROJECT DETAILS

Engineering

Master Utility Plan Update **Project Number:** MP Update

Project Cost: \$1,166,000
Category: Administrative **Phase:** DESIGN

Description: Sanitary Sewer, Water and Storm Drain Master Plan Updates
Justification: Master utility plans should typically be updated every 5 years at a minimum to account for changes in assumed development patterns from previous updates.

Prior	Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
1,033,000	Planning/Design	133,000					133,000
Total	Total	133,000					133,000

Prior	Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
1,033,000	Master Plan Reserve: 1990-3047	133,000					133,000
Total	Total	133,000					133,000

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PROJECT DETAILS

Engineering

ADA Walkability Sidewalks **Project Number: R-52**

Project Cost: \$706,000
Category: Street Reconstruction **Phase:** DESIGN

Description: Project adds missing wheel chair ramps City-wide and miscellaneous pedestrian facilities.

Justification: Construction of ADA facilities enhances mobility and access within City and shows good faith effort toward that goal.

Prior	Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
68,000	Design/Engineering	15,000	6,000	6,000	6,000	6,000	39,000
Total	Construction	215,000	47,000	85,000	90,000	117,000	554,000
	Construction Management/Inspection	25,000	5,000	5,000	5,000	5,000	45,000
	Total	255,000	58,000	96,000	101,000	128,000	638,000

Prior	Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
68,000	LTF - Streets: 42000-333	110,000	40,000	40,000	40,000	40,000	270,000
Total	Measure T - Environmental Enhancement: 41500-447	75,000	0	26,000	55,000	70,000	226,000
	Measure T - LTP ADA: 41500-447	70,000	18,000	18,000	18,000	18,000	142,000
	Total	255,000	58,000	84,000	113,000	128,000	638,000

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PROJECT DETAILS

Engineering

Cleveland Ave. Improvements - Schnoor Ave. to SR99 **Project Number: R-54**

Project Cost: \$1,100,000

Category: Street Reconstruction **Phase:**

Description: Reconstruct and widen from 4 lanes to 6 lanes.



Justification: Requires 6 travel lanes to reduce traffic congestion. This project is included as a Tier 1 improvement in the Measure T program.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering	70,000					70,000
Construction				800,000		800,000
Right of Way Costs		100,000				100,000
Environmental	30,000					30,000
Construction Management/Inspection				100,000		100,000
Total	100,000	100,000		900,000		1,100,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Measure T - RTP/3R: 41500-447	100,000		250,000	750,000		1,100,000
Total	100,000		250,000	750,000		1,100,000

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PROJECT DETAILS

Engineering

Concrete Projects - Share Program **Project Number:** R-41

Project Cost: \$126,000
Category: Street Reconstruction **Phase:** CONSTRUCTION

Description: Construct ADA curb returns and sidewalks Citywide. 50/50 City/property owner shared cost as requested by the property owner.

Justification: Improve pedestrian and wheelchair accessibility

Prior	Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
10,000	Construction	26,000	20,000	20,000	20,000	30,000	116,000
Total	Total	26,000	20,000	20,000	20,000	30,000	116,000

Prior	Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
10,000	LTF - Streets: 42000-333	76,000	10,000	10,000	10,000	10,000	116,000
Total	Total	76,000	10,000	10,000	10,000	10,000	116,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Contingency / Project Administration **Project Number:** R-31

Project Cost: \$1,245,000

Category: Staff Costs

Phase:

Description: Miscellaneous Capital Improvement Projects

Justification:

Prior	Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
595,000	Design/Engineering	20,000	20,000				40,000
Total	Construction	100,000	100,000	100,000	100,000	100,000	500,000
	Construction	10,000	10,000	30,000	30,000	30,000	110,000
	Management/Inspection						
	Total	130,000	130,000	130,000	130,000	130,000	650,000

Prior	Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
595,000	LTF - Streets: 42000-333	130,000	130,000	130,000	130,000	130,000	650,000
Total	Total	130,000	130,000	130,000	130,000	130,000	650,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Fourth St. Median Landscaping	Project Number:	R-56
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Project Cost: \$153,000
Category: Street Reconstruction **Phase:** CONSTRUCTION

Description: Install landscaping and irrigation facilities in the median and on owner's property as permitted along 4th Street from Sunset Avenue to Lake Street

Justification: To complete the installation of median landscaping for the two 4th Street improvement projects.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Median Landscape Construction	153,000					153,000
Total	153,000					153,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
RSTP Federal Exchange: 41300-332	153,000					153,000
Total	153,000					153,000

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PROJECT DETAILS

Engineering

Fourth St. Reconstruction - Pine to K Landscaping **Project Number: R-25 EX**

Project Cost: \$127,000
Category: Street 3R **Phase:** CONSTRUCTION

Description: Tree planting for Park Street areas as part of project R-25, Fourth St. Reconstruction - Pine to K.



Justification: Was not included in the initial project.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Construction	127,000					127,000
Total	127,000					127,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Measure T - RTP/3R: 41500-447	127,000					127,000
Total	127,000					127,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Fourth/Lake/Central Intersection **Project Number: R-57**

Project Cost: \$450,000

Category: Unassigned

Phase:

Description: Evaluate intersection for either Traffic signal or round-about. Install selected method of traffic control.

Justification: Relieve traffic congestion and reduce delay

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Land Acquisition	0	30,000				30,000
Design/Engineering	45,000					45,000
Construction		335,000				335,000
Environmental	10,000					10,000
Construction Management/Inspection		30,000				30,000
Total	55,000	395,000				450,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
CMAQ - Streets: 41700-306	67,000	233,000				300,000
LTF - Streets: 42000-333	31,000	119,000				150,000
Total	98,000	352,000				450,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Gateway/Central/3rd/E St. Sidewalks **Project Number: R-38**

Project Cost: \$312,000
Category: Street Reconstruction **Phase:** DESIGN

Description: Sidewalks on Central Avenue, Gateway to Lake Street: E Street, Central Avenue to 3rd Street: 3rd Street, E Street to Central Avenue.

Justification: Sidewalks don't exist in many locations along this residential neighborhood that are needed for access to the Rotary Park.

Prior	Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
7,000	Design/Engineering	20,000					20,000
	Land Acquisition/Right of Way	31,000					31,000
Total	Construction	225,000					225,000
	Utility Relocation	5,000					5,000
	Construction Management/Inspection	24,000					24,000
	Total	305,000					305,000

Prior	Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
7,000	CMAQ - Streets: 41700-306	270,000					270,000
Total	LTF - Streets: 42000-333	35,000					35,000
	Total	305,000					305,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Lake St. Widening - Fourth St. to Cleveland **Project Number: R-46**

Project Cost: \$3,668,000
Category: Street Reconstruction **Phase:** DESIGN



Description: Widen Lake Street to 4 lanes with median for Arterial Street Standards.

Justification: Providing 4 travel lanes will be needed to handle traffic volume. Complies with City approved traffic circulation element.

Prior	Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
78,000	Design/Engineering	250,000					250,000
Total	Land Acquisition/Right of Way	390,000					390,000
	Construction	50,000	2,629,000				2,679,000
	Environmental	20,000					20,000
	Construction Management/Inspection	10,000	241,000				251,000
	Total	720,000	2,870,000				3,590,000

Prior	Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
78,000	LTF - Streets: 42000-333	600,000	300,000				900,000
Total	Measure T - RTP/3R: 41500-447	1,180,000	360,000				1,540,000
	RSTP Federal Exchange: 41300-332	1,150,000					1,150,000
	Total	2,930,000	660,000				3,590,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Olive Ave. Concept Plan **Project Number: R-49**

Project Cost: \$24,000
Category: Unassigned **Phase:** DESIGN

Description: Prepare concept plan for street alignment and right-of-way on Olive Avenue between Tozer and 1,300' east of Tozer..

Justification:

Prior	Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
12,000	Design/Engineering	12,000					12,000
Total	Total	12,000					12,000

Prior	Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
12,000	DIF:45263 Arterial/Collector St. Impact Fee	12,000					12,000
Total	Total	12,000					12,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Olive Ave. Widening - Gateway to e/o Roosevelt **Project Number: R-10**

Project Cost: \$5,857,000
Category: Street Reconstruction **Phase:** DESIGN

Description: Widen street to 4 lanes for Arterial Street Standards, acquire right-of-way and construct sidewalks. Widen UPRR crossing at SW corner of Olive Avenue and Knox Street



Justification: Project reduces traffic delays at Gateway / Olive Intersection by providing 4 travel lanes. Complies with City approved traffic circulation element. Provide pedestrian access and safety by constructing a missing of a concrete sidewalk.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Land Acquisition	200,000					200,000
Design/Engineering	250,000	50,000				300,000
Construction			3,707,000			3,707,000
Utility Relocation	50,000	50,000				100,000
Environmental	50,000					50,000
Construction Management/Inspection		200,000	300,000			500,000
UPRR		1,000,000				1,000,000
Total	550,000	1,300,000	4,007,000			5,857,000
Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
DIF:45263 Arterial/Collector St. Impact Fee	500,000					500,000
LTF - Streets: 42000-333	337,000	250,000				587,000
Measure A City: 41500-347	607,000					607,000
Measure T - RTP/3R: 41500-447	2,393,000	300,000				2,693,000
RSTP Federal Exchange: 41300-332	170,000	650,000	650,000			1,470,000
Total	4,007,000	1,200,000	650,000			5,857,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Pedestrian Facilities/Schools & Commercial Areas **Project Number: R-62**

Project Cost: \$266,000

Category: Unassigned

Phase:



Description: Infill and provide sidewalk facilities and appurtenances. Areas to be determined to maximize pedestrian usage within funds available. To be implemented in phases.

Justification: Will encourage pedestrian travel & provide safety at areas without sidewalks and ADA ramps with high concentration of pedestrians.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering	18,000					18,000
Land Acquisition/Right of Way	20,000					20,000
Construction		206,000				206,000
Environmental	2,000					2,000
Construction Management/Inspection		20,000				20,000
Total	40,000	226,000				266,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
CMAQ - Streets: 41700-306	35,400	190,600				226,000
LTF - Streets: 42000-333	31,000					31,000
Measure T - Environmental Enhancement: 41500-447	5,000	4,000				9,000
Total	71,400	194,600				266,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Pine St. Reconstruction - Howard to Fourth St. **Project Number: R-50**

Project Cost: \$518,000
Category: Street Reconstruction **Phase:** DESIGN



Description: Reconstruction asphalt paving on Pine street from Howard to Fourth Street and widen road way. Install missing street lights.

Justification: Project identified in Public Works Pavement Management Plan as asphalt requiring replacement and improves traffic flow.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering	30,000					30,000
Land Acquisition/Right of Way	10,000					10,000
Construction	428,000					428,000
Environmental	5,000					5,000
Construction Management/Inspection	45,000					45,000
Total	518,000					518,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Measure A City: 41500-347	518,000					518,000
Total	518,000					518,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Pine-Pecan Street Improvements **Project Number: R-61**

Project Cost: \$4,875,000

Category: Street Reconstruction **Phase:**

Description: Street widening along the west side of Pine and along the north side of Pecan.



Justification: Off-site street improvements for the Transit-Public Works Facility.

Prior	Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
3,895,000	Construction	960,000					960,000
	Construction	20,000					20,000
Total	Management/Inspection						20,000
	Total	980,000					980,000

Prior	Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
3,895,000	DIF:45100 Storm Drain Existing Area Impact Fee	100,000					100,000
	DIF:45219 Public Works Impact Fee	150,000					150,000
Total	DIF:45262 Median Island Impact Fee	190,000					190,000
	LTF - Streets: 42000-333	540,000					540,000
	Total	980,000					980,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Riverwalk Drive Improvements **Project Number: R-63**

Project Cost: \$1,383,000

Category: Street Reconstruction **Phase:**

Description: Construct new roadway improvements on Riverwalk Drive between "A" Street and "C" Street.



Justification: Neighborhood Improvement

Prior	Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
23,000	Construction	1,300,000					1,300,000
	Construction	60,000					60,000
Total	Management/Inspection						
	Total	1,360,000					1,360,000

Prior	Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
23,000	RDA Funds	1,360,000					1,360,000
Total	Total	1,360,000					1,360,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Schnoor Ave. Sidewalks **Project Number: R-58**

Project Cost: \$150,000

Category: Street Construction

Phase:

Description: Construct paved shouders and curb and gutter.



Justification: Reduce PM-10 dust and provide public safety.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Land Acquisition		8,000				8,000
Design/Engineering		12,000				12,000
Construction			105,000			105,000
Environmental		2,000				2,000
Construction Management/Inspection			23,000			23,000
Total		22,000	128,000			150,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
CMAQ - Streets: 41700-306		19,000	113,000			132,000
Measure T - Enviromental Enhancement: 41500-447		3,000	15,000			18,000
Total		22,000	128,000			150,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Storey Rd. Shoulder Paving **Project Number: R-60**

Project Cost: \$301,000

Category: Street Reconstruction **Phase:**

Description: Construct paved shoulders, curb and gutter along frontage of Millview Sports Complex south side of Store Road.



Justification: Reduce PM-10 dust and provide public safety.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering		30,000				30,000
Construction			216,000			216,000
Environmental		1,000				1,000
Construction Management/Inspection			54,000			54,000
Total		31,000	270,000			301,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
CMAQ - Streets: 41700-306		27,000	239,000			266,000
Measure T - Environmental Enhancement: 41500-447		4,000	31,000			35,000
Total		31,000	270,000			301,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Surface Seals and AC Overlays **Project Number: R-55**

Project Cost: \$2,097,000

Category: Street 3R

Phase:



Description: Pavement rehabilitation with various types of seal coats and AC overlays on various arterial and collector streets.

Justification: Project is identified in Public Works Pavement Management Plan as needing surface seals or overlays.

Prior	Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
597,000	Design/Engineering	20,000		20,000	20,000	20,000	80,000
Total	Construction		520,000		500,000	252,000	1,272,000
	Environmental	10,000		10,000		10,000	30,000
	Construction Management/Inspection		50,000		40,000	28,000	118,000
	Total	30,000	570,000	30,000	560,000	310,000	1,500,000

Prior	Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
597,000	Measure T - RTP/3R: 41500-447	300,000	300,000	300,000	300,000	300,000	1,500,000
Total	Total	300,000	300,000	300,000	300,000	300,000	1,500,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Thomas Jefferson/John Adams Sidewalks	Project Number:	R-51
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Project Cost: \$306,200
Category: Unassigned **Phase:** DESIGN

Description: Construct sidewalks and curb ramps: install in pavement lighted crosswalk and acquisition of right of way. Safe Routes to School for Thomas Jefferson Middle School and John Adams Elementary School.

Justification: Improve traffic and pedestrian circulation and safety.

Prior	Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
1,200	Design/Engineering	20,000					20,000
Total	Construction	260,000					260,000
	Construction Management/Inspection	25,000					25,000
	Total	305,000					305,000

Prior	Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
1,200	LTF - Streets: 42000-333	31,000					31,000
Total	Safe Routes 2 School - State: 41300-342	274,000					274,000
		Total	305,000				

CITY OF MADERA

PROJECT DETAILS

Engineering

Torres Wy. Alley Paving **Project Number: R-59**

Project Cost: \$185,000

Category: Street Reconstruction **Phase:**

Description: Construct AC pavement along Torres Way and at various locations.



Justification: Mitigation measures to reduce PM-10.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering		14,000				14,000
Construction				140,000		140,000
Environmental		1,000				1,000
Construction Management/Inspection				30,000		30,000
Total		15,000		170,000		185,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
CMAQ - Streets: 41700-306			150,000			150,000
Measure T - Environmental Enhancement: 41500-447		15,000		20,000		35,000
Total		15,000	150,000	20,000		185,000

CITY OF MADERA

PROJECT DETAILS

Engineering

UPPR Crossing - Street Approach **Project Number: R-32**

Project Cost: \$634,000
Category: Street 3R **Phase:** DESIGN

Description: Railroad approach paving
Justification: Improve safety and riding comfort

Prior	Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
254,000	Construction	180,000	50,000	50,000	50,000	50,000	380,000
Total	Total	180,000	50,000	50,000	50,000	50,000	380,000

Prior	Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
254,000	LTF - Streets: 42000-333	180,000	50,000	50,000	50,000	50,000	380,000
Total	Total	180,000	50,000	50,000	50,000	50,000	380,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Schnoor Ave. Trunk Sewer System	Project Number:	S-12 (S-5)
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Project Cost: \$1,185,000

Category: Sewer **Phase:**

Description: Rehabilitate the Schnoor Ave. Trunk Sewer System beginning at sewage pump station on Cleveland Avenue and going south, crossing the Fresno River, and ending at Industrial. Technical memo prepared October 2013 by Akel Engineering in conjunction with Master Plan Update presented as Appendix D contains detailed information and recommendations. NOTE: Segment across river has not been evaluated.

Justification: Extend useful life of sewer trunk main.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering	70,000					70,000
Construction		485,000	530,000			1,015,000
Construction Management/Inspection		50,000	50,000			100,000
Total	70,000	535,000	580,000			1,185,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Sewer Utility Fund: 20400-511	650,000	535,000				1,185,000
Total	650,000	535,000				1,185,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Sewer Main, Manhole Covers	Project Number:	S-07
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Project Cost: \$106,000

Category: Sewer **Phase:**

Description: Replace manhole covers, rings and frames at various locations.
-Ongoing project.

Justification: Sewer manhole covers, rings and frames are deteriorated or damaged. Replacement is needed.

Prior	Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
31,000	Construction	10,000	65,000				75,000
Total	Total	10,000	65,000				75,000

Prior	Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
31,000	Sewer Utility Fund: 20400-511	75,000					75,000
Total	Total	75,000					75,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Ellis St./Krohn St. Retention Basin	Project Number:	SD-15-P07
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Project Cost: \$100,000

Category: Storm Drain

Phase:

Description: Identify location, acquire right-of-way and prepare preliminary estimates of costs in advance of engineering and construction.

This task will only proceed to the degree funding is available.

Justification: Advance planning and purchase of right-of-way reduces the potential for a series of temporary basins as part of individual development project.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering	100,000					100,000
Total	100,000					100,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
DIF:45156 Storm Drain NE	100,000					100,000
Quadrant Impact Fee						
Total	100,000					100,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Granada Dr./Avenue 12 1/2 Retention Basin **Project Number: SD-14-P11**

Project Cost: \$100,000

Category: Storm Drain

Phase:

Description: Identify location, acquire right-of-way and prepare preliminary estimates of costs in advance of engineering and construction.

This task will only proceed to the degree funding is available.

Justification: Advance planning and purchase of right-of-way reduces the potential for a series of temporary basins as part of individual development project.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering	100,000					100,000
Total	100,000					100,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
DIF:45157 Storm Drain SW	100,000					100,000
Quadrant Impact Fee						
Total	100,000					100,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Pine St/Avenue 12 1/2 Retention Basin Project Number: SD-13-PX

Project Cost: \$150,000

Category: Storm Drain

Phase:

Description: Identify, prioritize and purchase right-of-way at locations where development is anticipated to occur in the near term.

This task will only proceed to the degree funding is available.

Justification: Advance planning and purchase of right-of-way reduces the potential for a series of temporary basins as part of individual development project.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering	50,000	50,000	50,000			150,000
Total	50,000	50,000	50,000			150,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
DIF:45100 Storm Drain Existing Area Impact Fee	10,000	10,000	10,000			30,000
DIF:45155 Storm Drain NW Quadrant Impact Fee	10,000	10,000	10,000			30,000
DIF:45156 Storm Drain NE Quadrant Impact Fee	10,000	10,000	10,000			30,000
DIF:45157 Storm Drain SW Quadrant Impact Fee	10,000	10,000	10,000			30,000
DIF:45158 Storm Drain SE Quadrant Impact Fee	10,000	10,000	10,000			30,000
Total	50,000	50,000	50,000			150,000

CITY OF MADERA

PROJECT DETAILS

Engineering

San Sabastian Basin Overflow Pipeline **Project Number: SD-12**

Project Cost: \$50,975
Category: Storm Drain **Phase:**

Description: Installation of over flow pipeline to connect to outfall at San Sabastian & BilBao Street.

Justification: The San Sabastian basin needs to be drained regularly...

Prior	Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
10,975	Design/Engineering	40,000					40,000
Total	Total	40,000					40,000

Prior	Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
10,975	DIF:45156 Storm Drain NE Quadrant Impact Fee	40,000					40,000
Total	Total	40,000					40,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Fairgrounds Liftstation **Project Number: SS-6**

Project Cost: \$450,000

Category: Sewer **Phase:**

Description: Install a variable frequency drive (VFD) to include electrical work and appurtenance.

Justification: improve the performance of the pumps at the lift station resulting to a more efficient and economical system.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering	25,000					25,000
Construction	385,000					385,000
Construction Management/Inspection	40,000					40,000
Total	450,000					450,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
DIF:40949 Sewer Existing Area Impact Fee	162,000					162,000
Sewer Utility Fund: 20400-511	288,000					288,000
Total	450,000					450,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Replace Sewer Main - Sherwood Wy. **Project Number: SS-2**

Project Cost: \$463,000

Category: Sewer **Phase:**

Description: Replace 1,930-feet of existing 12-inch sanitary sewer main with new 15-inch main on Sherwood Wy. from Lake St. to 220-feet west of Nebraska Ave.

Justification: Existing sewer main is under size for full buildout.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering	40,000					40,000
Construction	398,000					398,000
Construction Management/Inspection	25,000					25,000
Total	463,000					463,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
DIF:40949 Sewer Existing Area Impact Fee	217,000					217,000
Sewer Utility Fund: 20400-511	246,000					246,000
Total	463,000					463,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Replace Sewer Main - Wessmith Wy. Project Number: SS-1

Project Cost: \$46,000

Category: Sewer **Phase:**

Description: Replace 190-feet of existing 10-inch sanitary sewer main with new 15-inch main on Wessmith Wy. From 190-feet east of Lake St. to Lake St.

Justification: Existing sewer main is under size for full buildout.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering	4,000					4,000
Construction	39,000					39,000
Construction Management/Inspection	3,000					3,000
Total	46,000					46,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
DIF:40949 Sewer Existing Area Impact Fee	24,600					24,600
Sewer Utility Fund: 20400-511	21,400					21,400
Total	46,000					46,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Cleveland Dual Left Turn Lanes at Schnoor Project Number: TS-13

Project Cost: \$398,000
Category: Traffic Signal **Phase:** DESIGN

Description: Add a dual left turn lane for WB Cleveland Avenue traffic turning south onto Schnoor Avenue.

Justification: Emission reduction for CMAQ project

Prior	Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
338,000	Construction	50,000					50,000
	Construction	10,000					10,000
Total	Management/Inspection						10,000
	Total	60,000					60,000

Prior	Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
338,000	CMAQ - Streets: 41700-306	52,000					52,000
	LTF - Streets: 42000-333	8,000					8,000
Total	Total	60,000					60,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Gateway & Cleveland Pedestrian Crossing Project Number: TS-14

Project Cost: \$275,000
Category: Traffic Signal **Phase:** DESIGN



Description: Adding pedestrian crossing at south side of the intersection, across Gateway
 Adjusting existing crossing on north side of Gateway/Cleveland intersection.

Justification: Pedestrian safety and ADA.

Prior	Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
25,000	Construction	200,000					200,000
	Construction	50,000					50,000
Total	Management/Inspection						
	Total	250,000					250,000

Prior	Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
25,000	DIF:45264 Traffic Signal Impact Fee	99,000					99,000
Total	Section 130: 41700-306	465,000					465,000
	Total	564,000					564,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Granada & Howard Traffic Signal **Project Number:** TS-17

Project Cost: \$340,000
Category: Traffic Signal **Phase:**

Description: Add traffic signal at Granada Drive and Howard Road.

Justification: Emission reduction for CMAQ project.
 Traffic safety.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering		30,000				30,000
Land Acquisition/Right of Way		30,000				30,000
Construction			250,000			250,000
Environmental		5,000				5,000
Construction Management/Inspection			25,000			25,000
Total		65,000	275,000			340,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
DIF:45264 Traffic Signal Impact Fee		65,000	275,000			340,000
Total		65,000	275,000			340,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Howard Rd. & Mainberry Dr. Pedestrian Crosswalk **Project Number: TS-21**

Project Cost: \$20,000
Category: Traffic Signal **Phase:**

Description: Construct new crosswalk on Howard Road at Mainberry Dr. intersection utilizing rapid flashing beacons to increase visibility and awareness of crossing locations when pedestrians are present.

Justification: Provide safe pedestrian access.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering	3,000					3,000
Construction	15,000					15,000
Construction Management/Inspection	2,000					2,000
Total	20,000					20,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
LTF - Streets: 42000-333	20,000					20,000
Total	20,000					20,000

PROJECT DETAILS

Engineering

Howard/Westberry Traffic Signal **Project Number: TS-19**

Project Cost: \$396,000

Category: Traffic Signal **Phase:**

Description: Install a traffic signal at the intersection of Westberry Blvd. and Howard Rd.

Justification: Emission reduction for CMAQ project and traffic safety.



Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering	20,000					20,000
Construction	315,500					315,500
Environmental	500					500
Construction Management/Inspection	60,000					60,000
Total	396,000					396,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
CMAQ - Streets: 41700-306	354,000					354,000
LTF - Streets: 42000-333	42,000					42,000
Total	396,000					396,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Sunrise Ave. & Tozer St. Traffic Signal Project Number: TS-20

Project Cost: \$65,000
Category: Traffic Signal **Phase:**

Description: Install a traffic signal at the intersection of Sunrise Avenue and Tozer Street.

Justification: Emmision reduction for CMAQ project.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering		20,000	10,000			30,000
Construction			30,000			30,000
Environmental		5,000				5,000
Total		25,000	40,000			65,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
CMAQ - Streets: 41700-306		65,000				65,000
Total		65,000				65,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Traffic Safety Improvements-Various Locations Project Number: TS-18

Project Cost: \$295,000
Category: Traffic Signal **Phase:** DESIGN

Description: Construction of in-pavement lighted crosswalks and advanced warning devices at various locations.

Justification: Improve traffic and pedestrian safety

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Construction	240,000					240,000
Construction Management/Inspection	55,000					55,000
Total	295,000					295,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
HSIP Grant: 417000-306	246,300					246,300
LTF - Streets: 42000-333	48,700					48,700
Total	295,000					295,000

CITY OF MADERA

PROJECT DETAILS

Engineering

12" Pipe - Almond Ave -Pine St to Stadium Rd **Project Number: W-PSW-45**

Project Cost: \$138,000

Category: Water **Phase:**

Description: Install 2,600-feet of new 12-inch water line to connect to an existing 12-inch water lines to the east and west

Justification: This segment is designated as missing in the Water System Master Plan. Missing lines typically provide redundancy should one line need to be turned off. They also increase efficiency resulting in higher pressure.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Land Acquisition				31,000		31,000
Design/Engineering				13,000		13,000
Construction					94,000	94,000
Total				44,000	94,000	138,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
DIF:40845 Water Pipes Impact Fee				44,000	94,000	138,000
Water Utility Fund: 20300-712				0	0	0
Total				44,000	94,000	138,000

CITY OF MADERA

PROJECT DETAILS

Engineering

12" Pipe Pecan Av, 480 ft w/o Monterey to Monterey **Project Number: W-PSW-50**

Project Cost: \$35,300

Category: Water

Phase:

Description: Install 480-feet of new 12-inch water line to connect to an existing 12-inch water lines to the east and west

Justification: This segment is designated as missing in the Water System Master Plan. Missing lines typically provide redundancy should one line need to be turned off. They also increase efficiency resulting in higher pressure.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total	Future
Design/Engineering					3,500	3,500	31,800
Total					3,500	3,500	Total

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total	Future
Water Utility Fund: 20300-712					3,500	3,500	31,800
Total					3,500	3,500	Total

CITY OF MADERA

PROJECT DETAILS

Engineering

12" Pipe, Pecan Ave - Madera to 760 ft e/o Madera **Project Number: W-PSE-3**

Project Cost: \$56,000

Category: Water **Phase:**

Description: Install 780-feet of new 12-inch water line to connect to existing 12-inch water lines to the east and west

Justification: This segment is designated as missing in the Water System Master Plan. Missing lines typically provide redundancy should one line need to be turned off. They also increase efficiency resulting in higher pressure.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering				5,600		5,600
Construction					50,400	50,400
Total				5,600	50,400	56,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Water Utility Fund: 20300-712				5,600	50,400	56,000
Total				5,600	50,400	56,000

CITY OF MADERA

PROJECT DETAILS

Engineering

24" Pipe, Lake Street - Ellis to Avenue 17 **Project Number: W-PNE-4**

Project Cost: \$700,000

Category: Water **Phase:** DESIGN

Description: Construct 24-inch water line in Lake Street conjunction with a 6.75 million gallon tank at or near Avenue 17 and Road 27

Justification: Near Term - . Tank and pump offset impacts of drought conditions when municipal wells exhibit reduced capacity during peak hours. Pipe is necessary to convey flow to and from tank
 Long Term - Provide storage on east side of city given majority of pumping is proposed to occur on the west side of the City per the Water System Master Plan.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering			60,000	25,000		85,000
Construction					615,000	615,000
Total			60,000	25,000	615,000	700,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Water Utility Fund: 20300-712	0	0	60,000	25,000	615,000	700,000
Total	0	0	60,000	25,000	615,000	700,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Above Ground Storage Tank - 6.75 MG Project Number: W-T-1

Project Cost: \$9,663,000

Category: Water

Phase: DESIGN

Description: Construct 6.75 million gallon tank at or near Avenue 17 and Road 27

Justification: Near Term - .Offset impacts of drought conditions when municipal wells exhibit reduced capacity during peak hours
 Long Term - Provide storage on east side of city given majority of pumping is proposed to occur on the west side of the City per the Water System Master Plan.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Land Acquisition				250,000		250,000
Design/Engineering		515,000	148,000			663,000
Construction				5,700,000	3,050,000	8,750,000
Total		515,000	148,000	5,950,000	3,050,000	9,663,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Water Utility Fund: 20300-712	0	515,000	148,000	5,950,000	3,050,000	9,663,000
Total	0	515,000	148,000	5,950,000	3,050,000	9,663,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Aviation Dr Pipe - Cross Airport Dr to 12" line **Project Number: W-PNW-29**

Project Cost: \$6,700

Category: Water **Phase:**

Description: Install 90-feet of new 12-inch water line to connect to an existing 12-inch water line

Justification: This segment is designated as missing in the Water System Master Plan. Missing lines typically provide redundancy should one line need to be turned off. They also increase efficiency resulting in higher pressure.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering					600	600
Construction					6,100	6,100
Total					6,700	6,700

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Water Utility Fund: 20300-712					67,000	67,000
Total					67,000	67,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Aviation Pipe - Connect 12" in Aviation by Falcon **Project Number: W-PNW-30**

Project Cost: \$13,000

Category: Water

Phase:

Description: Install 170-feet of new 12-inch water line to connect to an existing 12-inch water line

Justification: This segment is designated as missing in the Water System Master Plan. Missing lines typically provide redundancy should one line need to be turned off. They also increase efficiency resulting in higher pressure.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering					1,300	1,300
Construction					11,700	11,700
Total					13,000	13,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Water Utility Fund: 20300-712					13,000	13,000
Total					13,000	13,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Commercial Water Meters Project Number: **W-23**

Project Cost: \$3,427,000

Category: Water

Phase:



Description: Replacement and installation of water meters at commercial institutions for the City's AMR reading system.

Justification: The meter will be able to self read and transmit data into the main office saving labor to read meters.

Prior	Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
751,000	Construction	2,426,000					2,426,000
	Construction	250,000					250,000
	Management/Inspection						
	Total	2,676,000					2,676,000

Prior	Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
751,000	Water Utility Fund: 20300-712	2,676,000					2,676,000
	Total	2,676,000					2,676,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Complete Water Well No. 37 **Project Number: W-GW-1**

Project Cost: \$1,012,000

Category: Water **Phase:**

Description: Install pump and electrical equipment at previously drilled well. Design drawings are complete.

Justification: Water system analysis indicates the City requires additional well capacity to meet peak hour demand and or redundancy.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Construction	1,012,000					1,012,000
Total	1,012,000					1,012,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Water Utility Fund: 20300-712	1,012,000					1,012,000
Total	1,012,000					1,012,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Maple St Pipe - Pine St to Noble St **Project Number: W-FF-1**

Project Cost: \$54,000

Category: Water **Phase:**

Description: Install new 8-inch water line in parallel with an existing water line.

Justification: This segment is designated as deficient on the basis of fire flow in the Water System Master Plan.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering		5,000				5,000
Construction		49,000				49,000
Total		54,000				54,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Water Utility Fund: 20300-712		54,000				54,000
Total		54,000				54,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Olive Ave Pipe - Pine St to Noble St	Project Number:	W-FF-4
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Project Cost: \$54,000

Category: Water **Phase:**

Description: Install new 12-inch water line in parallel with an existing water line.

Justification: This segment is designated as deficient on the basis of fire flow in the Water System Master Plan.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering		5,000				5,000
Construction		49,000				49,000
Total		54,000				54,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Water Utility Fund: 20300-712		54,000				54,000
Total		54,000				54,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Pecan Ave. Water Main **Project Number: W-27**

Project Cost: \$265,000
Category: Water **Phase:** DESIGN

Description: Installation of water mains, valves and appurtenances on Pecan Avenue, Garnet Street to Golden State Blvd.



Justification: Adjacent properties are currently serviced by private on-site wells.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering					16,000	16,000
Construction					217,000	217,000
Environmental					1,000	1,000
Construction Management/Inspection					10,000	10,000
Contingency					21,000	21,000
Total					265,000	265,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
DIF:40845 Water Pipes Impact Fee					265,000	265,000
Total					265,000	265,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Plumas St Pipe - Rotan Ave approx 330 ft west **Project Number: W-FF-3**

Project Cost: \$18,000

Category: Water **Phase:**

Description: Install new 8-inch water line in parallel with an existing water line.

Justification: This segment is designated as deficient on the basis of fire flow in the Water System Master Plan.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering		2,000				2,000
Construction		16,000				16,000
Total		18,000				18,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Water Utility Fund: 20300-712		18,000				18,000
Total		18,000				18,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Pump Station for Tank at Ave. 17 & Road 27 **Project Number: W-PS-1**

Project Cost: \$6,732,000

Category: Water **Phase:** DESIGN

Description: Construct 4,300 GPM pump station in conjunction with a 6.75 million gallon tank at or near Avenue 17 and Road 27

Justification: Near Term - .Tnak and pump offsets impacts of drought conditions when municipal wells exhibit reduced capacity during peak hours
 Long Term - Provide storage and pumping capacity on east side of city given majority of pumping is proposed to occur on the west side of the City per the Water System Master Plan.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering		359,000	103,000			462,000
Construction				4,147,000	2,123,000	6,270,000
Total		359,000	103,000	4,147,000	2,123,000	6,732,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Water Utility Fund: 20300-712		359,000	103,000	4,147,000	2,123,000	6,732,000
Total		359,000	103,000	4,147,000	2,123,000	6,732,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Rotan Ave Pipe - Howard Rd to Plumas St **Project Number: W-FF-2**

Project Cost: \$40,000

Category: Water **Phase:**

Description: Install new 8-inch water line in parallel with an existing water line.

Justification: This segment is designated as deficient on the basis of fire flow in the Water System Master Plan.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering		4,000				4,000
Construction		36,000				36,000
Total		40,000				40,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Water Utility Fund: 20300-712		40,000				40,000
Total		40,000				40,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Water Main Upgrades - 10th St. **Project Number: W-08**

Project Cost: \$780,000

Category: Water **Phase:**

Description: New 12" from W-06 (12" installed "H" Street and 11th), east on 11th, under UPRR to east. North on "E" Street to 10th Street, east on 10th Street to "D" Street. Connect to existing 10".

Part of 2010 Water Improvements - Bid Package 2. 90% design. Shelved due to lack of funding.

Should be constructed in conjunction with W-06.

Justification: Project identified in 1997 Master Plan to provide pipeline reinforcements between South and East Madera as "Improvements No. 1.2" that includes W-06 and W-08

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering	10,000					10,000
Construction		700,000				700,000
Construction Management/Inspection		70,000				70,000
Total	10,000	770,000				780,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Water Utility Fund: 20300-712	10,000	770,000				780,000
Total	10,000	770,000				780,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Water Main Upgrades - H St. **Project Number: W-06**

Project Cost: \$265,000

Category: Water **Phase:**

Description: Water projects system upgrades at H Street - 11th to Madera Avenue. Install new 12" main from existing 12" crossing SR99 at 10th Street alignment, southerly on "H" Street, across Madera Avenue to 11th Street. Bore under Madera Avenue (SR145).

Project is 90% design by CDM as part of 2010 Water System Improvements - Bid Pack 2 along with W-07 and W-08. Shelved due to lack of funding.

Should be constructed in conjunction with W-08.

Justification: Project identified in 1997 Master Plan to provide pipeline reinforcements between South and East Madera as "Improvements No. 1.2" that includes W-06 and W-08

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering	10,000					10,000
Construction		230,000				230,000
Construction Management/Inspection		25,000				25,000
Total	10,000	255,000				265,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Water Utility Fund: 20300-712	10,000	255,000				265,000
Total	10,000	255,000				265,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Water Main Upgrades - Locations 1-12 **Project Number: W-03**

Project Cost: \$850,000

Category: Water

Phase:

Description: Replace undersize pipes with larger PVC to include valves & appurtenances at the following locations:
 Oak Street - Pine to Cypress
 Olive Ave. - P to Q Street
 P Street - 4th to 5th
 O/P Alley - 6th to Olive
 10th - D to UPRR
 12th - E to D Alley
 14th - D to Olive
 5th - Gateway to G
 2nd - C to E
 B St.- Central to River
 A St. - Central to River
 6th - Lake St. to Vineyard

Justification: Undersize pipes need to be upgraded to provide sufficient supply of potable water.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering		100,000				100,000
Construction		640,000				640,000
Construction Management/Inspection		110,000				110,000
Total		850,000				850,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Water Utility Fund: 20300-712		850,000				850,000
Total		850,000				850,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Water Main Upgrades - Locations 13-23	Project Number:	W-04
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Project Cost: \$1,500,000

Category: Water **Phase:**

Description: Replace undersize pipes with larger PVC to include valve & appurtenance at the following locations:

- Fresno Street - Riverside to Dalton
- Riverside Alley @ Dalton
- Merced St. - Daltin to Riverside
- B Street - 10th to 13th
- 11th Street - A to 200ft E/O A Street
- Nebraska - Cleveland to James Way
- Wilson - Owens to Sharon
- Adell - Lake to Merced
- Harding - Davis to Torres Way
- Wallace - Sunrise to Sierra Vista School
- Lake - Wallace to Hull
- Lincoln - Tulare to 2 blks east

Justification: Undersize pipes need to be upgraded to provide sufficient supply of potable water.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering		120,000				120,000
Construction		1,180,000				1,180,000
Construction		200,000				200,000
Management/Inspection						
Total		1,500,000				1,500,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Water Utility Fund: 20300-712		1,500,000				1,500,000
Total		1,500,000				1,500,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Water Main Upgrades - River Crossing at Gateway **Project Number: W-09**

Project Cost: \$185,000

Category: Water **Phase:**

Description: Water projects system upgrades at River Crossing@ Gateway, Columbia to Water Well No. 18.

Justification: Water system is deteriorating and needing repair. Major reconditioning or replacement is needed to restore capacity.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering		20,000				20,000
Construction		150,000				150,000
Construction Management/Inspection		15,000				15,000
Total		185,000				185,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Water Utility Fund: 20300-712		185,000				185,000
Total		185,000				185,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Water Tower Demolition	Project Number:	W-26
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Project Cost: \$285,000

Category: Water

Phase:

Description: Remove existing water tower located at the Frank Bergon Senior Center (238 S. "D" Street) and perform environmental remediation of the dismantled pieces for proper disposal.

Justification: The expense of restoring the water tower structurally and environmentally has been estimated by the Public Works Department to be in a ballpark area of \$1,000,000 - well over the estimated removal costs. These funds do not presently exist which would leave the current safety concerns in place until such fund could be secured, if ever.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering	10,000					10,000
Construction		265,000				265,000
Construction Management/Inspection		10,000				10,000
Total	10,000	275,000				285,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Water Utility Fund: 20300-712	10,000	275,000				285,000
Total	10,000	275,000				285,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Water Well No. 35, Ellis St 970 ft w/o Chapin St **Project Number: W-GW-2**

Project Cost: \$2,011,000
Category: Water **Phase:** CONSTRUCTION

Description: Construct water well in accordance with the Water System Master Plan. Design is complete. The site has been improved and the shaft has been drilled. Site is not currently owned by the City. This site will require water treatment for manganese.

Justification: Represents a well that will be needed per analysis contained in the Water System Master Plan to serve existing development.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Construction					2,011,000	2,011,000
Total					2,011,000	2,011,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Water Utility Fund: 20300-712					2,011,000	2,011,000
Total					2,011,000	2,011,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Well #28 Pumps Replacement **Project Number: W-20**

Project Cost: \$500,000

Category: Water **Phase:**

Description: Replace pumps at well No. 28 at Storey & Tozer Road

Justification: Prolonged use of pumps caused inefficiency and costly energy use. PG&E will provide funds to replace units thereby saving electricity.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering		20,000				20,000
Construction		470,000				470,000
Construction		10,000				10,000
Management/Inspection						
Total		500,000				500,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Water Utility Fund: 20300-712		500,000				500,000
Total		500,000				500,000

CITY OF MADERA

PROJECT DETAILS

Engineering

Well No. 27 Pipeline Outfall Extension	Project Number:	W-17
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Project Cost: \$575,000

Category: Water **Phase:** DESIGN

Description: Pipeline outfall extension - Well No. 27. Install a pipeline 200 feet down Almond to provide relief line.

Justification: Granulated Activated Carbon filter system is backflushed twice a year. Currently, the well water floods the street. System will install a pipeline 200 feet down Almond to provide for relief line.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering	45,000					45,000
Construction		500,000				500,000
Construction Management/Inspection		30,000				30,000
Total	45,000	530,000				575,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Water Utility Fund: 20300-712	45,000	530,000				575,000
Total	45,000	530,000				575,000

CITY OF MADERA

PROJECT DETAILS

Parks & Community Services

Bike Lane Projects - Various Locations **Project Number: PK-01**

Project Cost: \$313,600

Category: Parks **Phase:**

Description: Maintain bike/pedestrian trails and construct new bike lanes and paths.

Justification: Maintenance and operational safety and matching funds for improvement projects.

Prior	Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
140,000	Construction	39,600	32,000	33,000	34,000	35,000	173,600
Total	Total	39,600	32,000	33,000	34,000	35,000	173,600

Prior	Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
140,000	LTF - Parks: 42000-341	39,600	32,000	33,000	34,000	35,000	173,600
Total	Total	39,600	32,000	33,000	34,000	35,000	173,600

CITY OF MADERA

PROJECT DETAILS

Parks & Community Services

Bike/Ped Path - FRT to Cleveland **Project Number: PK-56**

Project Cost: \$379,000

Category: Parks

Phase:

Description: Construct bike/pedestrian path in MID alignment north of Fresno River to Cleveland Avenue between Granada Dr. and Schnoor Ave.



Justification: Provide multi-modal pathway connecting Fresno River and commercial areas to the northwest area of Madera.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering	40,000					40,000
Construction		308,000				308,000
Construction Management/Inspection		31,000				31,000
Total	40,000	339,000				379,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
CMAQ - Parks: 41700-303		300,000				300,000
Measure T - Environmental Enhancement: 41500-447	40,000	39,000				79,000
Total	40,000	339,000				379,000

CITY OF MADERA

PROJECT DETAILS

Parks & Community Services

Centennial Park Playground	Project Number:	PK-61
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Project Cost: \$367,000

Category: Parks

Phase:

Description: Elements of the project include installation of hardscape approaches, fall surfaces, landscaping, play equipment and other playground amenities (benches, trash cans, etc.)

Justification: Children with disabilities are not always able to enjoy playgrounds especially when they are cumbersome, or not fully accessible. This project will construct the City's first fully accessible playground and will be located in Lions Town and Country Park.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering	20,000					20,000
Construction	317,000					317,000
Construction Management/Inspection	30,000					30,000
Total	367,000					367,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Fansler Grant: 41000-635	67,000					67,000
Housing Related Parks Program: 41000-635	300,000					300,000
Total	367,000					367,000

CITY OF MADERA

PROJECT DETAILS

Parks & Community Services

FRT - Gateway & UPRR Undercrossing **Project Number: PK-08**

Project Cost: \$606,800

Category: Parks

Phase: DESIGN

Description: This previously approved and designed project includes engineering, environmental and construction for a trail undercrossing at Gateway Drive and the Union Pacific Railroad tressel.

Justification:

Prior	Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
17,500	Construction	489,300					489,300
	Construction Management/Inspection	45,000					45,000
	Design/Engineering/Administrative	5,000					5,000
	UPRR	50,000					50,000
	Total	589,300					589,300

Prior	Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
17,500	BTA - State (Bicycle Transportation Acc: 41300-342	215,000					215,000
	CMAQ - Parks: 41700-303	298,000					298,000
	LTF - Parks: 42000-341	21,500					21,500
	SJVAPCD - Remove II Grant: 41300	54,800					54,800
	Total	589,300					589,300

CITY OF MADERA

PROJECT DETAILS

Parks & Community Services

FRT - Granada to MID, North Bank

Project Number:

PK-58

Project Cost: \$146,000

Category: Parks

Phase:

Description: Construct Vern McCulloch River bike path - north bank of Fresno River Trail from Granada Drive to MID alignment.



Justification: Continuance of recreational and commuter multi-modal trail connecting northwest Madera to existing facilities.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Land Acquisition	21,000					21,000
Design/Engineering	15,000					15,000
Construction		100,000				100,000
Construction Management/Inspection		10,000				10,000
Total	36,000	110,000				146,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
CMAQ - Parks: 41700-303	32,000	96,000				128,000
Measure T - Environmental Enhancement: 41500-447	5,000	13,000				18,000
Total	37,000	109,000				146,000

CITY OF MADERA

PROJECT DETAILS

Parks & Community Services

FRT - MID to Schnoor, North Bank

Project Number:

PK-57

Project Cost: \$250,000

Category: Parks

Phase:

Description: Construct Vern McCullogh River bike path - north bank of Fresno River Trail from MID alignment to Schnoor Avenue.



Justification: Continuance of recreational commuter multi modal trail connecting northwest Madera to existing facilities.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering	17,000					17,000
Construction		170,000				170,000
Utility Relocation		40,000				40,000
Environmental	5,000					5,000
Construction Management/Inspection		18,000				18,000
Total	22,000	228,000				250,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
CMAQ - Parks: 41700-303	37,000	180,000				217,000
Measure T - Environmental Enhancement: 41500-447	17,000	16,000				33,000
Total	54,000	196,000				250,000

CITY OF MADERA

PROJECT DETAILS

Parks & Community Services

FRT- Schnoor Bridge - North Undercrossing **Project Number: PK-54**

Project Cost: \$362,200

Category: Parks

Phase: DESIGN

Description: Construct Vern McCullough River Trail undercrossing at Schnoor undercrossing - North

Justification: Continuance of trail to eliminate unsafe road crossing across Schnoor Avenue.

Prior	Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
12,200	Design/Engineering	15,000					15,000
Total	Construction	300,000					300,000
	Right of Way Costs	5,000					5,000
	Construction Management/Inspection	30,000					30,000
	Total	350,000					350,000

Prior	Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
12,200	BTA - State (Bicycle Transportation Acc: 41300-342	314,000					314,000
Total	LTF - Parks: 42000-341	36,000					36,000
	Total	350,000					350,000

CITY OF MADERA

PROJECT DETAILS

Parks & Community Services

Knox Park Rehabilitation	Project Number:	PK-59
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Project Cost: \$390,000

Category: Parks

Phase:

Description: Elements of the rehabilitation plans include removal of hazardous debris, demolition of concrete pads and sidewalks that are in poor repair, removal of unattractive fencing that creates a barrier to park access, ADA improvements, installation of fencing to segregate the public from seasonal pond water and stormwater infrastructure, re-grading of pond bottom, landscape rehabilitation and limited installation of park amenities (soccer goalposts, picnic tables, trash and recycling cans for example).

Justification: Knox Park is a former neighborhood park within the confines of a water retention basin. The park which served the neighborhoods immediately surrounding it has fallen into disrepair and is permanently locked to prevent public access.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering	90,000					90,000
Construction	275,000					275,000
Construction Management/Inspection	25,000					25,000
Total	390,000					390,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Housing Related Parks Program: 41000-635	390,000					390,000
Total	390,000					390,000

CITY OF MADERA

PROJECT DETAILS

Parks & Community Services

Laurel Bike Path - Sunset to FRT **Project Number: PK-12**

Project Cost: \$609,800

Category: Parks

Phase: DESIGN



Description: Phase 1 of this project will construct an asphalt concrete path with concrete landing and install irrigation facilities and trees along an existing MID easement corridor (Laurel Street) that connects to the Fresno River Trail.

Justification:

Prior	Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
48,800	Construction	511,000					511,000
Total	Construction	50,000					50,000
	Management/Inspection						
	Total	561,000					561,000

Prior	Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
48,800	CMAQ - Parks: 41700-303	392,000					392,000
Total	LTF - Parks: 42000-341	32,000					32,000
	Measure T - Enviromental Enhancement: 41500-447	100,000					100,000
	SJVAPCD - Remove II Grant: 41300	37,000					37,000
	Total	561,000					561,000

CITY OF MADERA

PROJECT DETAILS

Parks & Community Services

Sunrise Rotary Sports Complex Improvements	Project Number:	PK-13
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Project Cost: \$421,000

Category: Parks

Phase: DESIGN

Description: Design and construction of concrete curb & gutter, chain link fence and re-grading to improve drainage. Part of this project is the booster pump that was completed in 2011.

Justification:

Prior	Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
4,000	Design/Engineering	10,000					10,000
	Construction	373,000					373,000
	Construction Management/Inspection	34,000					34,000
Total	Total	417,000					417,000

Prior	Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
4,000	CDBG - Parks: 10221-433	67,000					67,000
	DIF:45218 Parks Impact Fee	350,000					350,000
Total	Total	417,000					417,000

CITY OF MADERA

PROJECT DETAILS

Parks & Community Services

Tulare/Cleveland/Raymond Bike Path	Project Number:	PK-48
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Project Cost: \$325,000

Category: Parks

Phase: DESIGN

Description: From the current eastern end of the trail this project would create a Class II bike lane and street crossings to take trail to intersection of Raymond Road and Cleveland Avenue. A new Class I Bike Trail would be constructed running east between the River and Raymond Road to end at the eastern Madera City Limits.

Justification: Construction of Fresno River Trail master plan per Vision 2025.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering	10,000					10,000
Construction		285,000				285,000
Construction Management/Inspection		30,000				30,000
Total	10,000	315,000				325,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
CMAQ - Parks: 41700-303	275,000					275,000
Measure T - Environmental Enhancement: 41500-447	50,000					50,000
Total	325,000					325,000

CITY OF MADERA

PROJECT DETAILS

Public Works

Sewer Mains, Package 2 **Project Number: S-02**

Project Cost: \$1,668,000

Category: Sewer **Phase:** DESIGN

Description: Replace miscellaneous sewer mains at the following locations:

- Mainberry - Sunset to Camden
- Kenny Crt - A Street to Cul De Sac - CDBG Activity I
- Misc Alleys Downtown - CDBG Activity G, H
- Park Dr - Orchard to Clairmont
- Alley - Yosemite to Pine - CDBG Activity E
- Paul to Schnoor Alley
- 3rd Street - B Street to D Street - CDBG Activity B, C, D
- 9th Street - CDBG Activity F

Install new main Almond Avenue east of SR145 and abandon lift station, raise manhole covers to grade on SR145/Madera Avenue and upgrade South Street lift station - CDBG Activity A.

Justification: Sewer pipelines are deteriorated and caving in. Major reconditioning or replacement is needed to restore capacity. Funding will be prioritized on infrastructure most in need.

Prior	Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
50,000	Construction	1,318,000					1,318,000
	Construction	300,000					300,000
Total	Management/Inspection						
	Total	1,618,000					1,618,000

Prior	Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
50,000	CDBG - Public Works: 10221-433	700,000					700,000
Total	Sewer Utility Fund: 20400-511	918,000					918,000
	Total	1,618,000					1,618,000

CITY OF MADERA

PROJECT DETAILS

Public Works

Water Tower Recoating **Project Number:** W-22

Project Cost: \$1,500,000

Category: Water **Phase:**

Description: Recoating of the water tower interior lining

Justification: Recoating to prevent rust and deterioration of interior lining of the water tower

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Construction		1,500,000				1,500,000
Total		1,500,000				1,500,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Water Utility Fund: 20300-712		1,500,000				1,500,000
Total		1,500,000				1,500,000

CITY OF MADERA

PROJECT DETAILS

Transit Program

Security & Passenger Enhancements	Project Number:	Trans-6
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Project Cost: \$404,000

Category: Transit

Phase:

Description: Installation of security & passenger improvements.

Justification: City of Madera Transit System enhancement and passenger amenities consistent with Vision 2025 Strategy 121 and Measure T.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering	20,000					20,000
Construction	354,000					354,000
Construction Management/Inspection	30,000					30,000
Total	404,000					404,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Measure T - Transit Enhan. Sr.: 415000-447	60,000					60,000
Measure T - Transit Enhan.: 41500-447	250,000					250,000
Prop 1B CalOES: 41100-449	94,000					94,000
Total	404,000					404,000

CITY OF MADERA

PROJECT DETAILS

Transit Program

Security & Passenger Enhancements, B **Project Number:** Trans-7

Project Cost: \$248,000

Category: Transit

Phase:

Description: Installation of security & passenger improvements.

Justification: City of Madera Transit System enhancement and passenger amenities consistent with Vision 2025 Strategy 121 and Measure T.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering			15,000			15,000
Construction			213,000			213,000
Construction Management/Inspection			20,000			20,000
Total			248,000			248,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Measure T - Transit Enhan. Sr.: 415000-447		6,000	6,000			12,000
Measure T - Transit Enhan.: 41500-447		70,000	72,000			142,000
Prop 1B CalOES: 41100-449		47,000	47,000			94,000
Total		123,000	125,000			248,000

CITY OF MADERA

PROJECT DETAILS

Transit Program

Security & Passenger Enhancements, C	Project Number:	Trans-8
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Project Cost: \$209,000

Category: Transit

Phase:

Description: Installation of security & passenger improvements.

Justification: City of Madera Transit System enhancement and passenger amenities consistent with Vision 2025 Strategy 121 and Measure T.

Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Design/Engineering					15,000	15,000
Construction					176,000	176,000
Construction					18,000	18,000
Management/Inspection						
Total					209,000	209,000

Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
Measure T - Transit Enhan. Sr.: 415000-447				6,000	6,000	12,000
Measure T - Transit Enhan.: 41500-447				74,000	76,000	150,000
Prop 1B CalOES: 41100-449				47,000		47,000
Total				127,000	82,000	209,000

CITY OF MADERA

PROJECT DETAILS

Transit Program

Transit & Public Works Maintenance/Admin Facility **Project Number:** Trans-1

Project Cost: \$2,304,600

Category: Transit

Phase: DESIGN

Description: This project includes relocation and expansion of the Public Works Corporation yard to accommodate medium-to long term projected growth.

Justification: To provide facilities to accommodate City of Madera Transit System and Public Works Yard space to accommodate projected growth consistent with Vision 2025 Strategy 121

Prior	Expenditures	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
110,000	Design/Engineering	300,000					300,000
Total	Construction	1,774,600					1,774,600
	Construction Management/Inspection		120,000				120,000
	Total	2,074,600	120,000				2,194,600

Prior	Funding Sources	'15/'16	'16/'17	'17/'18	'18/'19	'19/'20	Total
110,000	Prop 1B CalOES: 41100-449	94,600					94,600
Total	Prop 1B PTMISEA: 21229-449	2,100,000					2,100,000
	Total	2,194,600					2,194,600