



AGENDA

PUBLIC WORKS COMMISSION CITY OF HUNTINGTON BEACH

Wednesday, August 21, 2013 – 5:00 PM

Utilities Yard

19021 Huntington Street
Huntington Beach, CA 92648

A. PLEDGE OF ALLEGIANCE

ROLL CALL

Berge, Brenden, Carr, Cook, Hart,
McGovern, Thomas

B. PRESENTATIONS-COMMENDATIONS

C. MINUTES

C-1. Minutes of July 17, 2013

D. ORAL COMMUNICATIONS

Public Comments – the Public Works Commission welcomes public comments on all items on this agenda or of community interest. **Three minutes per person**, time may not be donated to others. Commission on this date can take no action on any item not on the agenda. This is the time to address Commission regarding items of interest or agenda items other than public hearings. Communications on agenda items will be scheduled such that public comments may be received as close to 5:00 p.m. as possible.

E. DIRECTOR'S ITEMS

F. INFORMATION ITEMS

F-1. Upcoming City Council Study Sessions - The City Council conducts public Study Sessions on the evenings of City Council meetings, normally beginning at 4:00 p.m., in Room B-8. A tentative listing of upcoming sessions is submitted for the Commission's information.

F-2. Active Capital Project Report – An update on active capital projects is presented for the Commission's information. Project information, including description, location maps and funding sources can be found in the FY

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2012/13 Capital Improvement Program notebook, or on the city's website under Government, Current [Budget](#) information.

- F-3. Bicycle Master Plan Updates – At the previous Public Works Commission meeting, Commissioners had safety concerns regarding some of the options presented. Staff will be providing more statistical information to the Commission in response to some of the concerns that were discussed.

G. ADMINISTRATIVE ITEMS

- G-1. Cast Iron Pipe Replacement- Plans and Specifications for the Downtown Cast Iron Pipe Replacement Project, CC-1432, are in final preparation. Staff requests approval that the Downtown Cast Iron Pipe Replacement Project, CC-1432, is in general conformance with the previously approved CIP.

Funding Source: This project is scheduled for construction in the next fiscal year of 2013/14, as funds will be available and will be budgeted with Water Master Plan Fund, Account No. 50791006.82100.

Recommended Action: Motion to approve that the Downtown Cast Iron Pipe Replacement Project, CC-1432, is in general conformance with the previously approved CIP.

- G-2. Public Hearing to Consider Acceptance of Public Works Utilities Division Public Health Goals Report - SB 1307 (Calderon-Sher; effective 01-01-97) added new provisions to the California Health and Safety Code mandating that a report on Public Health Goals (PHGs) for water purveyors with more than 10,000 water service connections be prepared by July 1, 1998 and every three years thereafter if any water quality measurements have exceeded PHGs.

The report must be presented to the governing body and then be the subject of a public hearing to hear public comment and consider acceptance. The report was presented to the City Council via the attached memo. The City Attorney has opined that the public hearing may be delegated to the Public Works Commission.

Funding Source: Not applicable.

Recommended Action: Motion to accept the Public Works Utilities Division Public Health Goals Report.

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- H. WRITTEN COMMUNICATIONS
- I. COMMISSION AND STAFF COMMENTS
- J. ADJOURNMENT

<p>NEXT PUBLIC WORKS COMMISSION MEETING <i>September 18, 2013, 5:00 PM, Utilities Yard</i></p>



MINUTES

CITY OF HUNTINGTON BEACH PUBLIC WORKS COMMISSION JULY 17, 2013

**Call to Order/
Pledge of Allegiance:** The meeting was called to order at 5:00 p.m. by Chairperson Thomas, who led Commissioners and the audience in the Pledge of Allegiance to the Flag.

Commissioners Absent: Commissioner Hart was absent

Commissioners Present: Commissioners McGovern, Berge, Brenden, Carr, Cook, and Thomas were in attendance.

Others Present: Tom Herbel, City Engineer
Brian Ragland, Utilities Manager
Ken Dills, Project Manager
Bill Janusz, Principal Civil Engineer
Darren Sam, Senior Traffic Engineer
Chris Davis, Sr. Admin Analyst
Dahle Bulosan, Accounting Manager,
Silvia Giragossian, Accounting Technician II
Kirsty Wapner, Administrative Assistant

B. PRESENTATIONS-COMMENDATIONS

None.

C. MINUTES

C-1. Motion by Commissioner Cook, seconded by Commissioner Brenden to approve the minutes of June 19, 2013 as presented.

VOTE: The motion carried.

AYES: 6

NOES: 0

ABSENT: 1 (Hart)

ABSTENTIONS: 0

D. ORAL COMMUNICATIONS

None.

E. DIRECTOR'S ITEMS

None

F. INFORMATION ITEMS

- F-1. Upcoming City Council Study Sessions – Tom Herbel noted the CIP will be presented at the Study Session on August 5. The General Plan will also be presented by the Planning and Building Director. The Bicycle Master Plan and the Long Term Financial Plan Update will be presented on August 19.
- F-2. Active Capital Project Report – Tom Herbel provided updates on the capital project report. He noted that the Goldenwest Garfield project construction is starting now. Goldenwest will begin in about a month. Hanover and Keelson Lane projects are under construction. These should be completed in about three months. Lakeview Drive project should start construction within two weeks. Central Park Parking Lot is in demo right now. Trees will be replaced. Lambert Park Slope Repair- complete. Trees will be going in. Warner Avenue Gravity Sewer Main/Lift Station C is out to bid. Algonquin/Boardwalk Lift Station has underground work complete. Water Main Replacement at Sunset Beach Area Phase II was waiting on Edison and is now starting construction.
- F-3. Updated CIP Summary Sheets – Tom Herbel noted that there were about 25 changes in the CIP and staff was adding them to the Commissioners' CIP books. A memo will be sent tomorrow to the Commissioners including all the noted changes.
- F-4. Bicycle Master Plan – Tom Herbel introduced Darren Sam to discuss the Bicycle Master Plan. Staff is seeking comments. Sam noted the other options presented have been tested in other cities. Commissioner Cook noted Sacramento, Boulder, and other cities have good bike plans. Commissioner Brenden inquired about safety issues in Class 3 presented. Mr. Herbel stated staff could ask the City of Long Beach for their statistics on this option. The PowerPoint that was presented, is attached to these minutes.
- F-5. Infrastructure Calculation- Dahle Bulosan, Accounting Manager, presented on the City's 15% infrastructure calculation. He reported that the City spent 15.4% of the General Fund revenue; meeting the requirements. He noted there are no changes for this year and things are looking better; adding that we are doing well as a City to maintain the 15%. \$640,000 was transferred to the Infrastructure Fund. Commissioner McGovern stated some previous concerns relating to debt services taking away from the public works maintenance. Commissioner McGovern felt the calculation was not correct.

G. ADMINISTRATIVE ITEMS

G-1. Infrastructure Fund Report- Ken Dills presented on the Infrastructure Fund Report and noted it was established in 2002. The main source to this fund is the General Fund. Last year, \$640,000 was transferred from the General Fund to the Infrastructure Fund. He added that the Infrastructure Fund is being used as a holding account for developer fees and expenditures related to the proposed Bella Terra Crossing Project. Any unspent funds are to be returned to the developers. The Heil Pump Station and Bella Terra Crossing are projects which are budgeted for FY 2013/14, as well as \$1.5 million to begin work on the new Senior Center.

Motion by Commissioner McGovern, seconded by Commissioner Brenden, to recommend to City Council approval of the Infrastructure Fund Annual Report.

VOTE: The motion did not carry.
AYES: 2
NOES: 4 (Cook, Carr, Berge, Thomas)
ABSENT: 1
ABSTENTIONS: 0

G-2. Sewer Service User Charge Adjustment for Fiscal Year 2013/14- Chris Davis presented the annual Sewer Service Fund Audit. He stated the CPIU reflects an annual increase of 1.0% for the month of May 2013. Staff is recommending to suspend the CIP increases and to hold rates where they currently are. There has been an issue with calcium build ups in certain sewer lines, which is need of removal. Staff is not aware if South Orange County has these same calcium issues. Older pipes typically have these problems, which are cleaned and slip lined. Brian Ragland noted staff is hoping to identify all locations and come up with a capital project. Sewer Fund revenue is okay. Tom Herbel stated that the subject would be revisited at a later time.

Motion by Commissioner Cook, seconded by Commissioner Carr to recommend to the City Council the programmed increase to the Sewer Service User Charge be suspended for Fiscal Year 2013/14.

VOTE: The motion carried.
AYES: 6
NOES: 0
ABSENT: 1
ABSTENTIONS: 0

H. WRITTEN COMMUNICATIONS

None.

I. COMMISSION AND STAFF COMMENTS

Commissioner Brenden commended the Public Works staff for fixing a reported pothole within a day or two.

Commissioner Berge reported some contractors leave bad trails behind after their work has been completed and he inquired if the City back charges them. Tom Herbel noted sometimes work is done as a temporary fix. He also added that our inspectors do go out and inspect jobs. Commissioner McGovern asked if the contractors who have done poor jobs can come back for more work. Herbel stated the City has to hire the lowest responsible bidders.

J. ADJOURNMENT

The meeting adjourned at 6:10 PM to August 21, 2013 at 5:00 PM at the Utilities Yard.

Jennifer Thomas
Chairperson

Kirsty Wapner
Administrative Assistant



City of Huntington Beach Bicycle Master Plan

Bicycle Master Plan Overview

- **Introduction**
- **Existing Conditions**
- **Recommendations**
- **Bikeway Funding**

Facility Types

Multi-use Path (Class 1)

- 8' Paved + 2' graded edge min. each side
- More width recommended where high bicycle or mixed use volumes occur



Bicycle Lane (Class 2)

- Minimum 5' where curb occurs (4' without curb)
- Wider lane recommended with high bike volumes



Bicycle Route (Class 3)

- Signed only or can include “Sharrows”
- Wider than standard outside lane recommended



Example Class 1 Multi-use Path



Huntington Beach Multi-use Beach Path

Example Class 2 Bicycle Lane



Pacific Coast Highway

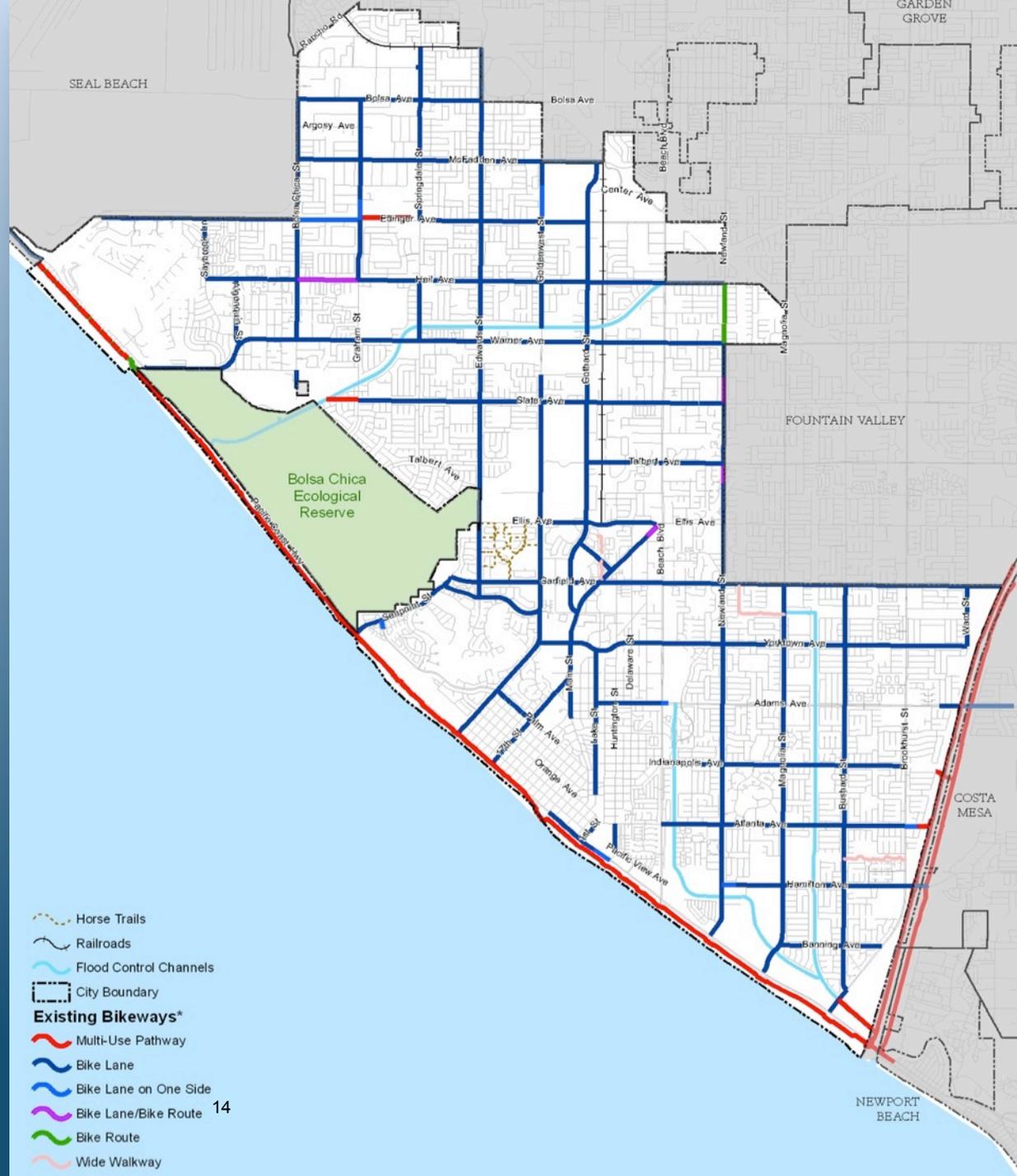
Class 3 Bicycle Route



Existing Bikeways



Bicycle Master Plan



Recommendations

- **Improve Facilities**
- **Bicycle Programs**
- **Other (bike map, events, signage)**
- **PCH Alternatives**



Facility Recommendations

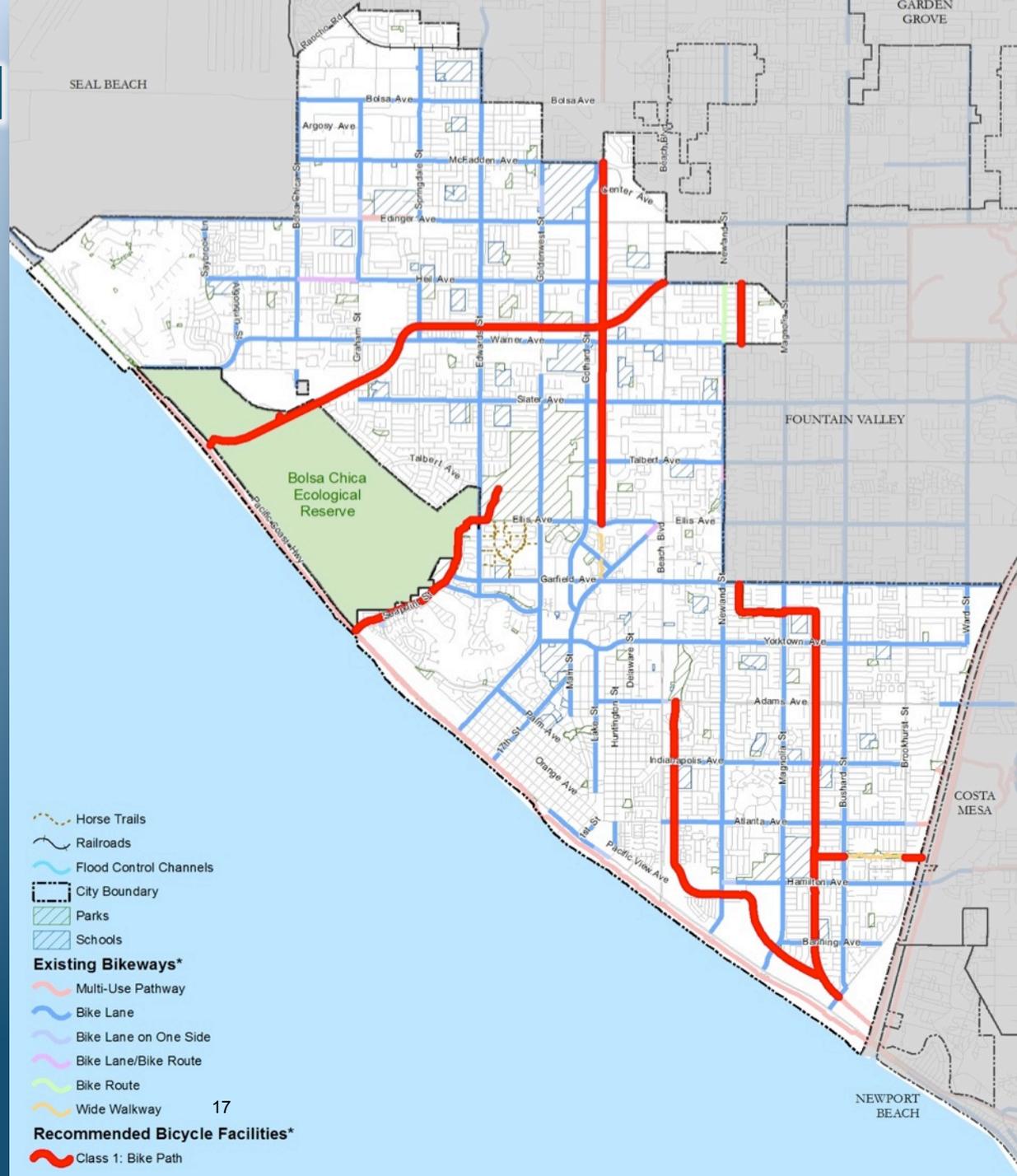
- Improve existing facilities
- Fill remaining bicycle lane gaps
- Add more separated facilities, such as multi-use paths along canals
- Add bicycle boulevards
- Add more bicycle parking, especially at the beach and downtown



Recommended Class 1 Multi-use Paths



Bicycle Master Plan



- Horse Trails
- Railroads
- Flood Control Channels
- City Boundary
- Parks
- Schools

Existing Bikeways*

- Multi-Use Pathway
- Bike Lane
- Bike Lane on One Side
- Bike Lane/Bike Route
- Bike Route
- Wide Walkway

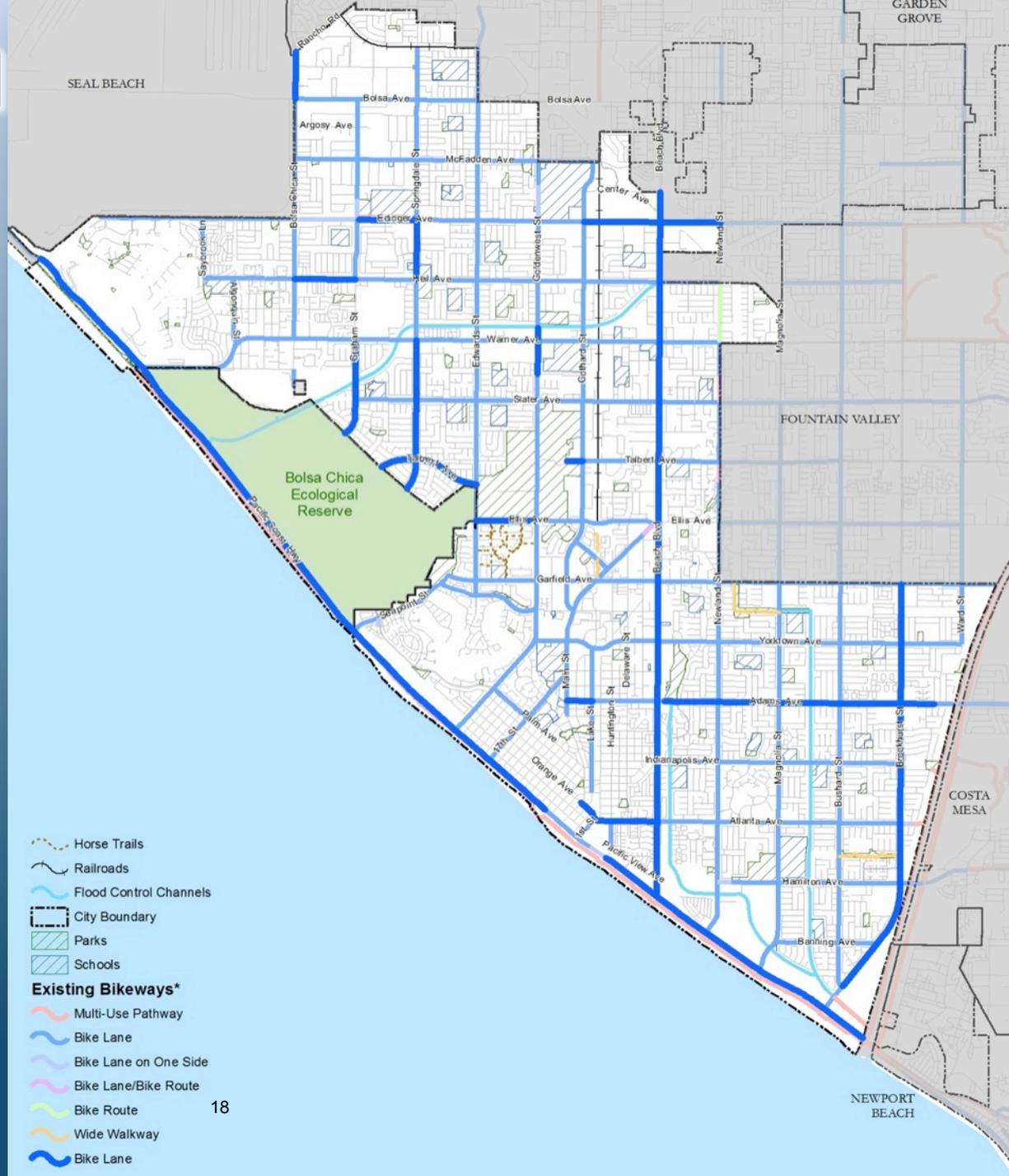
Recommended Bicycle Facilities*

- Class 1: Bike Path

Recommended Class 2 Bicycle Lanes



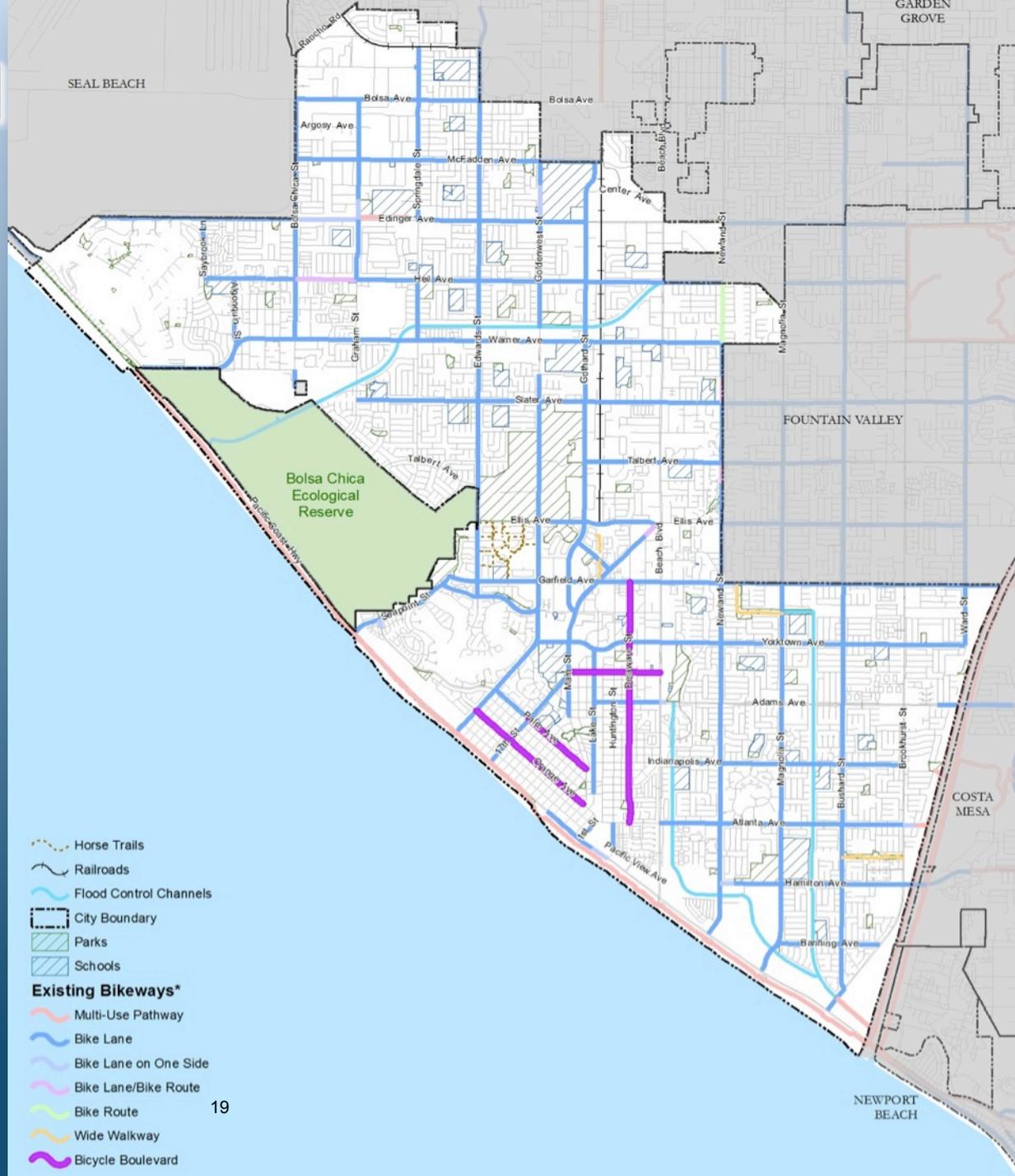
Bicycle Master Plan



Recommended Bicycle Boulevards



Bicycle Master Plan



Recommended Bicycle Boulevards



Example: Orange Avenue



Bicycle Parking



Bicycle Parking Facility



In-Street Parking (Bike Corral)



Program Recommendations

1. Institute public education campaign aimed at cyclist, pedestrian and driver behavior
2. Promote “Bicycle Trains” to and from school
3. Integrate cycling network improvements into land use planning and development



Other Recommendations

- Provide a regularly updated network map
- Support business incentive programs
- Host more bicycle promotion events
- Improve bicycle way-finding signage



PCH: Bikeway Alternatives

Bicycle Lanes

(Parking retained, but minimal buffering)



PCH: Bikeway Alternatives

Buffered Bicycle Lanes

(Loss of 99 parking spaces on east side)



PCH: Bikeway Alternatives

One-way Cycle Track and Bicycle Lane Hybrid
(Parking retained, but requires 11' lanes)



Next Steps

- **Collect Comments and Final Plan**
- **City Council for Adoption**
- **Caltrans Certification**



Questions or Comments?





City of Huntington Beach Bicycle Master Plan



~2013~ CITY COUNCIL STUDY SESSIONS & SPECIAL SESSIONS

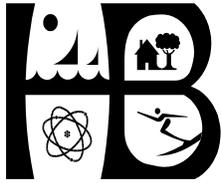
*This information is for agenda scheduling purposes only and is subject to change on a daily basis.
Subjects listed below are not guaranteed to appear on a City Council agenda.*

COUNCIL MEETING	TIME	SUBJECT	DEPT HEAD
2013			
Jan. 7, 2013		<i>No Meeting</i>	
Jan. 22, 2013		<i>Circulation Element Update Water Master Plan</i>	<i>Hess Hopkins</i>
Feb. 4, 2013		<i>Street Light RFQ</i>	<i>Hall</i>
Feb. 19, 2013		<i>DTSC Ascon Update</i>	<i>Hall</i>
Mar. 4, 2013		<i>Housing Element/ General Plan Update-Work Program</i>	<i>Hess</i>
Mar. 18, 2013		<i>Senior Center Update</i>	<i>Laudenback</i>
April 1, 2013			
April 15, 2013		<i>PERS Actuarial Update</i>	<i>Farrell</i>
May 6, 2013		<i>Mid-Year Budget Study Session</i>	<i>Farrell</i>
May 20, 2013		<i>Historic Context & Survey Report</i>	<i>Hess/Galvin Preservation Associates</i>
June 3, 2013		<i>Downtown Alcohol Recommendations/ Downtown Surveillance Cameras Update</i>	<i>Small</i>
June 17, 2013		<i>CDBG – Allocations Conservation (Tiered) Water Rates</i>	<i>Hall Hopkins</i>
July 1, 2013		<i>Senior Center Update on projects within Beach-Edinger Corridors Specific Plan Area Pacific City Update</i>	<i>Hopkins Hess</i>
July 15, 2013		<i>Proposed FY 2013/14 Budget Bolsa Chica Annexation</i>	<i>Farrell Hess</i>
Aug. 5, 2013		<i>FY 2013/14 CIP Budget and Infrastructure Discussion General Plan Update</i>	<i>Farrell Hess</i>
Aug. 19, 2013		<u>Long Term Financial Plan Update</u> Bicycle Master Plan	<u>Farrell</u> Hopkins
Sept. 3, 2013	New	OC Water District Annexation	Hopkins
Sept. 16, 2013			
Oct. 7, 2013			
Oct. 21, 2013			
Nov. 4, 2013			
Nov. 18, 2013		IAB (Investment Advisory Board) Joint Study Session	Cutchen
Dec. 2, 2013		Mayoral Transition	
Dec. 16, 2013			

**City of Huntington Beach
Capital Improvement Program Master Schedule**

Tue 8/13/13

ID	Task Name	Duration	Start	Finish	Budget	Comments	2013															
							A	M	J	J	A	S	O	N	D	J	F	M	A			
130	Barlett Park (08/09)	0 days	Wed 7/18/12	Wed 7/18/12	\$300,000	Need to amend consultant contract for MND. Working on a revised schedule.																
131	Environmental Clearance	0 days	Wed 7/18/12	Wed 7/18/12																		
132	Gun Range Site (08/09)	1207 days	Mon 2/9/09	Tue 9/24/13	\$336,000	Evaluating possible scope changes. May need to revise EIR and Remedial Action Plan schedules.																
133	EIR and Remedial Action Plan	1207 days	Mon 2/9/09	Tue 9/24/13																		
134	CC-1345 LeBard Park (07/08 & 08/09)	0 days	Wed 7/18/12	Wed 7/18/12	\$205,000	Council approved contract amendment. Work underway.																
135	Environmental	0 days	Wed 7/18/12	Wed 7/18/12																		
136	CC 1390 Sports Complex - Team Room	0 days	Wed 7/18/12	Wed 7/18/12	\$162,700	On hold pending agreement with concessionaire to complete improvements																
137	Design & Procurement	0 days	Wed 7/18/12	Wed 7/18/12																		
138	Construction	0 days	Wed 7/18/12	Wed 7/18/12																		
139	Shipley Nature Center Permanent Parking Lot	60 days	Mon 6/10/13	Fri 8/30/13	\$86,250	Under Design																
140	Design	60 days	Mon 6/10/13	Fri 8/30/13																		
141																						
142	SEWER	1080 days	Mon 9/13/10	Fri 10/31/14																		
143	CC-1370 Warner Ave Gravity Sewer Main & Lift Station "C" Reconstruction	1080 days	Mon 9/13/10	Fri 10/31/14	\$6,600,000	Awarded																
144	Final Design of Ultimate Solution	718 days	Mon 9/13/10	Wed 6/12/13																		
145	Revised MND, Coastal Permit, and Regulatory Permits	399 days	Mon 2/6/12	Thu 8/15/13																		
146	Construction	260 days	Mon 11/4/13	Fri 10/31/14																		
147	CC-1415 Algonquin/Boardwalk Lift Station	576 days	Mon 5/2/11	Mon 7/15/13	\$2,100,000	Under Construction																
148	Design	300 days	Mon 5/2/11	Fri 6/22/12																		
149	Bidding/Award (3 Months)	60 days	Mon 6/25/12	Fri 9/14/12																		
150	Construction	180 days	Tue 11/6/12	Mon 7/15/13																		
151	CC-1401 Trinidad Lift Station	211 days	Mon 9/10/12	Mon 7/1/13	\$400,000	Under Design																
152	Design	211 days	Mon 9/10/12	Mon 7/1/13																		
153	CC-1444 Sewer Lining (12/13)	200 days	Tue 4/2/13	Mon 1/6/14	\$250,000	Awarded																
154	Design	60 days	Tue 4/2/13	Mon 6/24/13																		
155	Bidding/Award (3 Months)	60 days	Tue 6/25/13	Mon 9/16/13																		
156	Construction	80 days	Tue 9/17/13	Mon 1/6/14																		
157	CC-1443 Beach Blvd. Sewer Replacement	390 days	Mon 1/28/13	Fri 7/25/14	\$1,000,000	Under Design																
158	Design	130 days	Mon 1/28/13	Fri 7/26/13																		
159	Bidding/Award (3 Months)	60 days	Mon 7/29/13	Fri 10/18/13																		
160	Construction	200 days	Mon 10/21/13	Fri 7/25/14																		
161																						
162	WATER	1190 days	Mon 12/7/09	Fri 6/27/14																		
163	CC-1175 Southeast Reservoir & CC-1191 Southeast Transmission Main (Planning Phase Only)	943 days	Wed 2/17/10	Fri 9/27/13	\$185,000	Transmission main alignment study underway.																
164	Study	943 days	Wed 2/17/10	Fri 9/27/13																		
165	CC-1427 Well No. 8 Irrigation Project	935 days	Mon 2/1/10	Fri 8/30/13	\$100,000	Design scope may change based on Talbert Lake																
166	Design	875 days	Mon 2/1/10	Fri 6/7/13																		
167	Permits (Building, and may need DPH & OCWD approval)	455 days	Mon 12/5/11	Fri 8/30/13																		
168	CC-1467 Security Improvements	520 days	Mon 10/3/11	Fri 9/27/13	\$500,000	Ongoing throughout year.																
169	Construction	520 days	Mon 10/3/11	Fri 9/27/13																		



**CITY OF HUNTINGTON BEACH
PUBLIC WORKS COMMISSION
REQUEST FOR ACTION**

Item No. PW 13-25

SUBMITTED TO: Chairman and Members of the Commission
SUBMITTED BY: Travis K. Hopkins, PE, Director of Public Works
DATE: August 21, 2013
SUBJECT: Downtown Cast Iron Pipe Replacement Project, CC-1432

Statement of Issue: Plans and Specifications for the Downtown Cast Iron Pipe Replacement Project, CC-1432, are in final preparation. Staff requests approval that the Downtown Cast Iron Pipe Replacement Project, CC-1432, is in general conformance with the previously approved CIP.

Funding Source: This project is scheduled for construction in the next fiscal year of 2013/14, as funds will be available and will be budgeted with Water Master Plan Fund, Account No. 50791006.82100.

Impact on Future Maintenance Costs: Negligible increase to the City's maintenance program on the water system.

Recommended Action: Motion to approve that the Downtown Cast Iron Pipe Replacement Project, CC-1432, is in general conformance with the previously approved CIP.

Alternative Action(s): Do not approve the project recommendation and direct staff to proceed differently.

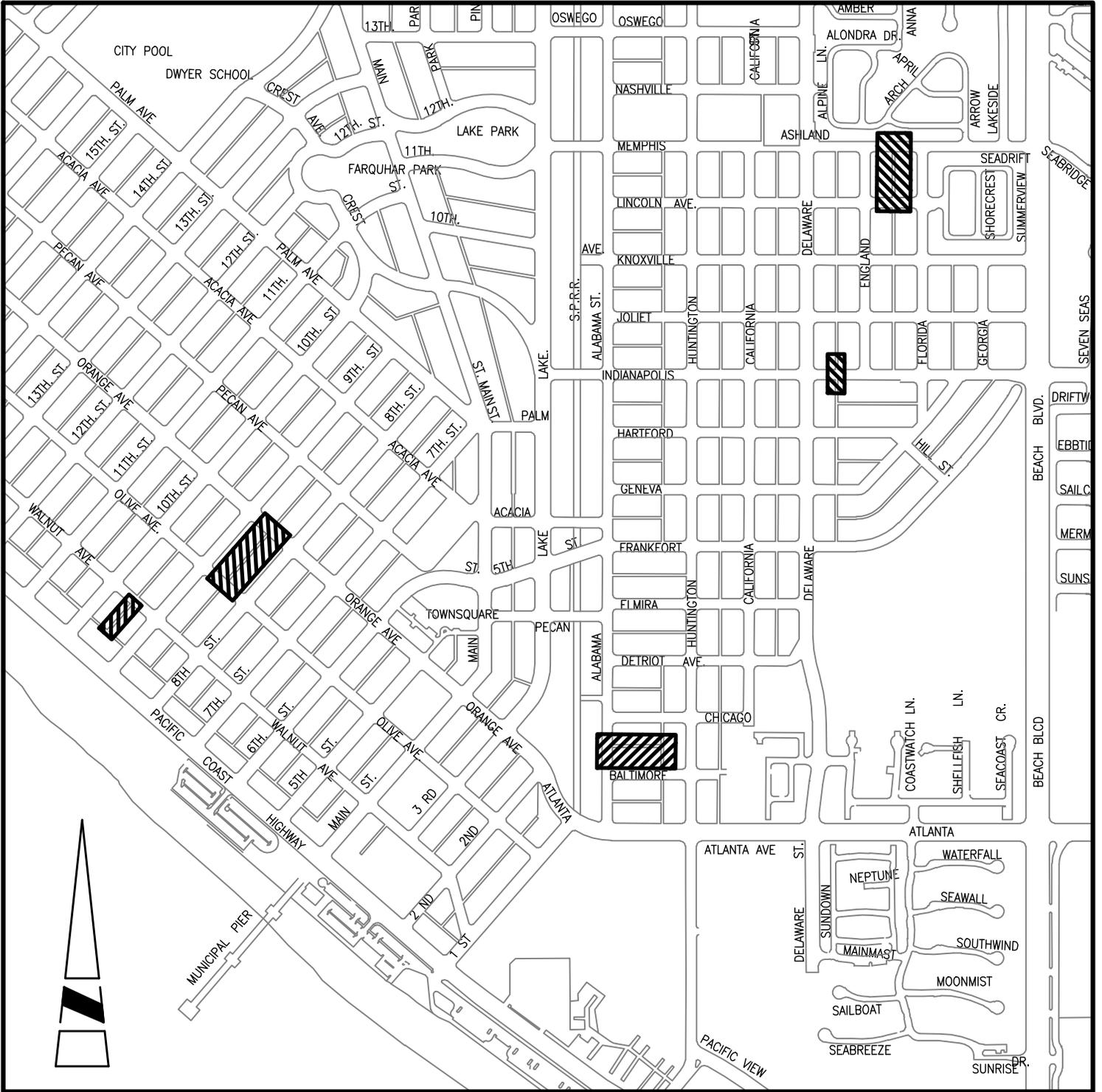
Analysis: City annually budgets for a water main replacement program. For this fiscal year, approximately 1,500 lineal feet of old existing water mains located within (5) alleys in the downtown area of Huntington Beach were identified for design only as needing replacement (see attached location map). The existing water mains were constructed in the early 1960s, from cast iron pipe, which has a tendency to corrode. The replacement of these pipelines was included in the 2012 Water Master Plan and Financial Plan Update. This project will replace the existing pipelines with 6-inch diameter PVC pipelines. Since construction activities will likely further degrade the alley pavement condition, this project will also include the repaving of the alleys after the replacement of the water mains.

The Engineer's cost estimate for this project is \$800,000.

Attachments:

1. Project Location Map

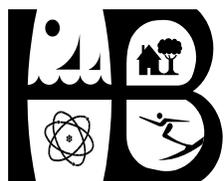
ATTACHMENT #1



VICINITY MAP

Not to Scale

DOWNTOWN CAST IRON PIPE REPLACEMENT PROJECT CC1432



**CITY OF HUNTINGTON BEACH
PUBLIC WORKS COMMISSION
REQUEST FOR ACTION**

Item No. PWC 13-26

SUBMITTED TO: Chairman Thomas and Members of the Commission

SUBMITTED BY: Travis K. Hopkins, PE, Director of Public Works

DATE: August 21, 2013

SUBJECT: Public Hearing to Consider Acceptance of Public Works
Utilities Division Public Health Goals Report

Statement of Issue: SB 1307 (Calderon-Sher; effective 01-01-97) added new provisions to the California Health and Safety Code mandating that a report on Public Health Goals (PHGs) for water purveyors with more than 10,000 water service connections be prepared by July 1, 1998 and every three years thereafter if any water quality measurements have exceeded PHGs.

The report must be presented to the governing body and then be the subject of a public hearing to hear public comment and consider acceptance. The report was presented to the City Council via the attached memo. The City Attorney has opined that the public hearing may be delegated to the Public Works Commission.

Funding Source: Not applicable.

Recommended Action: Motion to:
Accept the Public Works Utilities Division Public Health Goals Report.

Alternative Action: Do not accept the report and instruct staff on how to proceed.

Analysis: PHGs are **non-enforceable goals** established by the California EPA Office of Environmental Health Hazard Assessment (OEHHA), and are based solely on public health risk considerations. None of the practical risk-management factors that are considered by the US Environmental Protection Agency or the California Department of Public Health (CDPH) in setting drinking water standards, known as Maximum Contaminant Level (MCLs), are considered in setting the PHGs. These factors include analytical detection capability, treatment technology available, benefits and costs. The PHGs are

not enforceable and are not required to be met by any public water system. MCLGs are the federal equivalent to PHGs.

Information required in the report includes: (1) the health considerations associated with the goal or standard, (2) the category or type of risk to health that could be associated with each constituent, (3) the best treatment technology available that could be used to reduce the constituent level and (4) an estimate of the cost to install that treatment if it is appropriate and feasible.

All of the water quality data collected throughout our water system between 2010 and 2012 for purposes of determining compliance with drinking water standards as considered. This data was all summarized in our 2010, 2011 and 2012 annual Consumer Confidence Reports, which are mailed to all of our customers by July 1. The following table provides a summary of results for the last three-year period.

Constituent	PHG/MCLG	Actual	MCL/Action Level
Arsenic	0.004 ppb	2.2 to 2.6 ppb	10 ppb
Copper	0.3 mg/L	0.33 mg/L	1.3 mg/L
Uranium	0.43 pCi/L	2.71 to 7.70 pCi/L	20 pCi/L
Gross Alpha	0 pCi/L	ND to 7.24 pCi/L	15 pCi/L *

* Excluding Uranium and Radon content.

All City wells meet all State and Federal drinking water standards set to protect public health. Treatment processes to reduce the levels of constituents shown above, which are well below the MCL, to the PHGs established by OEHHA, would cost millions of dollars annually. In addition, it is not certain these processes would be effective in reducing the already low levels to the PHG. Therefore, no action is proposed at this time.

Attachments:

1. June 19, 2013 Memo to Mayor and City Council
2. 2013 Public Health Goals Report

ATTACHMENT #1



CITY OF HUNTINGTON BEACH

INTER-DEPARTMENT COMMUNICATION

To: Honorable Mayor and City Council Members
Via: Fred Wilson, City Manager
From: Travis K. Hopkins, Director of Public Works
Subject: Required Report on Public Health Goals
Date: June 19, 2013

SB 1307 (Calderon-Sher; effective 01-01-97) added new provisions to the California Health and Safety Code mandating that a report on Public Health Goals (PHGs) be prepared by July 1, 1998, and every three years thereafter. The attached report is intended to provide information to the public in addition to the annual Consumer Confidence Report mailed to each customer.

SUMMARY

The law requires that the governing body receive this report before July 1, 2013; as such, this memo serves that purpose. Once presented to the governing body, a public hearing must be held for the purpose of accepting and responding to public comment on the report. The City Attorney has opined that this matter may be delegated to the Public Works Commission. This was the procedure followed in 2010 and in previous reporting years; therefore, a public hearing will be agendized as part of the regular Public Works Commission meeting scheduled for August 21, 2013 and will be noticed as required for public hearings.

Attached for your information is the final report prepared by staff comparing the City's drinking water quality with PHGs adopted by California EPA's Office of Environmental Health Hazard Assessment (OEHHA) and with Maximum Contaminant Level Goals (MCLGs) adopted by the U.S. Environmental Protection Agency (USEPA). It is emphasized that PHGs are targets for ultimate achievement rather than enforceable standards.

Attachments

ATTACHMENT #2

CITY OF HUNTINGTON BEACH UTILITIES DIVISION 2013 REPORT ON THE CITY'S WATER QUALITY RELATIVE TO PUBLIC HEALTH GOALS

Background

Provisions of the California Health and Safety Code Section 116470 (b) specify that public water systems serving more than 10,000 service connections must prepare a special report by July 1, 2013 if their water quality measurements have exceeded any Public Health Goals (PHGs). PHGs are non-enforceable goals established by the Cal-EPA's Office of Environmental Health Hazard Assessment (OEHHA). The law also requires that where OEHHA has not adopted a PHG for a constituent, the water suppliers are to use the Maximum Contaminant Level Goals (MCLGs) adopted by U.S. Environmental Protection Agency (USEPA). Only constituents which have a California primary drinking water standard and for which either a PHG or MCLG has been set are to be addressed.

If a constituent was detected in the City's water supply between 2010 and 2012 at a level exceeding an applicable PHG or MCLG, this report provides the information required by the law. Included is the numerical public health risk associated with the PHG or MCLG, and the Maximum Contaminant Level (MCL), the category or type of risk to health that could be associated with each constituent, the best treatment technology available that could be used to reduce the constituent level, and an estimate of the cost to install that treatment if it is appropriate and feasible.

What are PHGs?

PHGs are set by the OEHHA, which is part of Cal-EPA, and are based solely on public health risk considerations. None of the practical risk-management factors that are considered by the USEPA or the California Department of Public Health (CDPH) in setting drinking water standards (MCLs) are considered in setting the PHGs. These factors include analytical detection capability, treatment technology available, benefits and costs. The PHGs are not enforceable and are not required to be met by any public water system. MCLGs are the federal equivalent to PHGs.

Water Quality Data Considered

All of the water quality data collected throughout our water system between 2010 and 2012 for purposes of determining compliance with drinking water standards was considered. This data was all summarized in our 2010, 2011, and 2012 annual Consumer Confidence Reports, which are mailed to all of our customers by July 1.

Guidelines Followed

The Association of California Water Agencies (ACWA) formed a workgroup that prepares guidelines for water utilities to use in preparing these required reports. The ACWA guidelines were used in the preparation for our report. No guidance was available from state regulatory agencies.

Best Available Treatment Technology and Cost Estimates

Both the USEPA and CDPH adopt Best Available Technologies (BATs), which are the best-known methods of reducing contaminant levels to the MCL. Costs can be estimated for such technologies. However, since many PHGs and all MCLGs are set much lower than the MCL, it is not always possible, nor feasible to determine what treatment is needed to further reduce a constituent downward to or near the PHG or MCLG, many of which are set at zero. Estimating the costs to reduce a constituent to zero is difficult, if not impossible, because it is not possible to verify by analytical means that the level has been lowered to zero. In some cases, installing treatment to try and further reduce very low levels of one constituent may have adverse effects on other aspects of water quality.

Constituents Detected That Exceed a PHG or a MCLG

The following is a discussion of constituents that were detected in one or more of our drinking water sources at levels above the PHG, or if there is no PHG, above the MCLG.

Arsenic

Arsenic is an element that occurs in the earth's crust. Accordingly, there are natural sources of exposure. Exposure to arsenic at high levels can pose serious health effects, as it is known to cause skin cancer and other cancers of the internal organs. In addition, it has been reported to affect the vascular system and has been associated with the development of diabetes. The category of health risk associated with arsenic, and the reason that a drinking water standard was adopted for it, is that people who drink water containing arsenic above the MCL throughout their lifetime could experience an increased risk of 2.5 per 1,000 of getting cancer. The cancer risk for people who drink water containing arsenic above the PHG level throughout their lifetime could experience an increased risk of 1 per 1,000,000 of getting cancer.

The PHG set by OEHHA for Arsenic is 0.004 parts per billion (ppb). The USEPA established an MCL for arsenic of 50 ppb in 1975. In January 2002, USEPA adopted a new standard for arsenic in drinking water that required water suppliers to reduce arsenic to 10 ppb by January 2006. We have detected arsenic in some of our wells at levels between 2.2 to 2.6 ppb. The levels detected were below the MCL at all times.

The BAT treatment for arsenic to lower the level of arsenic below the MCL is Reverse Osmosis. Since the level of arsenic in each of the City wells is already below the MCL, the Reverse Osmosis treatment method would likely be used to attempt to lower the

arsenic level below the 0.004 ppb PHG. ACWA has estimated that a centralized treatment plant of this type would cost approximately \$25M per year, including initial construction costs and additional operations and maintenance costs. This would result in an assumed increased cost to each customer's water service connection of about \$476 per year. All of the City wells are at separate locations throughout the City. The cost to install multiple treatment plants at each effected well site throughout the City, or to install collection mains from the affected wells to a central treatment plant would be much more expensive than the \$25M estimate.

Copper

Copper generally does not occur in significant amounts in source waters, but rather occurs as the result of the corrosion of copper plumbing materials in contact with the water. Since most copper bearing materials are located in household plumbing, State and Federal Regulations require public water systems to periodically collect a representative number of water samples at taps inside homes of residential customers.

There is currently no MCL for copper. Instead, the CDPH has set a health-based advisory level called an Action Level (AL). The 90th percentile value of all samples from household taps in the distribution system cannot exceed an AL of 1.3 milligrams per liter (mg/L) for copper. If 10 percent of the tap water samples collected are over the AL, then treatment may be required to inhibit corrosion, or to adjust the mineral content of the water.

The PHG for copper is 0.3 mg/L. The category of health risk for copper is gastrointestinal irritation. Numerical health risk data on lead and copper have not yet been provided by OEHHA, the State agency responsible for providing that information.

All of our source water samples taken from wells in 2010, 2011 and 2012 were less than the PHG for copper. Based on extensive sampling of our distribution system via household testing in 2012, our 90th percentile value for copper was 0.33 mg/L, which is well below the AL.

Our water system is in compliance with the Federal and State Lead and Copper Rule. Based on our extensive sampling, it was determined according to State regulatory requirements that we meet the AL for copper. We will be conducting additional monitoring in the summer of 2015 to further demonstrate that our water system exhibits "optimized corrosion control", as CDPH has continuously deemed in the past.

In general, optimizing corrosion control is considered to be the BAT to deal with corrosion issues and with any lead or copper findings. We continue to monitor our water quality parameters that relate to corrosivity, such as the pH, hardness, alkalinity, and total dissolved solids, and will take action if necessary to maintain our system in an "optimized corrosion control" condition.

When a water system is meeting the "optimized corrosion control" requirements, it is not prudent to initiate additional corrosion control treatment as it involves the addition of

other chemicals which may have adverse effects on other aspects of water quality. Therefore, no estimate of cost has been included in this report.

Uranium

The PHG set by OEHHA for Uranium is 0.43 picocuries per liter (pCi/L), and the CDPH has set the MCL for Uranium at 20 pCi/L. We have detected Uranium in all of our wells at levels between 2.71 to 7.70 pCi/L. The levels detected were below the MCL at all times.

The category of health risk associated with Uranium and the reason that a drinking water standard was adopted for it is that people who drink water containing Uranium above the MCL throughout their lifetime could experience an increased risk of 5 per 100,000 of getting cancer. CDPH says that “Drinking water which meets this standard (the MCL) is associated with little to none of this risk and should be considered safe with respect to Uranium.” The cancer risk for people who drink water containing Uranium above the PHG level throughout their lifetime could experience an increased risk of 1 per 1,000,000 of getting cancer.

The BAT treatment for Uranium to lower the level below the MCL is Reverse Osmosis. Since the level of Uranium in each of the City wells is already below the MCL, the Reverse Osmosis treatment method would likely be used to attempt to lower the Uranium level below the 0.43 pCi/L PHG. ACWA has estimated that a centralized treatment plant of this type would cost approximately \$25M per year, including initial construction costs and additional operations and maintenance costs. This would result in an assumed increased cost to each customer’s water service connection of about \$476 per year. All of the City wells are at separate locations throughout the City. The cost to install multiple treatment plants at each effected well site throughout the City, or to install collection mains from the affected wells to a central treatment plant would be much more expensive than the \$25M estimate.

Gross Alpha

Gross Alpha is the measurement of radioactive particle activity for a group of radionuclides which include: Uranium, Combined Radium, and Radon. The CDPH has established the MCL for Gross Alpha as 15 pCi/L (excluding Uranium and Radon), which is used as a screening standard to determine if further radionuclide monitoring is necessary.

There is no PHG set by OEHHA, but the USEPA has an MCLG for Gross Alpha of zero. We have detected Gross Alpha in some of our wells at levels up to 7.24 pCi/L. However, the level of Gross Alpha detected is mainly contributed to the Uranium content. After the Uranium content is deducted, the net Alpha is less than the minimum detectible level for regulatory reporting. Therefore, no health risks or estimates of treatment are included in this report.

Summary

Constituent	PHG or (MCLG)	MCL or (AL)	Actual
Arsenic	0.004 ppb	10 ppb	2.2 to 2.6 ppb
Copper	0.3 mg/L	(1.3 mg/L)	0.33 mg/l
Uranium	0.43 pCi/L	20 pCi/L	2.71 to 7.70 pCi/l
Gross Alpha	(0 pCi/L)	15 pCi/L *	ND to 7.24 pCi/l

* Excluding Uranium and Radon content.

RECOMMENDATIONS FOR FURTHER ACTION:

The City's drinking water quality meets all CDPH and USEPA drinking water standards set to protect public health. To further reduce the levels of the constituents identified in this report that are already significantly below the health-based MCLs established to provide "safe drinking water", additional costly treatment processes would be required. The effectiveness of the treatment processes to provide any significant reductions in constituent levels at these already low values is uncertain. The health protection benefits of these further hypothetical reductions are not at all clear and may not be quantifiable. Therefore, no action is proposed.