

DALZIEL BUILDING . 250 FRANK H. OGAWA PLAZA . SUITE 4344 . OAKLAND . CALIFORNIA . 94612

Community & Economic Development Agency Transportation Services Division TEL: (510) 238-3466 FAX: (510) 238-6412

Bicycle and Pedestrian Advisory Committee, Monthly Meeting March 18, 2010, 5:30-7:30 p.m.

Oakland City Hall: Hearing Room 4, Second Floor

AGENDA

Time	Item #	Topic	Topic Type *
5:30	1	Introductions, Appointment of Note Taker (5 minutes)	Ad
5:35	2	Approval of Meeting Minutes (consent item) (5 minutes) Vote on motion to adopt February 2010 minutes.	А
5:40	3	Improving Oakland-owned electronic bicycle locker security Attachment (30 minutes)—Jennifer Stanley and Steven Grover, eLock Technologies, will update the committee on measures taken to improve safety at the bicycle eLockers on 20 th St at Broadway and additional measures under consideration. Staff requests the committee's input on additional security measures, including interior locking devices, improved lighting, and potentially, removing/relocating the lockers.	А
6:10	4	Recommended projects for FY 2010-11 TDA Article 3 Bike/Ped Funding Attachment (25 minutes)—Jason Patton will update the committee and take comments on staff's recommendations for projects to receive TDA Article 3 funding this year.	А
6:35	5	E 12 th St/38 th Ave Bikeway Design Review Attachment (30 minutes)— Staff will present bikeway striping plans for E 12 th St (Fruitvale Ave-40 th Ave), and the wayfinding signage plans for this section plus 38 th Ave (E 12 th St-MacArthur Blvd), and take comments from the committee	А
7:05	6	BPAC Officer Elections (5 minutes)—The committee will consider sole nominees Jonathan Bair and Chris Hwang as BPAC Chair and Vice-Chair, respectively, for the coming year. ¹	А
7:10	7	Announcements, suggestions for next meeting topics	Ad

* Topic Types:

I=informational; A=action item; Ad=administrative

¹ Eligible to vote on action items in March 2010: Brian Toy, Carol Levine, Chris Hwang, Daniel Schulman, Dave Campbell, Fred McWilliams, Jonathan Bair, Karen Smulevitz, Midori Tabata, Paul Rosenbloom, Rebecca Saltzman, Robert Raburn, Ron Bishop, Zach Seal

Oakland Bicycle & Pedestrian Advisory Committee

March 18, 2010

Item 3 Attachment: City of Oakland-owned bicycle eLocker security

The City installed two sets of eight bicycle eLockers, primarily to serve patrons of the two downtown BART stations (12th St and 19th St). There have been three successful break-ins at the set installed at 20th St & Broadway (northeast corner) in the past two years, There have been no other successful break-ins to eLock-brand electronic bicycle lockers statewide, and no reported attempts at the 12th St Station location (14th St & Broadway).

To address the problem, eLock has strengthened the lockers in a variety of ways . eLock has also replaced three stolen bicycles at their expense. The cardholder agreement does not hold eLock responsible for replacing bicycles.

After the most recent break-in (with a big chunk of concrete over a weekend), staff asked the Oakland Police Department's *Crime Prevention Through Environmental Design (CPTED)* Program to survey the locker site and make recommendations for improving security. The recommendations and staff responses are summarized on the next page. Additionally, eLock offered to design a mechanism that would allow bicycles to be locked inside the locker. They have developed a prototype (shown in photo



below and installed at the Berkeley Amtrak Station). The cost to install these is \$90/locker. The mechanism includes a 3' nylon-covered security chain (cannot be cut with bolt cutters), securely attached to the locker frame. The chain forms a loop which will reach the front of a bike parked in the locker. The

function of the chain should be obvious to users, easy to notice, yet not hamper getting a bike in and out.

Staff is inclined to install these at all 16 eLockers downtown.

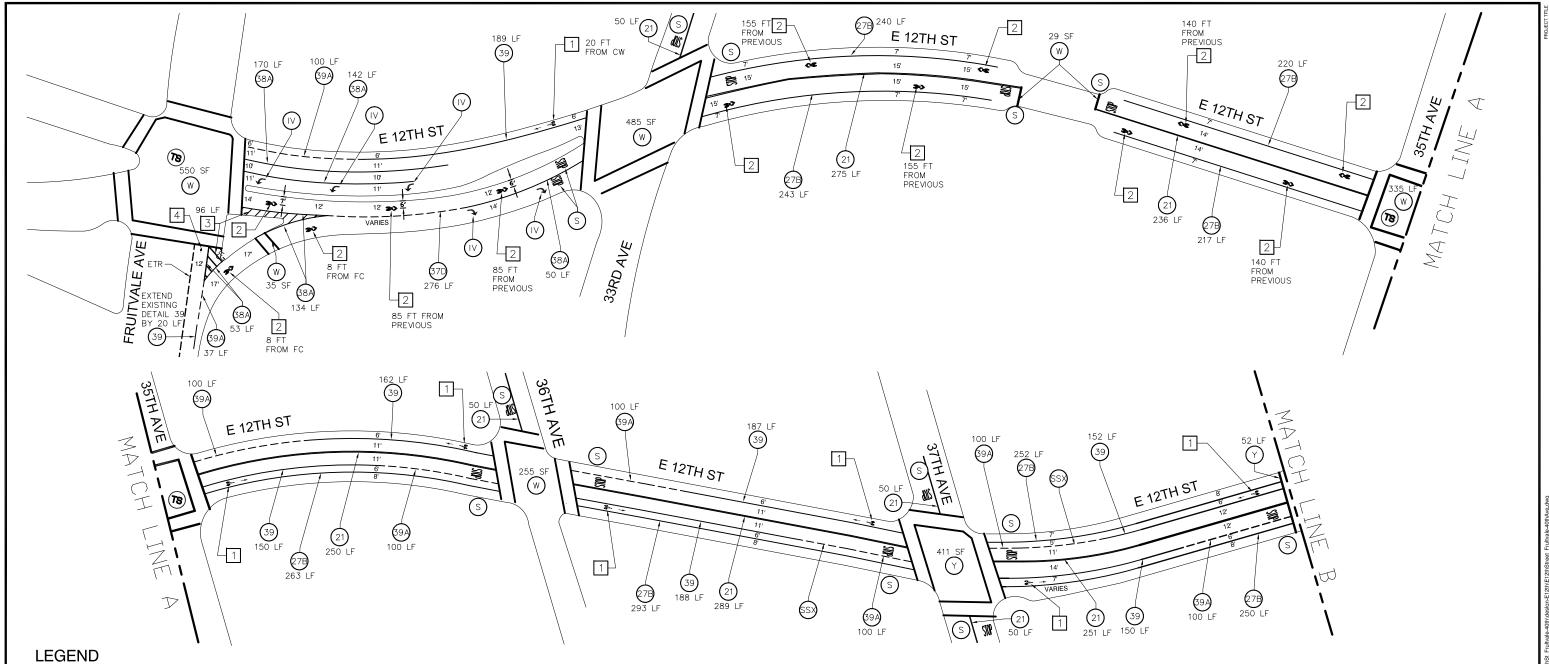
OPD CPTED Report Overview

CPTED Recommendation	Staff response
Move the lockers to the east side of the 1900 block of Broadway (either side of the BART stairwell) where there is better lighting and visibility.	The proposed locations were considered originally. Neither is large enough to accommodate locker access and egress. There are no other locations in this area with sufficient sidewalk space. The lockers are expressly to serve BART patrons accessing this station. There is more "natural surveillance" at the current location during peak crime times (typically early morning hours during long weekends).
Identify the lockers more clearly as City property.	OK. This information can be provided on a new, larger sign that is planned for the BART railing.
Replace perforated panels with solid panels so the lockers' contents cannot be seen.	BikeLink lockers are designed with the perforated panels to enhance safety; solid panels would allow illegal activity to occur inside the lockers. This concern outweighs the other.
Door #6 found open; doors should close automatically.	This locker has been repaired. More generally, eLockers are designed to allow for ease of access and use. Automatically closing doors would make it difficult to deal with personal belongings while accessing the locker and increase the chance of mistakenly locking one's access card inside.
Improve lighting (avoid yellow-orange which inhibits color recognition). Metal halide lights recommended.	Will pursue. May require an encroachment permit from BART, or for BART to undertake the project entirely.
Educate staff and the public to watch for and report illegal use or vandalism of lockers.	Will pursue.

City of Oakland Proposed Projects for FY10-11 Transportation Development Act (TDA) Article 3 funding (11-Mar-2010)

Proposed Projects	Description	Proposed TDA Funds	Total Project Cost
Ardley Ave/16th Ave bikeway (MacArthur Blvd to Embarcadero)	Design and construct bikeway striping and signage connecting the Bay Trail to the MacArthur Blvd bikeway	\$90,000	\$90,000
Bicycle actuation at traffic signals	Upgrade deficient traffic signals to detect bicyclists on key existing and proposed bikeways	\$100,000	\$100,000
Castlemont Stairs rehabilitation (MacArthur Blvd to Thermal St)	Replace missing handrails and repair damaged concrete stairs and landings	\$100,000	\$350,000
CityRacks VIII	Install bike parking citywide and fund demonstration project(s) of on-street bike parking	\$75,000	\$75,000
School Safety Improvements at Various Locations	Install low cost safety improvements (e.g., striping and signage) at locations determined by SR2S walk audits	\$50,000	\$50,000
	Total TDA Article 3 Reques	st \$415,000	

Projects Considered but Rejected	Rationale	Project Cost
81st Ave Library Sidewalk Improvements	Scope and cost TBD. Fundable through Pedestrian Streetscape CIP Program.	TBD
Bicycle Master Plan Update 2012	Pending development of scope of work. Candidate project for TDA Article 3 FY11-12 funding.	TBD
Bike to Work Day	TDA funds could be used for a bicycle safey education campaign in conjunction with Bike to Work Day	N/A
Bikeway design and implementation: various streets	Washington St (10th-Embarcadero), 4th Ave (E 18th-E 10th), 10th St (Oak-5th), E 7th (Kennedy-Fruitvale), Hollis/32nd (San Pablo-Emeryville-Mandela), Genoa/52nd (Adeline-West), E 15th St (1st-14th). Pending future funding.	\$100,000
Bikeway guide signage: Grizzly Peak/Skyline (Berkeley-Redwood Rd)	Upgrade bikeway guide signage to current standard. Pending future funding.	\$90,000
Bikeway guide signage: On-street Bay Trail: Emeryville to High St	Upgrade bikeway guide signage to current standard. Pending future funding.	\$60,000
Citywide Curb Ramp Program	9-Mar-10: Program has balances from TDA FY07-08 (\$132K), FY08-09 (\$50K) and FY09-10 (\$50K)	flexible
E12th Street bikeway (14th Ave to Fruitvale Ave) design and construction	Competitive for regional grant funding	\$125,000
Pedestrian countdown signal heads	Ongoing work funded by other sources	flexible
Pedestrian Master Plan Update 2012	Pending development of scope of work. Candidate project for TDA Article 3 FY11-12 funding.	TBD
Pedestrian-scale street lighting (at BART stations or other key locations)	No known projects with shortfalls. Larger funding sources may be more appropriate given \$14K cost per light.	N/A
Shattuck Ave bikeway (Telegraph Ave to Berkeley border)	Construct bikeway striping and signage. Pending future funding.	\$60,000
Streetscape projects match	Ongoing work funded by other sources	N/A
Waterfront Trail (Fruitvale Ave to High St)	Fully funded by Measure DD.	\$1.5M



- NO STRIPING CONSTRUCTION NOTE NUMBER
- DETAIL NUMBER PER CALTRANS STD PLANS
 Traffic lines as cardinal number
 Pavement markings as roman numeral
- TS TRAFFIC SIGNAL
- ETR EXISTING TO REMAIN
- BICYCLE LOOP DETECTOR

DETAIL LETTER

- Transverse markings as follows:
 CROSS WALK (SOLID 12" WHITE LINE)
- Y CROSS WALK (SOLID 12" YELLOW LINE)
- STOP (PAVEMENT MARKING)
- SLOW SCHOOL XING (PAVEMENT MARKING)

CONSTRUCTION NOTES (E. 12TH ST)

- Caltrans Bike Lane Symbol and Arrow.
 Install first symbol 20 feet from curb return measured from base of symbol.
- Caltrans Shared Roadway Bicycle Marking.
 Install 12 feet from face of curb, as measured from center
 of marking, unless otherwise noted.
 Install first symbol 20 feet from curb return, as measured
 from base of marking, unless otherwise noted.
- Install 8" white stripe 6' apart at 135 degree angle
- Bicycle loop detector symbol, centered in travel land and one foot back from crosswalk.
- 5 Install ladder type cross walk (yellow)

	ESTIMATE QUANTITY									
Items		Est. Quantity	EntIty	Bid Item; unit		Items	Est. Quantity	Entity	Bld Item; unit	
21	DETAIL 21	1501	LF	Striping; LF (2@4" width)	⊗	TYPE IV ARROW	5	EA	Marking; SF (15 SF/EA)	
279	DETAIL 27B	1978	LF	Striping; LF (4" width)	(N)	TYPE VII ARROW	0	EA	Marking; SF (27 SF/EA)	
379	DETAIL 37D	276	LF	Striping; LF (8" width)	(SSX)	SLOW SCHOOL XING marking	0	EA	Marking; SF (79 SF/EA)	
38A	DETAIL 38A	549	LF	Striping; LF (8" width)	S	STOP marking	14	EA	Marking; SF (22 SF/EA)	
39	DETAIL 39	1198	LF	Striping; LF (6" width)	1	BIKE LANE SYMBOL AND ARROW	7	EA	Marking; SF (14 SF/EA)	
39A	DETAIL 39A	737	LF	Striping; LF (6" width)	2	SHARROW SYMBOL	13	EA	Marking; SF (12 SF/EA)	
\odot	CROSS WALK (yellow 12")	463	SF	Striping; SF (12" width)	3	6" WHITE STRIPE	95	LF	Striping; LF (6" width)	
W	CROSS WALK / LIMIT LINE (white 12")	1689	SF	Striping; SF (12" width)	4	BICYCLE LOOP DETECTOR	1	EA	Marking; SF (2 SF/EA)	
					5	LADDER TYPE CROSS WALK (YELLOW)	0	SF	Striping; SF (12" width)	



E 12TH STREET
STRIPING PLAN
FRUITVALE TO 40TH AVE.



	CIVIL ENGINEER		No.	DATE	BY	REFERENCE	
١	RCE NO. TR2478 EXP. 06/30/1	<u> </u>					
)	CHECKED BY						
'	DESIGNED BY	\dashv					
	DESIGNED BY	AP					
	DRAWN BY	AP					

STRIPING PLAN

STRIPING PLAN

STRIPING PLAN

SCALE: 1"=40' SHEET NO. HOR: VERT: DATE: FEB 2010 1 0 of 2

RAWING NAME: \\pwafile1\pv LOT DATE: 03-05-10 LOTTED BY: bikepv

LEGEND

- NO STRIPING CONSTRUCTION NOTE NUMBER
- DETAIL NUMBER PER CALTRANS STD PLANS Traffic lines as cardinal number Pavement markings as roman numeral
- TRAFFIC SIGNAL
- EXISTING TO REMAIN
- BICYCLE LOOP DETECTOR

- Transverse markings as follows: W CROSS WALK (SOLID 12" WHITE LINE)
- CROSS WALK (SOLID 12" YELLOW LINE)
- (s) STOP (PAVEMENT MARKING)
- SLOW SCHOOL XING (PAVEMENT MARKING)

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- 3 Install 8" white stripe 6' apart at 135 degree angle
- 4 Bicycle loop detector symbol, centered in travel lane and one foot back from crosswalk.
- 5 Install ladder type cross walk (yellow)

(2) DETAIL 21 753 LF Striping; LF (2@4* width) (V) TYPE IV ARROW 0 EA Marking; SF (15 SF (279) DETAIL 27B 1044 LF Striping; LF (4* width) (W) TYPE VII ARROW 0 EA Marking; SF (27 SF (377) DETAIL 37D 0 LF Striping; LF (8* width) (S) SLOW SCHOOL XING marking 2 EA Marking; SF (79 SF (380) DETAIL 38A 0 LF Striping; LF (8* width) (S) STOP marking 5 EA Marking; SF (22 SF (390) DETAIL 39 535 LF Striping; LF (6* width) 1 BIKE LANE SYMBOL AND ARROW 4 EA Marking; SF (14 SF		ESTIMATE QUANTITY									
279 DETAIL 27B 1044 LF Striping; LF (4* width) (W) TYPE VII ARROW 0 EA Marking; SF (27 SF 579 DETAIL 37D 0 LF Striping; LF (8* width) (SS) SLOW SCHOOL XING marking 2 EA Marking; SF (79 SF 589 DETAIL 38A 0 LF Striping; LF (8* width) (S) STOP marking 5 EA Marking; SF (22 SF 39 DETAIL 39 535 LF Striping; LF (6* width) 1 BIKE LANE SYMBOL AND ARROW 4 EA Marking; SF (14 SF	Items		Est. Quantity	Entity	Bid Item; unit	Items		Est. Quantity	Entity	Bid Item; unit	
579DETAIL 37D0LFStriping; LF (8" width)SSSSLOW SCHOOL XING marking2EAMarking; SF (79 SF589DETAIL 38A0LFStriping; LF (8" width)\$STOP marking5EAMarking; SF (22 SF59DETAIL 39535LFStriping; LF (6" width)1BIKE LANE SYMBOL AND ARROW4EAMarking; SF (14 SF	21	DETAIL 21	753	LF	Striping; LF (2@4" width)	(v)	TYPE IV ARROW	0	EA	Marking; SF (15 SF/EA)	
(38) DETAIL 38A 0 LF Striping; LF (8" width) (\$) STOP marking 5 EA Marking; SF (22 SF) (39) DETAIL 39 535 LF Striping; LF (6" width) 1 BIKE LANE SYMBOL AND ARROW 4 EA Marking; SF (14 SF)	278	DETAIL 27B	1044	LF	Striping; LF (4" width)	(N)	TYPE VII ARROW	0	EA	Marking; SF (27 SF/EA)	
39 DETAIL 39 535 LF Striping; LF (6" width) 1 BIKE LANE SYMBOL AND ARROW 4 EA Marking; SF (14 SF	379	DETAIL 37D	0	LF	Striping; LF (8" width)	<u>\$33</u>	SLOW SCHOOL XING marking	2	EA	Marking; SF (79 SF/EA)	
	38A	DETAIL 38A	0	LF	Striping; LF (8" width)	<u>s</u>	STOP marking	5	EA	Marking; SF (22 SF/EA)	
(99) DETAIL 39A 350 LF Striping; LF (6* width) 2 SHARROW SYMBOL 1 EA Marking; SF (12 SF	39	DETAIL 39	535	LF	Striping; LF (6" width)	1	BIKE LANE SYMBOL AND ARROW	4	EA	Marking; SF (14 SF/EA)	
	39A	DETAIL 39A	350	LF	Striping; LF (6" width)	2	SHARROW SYMBOL	1	EA	Marking; SF (12 SF/EA)	
CROSS WALK (yellow 12") 59 SF Striping; SF (12" width) 3 6" WHITE STRIPE 0 LF Striping; LF (6" widen in the content of the con	\odot	CROSS WALK (yellow 12")	59	SF	Striping; SF (12" width)	3	6" WHITE STRIPE	0	LF	Striping; LF (6" width)	
(W) CROSS WALK / LIMIT LINE (white 12") 261 SF Striping; SF (12" width) 4 BICYCLE LOOP DETECTOR 0 EA Marking; SF (2 SF/	W	CROSS WALK / LIMIT LINE (white 12")	261	SF	Striping; SF (12" width)	4	BICYCLE LOOP DETECTOR	0	EA	Marking; SF (2 SF/EA)	
5 LADDER TYPE CROSS WALK (YELLOW) 343 SF Striping; SF (12" wi						5	LADDER TYPE CROSS WALK (YELLOW)	343	SF	Striping, SF (12" width)	



E 12TH STREET STRIPING PLAN FRUITVALE TO 40TH AVE.



CIVIL ENGINEER		No.	DATE	BY	REFERENCE	
RCE NO. TR2478	EXP. <u>06/30/10</u>					
CHECKED BY						
DECICNED BY						
DESIGNED BY	AP					
DRAWN BY	AP					

Z000000 FEDERAL AID PROJECT NO. HHHHH-C123456 STRIPING PLAN

SCALE: 1"=40' SHEET NO. HOR: VERT: DATE: FEB 2010

