

3621 Bell Avenue, Manhattan Beach, CA 90266 Phone: (310) 802-5350 Fax: (310) 802-5351 TDD: (310) 546-3501

April 19, 2016

7TH STREET – WALK STREET RECONSTRUCTION SURVEY

Dear Manhattan Beach Resident,

Thank you for your recent interest in the reconstruction of 7th Street walkway as part of the sewer main rehabilitation project in your neighborhood. The primary purpose of this Capital Improvement Project is the replacement and upgrade of the existing sewer main. However, the City has received your previous petition for improvements on the 300-500 block of 7th Street between Crest and Valley Drive, and understands the vested interest in improving your walk street community. Therefore, a community information meeting was held on March 22, 2016 between the City's Department of Public Works staff and 7th Street residents to discuss the project further.

NEXT STEPS

Viable Green Street stormwater runoff management improvements consistent with meeting Low Impact Development (LID) design requirements have been implemented in the currently programmed sanitary sewer rehabilitation project along 7th Street. However, in an effort to further accommodate recent concerns over the current walk street design, the City would like to invite all residents along the 300-500 block of 7th Street between Crest and Valley Drive to participate in a survey of alternative designs for the reconstruction of the walk street. This is a voluntary opportunity for the collective voice of the 7th Street walkway.

As a result of the community meeting the following alternatives are offered at this time:

- 1. Restore Existing Concrete Walk Street in Kind
- 2. Restore Existing Concrete Walk Street with Pervious Paver System
- 3. Restore Existing Concrete Walk Street with Infiltration Spot Drains
- 4. Restore Existing Concrete Walk Street with Slot Drain System



Date

City of Manhattan Beach Engineering Division

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At the community meeting, City staff was asked for our recommendation. As stated in the meeting, staff recommended proceeding with Alternative #2. However, this in no way is intended to influence your decision.

The City would like to come to a final decision by early May. Therefore, it is important that you complete and return the survey no later than **April 28, 2016**.

Thank you for your feedback. The City does appreciate your interest and participation in improving the community. If you have any further questions, please feel free to contact Mr. Gilbert Gamboa at 310-802-5356 and/or email at ggamboa@citymb.info.

Please mail completed survey to: Department of Public Works – Engineering Division Attn: Gilbert Gamboa 3621 Bell Ave, Manhattan Beach CA 90266 OR; email to ggamboa@citymb.info

7 th Street – WALK STREET RECONSTRUCTION SURVEY City of Manhattan Beach		
Owner Name: Situs Address:		
The following design alternatives are offered at this time for the reconstruction of 7 th Street walkway along the 300-500 block from Crest to Valley Drive:		Yes, I am in favor of Alternative #1 – Restore Existing Walk Street in Kind.
		Yes, I am in favor of Alternative #2 – Restore Existing Walk Street with Pervious Paver System.
		Yes, I am in favor of Alternative #3 – Restore Existing Walk Street with Infiltration Spot Drains.
		Yes, I am in favor of Alternative #4 – Restore Existing Walk Street with Slot Drain System.

Owner Printed Name

Owner Signature

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ALTERNATIVE #1 RESTORE IN KIND



RESTORE EXISTING CONCRETE IN KIND

Alternative No. 1 involves the full width reconstruction of the walk street in concrete. The walk street would be uniformly reconstructed in concrete with surface drainage utilizing the maximum slope achievable. This method has been standard practice for all walk streets and is the most feasible, economic and best practice improvement.



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ALTERNATIVE #1 – RESTORE IN KIND

PROS

- 1. Citywide standard practice
- 2. Consistent with the existing neighborhood walk streets
- 3. Uniform surface and appearance (even and flat)
- 4. Cost effective
- 5. Easy to construct
- 6. Standard materials readily available
- 7. Adjacent residential construction would replace concrete panels in kind.

CONS

- 1. No infiltration of dry weather runoff
- 2. Dry weather runoff would flow to center of the street
- 3. Minor long term cracking



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ALTERNATIVE #2 PERVIOUS PAVER INFILTRATION



PERVIOUS PAVER SYSTEM

Alternative No. 2 involves the recommended Green Infrastructure design that includes a Low Impact Development (LID) solution comprised of the installation of pervious high strength ceramic pavers allowing runoff to infiltrate and thereby, minimizing the impervious surface while lowering the stormwater runoff volume. Pervious pavers would be constructed on both the north and south sides of the walk street while the middle of the walk street will be uniformly reconstructed in concrete.



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ALTERNATIVE #2 – PERVIOUS PAVERS

PROS

- 1. Infiltration of stormwater and dry weather flow as a Green Street solution
- 2. Eliminates standing water
- 3. High strength durability (product made of recycled materials)
- 4. Easy to construct
- 5. Low intensity cleaning maintenance (periodic power washing, if needed)
- 6. Reduces contaminants
- 7. Good fit for pedestrian (walk) street application
- 8. ADA compliant
- 9. Smooth surface
- 10. Symmetrical design

CONS

- 1. Partial Clogging (long term infiltration will reduce by 30% without maintenance)
- 2. Inventory of additional material for long term maintenance and repair
- 3. Adjacent residential construction may require resetting of pavers
- 4. Paver color does not exactly match natural concrete
- 5. Approximately 2.5 times the cost of concrete walk street installation



(sample "grey" paver over new concrete)

Visit the City of Manhattan Beach web site at www.citymb.info



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ALTERNATIVE #3 INFILTRATION SPOT DRAINS



INFILTRATION SPOT DRAINS

Alternative No. 3 involves the full width reconstruction of the walk street in kind. The walk street would be uniformly reconstructed in concrete with a surface drainage flow line



down the center of the walkway and the addition of approximately 3 individual spot drains located at key intermittent locations along the proposed flow line. The drain inlets would be approximately 12 x 12 inches in size.



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ALTERNATIVE #3 – SPOT DRAINS

PROS

- 1. Consistent with standard practice of reconstructing walk street in concrete
- 2. Uniform surface and appearance (even and flat)
- 3. Infiltration as a Low Impact Development (LID) solution
- 4. Cost effective
- 5. Standard materials readily available

CONS

- 1. Dry weather runoff would flow to center of the street
- 2. Frequent drain clogging
- 3. Stagnant water in drain (if completely clogged)
- 4. Increased, high intensity maintenance (frequency, grate removal, access below)
- 5. Grate removal by others
- 6. Grate inlet opening size
- 7. Aesthetic appearance of square grate inlets on surface



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ALTERNATIVE #4 SLOT DRAINS

WALKSTREET SECTION



in the middle and surface drainage away from the centerline of the walk street toward the properties on each side of the walkway. The addition of a slotted drain line would be located next to private wall or fence line locations along the entire length of the street.



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ALTERNATIVE #4 – SLOT DRAINS

PROS

- 1. Eliminates dry weather runoff that is intercepted by drains
- 2. Minimal visual impact
- 3. Color can more closely match natural concrete

CONS

- 1. Slot drains are typically used to address drainage issues. The new walk street will not have a drainage issue, so slot drains are not the proper application at this location.
- 2. Requires construction of a permanent underground connection to City's existing storm drain system or installation of a new infiltration system at Ingleside Drive intersection.
- 3. Minimal inlet opening size has high propensity to collect debris or become clogged.
- 4. Frequent maintenance using high water pressure is required to clear debris from over the inlet and inside the drain pipe.
- 5. High pressure stream (jetting) can over spray dirty water out of slot openings and soil adjacent property walls and fence lines.
- 6. Clean out access boxes are required to facilitate regular maintenance and cleaning.
- 7. Dirt and debris will collect inside drain pipe and promote problem issues (i.e. stagnant water, smells due to pet urine, etc...).
- 8. More than 3 times the cost of concrete walk street placement.