



## **AGENDA STAFF REPORT**

DATE: June 10, 2013

TO: Honorable Mayor and City Council

THRU: Jill R. Ingram, City Manager

FROM: Sean P. Crumby P.E., Director of Public Works

SUBJECT: **AUTHORIZING AN APPLICATION FOR THE ENVIRONMENTAL CLEANUP PROGRAM TIER 1 2013 GRANT**

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### **SUMMARY OF REQUEST:**

It is requested that the City Council adopt Resolution No. 6379:

1. Authorizing an application for grant funds under the Environmental Cleanup Program Tier 1 2013; and
2. Authorizing the Director of Public Works to sign a letter agreement and documents with the Orange County Transportation Authority (OCTA) required for transportation related projects.

### **BACKGROUND AND ANALYSIS:**

On July 24, 2006, the Orange County Transportation Authority's (OCTA) Environmental Cleanup Program was approved under Orange County Measure M2 to help protect Orange County beaches and waterways.

The Environmental Cleanup Tier 1 Grant Program (ECP Tier 1) provides grant funds to local agencies; used to improve overall water quality in Orange County from transportation-generated pollution. Projects eligible for ECP Tier 1 2013 include equipment purchases and upgrades to existing catch basins and related best management practices such as screens, filters, inserts and other street-scale low flow diversion projects.

Based upon the specific criteria, City staff submitted an application for installing or replacing (old/damaged) 54 filter inserts (DrainPacs) and 13 automatic retractable screens at various citywide catch basin locations. These locations have been identified as being potential contributors of litter, debris, and other pollutants which could enter into the City's storm drain system and drain to the ocean. Installing the DrainPacs and the automatic retractable screens capture and treat urban runoff before entering the municipal storm drain system.

The DrainPacs are installed for its effectiveness to improve water quality and the City's current experience maintaining and cleaning the existing DrainPacs throughout the City. Additionally, the automatic retractable screens are installed on the face of the catch basin as a cover to capture larger trash and opens automatically during high flow conditions to prevent flooding.

The ECP Tier 1 2013 allows local agencies to supplement the County of Orange's Vendor Master Agreements, inclusive and competitive pricing for equipment and installation. The vendors that were selected through the County's request include Bio Clean Environmental Services, Inc., and United Storm Water, Inc. Staff recommends selecting United Storm Water, Inc. because of its competitive pricing, extensive experience and serving the City for over five years installing the City's exiting DrainPacs.

The City was successful in securing grants funds in the amount of \$10,700 for last year's ECP Tier 1 2012 call for projects. The project consisted of installing DrainPacs at the catch basins that had the oldest and most worn out catch basins filters throughout the City. In conducting the surveys to determine which were most deserving of replacement last year a list of filters was developed for this year's project. The catch basins are spread out throughout the entire City.

In order to receive funds, local agencies are required to execute agreements and documents relating to transportation projects through OCTA. Typical agreements and documents include, but are not limited to, rules and policies on how to utilize and administer the funds.

As an example, the attached letter agreement No. 2 is required to be executed between the City of Seal Beach and OCTA amending the Master Funding Agreement project list, which incorporates the Seal Beach Traffic Management Center (TMC) Relocation Project where the City received \$586,720 and Filter Inserts Installation Project where the City received \$10,700 from OCTA. In order to receive the funds, the City must execute the attached letter agreement.

### **ENVIRONMENTAL IMPACT:**

This project complies with all requirements of the California Environmental Quality Act (CEQA) and is categorically exempt under section 15301.

### **LEGAL ANALYSIS:**

No legal analysis is required for this item.

### **FINANCIAL IMPACT:**

The ECP Tier 1 2013 requires a 25% minimum local match. The project total cost is \$51,000, the City's contribution is \$13,000. Funds are not included within the

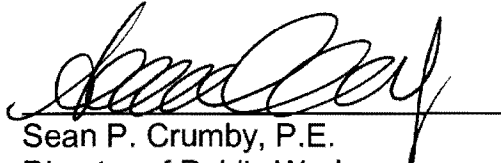
FY 13-14 budget. Funding options will be presented before proceeding with the project, if the City is awarded grant funds from the ECP Tier 1 2013.

**RECOMMENDATION:**


It is requested that the City Council adopt Resolution No. 6379:

1. Authorizing an application for grant funds under the Environmental Cleanup Program Tier 1 2013; and
2. Authorizing the Public Works Director to sign a letter agreement and documents with the Orange County Transportation Authority (OCTA) required for transportation related projects.

SUBMITTED BY:

  
Sean P. Crumby, P.E.  
Director of Public Works

NOTED AND APPROVED:

  
Jill R. Ingram, City Manager

Prepared by: Cesar Rangel, Assistant Engineer

Attachments:

- A. Resolution No. 6379
- B. ECP 2013 Tier1 Grant Application
- C. Letter Agreement No. 2

**RESOLUTION NUMBER 6379**

**A RESOLUTION OF THE SEAL BEACH CITY COUNCIL  
AUTHORIZING AN APPLICATION FOR FUNDS FOR THE  
ENVIRONMENTAL CLEANUP, TIER 1 GRANT PROGRAM  
UNDER ORANGE COUNTY LOCAL TRANSPORTATION  
ORDINANCE NO. 3 FOR THE FILTER INSERTS AND SCREENS  
INSTALLATION PROJECT**

WHEREAS, Orange County Local Transportation Ordinance No.3, dated July 24, 2006, and is known and cited as the Renewed Measure M Transportation Ordinance and Investment Plan makes funds available through the Environmental Cleanup Program to help protect Orange County beaches and waterways from transportation-generated pollution (urban runoff) and improve overall water quality.

WHEREAS, the Environmental Cleanup, Tier 1 Grant Program consists of funding purchases and installation to catch basins with Best Management Practices, such as screens, filters, inserts, and other "street-scale" low flow diversion projects.

WHEREAS, OCTA has established the procedures and criteria for reviewing proposals; and

WHEREAS, City of Seal Beach possesses authority to nominate water quality improvement projects that have a transportation pollution nexus to finance and construct the proposed project; and

WHEREAS, by formal action the City Council authorizes the nomination of Filter Inserts Installation Project, including all understanding and assurances contained therein, and authorizes the person identified as the official representative of the City of Seal Beach to act in connection with the nomination and to provide such additional information as may be required; and

WHEREAS, the City of Seal Beach will maintain and operate the equipment acquired and installed; and

WHEREAS, the City of Seal Beach will give OCTA's representatives access to and the right to examine all records, books, papers or documents related to the funded Tier 1 Grant Project; and

WHEREAS, the City of Seal Beach will cause work on the project to be commenced within a reasonable time after receipt of notification from OCTA and that the project will be carried to completion with reasonable diligence; and

WHEREAS, the City of Seal Beach will comply where applicable with provisions of the California Environmental Quality Act, the National Environmental Policy Act, the American with Disabilities Act, and any other federal, state, and/or local laws, rules and/or regulations; and

WHEREAS, the City of Seal Beach desires to delegate authorization to execute agreements and documents thereto with the Orange County Transportation Authority to the Public Works Director.

NOW, THEREFORE, THE SEAL BEACH CITY COUNCIL DOES HEREBY RESOLVE:

Section 1. The City Council hereby authorizes the City Manager as the official representative of the City of Seal Beach to accept funds for the Environmental Cleanup, Tier 1 Grant Program for the Filter Inserts and Screens Installation Project; and,

Resolution Number 6379

Section 2. The City Council agrees to fund its share of the project costs and any additional costs over the identified programmed amount.

Section 3. Authorize the Public Works Director of the City of Seal Beach to approve, execute and sign a Letter Agreement and Documents required to receive funding from Orange County Transportation Authority for transportation related projects.

PASSED, APPROVED and ADOPTED by the Seal Beach City Council at a regular meeting held on the 10th day of June, 2013 by the following vote:

AYES: Council Members \_\_\_\_\_

NOES: Council Members \_\_\_\_\_

ABSENT: Council Members \_\_\_\_\_

ABSTAIN: Council Members \_\_\_\_\_

\_\_\_\_\_  
Mayor

ATTEST:

\_\_\_\_\_  
City Clerk

STATE OF CALIFORNIA }  
COUNTY OF ORANGE } SS  
CITY OF SEAL BEACH }

I, Linda Devine, City Clerk of the City of Seal Beach, do hereby certify that the foregoing resolution is the original copy of Resolution Number 6379 on file in the office of the City Clerk, passed, approved, and adopted by the City Council at a regular meeting held on the 10th day of June, 2013.

\_\_\_\_\_  
City Clerk

# CITY OF SEAL BEACH

## M2 Environment Cleanup Program Tier 1 2013 Grant Application

May 17, 2013



Dan Phu  
Orange County Transportation Authority#  
600 South Main Street  
Orange, CA 92663

# City of Seal Beach



CITY HALL 211 EIGHTH STREET  
SEAL BEACH, CALIFORNIA 90740  
(562) 431-2527 • [www.sealbeachca.gov](http://www.sealbeachca.gov)

May 17, 2013

Dan Phu  
Orange County Transportation Authority  
600 South Main Street  
Orange, CA 92868

RE: M2 Environmental Cleanup Program Grant Application for the Filter Inserts &  
Screens Installation Project in the City of Seal Beach

Dear Mr. Phu,

Enclosed are three copies and one unbound original of the subject M2 Environmental Cleanup Program Grant Application for the Filter Inserts & Screens Installation Project in the City of Seal Beach. Also, attached is a CD with an electronic file of the Grant Application.

If you have any questions, please feel free to contact me at (562) 431-2527 extension 1328.

Sincerely,

Cesar Rangel  
Assistant Engineer  
City of Seal Beach

Cc: David Spitz, P.E., Associate Engineer, City of Seal Beach

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**Orange County Transportation Authority  
M2 Environmental Cleanup Program (Project X)**

**Part One: General Project Information (Non-scored)**

**Project Title:** Filter Inserts & Screens Installation Project

<b>Lead Agency Information</b> (Project Administrator responsible for day-to-day project implementation) Name/Title: David Spitz, Associate Engineer Address: 211 8 <sup>th</sup> Street, Seal Beach, CA 90740-6305 Phone: 562-431-2527 ext. 1331 Email: dspitz@sealbeachca.gov	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">FUNDS REQUESTED</td> <td style="width: 10%; text-align: right;">\$ -</td> <td style="width: 30%; text-align: right;">\$38,000.00</td> </tr> <tr> <td>LOCAL MATCH</td> <td style="text-align: right;">\$ -</td> <td style="text-align: right;">\$13,000.00</td> </tr> <tr> <td>TOTAL PROJECT COST</td> <td style="text-align: right;">\$ -</td> <td style="text-align: right;">\$51,000.00</td> </tr> </table> <p style="margin-top: 10px;"> <input type="checkbox"/> Project is a stand alone project.  <input type="checkbox"/> Project is part of a larger project.            Total Project Cost (if part of a larger project)         </p>	FUNDS REQUESTED	\$ -	\$38,000.00	LOCAL MATCH	\$ -	\$13,000.00	TOTAL PROJECT COST	\$ -	\$51,000.00
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TOTAL PROJECT COST	\$ -	\$51,000.00								
<b>Joint Applicant or Third Party:</b> Name/Title: N/A Agency: Address: Phone: Email:	<b>Joint Applicant or Third Party:</b> Name/Title: N/A Agency: Address: Phone: Email:									

**i. Is this proposed project designated as the eligible agency's highest priority for funding?**

Yes       No       

**ii. Proposed Schedule:** Provide an estimate of the project's proposed schedule:

	Start Date	Completion Date
Design and Permitting (if applicable)	N/A	N/A
Award of Contract	8/26/13	9/27/13
Construction	12/2/13	1/31/14

## Part One: General Project Information (continued)

### iii. Project Management

Provide an assessment of the management capabilities of the Lead Agency. At a minimum, include an organization chart (include as attachment), showing key project individuals who will be responsible for ensuring that the project is completed and long-term suitability is obtained.

The Public Works Department at the City of Seal Beach will serve as the lead for this Project. The administration and grant project management will be overseen by David Spitz, Associate Engineer, Public Works Department, who is also the City's NPDES coordinator. The City's Maintenance Department, overseen by Luis Estevez, Deputy Director of Maintenance and Utilities, inspects and cleans all the municipal catch basins twice a year during Spring and Fall. Additionally, the City's Maintenance Service Supervisor, Darren Kelly, who has overseen installation of DrainPacs on over 200 catch basins, will manage the work performed by United Storm Water, Inc. See *Attachment A* (Organizational Chart)

### iv. Integrated Regional Water Management Plan (IRWMP)

Is the proposed project identified in an existing IRWMP? Yes \_\_\_\_\_ No ✓

If yes, provide further information on why it was included in the IRWMP.

Not applicable.

### v. Description and Scope of Proposed Project

Include a brief description of the proposed project, including why the project is important for controlling transportation-related pollutants to a watershed(s).

The City of Seal Beach is a residential beach community with a population of 26,010 and is located along the California coastline, North Orange County Watershed Area. The Old Town portion of Seal Beach is known to attract visitors year-round to the beach, pier, shopping and dining on Main Street, and events such as the Seal Beach 5K/10K Marathon and the Annual Classic Car Show. As a result, these locations are a destination for hundreds of tourists and residents at a time. There is also an elementary school located in the area where students, teachers, and parents constantly occupy. Since the streets are continuously populated with people and automobiles, the potential exists for pollutants such as paper, plastic, dog litter, and fluids from vehicles. These pollutants become part of the urban runoff and can make its way into the storm drain system. According to the California State Water Resources Control Board, trash has had a serious

impact on the beneficial uses of California's coastal shorelines. In their draft policy on trash control, they wrote that one of the primary transport mechanisms for trash into the waters of the state is the storm drain system. Deposited trash throughout the watershed is transported during and after rain events to water bodies via storm drains. Litter and trash that gets caught in the storm drain system has a significant impact on the watersheds. Not only does it heavily affect the residents and visitors, but it can also be harmful to the habitat of aquatic life. It is probable for animals to become entangled in plastic and choke on material floating around in the ocean. Therefore, it is important to make sure that the storm drain systems effectively screen pollution from entering the ocean and prevent harm to both humans and aquatic life.

The City of Seal Beach has storm drain systems that consist of two-hundred and seventeen (217) catch basins ranging from three (3) feet to twenty (21) feet in width, all within the City's right-of-way. Currently, 95% of the City's catch basins have DrainPacs installed by United Storm Water Inc.

The City of Seal Beach therefore proposes a Filter Insert (DrainPacs) and Screen Installation (Automatic Retractable Screens) (Project) to install 54 DrainPacs and 13 Automatic Retractable Screens (ARS) at various citywide catch basin locations. These locations that require installations are ones in which the DrainPacs are missing or replacing old damaged filter. Currently, there is only one (1) ARS unit installed in the City. The installation of these devices will be performed by the United Storm Water, Inc. The City believes these catch DrainPacs and ARS are effective BMP in capturing trash and debris, and will significantly decrease the amount of pollutants emptying out into the ocean. The City has planned for the installations of DrainPacs and ARS to occur between December 2013 and January 2014. See *Attachment B* (Project Locations)

## Part Two: Detailed Project Information (Scored)

1. Identify the priority areas of this project. Describe the need for the selected BMP(s). (5 points)

This project will serve the City of Seal Beach citywide at various locations where DrainPacs and Automatic Retractable Screens (ARS) are missing or replacing. The proposed DrainPacs and ARS will be installed on arterials, collectors, and local roads, which are comprised of industrial, commercial, and residential developments including food service establishments, automotive repair facilities, public school and parks. These locations have been identified as being potential contributors of litter, debris, and other pollutants which have the potential to enter the City's storm drain system. Installing DrainPacs and ARS will capture and treat urban runoff before entering the municipal storm drain system. The reasons as to why DrainPacs and ARS have been selected are based on their simplicity to be installed, easy maintenance, effective means to improve water quality. These devices capture trash and debris through a filtration process that prevents trash from entering by a mesh or metal strainer. The ARS is a retractable screen cover that is placed on the curb of a catch basin. As water flows, it captures larger trash and opens automatically during high flow conditions to prevent flooding. Since the ARS remains locked during, trash is easily removed using routine street sweeping. The DrainPacs on the other hand are installed within the catch basin itself. Since these DrainPacs are installed inside, any additional suspended solids or debris are caught through this net-like contraption. Both of these devices work hand in hand because as one "screens" trash entering the storm drain system, the other one "filters" the remaining debris. Therefore, both work efficiently and effectively to prevent trash from flowing into the storm drains. Additionally, the City has had prior experience maintaining and cleaning these devices with grant results.

2. List the pollutant(s) which would be addressed by the proposed project and the source(s) generating the pollutants. (1 point per pollutant, up to 10 points)

The City's major sources of storm water pollutants are suspended solids, vegetation, oil, and litter. They are unsightly and repel visitors from the beach. Additionally, they are harmful to the environment, not only destroying habitat but affecting the aquatic life forms it contacts. Animals become entangled in trash such as plastic six-pack rings. Others accidentally consume trash such as plastic bags and choke on the materials that travel around via storm drains. These pollutants are primarily generated from pedestrians, such as around schools and fast-food businesses and careless disposal practices. Also arterial

and collector streets of high traffic volumes generate large amounts of brake dust and oil, which wash into catch basins.

- 3. List the waterway(s) associated with the project, including applicable 303(d) listings, and provide a project map depicting the waterway(s). (2 points for listing waterways(s) plus 2 points per 303 (d) impairment addressed by the proposed BMP(s) up to 10 points total)**

The Project encompasses citywide installation of DrainPacs and Automatic Retractable Screens (ARS), see *Attachment B*. As shown in *Attachment C*, the City of Seal Beach drains into two local watersheds. The Anaheim Bay drains a watershed of approximately 402 acres, covering one-third of the City's drainage area. Several pollutants such as trash, floating litter, and nickel have been recurring problems in the bay area. Anaheim Bay is on the 303(d)-listing as impaired for dieldrin, nickel, polychlorinated biphenyls, and toxicity. Installing new and replacing outdated catch basin inserts is proposed for this area. The DrainPac and ARS are capable of retaining a number of these pollutants. The easterly two-thirds of the City falls within San Gabriel-Coyote Creek, draining a watershed of approximately 165 miles, 85.5 square miles of which lie in North Orange County, and the remainder in Los Angeles County. Although it's not listed as impaired per the Region 8 (Santa Ana) 303d lists it is listed as impaired by the Los Angeles Regional Board. There has been indication of many exceedances of copper, lead, and zinc. Again, the DrainPac and ARS are tremendously capable of retaining a quantity of these pollutants.

- 4. Provide detailed manufacturer's information for the proposed BMP(s) including how the equipment would operate and the estimated design life of the project. How is this determined? (5 points)**

The product's design life is estimated by United Storm Water, Inc. for ten (10) years. The equipment drawings and specifications are referenced and discussed in *Attachment D*.

**5. Provide relevant information on performance efficiency and/or effectiveness including pollutant capture, storage capacity, flow capacity, etc. (up to 5 points)**

For the Project, the City of Seal Beach proposes to install new DrainPacs and Automatic Retractable Screens (ARS) with the newest generation from United Storm Water, Inc. The DrainPacs and ARS prohibit most trash and debris from entering the municipal storm drain system without affecting water flow conditions helping to prevent flooding. These multi-layer filtration devices are installed in a manner that does not interfere with lateral line water flow. During periods of increased or heavy water flow, the DrainPac has a PVC mesh for overflow/by-pass. The ARS has a mechanism in which the gate opens automatically and remains open during heavy water flow. After a storm subsides, the gate closes and locks. When the gate of the ARS locks, it is able to collect litter and other debris. The DrainPacs and ARS are capable of retaining 97% of total suspended solids and effectively prevent litter, debris, heavy metals, and other material from entering the City's storm drain system. Over the years, approximately 7 tons of debris/pollutants are removed annually from filters currently installed in the City's catch basins. By adding inserts to the rest of the City's catch basins, the City can conceivably remove an additional one to two more tons of pollutants annually that currently enters into our waterways and ocean.

## **Part Two: Detailed Project Information (continued)**

- 6. Explain how the proposed BMP(s) meet(s) the jurisdiction's needs compared to other equipment (or BMPs). (5 points)**

The City of Seal Beach has already implemented curb inlet DrainPacs in over 200 catch basins. The City has evaluated and identified DrainPacs as the most effective device that captures and treats urban runoff prior to entering the City's storm drain system.

- 7. Include a detailed work plan demonstrating a definite implementation period. (5 points)**

The Project is ready to proceed immediately upon finalization of grant documentation and approval. No permits are necessary, as the Project is essentially adding Drainpacs and ARS to already-developed infrastructure. The City owns and maintains all catch basins citywide, therefore there are no potential conflicts with other utility owners. If awarded funding for the Project is approved, the City will utilize the County's Vendor Master Agreement, which will need to be permitted by the City Council to proceed with procurement.

- 8. Provide a 5-year operations and maintenance (O&M) plan for the lifespan of the proposed project (i.e., schedule of inspections, cleaning and disposal of pollutants, repairs, etc.). (5 points)**

After the Project has been completed, the City will resume with its regular street-sweeping, inspection, and cleaning schedule. The street sweeping will remove any trash, organic debris, and/or particulates that accumulate in the gutters in front of each catch basin. For those catch basins that at the moment ARS units will not be installed, a routine of adding and removing screens will occur annually in two phases: first in the Spring where the City Staff will install catch basin screens on over 95% of the catch basins and second in the Fall, where the City Staff will remove the screens to prevent flooding. Additionally, the current Santa Ana Regional Water Quality Control Board requires catch basins to be cleaned once per year, however, City Staff inspects and cleans all City catch basins twice a year.

**9. Describe the anticipated benefits to water quality and any additional benefits that would result from the proposed BMP(s). (5 points)**

Implementing the proposed Project as described above will result in the following benefits:

- Gross pollutants will be significantly reduced through the installation of the catch basin DrainPacs and ARS . Currently, in unprotected catch basins, silt, debris, plastic, trash, and other unsuitable material enter into the City's catch basins and flow into the Pacific Ocean polluting coastal waters.
- The DrainPacs and ARS will immensely reduce the amount of heavy metals that are currently reaching ocean waters. These heavy metals are the result of automotive usage and careless disposal practices.

If approved, this Project will have a positive impact on the residents and visitors of Seal Beach. Aquatic life and animal habitats will also be protected and preserved through this Project by decreasing the pollutants that enter the ocean and wash up on the shore. Improving the water quality will also have benefits to the local and regional economy by ensuring that beaches are clean and ocean water is safe for both swimmers and beach-goers.

**10. Is this project the highest priority for your agency? Yes \_\_\_\_\_ No ✓**  
**(15 points will be given to the agency's highest priority project)**

**11. What is the methodology for measuring pollutant(s) reduction(s) before and after BMP(s) is/are implemented? (5 points)**

The City already has at least six years of records detailing the volume of trash, organic debris, and particulates that have been removed. This includes catch basins with and without DrainPacs and ARS. Quantification is conducted during each cleaning process accomplished by using a vacuum truck, which then the solids are weighted (tons). The pre-and post-debris volumes are analyzed to determine the total debris volume reduction.



- 12. How will the effectiveness of the project be monitored and assessed? How frequently will monitoring and assessment occur? (5 points)**

The pre- and post-debris volume data will be compiled and compared to determine the total annual debris reduction and the average reduction per catch basin. Currently, the City inspects and cleans all municipal catch basins twice a year, during Spring and Fall. This standard will continue to be implemented with the newly installed DrainPacs and ARS.

- 13. It is the primary goal of the Tier 1 program to remove the more visible forms of pollutants such as litter and debris. Projects which address this goal will receive up to 10 points.**

(Points will be determined by the evaluation committee; no response required.)

- 14. BONUS: How many Tier 1 type or similar BMPs are currently installed within the street right of way? Do not include projects/BMPs funded with Tier 1 M2 ECP funds. (Up to 5 bonus points may be awarded to jurisdictions that have previously funded the implementation of structural BMPs – 1 point per BMP implemented)**

Currently the City has over 200 DrainPacs installed, which is over 95% of the municipal catch basins with installed DrainPacs. Additionally, the City manually installs catch basin screens during the Spring and removes the devices during the Fall to prevent flooding.

- 15. BONUS: Is the agency proposing matching funds (cash) exceeding the minimum of 25%? If yes, at what percentage amount? (0.5 point for each 5% over 25%, up to 5 points maximum)**

No.

## Part Three: Funding

<b>Project Title:</b> <u>Filter Inserts and Screens Installation Project</u> <b>Contact:</b> <u>David Spitz, Associate Engineer</u> <b>Agency:</b> <u>City of Seal Beach</u>	<b>Phone:</b> <u>(562) 431-2527 ext. 1331</u> <b>Email:</b> <u>dspitz@sealbeachca.gov</u>
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### Budget Summary

*The following table for the proposed project shall be completed with a reasonable estimate of cost for all work items.*

Total Project Cost (TPC)	\$ 51,000.00
Total Amount of Funding Requested (not to exceed \$200,000)	\$ 38,000.00
Total Contractual Service Costs for Project	\$ 0
Total Contractual Service Costs for Requested Funding	\$ 0
Total Capital Costs for Project for Requested Funding	\$ 51,000.00
Direct Project Administration, Inspection, Evaluation Costs	\$ 0
Total Project Costs of Supplies, Materials and Equipment (SM&E)	\$ included in contractual service cost
Total Project Costs of SM&E for Requested Funding	\$ N/A

### Local Funding Share Detail

Cash Contribution	\$ 13,000	<b>Total Project Cost</b>	\$ 51,000	
In-Kind Services *	_____			
Other Grants	_____			
<b>Total Funding Share</b>	\$ 13,000	<b>% of TPC</b>	25.5	

### Source(s) of Match

1. **\*In-Kind Services:** Salaries and benefits for employees who will perform work on the proposed project are eligible as a matching requirement. Please provide details on how in-kind services are calculated. Identify the Fiscal Year(s) of In-Kind expenditure and amount for each year. Use no acronyms.

Not applicable.

- 2. Other Grants - Eligible applicants may use grants awarded by other agencies (non-ECP grants) to meet all or part of the matching funds requirements. The non-ECP grant must be dedicated to the project in which M2 funding is requested to receive credit for the full amount of the grant. For non-ECP grants that cover multiple projects, only that portion of the grant specific to the project will be allowed credit. Please list the name and amount of any respective non-ECP grants that are proposed as a match.**

Not applicable.

## **PART TWO: FUNDING (continued)**

Item #	Description	Unit	Quantity	Unit Price	Amount
1	Catch Basin Inserts (length 4' or less)	3'	4	\$253.10	\$1,012.40
2	Catch Basin Inserts (length 4' or less)	3.5'	9	\$253.10	\$2,277.90
3	Catch Basin Inserts (length 4' or less)	4'	9	\$253.10	\$2,277.90
4	Catch Basin Inserts (length 4' or less)	4.1'	4	\$330.17	\$1,320.68
5	Catch Basin Inserts (length 5'-10')	5'	2	\$330.17	\$660.34
6	Catch Basin Inserts (length 5'-10')	6'	7	\$330.17	\$2,311.19
7	Catch Basin Inserts (length 5'-10')	6.1'	2	\$496.13	\$992.26
8	Catch Basin Inserts (length 5'-10')	7'	6	\$496.13	\$2,976.78
9	Catch Basin Inserts (length 5'-10')	8'	2	\$496.13	\$992.26
10	Catch Basin Inserts (length 5'-10')	10'	1	\$608.51	\$608.51
11	Catch Basin Inserts (length 11'-21')	12'	5	\$608.51	\$3,042.55
12	Catch Basin Inserts (length 11'-21')	13'	1	\$608.51	\$608.51
13	Catch Basin Inserts (length 11'-21')	14'	1	\$608.51	\$608.51
14	Catch Basin Inserts (length 11'-21')	21'	1	\$869.56	\$869.56
15	ARS + Catch Basin Inserts	3'	1	\$845.62	\$845.62
16	ARS + Catch Basin Inserts	3.5'	2	\$845.62	\$1,691.24
17	ARS + Catch Basin Inserts	7'	1	\$1,631.02	\$1,631.02
18	ARS + Catch Basin Inserts	14'	7	\$2,693.79	\$18,856.53
19	ARS + Catch Basin Inserts	21'	2	\$3,530.86	\$7,061.72
Subtotal:					\$50,645
<b><u>Estimated Installation Costs</u></b>					
Item #	Description	Unit	Quantity	Unit Price	Amount
				\$ -	\$ -
				\$ -	\$ -
				\$ -	\$ -
Subtotal:					\$0
<b><u>Other Costs</u></b>					
Item #	Description	Unit	Quantity	Unit Price	Amount
				\$ -	\$ -
Subtotal:					
<b>TOTAL PROJECT COST</b>					<b>\$50,645</b>

## **Part Four: Tier 1 Grant Program Resolution**

*SAMPLE AGENCY RESOLUTION REQUESTING FUNDS FOR PROPOSED PROJECT*

**RESOLUTION NUMBER \_\_\_\_\_**

### **A RESOLUTION OF THE SEAL BEACH CITY COUNCIL AUTHORIZING AN APPLICATION FOR FUNDS FOR THE ENVIRONMENTAL CLEANUP, TIER 1 GRANT PROGRAM UNDER ORANGE COUNTY LOCAL TRANSPORTATION ORDINANCE NO. 3 FOR THE FILTER INSERTS AND SCREENS INSTALLATION PROJECT**

WHEREAS, Orange County Local Transportation Ordinance No.3, dated July 24, 2006, and is known and cited as the Renewed Measure M Transportation Ordinance and Investment Plan makes funds available through the Environmental Cleanup Program to help protect Orange County beaches and waterways from transportation-generated pollution (urban runoff) and improve overall water quality.

WHEREAS, the Environmental Cleanup, Tier 1 Grant Program consists of funding purchases and installation to catch basins with Best Management Practices, such as screens, filters, inserts, and other "street-scale" low flow diversion projects.

WHEREAS, OCTA has established the procedures and criteria for reviewing proposals; and

WHEREAS, City of Seal Beach possesses authority to nominate water quality improvement projects that have a transportation pollution nexus to finance and construct the proposed project; and

WHEREAS, by formal action the City Council authorizes the nomination of Filter Inserts Installation Project, including all understanding and assurances contained therein, and authorizes the person identified as the official representative of the City of Seal Beach to act in connection with the nomination and to provide such additional information as may be required; and

WHEREAS, the City of Seal Beach will maintain and operate the equipment acquired and installed; and

WHEREAS, the City of Seal Beach will give OCTA's representatives access to and the right to examine all records, books, papers or documents related to the funded Tier 1 Grant Project; and

WHEREAS, the City of Seal Beach will cause work on the project to be commenced within a reasonable time after receipt of notification from OCTA and that the project will be carried to completion with reasonable diligence; and

WHEREAS, the City of Seal Beach will comply where applicable with provisions of the California Environmental Quality Act, the National Environmental Policy Act, the American with Disabilities Act, and any other federal, state, and/or local laws, rules and/or regulations;

NOW, THEREFORE, THE SEAL BEACH CITY COUNCIL DOES HEREBY RESOLVE:

- Section 1. The City Council hereby authorizes the City Manager as the official representative of the City of Seal Beach to accept funds for the Environmental Cleanup, Tier 1 Grant Program for the Filter Inserts and Screens Installation Project; and,
- Section 2. The City Council agrees to fund its share of the project costs and any additional costs over the identified programmed amount.
- Section 3. The City Council hereby awards a contract to United Storm Water, Inc. for the Project in the amount of \$xx,xxx
- Section 4. The City Council hereby authorizes and directs the City Manager to execute the contract on behalf of the City.

PASSED, APPROVED AND ADOPTED by the Seal Beach City Council at a regular meeting held on the \_\_\_\_ day of \_\_\_\_ 2013 by the following vote:

AYES: Council Members \_\_\_\_\_

NOES: Council Members \_\_\_\_\_

ABSENT: Council Members \_\_\_\_\_

ABSTAIN: Council Members \_\_\_\_\_

\_\_\_\_\_  
Mayor

ATTEST:

\_\_\_\_\_  
City Clerk

STATE OF CALIFORNIA }  
COUNTY OF ORANGE } SS  
CITY OF SEAL BEACH }

I, Linda Devine, City Clerk of the City of Seal Beach, do hereby certify that the foregoing resolution is the original copy of Resolution Number \_\_\_\_ on file in the office of the City Clerk, passed, approved, and adopted by the City Council at a regular meeting held on the \_\_\_\_ day of \_\_\_\_\_, 2013.

\_\_\_\_\_  
City Clerk

## Checklist

### Mandatory Application Items (check all items included in this package)

- ☒ Application (Part 1 - 3)
- ☐ N/A Environmental Documentation (if applicable)
- ☐ N/A Preliminary Cooperative Agreement (if applicable)
- ☒ 25% Matching Fund Requirement
- ☒ Project Cost Estimate
- ☒ Proposed Budget
- ☒ Maps
- ☒ Design / Concept Drawing
- ☒ Digital Project Site Photos
- ☒ Project Schedule
- ☒ Draft Resolution

#

#

## **ATTACHMENT A**

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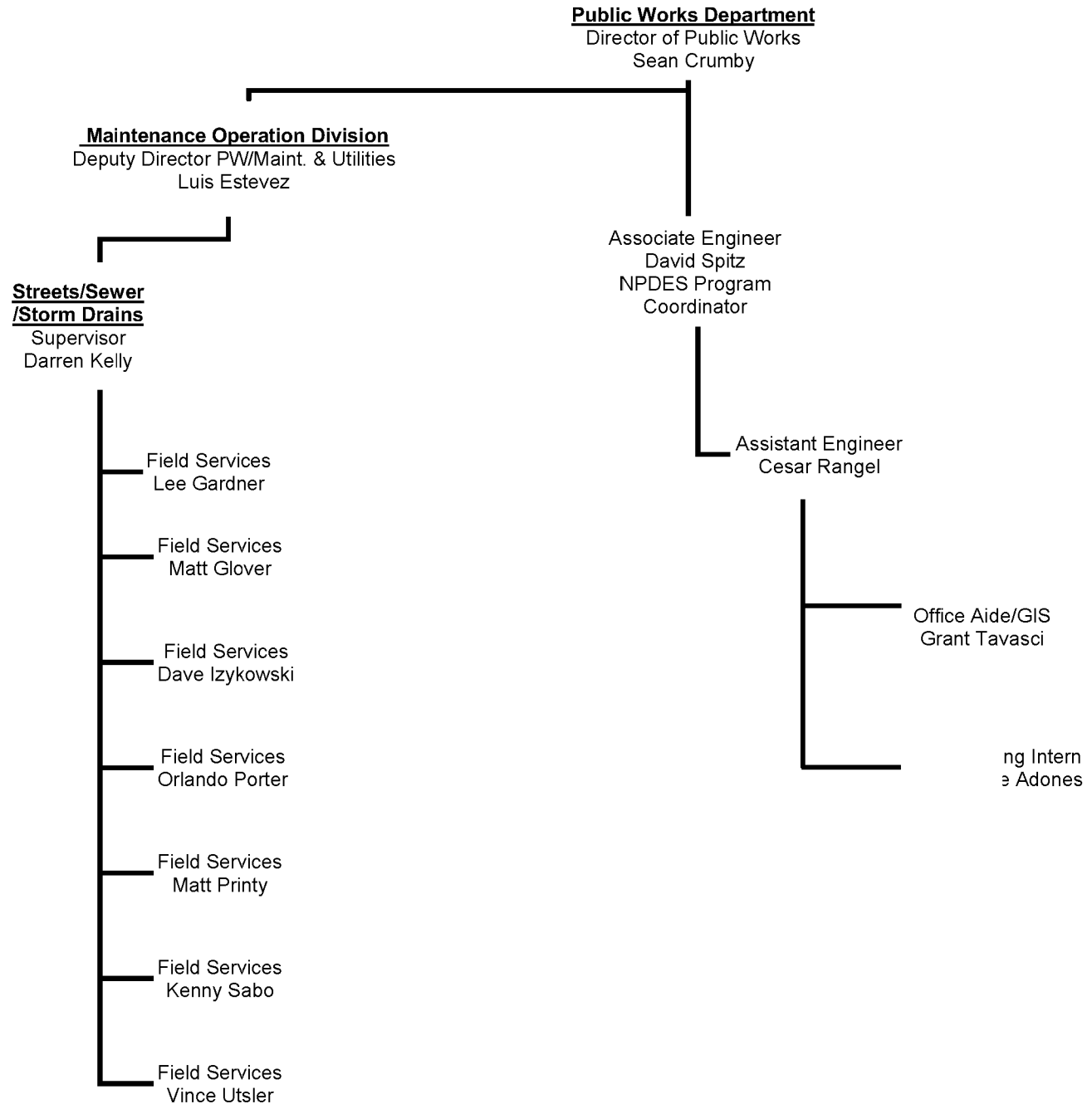
### **ORGANIZATIONAL CHART**





# *City of Seal Beach* **Public Works**

## Organizational Chart



## **ATTACHMENT B**

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### **PROJECT LOCATION MAP**

# City of Seal Beach Filter Inserts & Screens Installation Project



*City of Seal Beach*  
**Public Works**

## Legend:

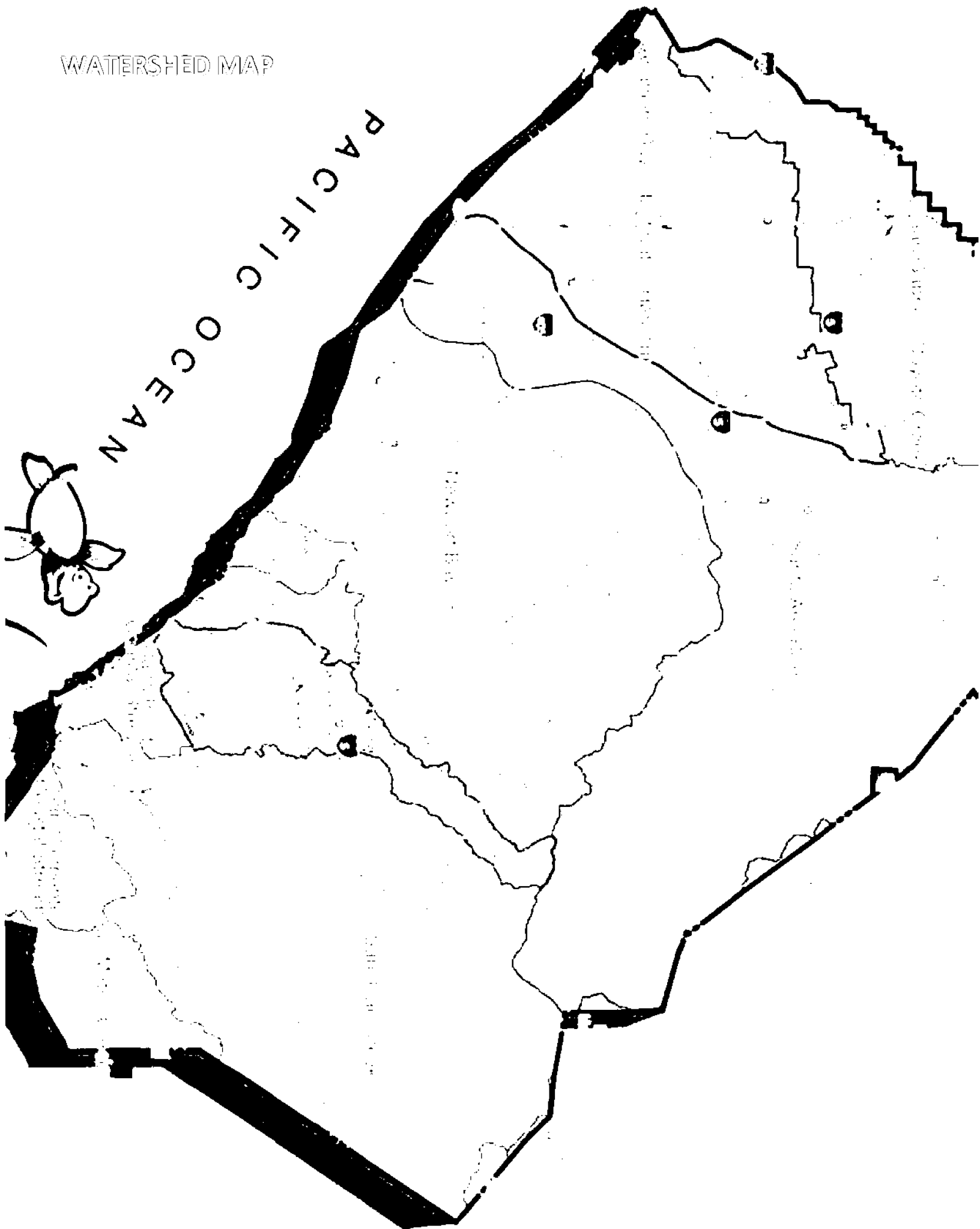
- Install Automatic Retractable Screens
- Install DrainPacs

**ATTACHMENT C**

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WATERSHED MAP

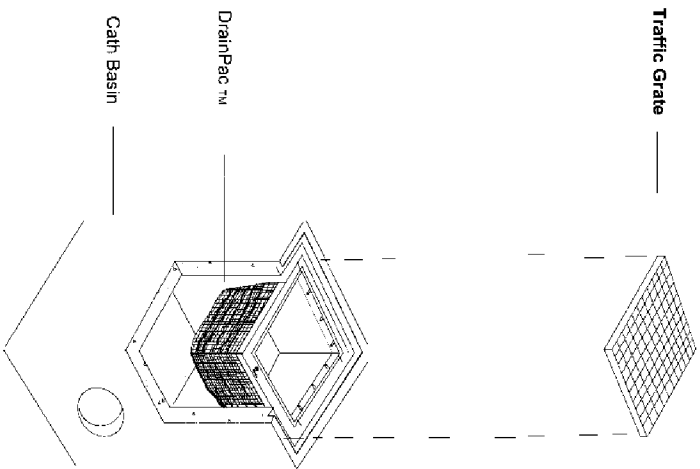
# WATERSHED MAP



## **ATTACHMENT D**

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### **DESIGN/CONCEPT DRAWINGS AND SPECIFICATIONS**

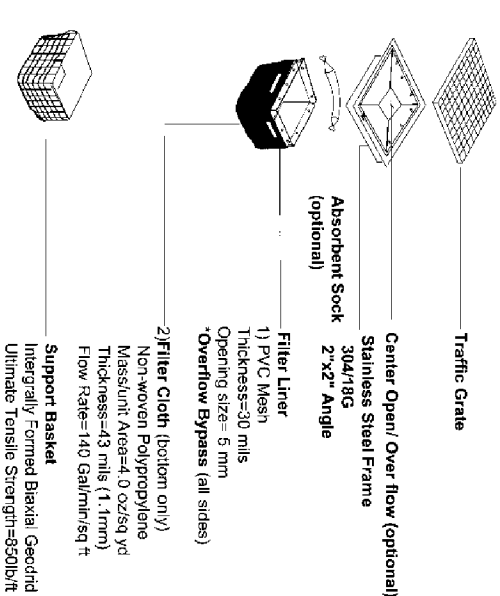


### INSTALLATION VIEW

#### Drawing Notes :

- 1) DrainPac TM, 2) DrainPac TM, install in drop inlet type basins are self supported filler inserts that will rest (gravity fed) on the existing catch basin grate frame.
- 3) This product will aid in filtering constituents such as heavy metals, petroleum hydrocarbons, sediments, trash and debris.

### EXPLODED VIEW



Catch Basin (Drop Inlet) Style

### DrainPac TM Installation Drawing: Drop Inlet

**UNITED STORM WATER, Inc.**  
*Protecting Your Water Resources*  
14000 E. Valley Blvd  
City of Industry, CA 91746  
Los Angeles: (877) 717-8676  
San Diego: (856) 440-2790  
[www.unitedstormwater.com](http://www.unitedstormwater.com)

General Notes

1	7/15/10	
No.	Rev. Date / Issue	Date

Print Name and Address

UNITED STORM WATER, INC.  
14000 E. Valley Blvd  
City of Industry, CA 91746

Print Name and Address

DrainPac  
Model: Drop Inlet

DrainPac	1 of 1
Scale	
Not to Scale	

# NON-WOVEN POLYPROPYLENE FILTER CLOTH

## Technical Data

### 3.5 oz. Specifications

PROPERTY	TEST	Value
Weight	ASTM D 3376 <sup>1</sup>	3.5
(oz./sq yd)	ASTM D 3376 <sup>2</sup>	3.3
Thickness (mils)	ASTM D 1777 <sup>2</sup>	50
Tensil (lbs.)	ASTM D 4632 <sup>2</sup>	95
Elongation (%)	ASTM D 4632 <sup>2</sup>	50
Puncture (lbs.)	ASTM D 4833 <sup>2</sup>	55
Mullen Burst (psi)	ASTM D 3786 <sup>2</sup>	200
Trapezoidal Tear (lbs.)	ASTM D 4533 <sup>2</sup>	40
Permeability (cm/sec)	ASTM D 4491 <sup>2</sup>	0.25
Permittivity (sec.-1)	ASTM D 4491 <sup>2</sup>	2.2
Flow Rate (gal/sq ft./min)	ASTM D 4491 <sup>2</sup>	150
EOS (AOS – US std sieve)	ASTM D 4751 <sup>2</sup>	70
UV Resistance	ASTM D 4355 <sup>2</sup>	70
(% Strength retention hrs of exposure 150)		

1 = Typical Value

2 = Minimum Average



# Woven Polypropylene Filter

## STOP-RIP WEAVE

### Technical Data

**6.4 oz.**

PROPERTY	TEST	UNITS	VALUE	RESULTS
Weight	ASTM D-3776	oz	Square Yard	6.4
Tensile Strength (grab method)	ASTM D-1682	lbs	Warp Fill	120 209
Elongation (grab method)	ASTM D-3786	%	Warp Fill	39 71
Burst Strength	ASTM D-3786	psi	N/A	341
Puncture Strength (mod)	ASTM D-3787	bs	N/A	95
Trapezoid Tear	ASTM D-2261	lbs	Warp Fill	57 82
Abrasion Resistance	ASTM D-4886	lbs	Warp Fill	80 115
Shade	N/A	%	N/A	70

# NON-WOVEN POLYPROPYLENE FILTER CLOTH

## Technical Data

### 8 oz. Specifications

PROPERTY	TEST	Value
Weight	ASTM D 3776 <sup>1</sup>	8.0
(oz./sq yd)	ASTM D 3776 <sup>2</sup>	9.2
Thickness (mils)	ASTM D 1777 <sup>2</sup>	85
Tensil (lbs.)	ASTM D 4632 <sup>2</sup>	215
Elongation (%)	ASTM D 4632 <sup>2</sup>	50
Puncture (lbs.)	ASTM D 4833 <sup>2</sup>	115
Mullen Burst (psi)	ASTM D 3786 <sup>2</sup>	360
Trapezoidal Tear (lbs.)	ASTM D 4533 <sup>2</sup>	85
Permeability (cm/sec. -1)	ASTM D 4491 <sup>2</sup>	0.25
Permittivity (sec. -1)	ASTM D 4491 <sup>2</sup>	1.2
Flow Rate (gal/sq ft./min)	ASTM D 4491 <sup>2</sup>	100
EOS (AOS – US std sieve)	ASTM D 4751 <sup>2</sup>	80
UV Resistance	ASTM D 4355 <sup>2</sup>	70
(% Strength retention hrs of exposure – 150)		

1 = Typical Value

2 = Minimum Average

# NON-WOVEN POLYPROPYLENE FILTER CLOTH

## Technical Data

### 12 oz. Specifications

PROPERTY	TEST	Value
Weight	ASTM D 3776 <sup>1</sup>	12.0
(oz./sq yd)	ASTM D 3776 <sup>2</sup>	11.0
Thickness (mils)	ASTM D 1777 <sup>2</sup>	120
Tensil (lbs.)	ASTM D 4632 <sup>2</sup>	325
Elongation (%)	ASTM D 4632 <sup>2</sup>	50
Puncture (lbs.)	ASTM D 4833 <sup>2</sup>	170
Mullen Burst (psi)	ASTM D 3786 <sup>2</sup>	550
Trapezoidal Tear (lbs.)	ASTM D 4533 <sup>2</sup>	115
Permeability (cm/sec)	ASTM D 4491 <sup>2</sup>	0.25
Permittivity (sec. -1)	ASTM D 4491 <sup>2</sup>	0.8
Flow Rate (gal/sq ft./min)	ASTM D 4491 <sup>2</sup>	80
EOS (AOS – US std sieve)	ASTM D 4751 <sup>2</sup>	100
UV Resistance	ASTM D 4355 <sup>2</sup>	70
(%) Strength retention hrs of exposure – 150)		

1 = Typical Value

2 = Minimum Average

# NON-WOVEN POLYPROPYLENE FILTER CLOTH

## Technical Data

### 16 oz. Specifications

PROPERTY	TEST	Value
Weight	ASTM D 3776 <sup>1</sup>	16.0
(oz./sq yd)	ASTM D 3776 <sup>2</sup>	15.0
Thickness (mils)	ASTM D 1777 <sup>2</sup>	150
Tensil (lbs.)	ASTM D 4632 <sup>2</sup>	425
Elongation (%)	ASTM D 4632 <sup>2</sup>	50
Puncture (lbs.)	ASTM D 4833 <sup>2</sup>	250
Mullen Burst (psi)	ASTM D 3786 <sup>2</sup>	750
Trapezoidal Tear (lbs.)	ASTM D 4533 <sup>2</sup>	165
Permeability (cm/sec)	ASTM D 4491 <sup>2</sup>	0.25
Permittivity (sec. -1)	ASTM D 4491 <sup>2</sup>	0.6
Flow Rate (gal/sq ft./min)	ASTM D 4491 <sup>2</sup>	45
EOS (AOS – US std sieve)	ASTM D 4751 <sup>2</sup>	120
UV Resistance	ASTM D 4355 <sup>2</sup>	70
(% Strength retention hrs of exposure – 150)		

1 = Typical

2 = Minimum Average

# **PVC MESH**

<b><u>Construction:</u></b>		11 x 11 ends/inch
<b><u>Coating:</u></b>		Flexible PVC
<b><u>Core Yarn:</u></b>		1000 denier Polyester
<b><u>Fabric Weight:</u></b>	ASTM D-3776	10 oz./sq. yd.
<b><u>Tensil Strength:</u></b>	ASTM D-5034	Warp. 211 lbs./inch
<b><u>Grab Method</u></b>		Fill 247 lbs./inch
<b><u>Tear Strength</u></b>	ASTM D-2261	87 lbs. Wrap and fill
<b><u>Tongue Method (12")</u></b>		
<b><u>Mullen Burst Strength</u></b>	ASTM D-3786	357 lbs./sq. inch
<b><u>Caliper:</u></b>		30 mils
<b><u>(Fabric thickness)</u></b>		
<b><u>Opening Size</u></b>	ASTM E-11-61	5 mm
<b><u>Fire Retardancy:</u></b>	As required, Mill run fabric is self-extinguishing horizontal burning mod. Increased fire retardancy can be supplied upon special order to meet specified tests.	
<b><u>Cold Crack:</u></b>	No cracking after 24 hours @ -40F, 2" mandrel	

# WOVEN POLYPROPYLENE FILTER SUPER MESH

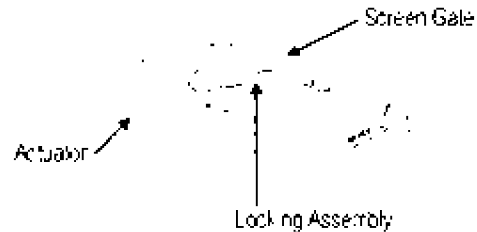
## Technical Data

PROPERTY	TEST	RESULTS
Thickness	ASTM D-1777	<b>28 mil</b>
Construction	N/A	Warp: 44 Fill: 30 Woven
Selvage	N/A	2/1 Twill
Weave	N/A	Tentered & Calendered
Finish	N/A	5.4 oz/sq. yd.
Weight	N/A	Warp: 110 lbs. Fill: 90 lbs.
Abrasion/ Resistance	ASTM D-1175 mdf	Warp: 355 lbs. Fill: 270 lbs.
Tensile Strength	ASTM D-1682 (grab method)	Warp: 135 lbs. Fill: 105 lbs.
Tear Strength	ASTM D-2263 (trapezoid method)	510/lbs./sq. in. 110 lbs
Burst Strength	ASTM D-751	>700 cfm
Puncture Strength	ASTM D-751	145
Air Flow	N/A	
Flow Rate (gal/min/ft. 2)	N/A	

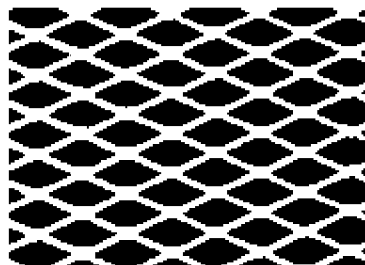
The CleanScreen™ is an automatic retractable curb inlet screen cover (ARS) that prohibits most trash and debris from entering storm drains during the dry season, and opens automatically during specific water flow conditions to prevent street flooding. The device's screen gate remains in a closed and locked position during the dry season or low water flow, and the retained pollutants can be removed using routine street sweeping. During periods of increased or heavy water flow, the CleanScreen™ actuator will open the gate and allow water to flow unimpeded into the catch basin. The device is capable of maintaining the open position for a calibrated amount of water flow. As a storm subsides the screen gate will automatically return to the closed and locked position.

## Functionality Specifications

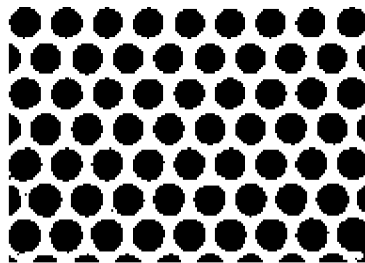
- Curb inlet opening from 4" in height
- Depth from the street wall to back wall of catch basin of  $\geq 8"$
- Height from water flow line to bottom of catch basin of  $\geq 6"$
- Can be calibrated to open when subjected to water flow levels of approximately 1" to 4"



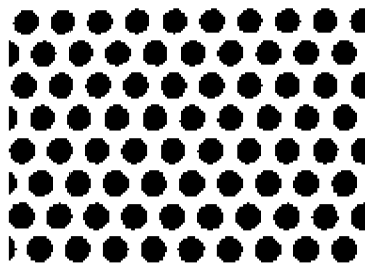
## Material Options, Galvanized or Stainless Steel



Expanded Metal



Perforated Metal

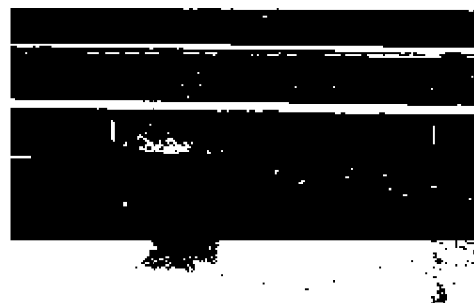
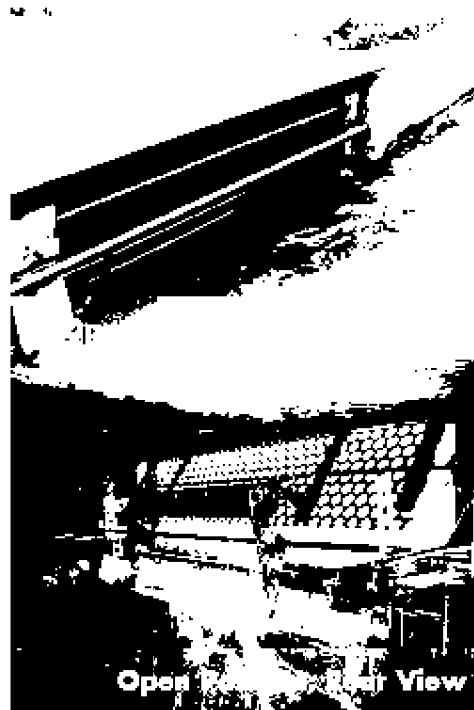


Custom Coatings



## Features

- Custom fit and calibrated to each catch basin where it is installed
- Gate remains closed and locked during the dry season or periods of low water flow
- Can only be opened from the outside using a special tool (Trip Rod) that is provided for maintenance or inspection
- Gate is activated to open automatically and remains open during continuous heavy water flow
- Gate closes and locks automatically as a storm subsides
- Can be used in conjunction with various storm drain filters





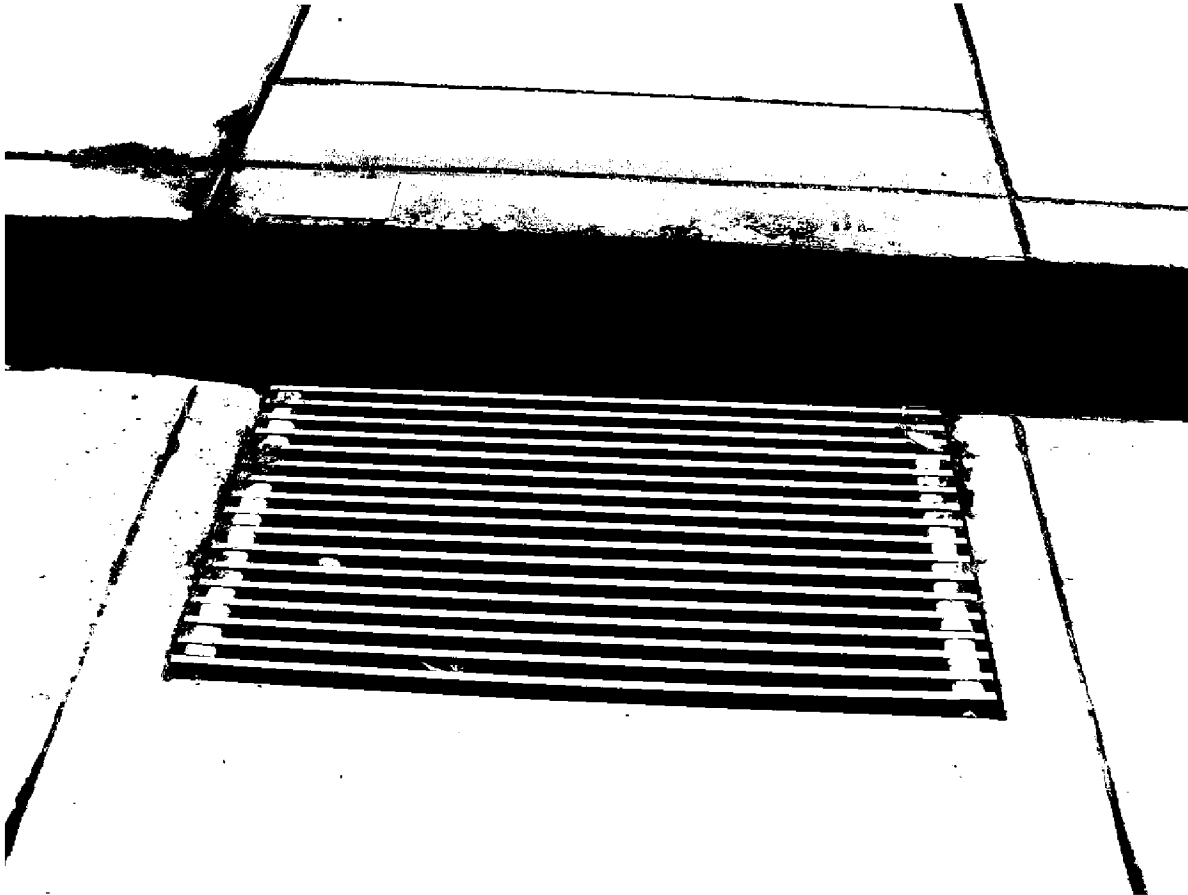
## **ATTACHMENT E**

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### **PROJECT SITE PHOTOS**

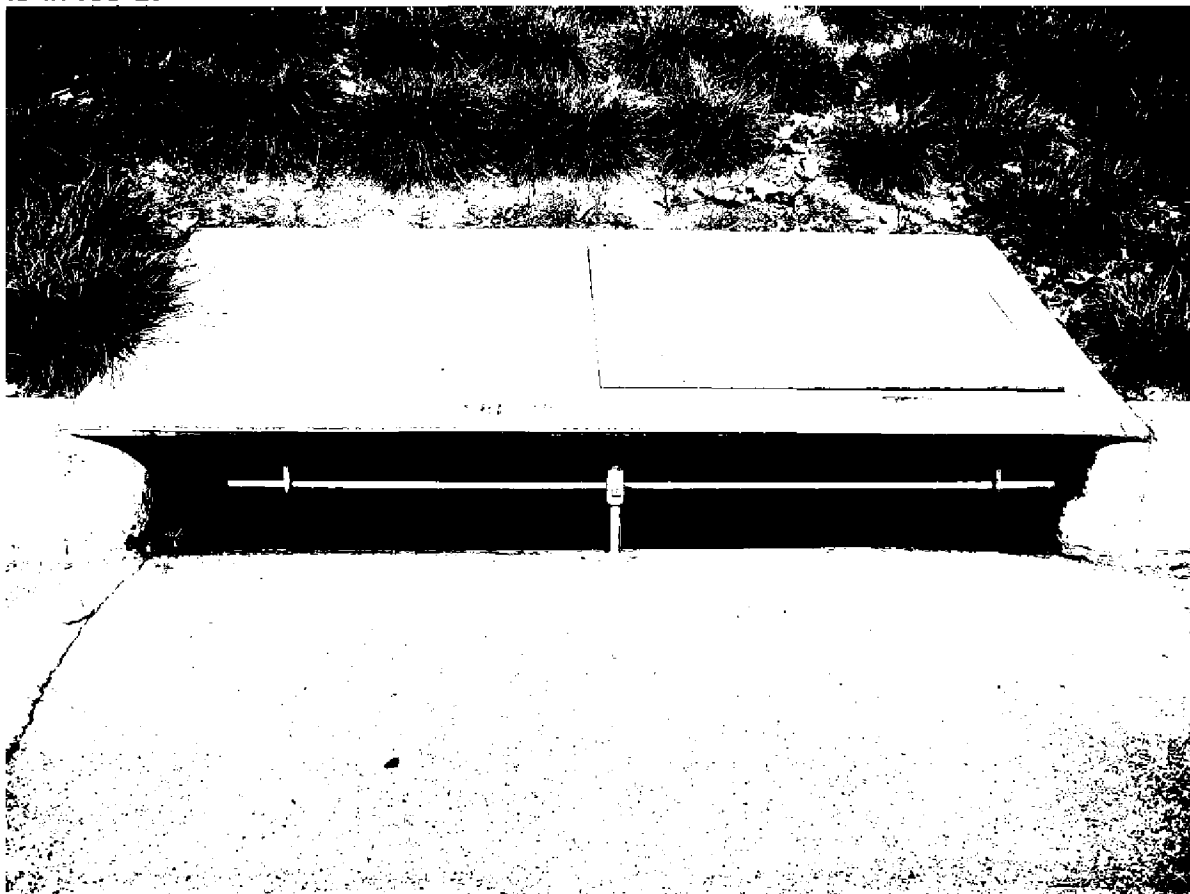
**Location:** North Gate Road

**ID #:** BEV-4

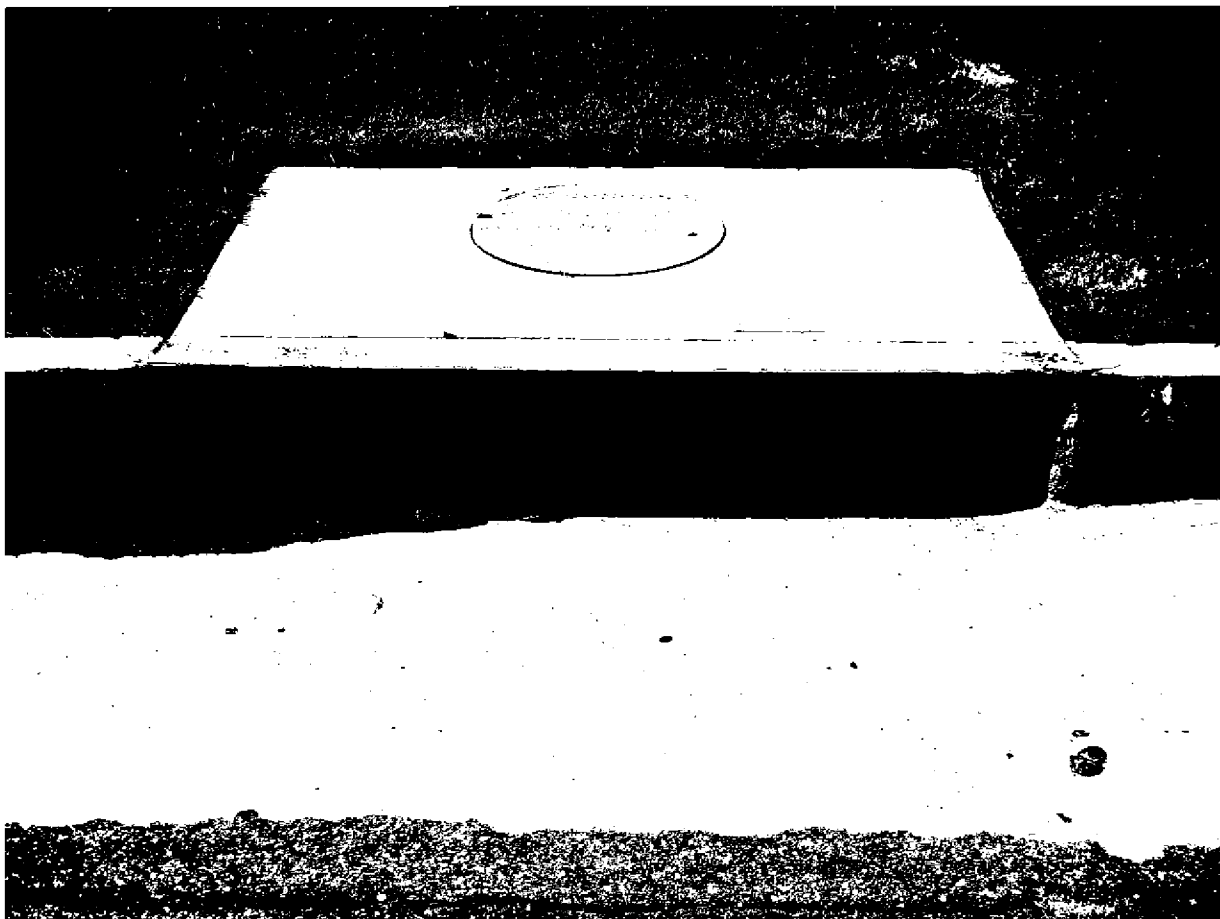


**Location:** Seal Beach Blvd.

**ID #:** SBB-29



**Location:** Westminster Blvd.  
**ID #:** WES-4



**ATTACHMENT F**

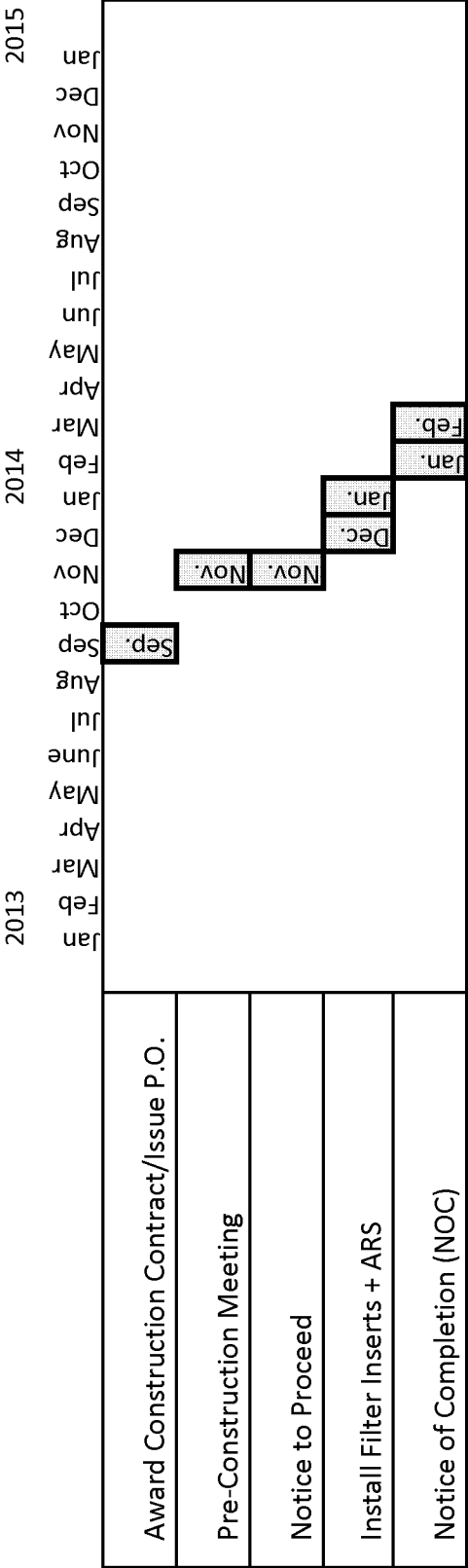
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PROJECT SCHEDULE

# Project Schedule Filter Inserts & Screens Installation Project

**Key Milestones:**

- Award Construction Contract/Issue P.O.
- Notice to Proceed
- Install Filter Inserts
- Notice of Completion





BOARD OF DIRECTORS

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Chairman

Shawn Nelson  
Vice Chairman

Patricia Bates  
Director

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Director

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Tim Shaw  
Director

Todd Spitzer  
Director

Frank Ury  
Director

Ryan Chamberlain  
Ex-Officio Member

CHIEF EXECUTIVE OFFICE

Darrell Johnson  
Chief Executive Officer

May 9, 2013

Mr. Sean Crumby  
City of Seal Beach  
211 Eighth Street  
Seal Beach, CA 90740

**Subject: Agreement No. C-1-2784, City of Seal Beach, "M2 CTFP Master Funding Agreement" – Letter Agreement No. 2**

Dear Mr. Crumby:

This Letter Agreement serves as the Orange County Transportation Authority's (OCTA) approval to amend Agreement No. C-1-2784, Attachment A-1 "Project List". OCTA is deleting Attachment A-1, in its entirety, as identified in Article 4 "Responsibilities of Agency", paragraph A, and in lieu thereof is inserting the revised "Project List", attached hereto as Attachment A-2, which is incorporated and made a part of the Agreement. All provisions set forth in Master Funding Agreement No. C-1-2784 apply.

The following additional provisions apply to Project P project(s) approved by the Board on April 8, 2013:

1. In-kind or soft match shall be itemized by Lead Agency and or participating cities.
2. The Lead Agency agrees to ensure that technical representatives from the project's Traffic Forum meet and participate regularly during the entirety of the project.
3. The Lead Agency agrees to manage the project for all participating agencies.
4. The Lead Agency agrees to develop and execute an agreement with the participating agencies outlining the roles and responsibilities, flow-down contractual elements, and project match share for completion of the project consistent with the Measure M Comprehensive Transportation Funding Guidelines and referenced documents, the project application, and this letter.
5. The Lead Agency agrees to provide updated timing plans, traffic counts, and other appropriate data to OCTA in formats consistent with the ROADS database at the completion of the Primary Implementation phase of the project.
6. The Lead Agency agrees to cooperate with OCTA and coordinate outreach efforts for the Primary Implementation phase project.

If you have any questions, please feel free to contact Roger Lopez at (714) 560-5438.

Please execute this letter agreement and return the signed originals to the attention of Marvin Cruz, Senior Contract Administrator at (714) 560-5568, [mcruz@octa.net](mailto:mcruz@octa.net). Upon full execution of the letter agreement, the effective date will be April 8, 2013.

Accepted and Agreed

\_\_\_\_\_  
Kia Mortazavi  
Executive Director, Planning  
Orange County Transportation Authority

\_\_\_\_\_  
Sean Crumby  
Director of Public Works  
City of Seal Beach

\_\_\_\_\_  
Meena Katakia  
Department Manager  
Orange County Transportation Authority

\_\_\_\_\_  
Date

MC



**M2 CTFP MASTER FUNDING AGREEMENT**

City of Seal Beach - Project List

Project Description	CTFP Amount	Programmed Fiscal Year	Board Date	Letter Agreement No.
<i>Cumulative Program Total</i>	\$0.00			
<b>Project X "Environmental Clean Up"</b>				
Filter Inserts Installation Project	\$10,700.00	2012-13	8/13/2012	1
<i>Cumulative Program Total</i>	\$10,700.00			
<b>Project P "Regional Traffic Signal Synchronization Program"</b>				
Seal Beach TMC Relocation	\$586,720.00	2013-14	4/8/2013	2
<i>Cumulative Program Total</i>	\$586,720.00			
<b>Total (All Projects)</b>	<b>\$597,420.00</b>			