

EXECUTIVE SUMMARY SHEET
CITY OF SAN DIEGO

DATE ISSUED: October 20, 2010 REPORT NO:
ATTENTION: Natural Resources and Culture Committee
ORIGINATING DEPARTMENT: Storm Water Department
SUBJECT: Emergency Renovations to Storm Water
Pump Stations N & G
COUNCIL DISTRICT(S): 2
CONTACT/PHONE NUMBER: Gene Matter; 858-541-4346

REQUESTED ACTION: Adopt a resolution ratifying a sole source construction contract (K115119C) with Sloan Electromechanical Service and Sales, for “Emergency Renovations to Storm Water Pump Station N & G”, Emergency Storm Drain Projects (CIP: B-10223) for an amount not to exceed \$1,966,361.

STAFF RECOMMENDATION: Adopt the resolution.

EXECUTIVE SUMMARY: The Storm Water Department needs to repair and/or replace critical components of the Storm Water Pump Stations (Stations “N” and “G”) serving Pacific Beach and North Mission Beach. This emergency maintenance effort is required due to worn, malfunctioning and outdated equipment at the stations creating the potential for localized flooding in the neighborhoods surrounding the pump stations. Should it occur, the flooding could adversely impact public health or safety, and leave the City vulnerable to personal and property claims resulting from flood damage.

On February 26, 2010, City Council was notified of the need to execute a sole source contract for the repairs of the pump stations. At that time City staff was in the process of developing a design for the repair work. The design includes replacing the existing two (2) large diesel-driven, 450 horsepower motors with more efficient electrical motors that can withstand being immersed, should that condition arise. Other existing electrical motors will be replaced with more efficient submersible motors. In addition, all the main large capacity pumps will be replaced. All the electronic controls and circuits will be relocated above the flood level.

Pump Station N, located at Santa Clara Point in Mission Beach, is the largest storm water pumping facility serving the beach area of San Diego. The area served by this station includes much of the Mission and Pacific Beach neighborhoods. During storm events on January 18, 20, and 21, 2010, storm water inflows to its service area far exceeded the pumping capacity of the station. At least twice in the past winter the inflows completely overwhelmed the pump station and flooded the “dry well” causing significant damage to the storm water pumps, the station’s electrical system, and the motor control center. The current pumping capacity of Pump Station N is significantly degraded because two pumps in that station are currently out of service and because of damage to the remaining pumps sustained during the storm events this year.

Pump Station G is designed to move incoming storm water from storm drains at the vicinity of the intersection of Mission Boulevard and Pacific Beach Drive. This station also failed during the January 2010 storms and is currently operating at less than required capacity. This condition

may have contributed to the frequent flooding of the surrounding beach community during last winter's wet season.

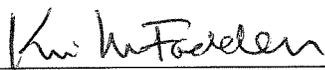
The costs for the construction bid items included as part of this request were negotiated with the vendor by City staff. Many of the major components (pumps and motors) require a long lead time prior to delivery. City staff and vendor are working with the manufacturer of the components to expedite the delivery in time for installation prior to the start of the storm season.

FISCAL CONSIDERATIONS: This is a phase funded project. The funded portion, Phase I, is for \$1,641,134. Funding for Phase I is available in CIP ACA-00001 Emergency Drainage Projects Annual Allocation (\$1,231,628) and General Fund (\$409,506). Funding for Phase II (\$325,227) will be identified at a later date. Work included in Phase II will be approved at the Purchasing Department level.

PREVIOUS COUNCIL and/or COMMITTEE ACTION: On May 25, 2010, City Council adopted a resolution (R-305884) authorizing the City Comptroller to establish the CIP for the emergency repair project, transferring funds and authorizing expenditure of CIP funds for this sole source contract for the purposes of performing the repairs to Pump Stations N and G.

COMMUNITY PARTICIPATION AND PUBLIC OUTREACH EFFORTS: City staff have provided updates to both the Mission Beach and Pacific Beach planning groups.

KEY STAKEHOLDERS AND PROJECTED IMPACTS: Nearby citizens and businesses affected by ongoing flooding associated with these storm drain failures.



Kris McFadden
Storm Water Department Interim Director



David Jarrell
Deputy Chief of Public Works

Emergency Pump Station Repair

Storm Water Department
October 20, 2010

Kris McFadden, Interim Director
Gene Matter, P.E., Senior Civil Engineer



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Critical Project



- **Pump Station “N” (Santa Clara Point)**
 - Replacing pumps
 - Installing submersible electric motors
 - Renovating and relocating electronic motor controls
- **Pump Station “G” (P.B. Dr. & Mission Blvd.)**
 - Changing and/or rebuilding pumps
 - Installing submersible motors



January 2010 Storms



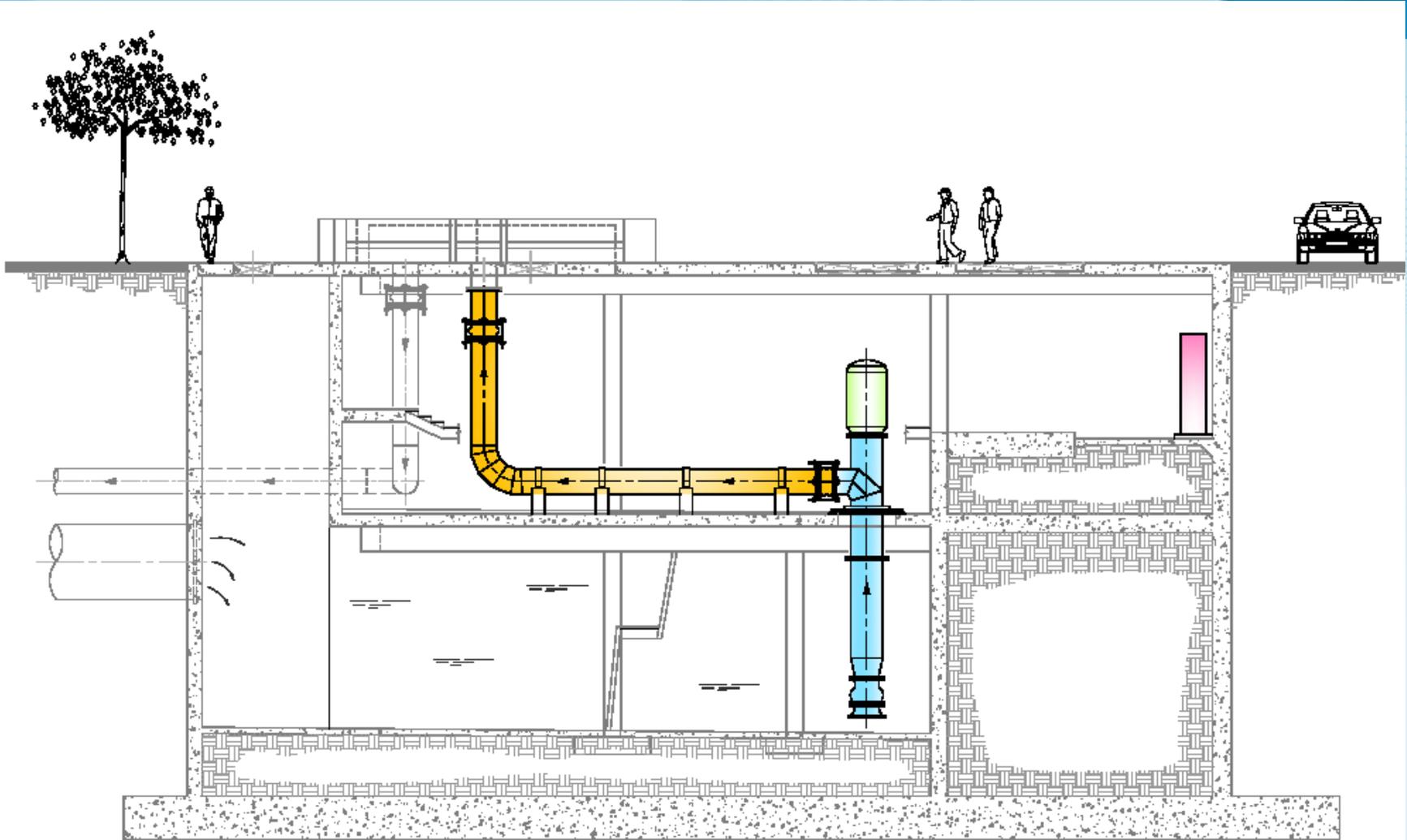
- **“Dry well” flooded**
- **Motors, pumps and electronics damaged**
- **Pump Station N:**
 - 5 of 6 Main Pumps left in poor on now non-operational
- **Pump Station G:**
 - 1 of 2 Main Pumps is now in poor condition



Typical Pump Station



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Sole Source Vendor



- **Sloan Electro-Mechanical**
 - Capable of BOTH pump and electrical contracting
 - Familiarity with existing City systems
 - Capacity for emergency work
 - Well-qualified staff
 - All necessary certifications/licenses



Previous Council Notification



- **February 26, 2010**
 - Memo to Council from Purchasing for forthcoming sole source emergency contract
- **May 25, 2010**
 - Council approved Capital Improvement Project addition to FY10 budget
 - Council approved transfer of available funds into CIP



Recommended Actions



- **Ratify Construction Contract**
 - \$1,966,361
- **Approve Expenditure from CIP Account**
 - Funds in CIP B-10223



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