



## Item No. 19 Town of Atherton

### **CITY COUNCIL STAFF REPORT – CONSENT AGENDA**

**TO: HONORABLE MAYOR AND CITY COUNCIL  
GEORGE RODERICKS, CITY MANAGER**

**THROUGH: MICHAEL KASHIWAGI, COMMUNITY SERVICES DIRECTOR**

**FROM: MARTY HANNEMAN, CITY ENGINEER**

**DATE: SEPTEMBER 20, 2017**

**SUBJECT: APPROVE AN AMENDMENT TO THE WRECO AGREEMENT  
FOR CONSULTANT DESIGN PROFESSIONAL SERVICES TO  
INCLUDE THE STUDY OF EL CAMINO REAL STORM WATER  
DRAINAGE**

### **RECOMMENDATION**

Authorize the City Attorney to prepare and the City Manager to execute an amendment to the Design Professional Service Agreement with WRECO to include the study of El Camino Real storm water drainage within the Town's limits for a not to exceed fee of \$42,210.

### **BACKGROUND**

The Town completed its Town-wide Drainage System Update ("Update") in April 2015. The Update included a Report on Town-maintained culverts and drainage systems as well as the Atherton Channel and identified immediate and long-term improvement projects.

The Fiscal Year 2017/18 Capital Improvement Program (CIP) included a number projects to be completed in the current fiscal year as well as initial engineering and analysis on larger projects related to the Atherton Channel.

On January 18, 2017, Council awarded a consultant service design agreement to WRECO Consulting to prepare plans, specifications, and cost estimate (PS&E) for Drainage Facilities repairs prepared for Stockbridge Avenue, Euclid Avenue, Polhemus Avenue, Camino al Lago and the Atherton Channel. Staff currently has a set of construction documents inviting contractors to bid on the Culvert Repair Drainage Improvement Project. The bids were due on September 5, 2017 and the lowest responsive bidder will be presented to City Council on September 20, 2017 recommending award.

Drainage issues occurs along the El Camino Real corridor at majority of intersecting cross streets

**Approve An Amendment To The WRECO Agreement For Consultant Design Professional Services  
To Include The Study Of El Camino Real Drainage**

**September 20, 2017**

**Page 2 of 2**

during most rain events. The El Camino Real Drainage Study will study the potential alternatives to alleviate the drainage issues.

**POLICY FOCUS**

All work is consistent with Town policy, the approved Drainage Master Plan. There are no outstanding policy issues.

**FISCAL IMPACTS**

Funding of \$110,000 for the El Camino Real Drainage Study comes from the Special Parcel Tax and was included in the approved FY 2017/18 Capital Improvement Program (CIP).

**PUBLIC NOTICE**

Public notification was achieved by posting the agenda, with this agenda item being listed, at least 72 hours prior to the meeting in print and electronically. Information about the project is also disseminated via the Town's electronic News Flash and Atherton Online. There are approximately 1,200 subscribers to the Town's electronic News Flash publications. Subscribers include residents as well as stakeholders – to include, but be not limited to, media outlets, school districts, Menlo Park Fire District, service providers (water, power, and sewer), and regional elected officials.

**ATTACHMENT**

- WRECO Agreement Amendment #1 Proposal



## **AMENDMENT 1: EL CAMINO REAL DRAINAGE STUDY**

### **Town of Atherton**

*August 17, 2017*  
*Prepared by WRECO*

#### **WRECO's Scope of Work**

##### **TASK A1 LLOYDEN PARK LANE SYSTEM DRAINAGE STUDY | WRECO**

There is an existing storm drain system that collects runoff on the west side of El Camino Real between Tuscaloosa Avenue and Almendral Avenue into an inlet headwall with 2-12" RCPs. The 2-12" RCPs convey the captured runoff east toward Lloydden Park Lane. The 2-12" RCPs daylight on the east side of El Camino Real at Lloydden Park Lane. Immediately after daylighting there is another headwall that conveys runoff east across Lloydden Park Lane and discharges onto private property. Private property flooding has occurred at this location and the Town would like to study potential alternatives to direct the flow to Lloydden Drive.

##### Task A1.1 Data Collection

WRECO will obtain any available as-builts for the existing system. A field visit will be performed to collect measurements and any other additional data. The Town will perform a CCTV of the pipe within the grate inlet at the corner of Lloydden Park Lane and Lloydden Drive to determine if there is a connection to the studied system. The *Town Drainage Study Update* will be reviewed for any relevant information.

*Surveying is not included in the cost estimate.*

##### Task A1.2 Existing Hydrology and Hydraulics Analysis

WRECO will delineate the watershed and perform Rational Method calculations following the Town's Drainage Criteria Manual to determine the runoff for the 2-, 10-, 25-, and 100-yr storm events.

WRECO will model the existing storm drain system using EPA SWMM. A summary of the existing conditions will be provided to the Town with potential alternatives.

##### Task A1.3 Proposed Alternatives Analysis

WRECO will model up to two proposed alternatives in EPA SWMM with the goal of diverting the runoff on the east side of El Camino Real to the curb and gutter system on Lloydden Drive.

##### **TASK A2 SELBY LANE DRAINAGE STUDY | WRECO**

At the southwest intersection of Selby Lane and El Camino Real is a combination inlet that collects runoff from the west side of El Camino Real. A 36" pipe from the inlet conveys captured flow to the east across El Camino Real. Atherton staff had the 36" pipe TVed and discovered that approximately halfway across El Camino Real the pipe had been bricked up and completely blocked. The reason for and timing of the blockage is unknown to the Town staff. The location of the pipe outfall is also unknown but is likely located within the North Fair Oaks Unincorporated Area.



#### Task A2.1 Data Collection

WRECO will obtain any available as-builts for the existing system. A field visit will be performed to collect measurements and any other additional data. Coordination with North Fair Oaks will be performed to determine the reason for blocking the 36" RCP under El Camino Real and the outfall of that system. The *Town Drainage Study Update* will be reviewed for any relevant information.

*Surveying is not included in the cost estimate.*

#### Task A1.2 Existing Hydrology and Hydraulics Analysis

WRECO will delineate the watershed and perform Rational Method calculations following the Town's Drainage Criteria Manual to determine the runoff for the 2-, 10-, 25-, and 100-yr storm events.

WRECO will model the existing storm drain system using EPA SWMM. A summary of the existing conditions will be provided to the Town with potential alternatives.

#### Task A2.3 Proposed Alternatives Analysis

WRECO will model up to two proposed alternatives in EPA SWMM with the goal of conveying the runoff on the west side of El Camino Real at Selby Lane to a downstream location with positive drainage.

### **TASK A3 PROJECT MANAGEMENT AND MEETINGS | WRECO TEAM**

WRECO will develop a memo that details the findings of the existing and proposed analysis for all tasks. The memo will include a conceptual cost estimate for up to two proposed alternatives for each task.

#### **Task A3.1 Deliverables:**

- *Draft Drainage Study Memo and Conceptual Cost Estimate (PDF)*
- *Final Drainage Study Memo and Conceptual Cost Estimate (PDF)*

### **TASK A4 PROJECT MANAGEMENT AND MEETINGS | WRECO TEAM**

The WRECO Team will participate in up to four (4) conference calls with the Town staff. On a monthly basis, WRECO will provide the Town staff with invoices and progress reports for the Project.

#### **Task A4.1 Deliverables:**

- *Monthly Invoices and Progress Reports*

### **TASK A5 TOPOGRAPHIC SURVEY | WRECO TEAM**

Alexander will perform a topographic survey of the Project site. Approximately 6000 feet of roadway from the northerly town limits, southerly to the Atherton Channel plus crossing El Camino Real at Lloyd Park Lane and the frontage road of Lloyd Park Lane to Lloyd Drive. Limits of this survey are from the painted edge line on the westerly side of the El Camino Real westerly to the Right-of-Way or wall/fencing. Survey shots will be taken on approximate 50-foot intervals. Survey shots will capture painted edge line, edge of pavement, gutter flowline, and fence. The existing gutter flow line is in dirt. At intersection and driveways, we will go at least 25-feet easterly of the gutter flowline. Alexander will prepare a digital base map (AutoCAD based) for the Project study area.

#### **Task A5.1 Deliverables:**

- *Base Map of Existing Conditions (Topo, utilities etc.)*