ITEM NO. 5

STAFF REPORT

CITY OF OCEANSIDE

DATE: March 18, 2015

TO: Honorable Mayor and City Councilmembers

FROM: Water Utilities Department

SUBJECT: **PLANS AND SPECIFICATIONS FOR THE CURED-IN-PLACE-PIPE SLIP LINING PROGRAM AND AUTHORIZE THE CITY ENGINEER TO CALL FOR BIDS**

SYNOPSIS

Staff recommends that the City Council approve the plans and specifications for the Cured-In-Place-Pipe (CIPP) Slip Lining Program; and authorize the City Engineer to call for bids.

BACKGROUND

The City of Oceanside has over 450 miles of vitrified clay sewer pipe located throughout the sewer collection system ranging in diameters from 6 inches up to 42 inches. A majority of these pipelines are constructed of vitrified clay pipe (VCP) and are located in areas near major water features or in environmentally sensitive areas. As a result, failure of the pipeline would result in significant damage to the surrounding area including the risk of spillage into a lake, river, or stream. Furthermore, a number of the pipelines are in remote, difficult to access areas, thus excavation and replacement of the existing pipeline would not be feasible.

ANALYSIS

Staff has reviewed various methods for repairing portions of VCP sewer pipelines 12 inches through 24 inches. Staff has determined that the Cured-In-Place-Pipe (CIPP) Slip Lining method for pipeline repair to be the best option for our current needs. CIPP Slip Lining is one of many trenchless technologies used today for repairing existing pipelines. CIPP is a jointless, seamless, pipe-within-a-pipe with the capability to rehabilitate pipes 4 inches through 110 inches. CIPP includes a resin-saturated felt tube material that is inverted or pulled through an existing pipeline via existing manholes, eliminating the need for excavation and disturbance to the surrounding environments.

The project will focus on repairs based on the priority ranking as follows:

- Risk of damage to surrounding water bodies
- Number of previous failures
- Existing structural condition based on closed circuit television (CCTV) data.

Staff anticipates commencement of work in spring of 2015, and estimates that the project will take approximately six months to complete. The City has used CIPP for pipeline repairs in the past and the approach has been very effective.

The project is exempt from the California Environmental Quality Act. The plans and specifications for the project are available for review in the offices of the City Manager and the City Engineer.

FISCAL IMPACT

The contract price is estimated to be $600,000. The project will be funded by the FY 2014/15 CIP budget which includes $800,000 in the CIPP Slip Lining project, account 909130600722. Funding for this project comes from the Sewer Fixed Asset Replacement Fund, 722, which is primarily funded by sewer service and flow fees. Although this action does not award the project and does not result in expenditures at this time, sufficient funds are available.

INSURANCE REQUIREMENTS

The City's standard insurance requirements will be met.

COMMISSION OR COMMITTEE REPORT

The Utilities Commission received a project update at its regularly scheduled meeting on March 17, 2015.

CITY ATTORNEY'S ANALYSIS

The referenced documents have been reviewed by the City Attorney and approved as to form.

RECOMMENDATION

Staff recommends that the City Council approve the plans and specifications for the Cured-In-Place-Pipe (CIPP) Slip Lining Program; and authorize the City Engineer to call for bids.

PREPARED BY:

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Interim Water Utilities Director

SUBMITTED BY:

Michelle Skaggs Lawrence
Interim City Manager

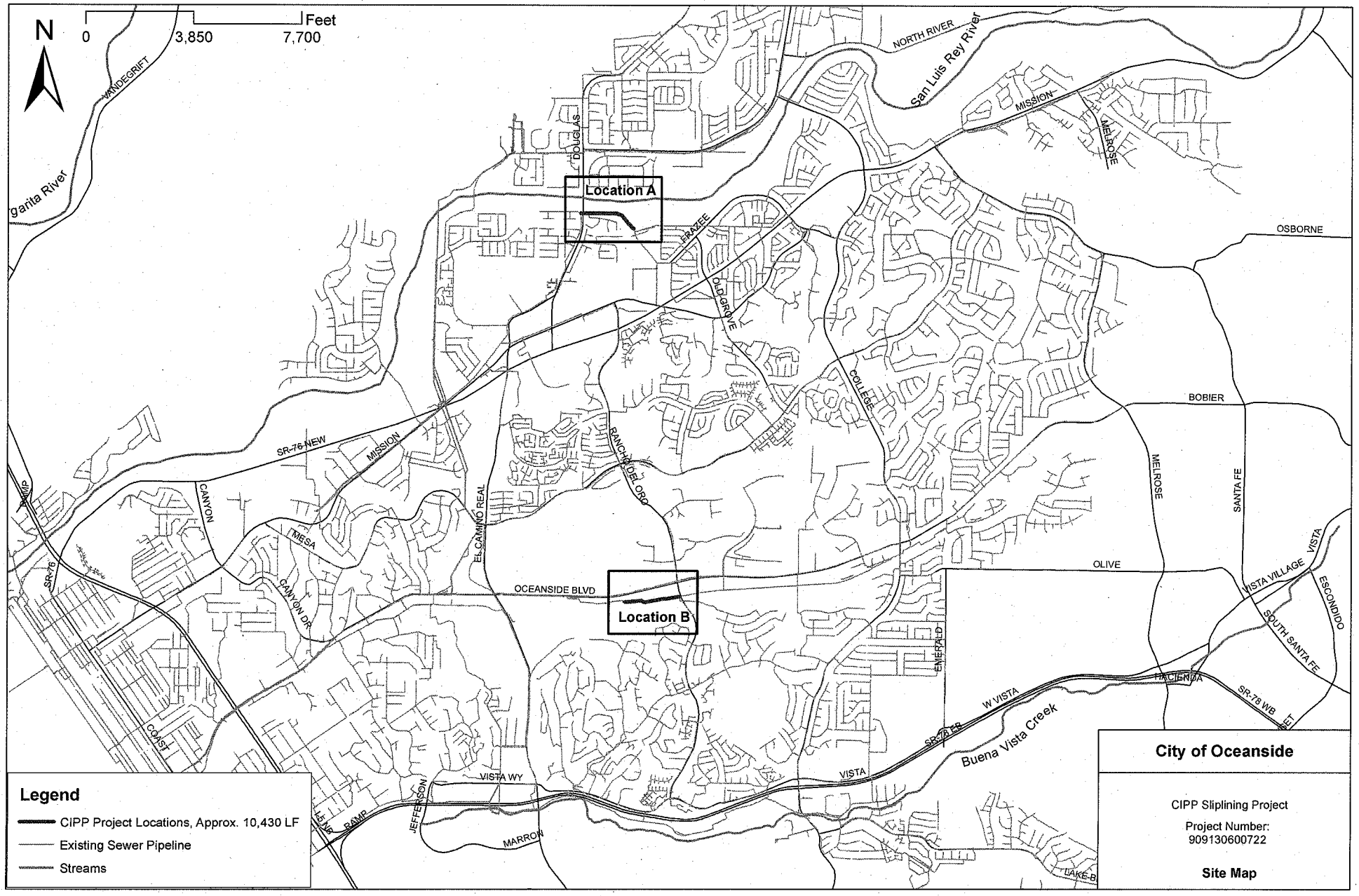
REVIEWED BY:

Peter Weiss, Assistant City Manager

Scott Smith, City Engineer

Jane M. McPherson, Interim Financial Services Director

Exhibit A: Project Site Map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NORTH RIVER
San Luis Rey River
MISSION
MELROSE
DOUGLAS
Location A
FRAZEE
OLD GROVE
OSBORNE
COLLEGE
BOBIER
SR-76 NEW
MISSION
RANCHO DEL ORO
EL CAMINO REAL
CANYON
MESA
CANYON DR
SR-76
RAMP
MELROSE
SANTA FE
VISTA
VISTA VILLAGE
ESCONDIDO
OLIVE
OCEANSIDE BLVD
Location B
SOUTH SANTA FE
EMERALD
HACIENDA
W VISTA
SR-78 WB
SR-78 EB
Buena Vista Creek
COAST
VISTA WY
VISTA
JEFFERSON
MARRON
LAKE-B
City of Oceanside
CIPP Sliplining Project
Project Number:
909130600722
Site Map
Legend
CIPP Project Locations, Approx. 10,430 LF
Existing Sewer Pipeline
Streams