

NORTH ROAD CROSS COUNTRY / DAVEY GLEN ROAD IMPROVEMENTS

PROJECT BACKGROUND

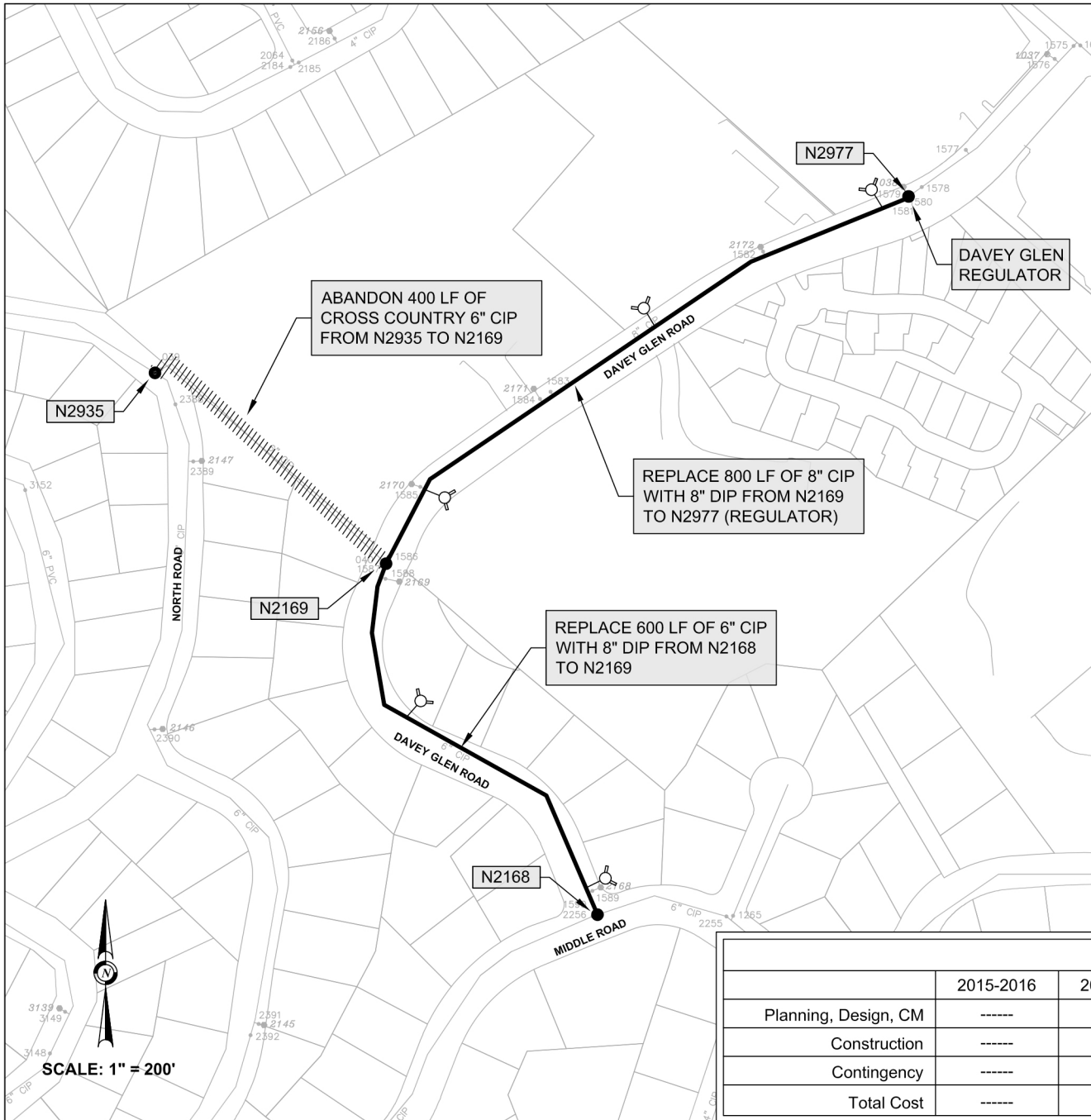
The water mains along Davey Glen Road were installed in 1961 and comprise of 600 LF of 6" cast iron pipe (CIP) and 800 LF of 8" CIP. Water is supplied to Davey Glen from Middle Road and a 6" CIP cross country (CC) water main, installed in 1962, extending down from North Road to where the 6" CIP on Davey Glen transitions to the 8" CIP. The CC water main runs beneath a 4 FT wide sidewalk along a dedicated easement. Beyond the edge of walk the terrain drops fairly steeply where at its base is an apartment complex pool and common area. Any breaks along this alignment could result in significant damage to both the hillside and the apartment complex below. This project abandons the CC water main and replaces 1,400 LF of CIP water main along Davey Glen Road with 8" DIP to correct fire flow deficiencies upon the CC abandonment. Hydraulic analysis indicates a fire flow decrease of up to 38% from approximately 2,400 gpm to 1,500 gpm with these improvements. However, combining this project with the South Road Improvements (DSA 045) brings the majority of the fire flows to above 2,000 gpm with a select few around 1,800 gpm. Distribution System Analysis No. 044.

PROPOSED IMPROVEMENTS

Abandon 400 LF of 6" CC CIP
Replace 1,400 LF of 6" & 8" CIP w/ 8" DIP
Replace 5 fire hydrant assemblies
Replace 17 service connections

PROJECT BENEFITS

The North Road Cross Country / Davey Glen Road Improvements abandons a CC water main, reduces District maintenance, and replaces an aging water main along Davey Glen Road.



EXPENDITURE SCHEDULE (2015 DOLLARS)

	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	Future
Planning, Design, CM	-----	-----	-----	-----	-----	-----
Construction	-----	-----	-----	-----	-----	-----
Contingency	-----	-----	-----	-----	-----	-----
Total Cost	-----	-----	-----	-----	-----	-----



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JOB No. 10012.07
DATE 05/28/15
SCALE AS NOTED
DRAWN: BY BL
CKD JP



MID-PENINSULA WATER DISTRICT
SAN MATEO COUNTY, CALIFORNIA
3 DAIRY LANE
BELMONT, CA 94002

CAPITAL IMPROVEMENT PROGRAM - 2015 UPDATE
NORTH ROAD CROSS COUNTRY / DAVEY GLEN ROAD
IMPROVEMENTS PROJECT 15-43

SHEET X
OF X

FRANCIS AVENUE / COURT
IMPROVEMENTS

PROJECT BACKGROUND

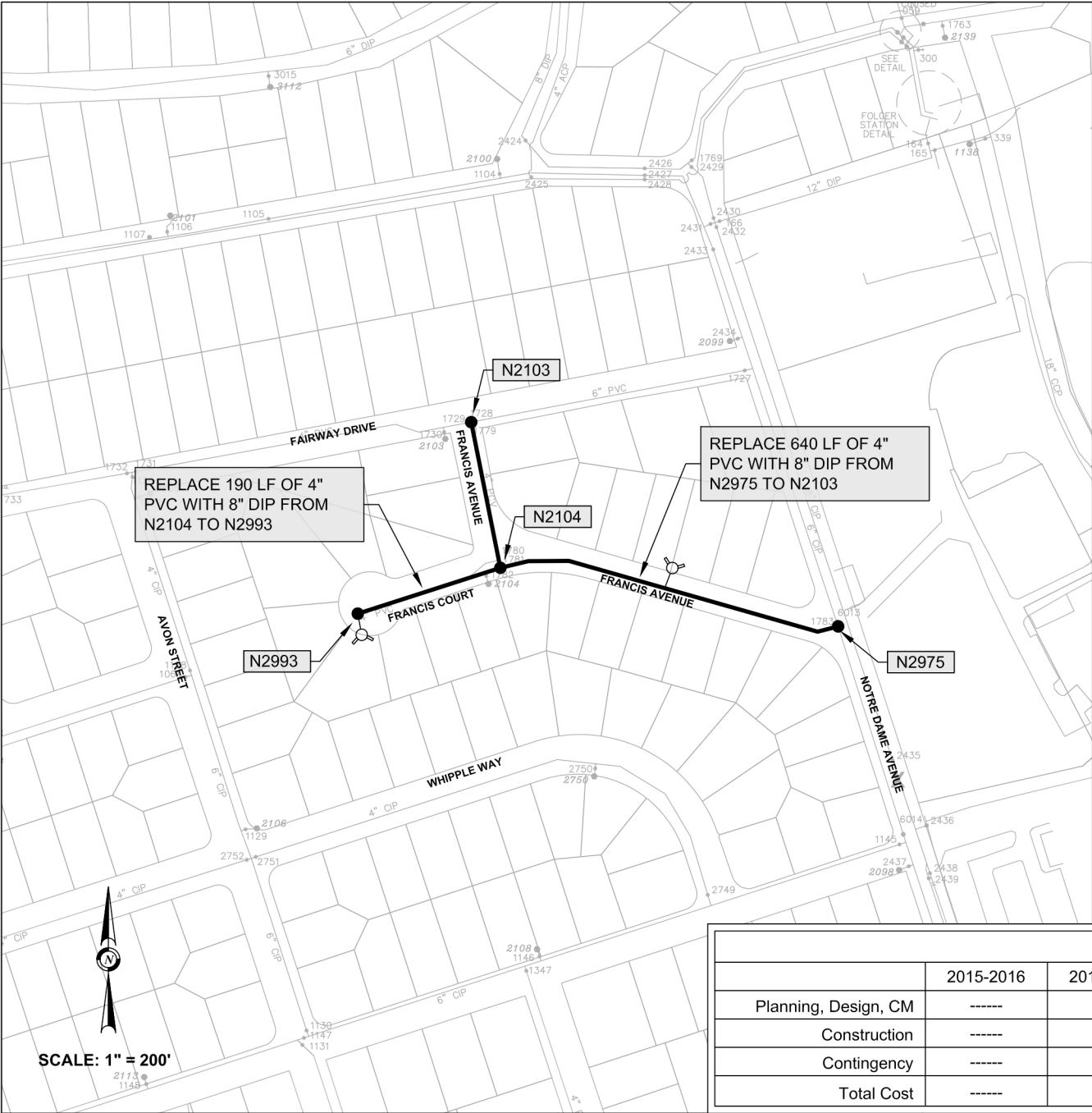
Francis Avenue is located between Fairway Drive and Notre Dame Avenue and has a 640 LF 4" polyvinylchloride (PVC) water main installed in 1975. Francis Court is located directly off Francis Avenue and also has 190 LF of 4" PVC installed in 1976. Fire flows along these streets are well below the recommended 1,500 gpm at 20 psi with flows as low as 925 gpm and 590 gpm on Francis Avenue and Francis Court respectively. In addition, no hydrant currently exists at the end of Francis Court. This project replaces a total 830 LF of 4" PVC with 8" ductile iron pipe (DIP) and adds an additional hydrant in the area. Hydraulic analysis indicates fire flow increases as much as 300% to over 2,350 gpm upon completion of this project. Distribution System Analysis No. 055

PROPOSED IMPROVEMENTS

- Replace 830 LF of 4" PVC with 8" DIP
- Install 1 new fire hydrant assembly
- Replace 1 fire hydrant assembly
- Replace 23 service connections

PROJECT BENEFITS

The Francis Avenue/Court Improvements replaces undersized 4" PVC water main with 8" DIP, improves fire protection with the addition of a hydrant, and improves fire flows in the area as much as 300%.



EXPENDITURE SCHEDULE (2015 DOLLARS)

	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	Future
Planning, Design, CM	-----	-----	-----	-----	-----	-----
Construction	-----	-----	-----	-----	-----	-----
Contingency	-----	-----	-----	-----	-----	-----
Total Cost	-----	-----	-----	-----	-----	-----

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3 DAIRY LANE
BELMONT, CA 94002

CAPITAL IMPROVEMENT PROGRAM - 2015 UPDATE
FRANCIS AVENUE / COURT IMPROVEMENTS
PROJECT 15-51

SHEET X
OF X



JOB No.	10012.07
DATE	05/28/15
SCALE	AS NOTED
DRAWN:	BY <u>BL</u> CKD <u>JP</u>



CAPITAL IMPROVEMENT PROGRAM - 2015 UPDATE
ACADEMY AVENUE / BELBURN DRIVE IMPROVEMENTS
PROJECT 15-53

The Academy Avenue / Belburn Drive Improvements abandons a 4" PVC water main providing little benefit to the system, replaces old and aging 4" PVC with new 8" DIP, reduces District maintenance, and improves fire flows in the area as much as 132%.

	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	Future
Planning, Design, CM	-----	-----	-----	-----	-----	-----
Construction	-----	-----	-----	-----	-----	-----
Contingency	-----	-----	-----	-----	-----	-----
Total Cost	-----	-----	-----	-----	-----	-----

OF	X
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