



Canal Street Flood Mitigation Project

Phase II

Neighborhood Preconstruction Meeting

March 15, 2017 7:00 p.m.

Enterprise Center Conference Room
State University, Central Campus

Agenda

- Introductions
- Community Relations / Communications
- Project Overview
- Scope of Work
- Schedule/Sequence of Construction
- Construction Preview
- Questions and Answers

Community Relations/ Communications

Who to contact - to be determined, P. Gioioso & Sons, Inc.

Notices — start of construction, prior to planned service disruption

Continuation of Special Needs

Helpful hints during construction

Engineering Department Website -

http://www.salem.com/Pages/SalemMA_Engineer/index

Email Blasts

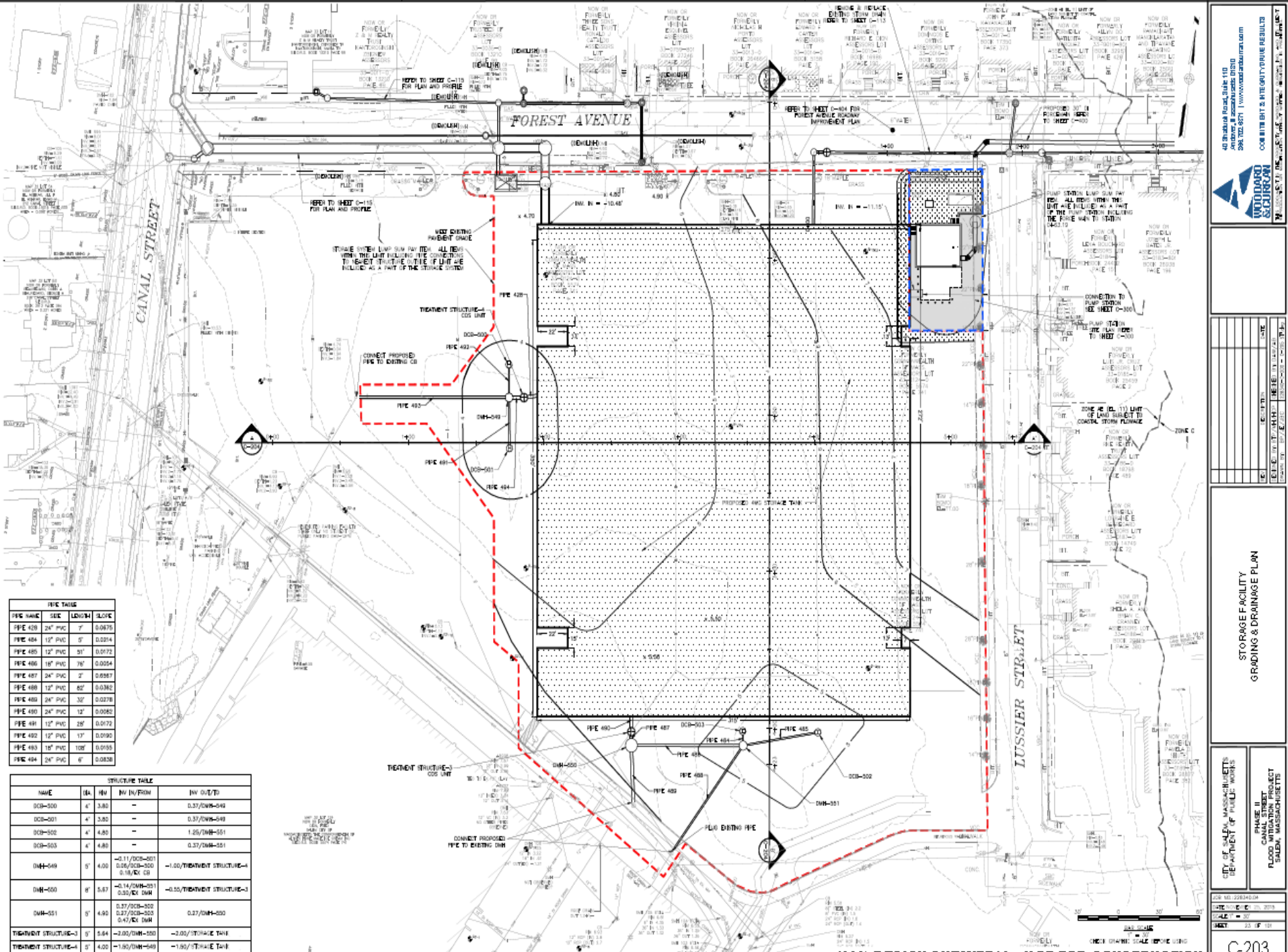
2 week look ahead - issued by email weekly and posted on website

Project Overview

Canal Street Flood Control Project

- Phase 1 — Canal Street Utility Project
- Canal Street Flood Control Project
 - Phase 2 (current) and Phase 3



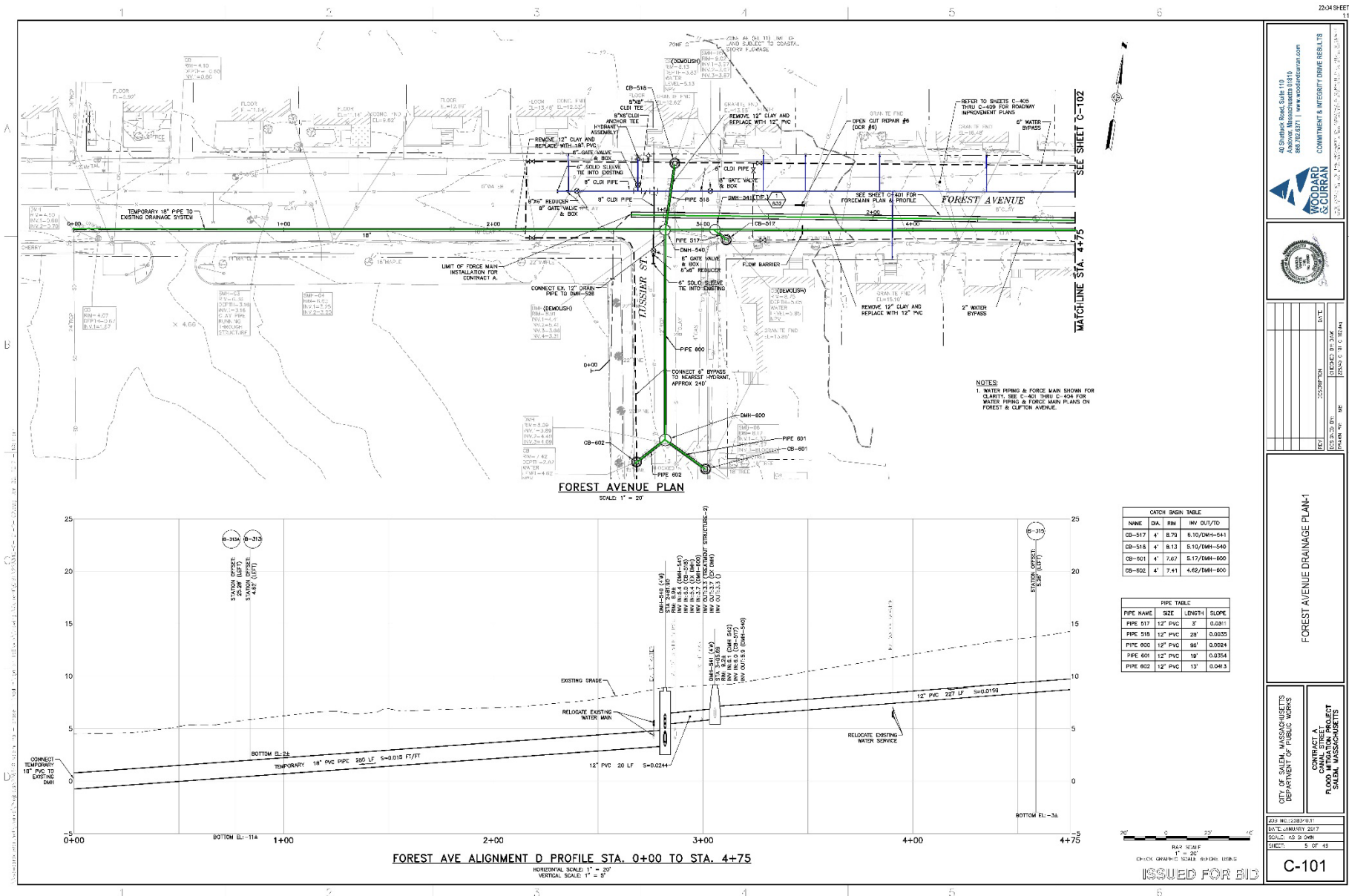


DATE	BY	CHK	APP	REV	DATE
01/11/2018	WAC	WAC	WAC	1	01/11/2018

Scope of Work

Forest Avenue and Clifton Street

- **Utility Improvements** (water, sewer and drainage)
 - New drainage, forcemain from future pump station
 - New watermain and services to water shut-offs
 - » Temporary water
 - Minor sewer repairs
- **Complete Streets Upgrades**
 - New sidewalks, crosswalks and ADA handicap ramps
 - » Including park access road
 - Bike Accomodations – Lane to the east, sharrow to west



40 Standard Road, Suite 110
Salem, Massachusetts 01970
800.762.0271 | www.woodward-clark.com



REV	DESCRIPTION	DATE
001	ISSUED FOR BIDD	01/11/2023
002	CHECKED BY: JAK	
003	DESIGNED BY: ME	
004	PLANNED BY: ME	

FOREST AVENUE DRAINAGE PLAN-1

CITY OF SALEM, MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS

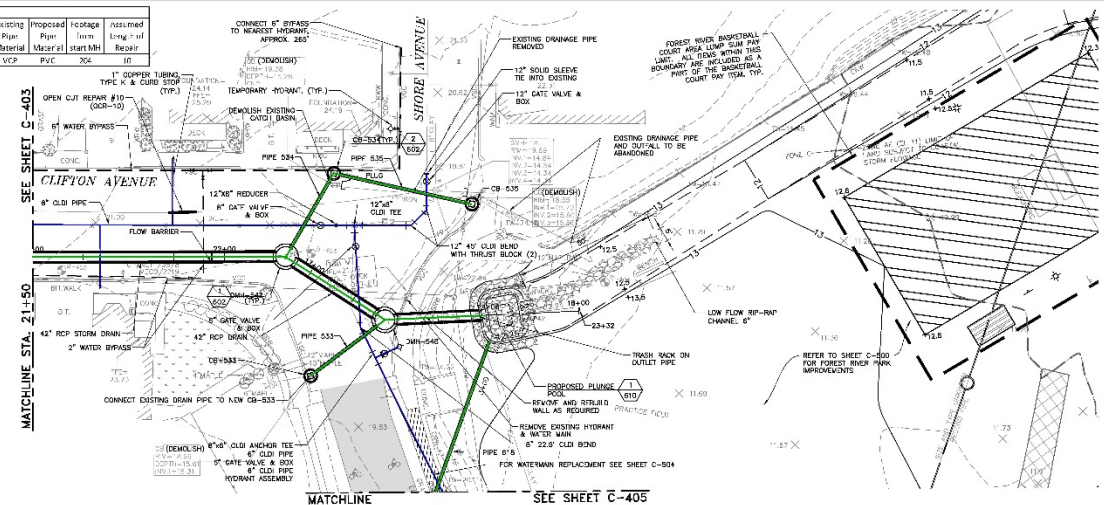
CONTRACT NO. 22-04
FLOOD MITIGATION PROJECT
SALEM, MASSACHUSETTS

DATE: 01/11/2023
DATE: JANUARY 2023
SCALE: AS SHOWN
SHEET: 5 OF 45

ISSUED FOR BIDD

C-101

Open Cut Details									
OC#	Start	End	Street	Cover	Pipe Dia.	Pipe Length	Material	Notes	Remarks
10	16	18	Clifton Ave.	Street	8	300	PVC	204	10

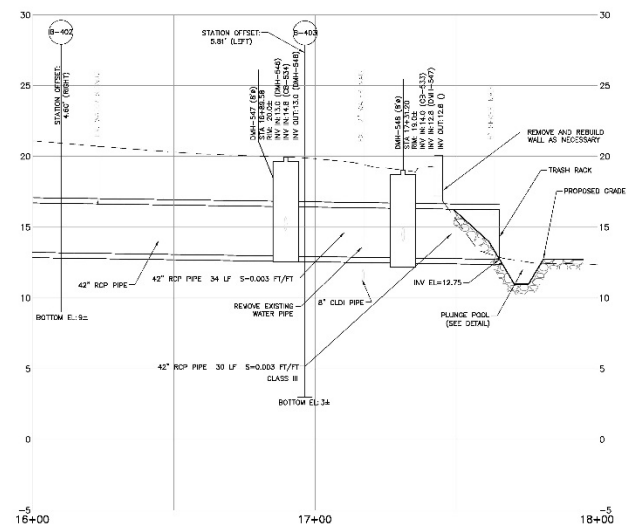


NOTES:
1. PROVIDE SOLID SLEEVE COUPLING TO CONNECT NEW WATER MAIN TO EXISTING WATER MAIN. IF REQUIRED, PROVIDE BATTERY S-TYPE COUPLING.

CLIFTON AVENUE PLAN
SCALE: 1" = 30'

CATCH BASIN TABLE			
NAME	DA	RM	RY OUT/TO
CB-533	4'	18.70	14.43/DWI-548
CB-534	4'	18.47	15.15/DWI-547
CB-535	4'	18.67	16.00/CB-534

PIPE TABLE			
PIPE NAME	SIZE	LENGTH	SLOPE
PIPE 533	12" PVC	27'	0.0160
PIPE 534	12" PVC	28'	0.0143
PIPE 535	12" PVC	16'	0.0163



CLIFTON AVENUE GRAVITY DRAINAGE PROFILE STA. 16+00 TO STA. 18+00
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 8'



ISSUED FOR BID

48 Shattuck Road, Suite 118
Boston, MA 02124
617-267-1077 | www.woodward-clinton.com

WOODWARD-CLINTON

CONSULTING ENGINEERS

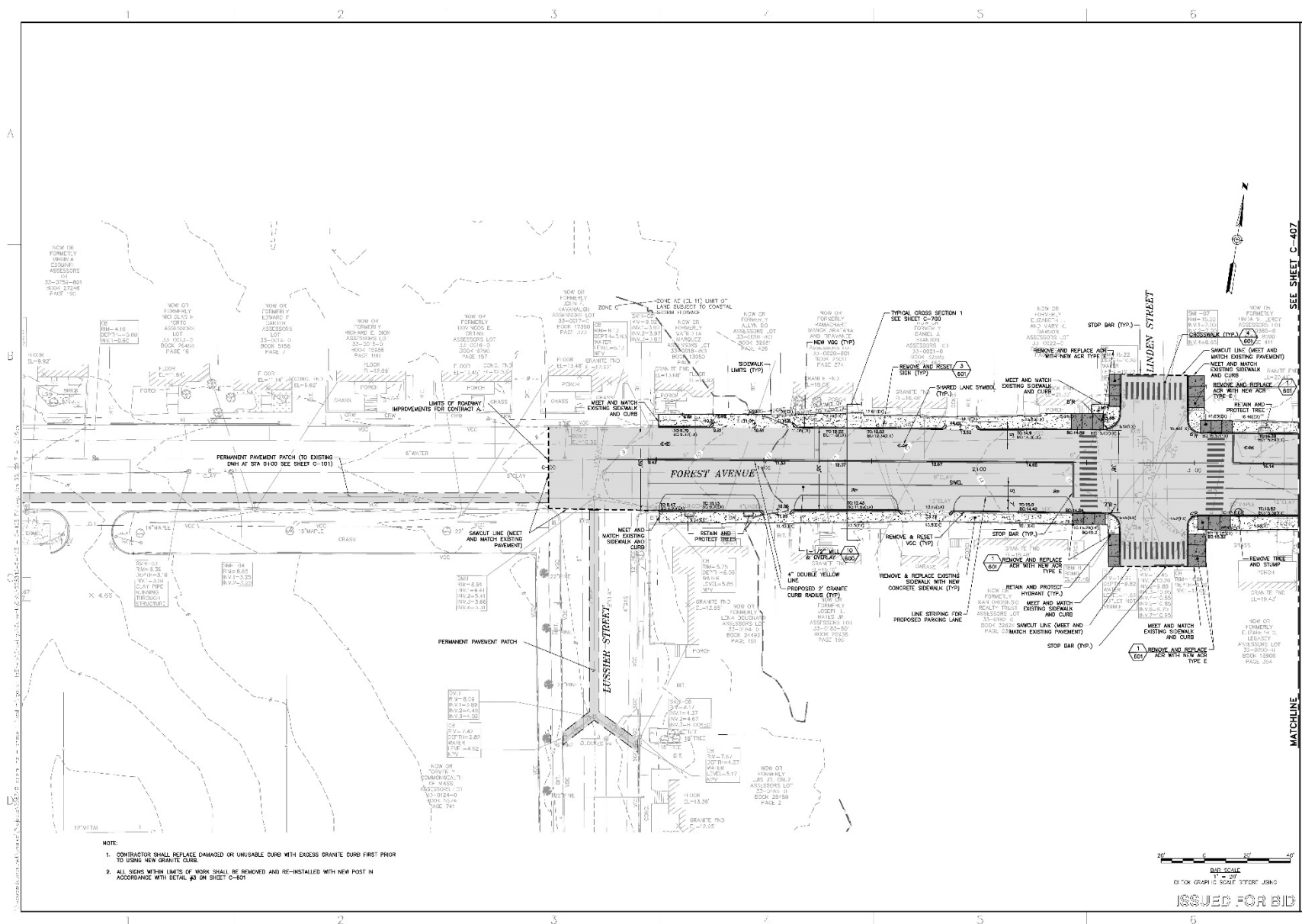
CLIFTON AVENUE FORCEMAIN PLAN & PROFILE 2

CITY OF SALEM, MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS

CONTRACT A
FLOOD MITIGATION PROJECT
CLIFTON AVENUE
SALEM, MASSACHUSETTS

ISSUED FOR BID

C-404



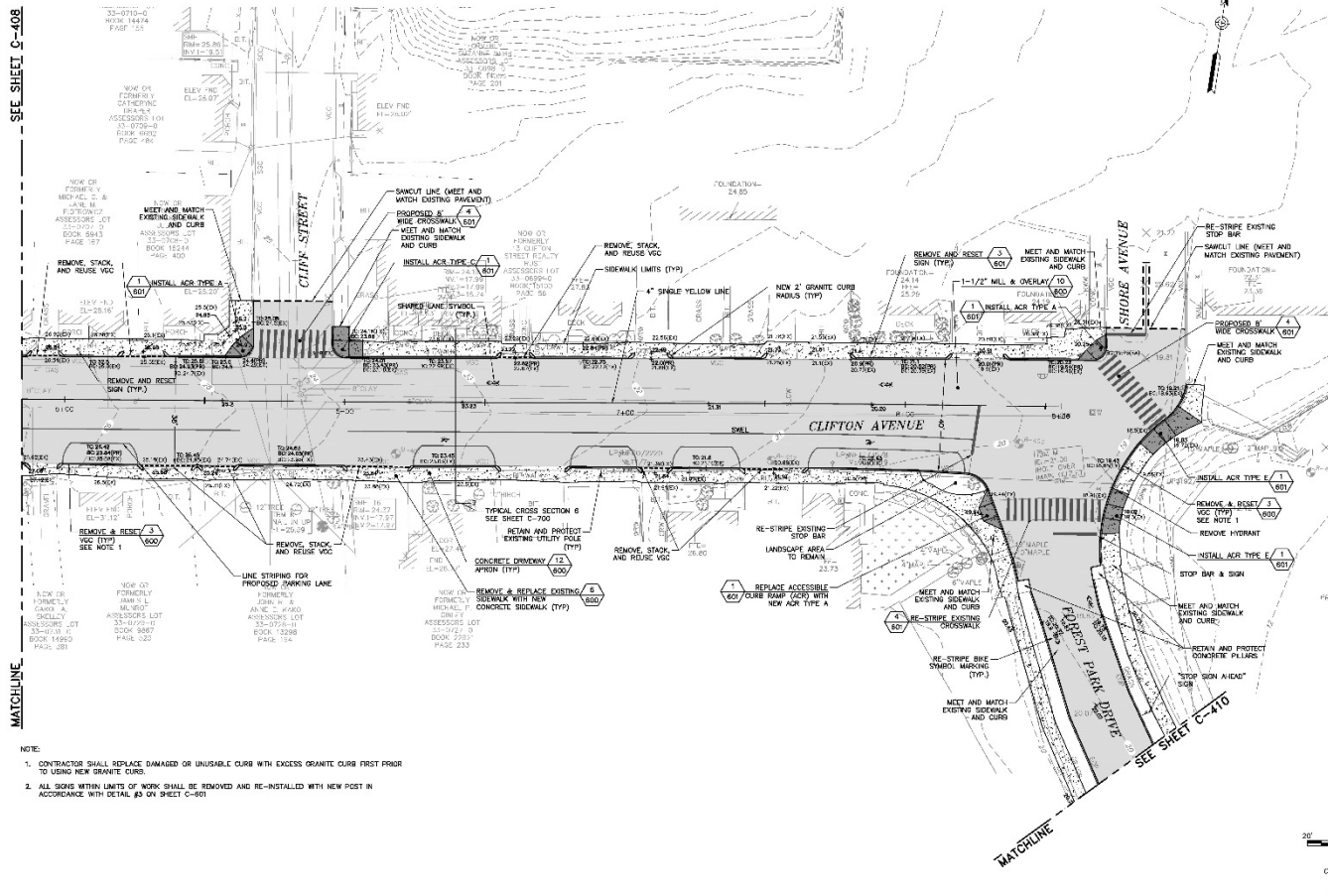
DATE	NO. OF STUDENTS	AGE

CLIFTON AVENUE ROADWAY
IMPROVEMENT PLAN-2

CONTRACT A
CANAL STREET
FLOOD MITIGATION PROJECT
SALEM, MASSACHUSETTS

JOB NO.: 2283/0.11
DATE: JANUARY 2007
SCALE: AS SHOWN
SHEET: 15 OF 45

C-409



Scope of Work

Forest River Park

- **Drainage Improvements**

- Plunge Pool, Swale, Pond Outlet and Parking Lot Bio-Retention System

- **Park Improvements**

- Relocated Basketball Court, Raised Baseball Field, Access to Pioneer Village, Access Road Pavement



1 2 3 4 5 6
A
B
C
D

40 Shattuck Road, Suite 110
Andover, Massachusetts 01915
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WOODARD & CURRAN
COMMITMENT & INTEGRITY DRIVE RESULTS

REV	DESCRIPTION	DATE

**FOREST RIVER PARK
RENDERING**

CITY OF SALEM, MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS

PROJECT:
FLOOD MITIGATION PROJECT
SALEM, MASSACHUSETTS

200 NO. 228/04/04
DATE: JANUARY 2018
SCALE: 1" = 20'
SHEET: 1 OF 1

RENDER

Schedule/Sequence of Construction

Duration - start April 2017, substantially complete by 12/31

April - Forest River Park - Pond work – outlet culvert and pioneer village access (2 months)

June – Forest Avenue and Clifton Street – Pipe work from Park towards Forest Ave, complete September

September - Forest Avenue and Clifton Street sidewalk work
- Park Improvements – Plunge Pool and Swale,
basketball and baseball field reconstruction, site work

December – Substantially complete

April, 2018 – Baseball field ready for use

Construction Preview

What to expect

- Dirty, Noisy, Dusty
- Traffic and parking impacts
- Work days, hours
- Access to businesses and homes
- Staging area
- Surface enhancements

Questions and Answers

Thank you.....