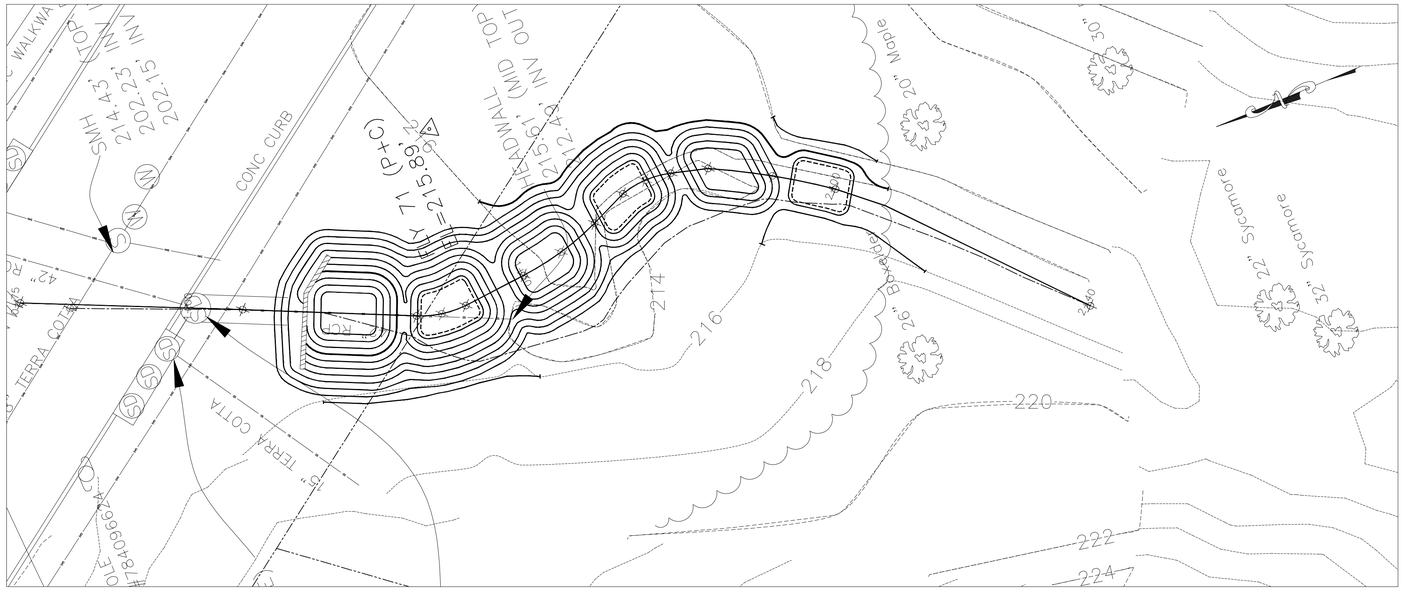
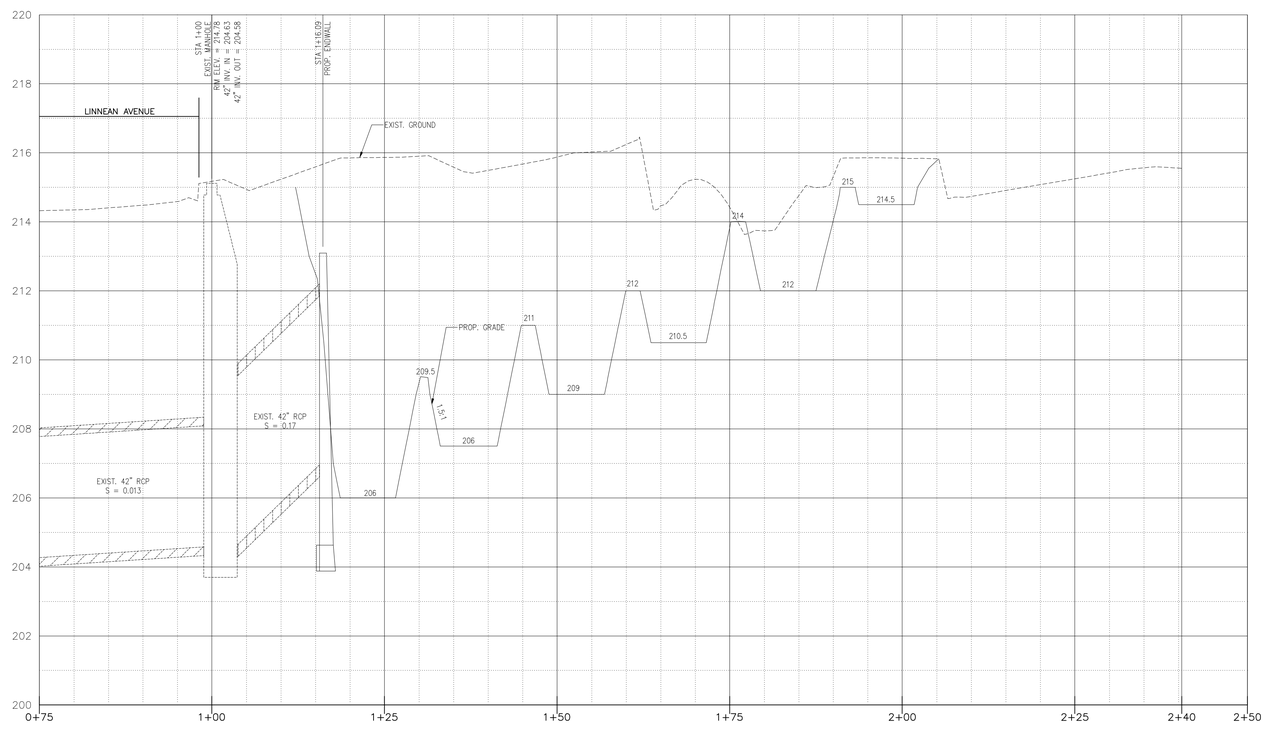




DDOE
DISTRICT DEPARTMENT OF THE ENVIRONMENT

GOVERNMENT OF THE DISTRICT OF COLUMBIA
DISTRICT DEPARTMENT OF THE ENVIRONMENT
1200 FIRST STREET NE, WASHINGTON, DC 20002

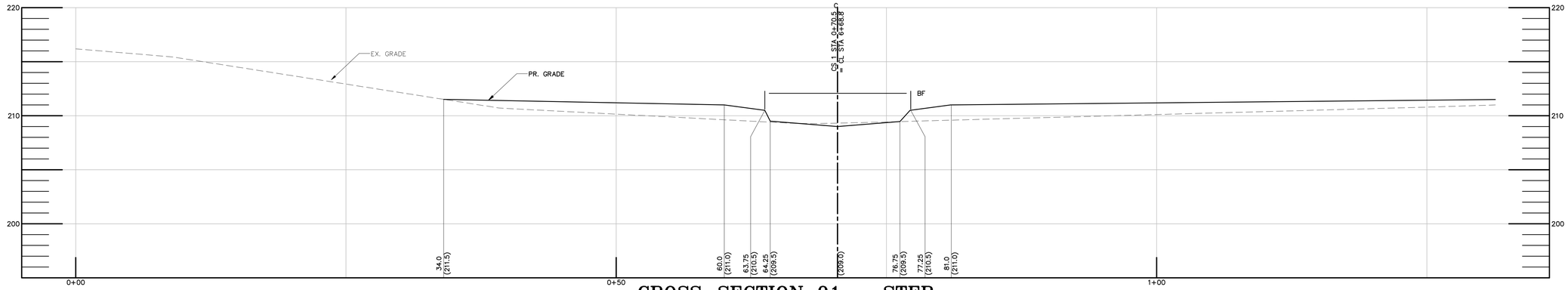
GREENHORNE & O'MARA
CONSULTING ENGINEERS
6110 FROST PLACE LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (301) 220-2619
www.g-and-o.com
FLORIDA KANSAS MARYLAND NORTH CAROLINA PENNSYLVANIA VIRGINIA WEST VIRGINIA

CLEAR CREEKS CONSULTING
1317 Knopp Road, Jarrettsville, Maryland 21084 (410) 692-2164

BayLand Consultants & Designers, Inc.
"Integrating Engineering and Environment"
1321Mercedes Drive, Suite C Hanover, Maryland 21076

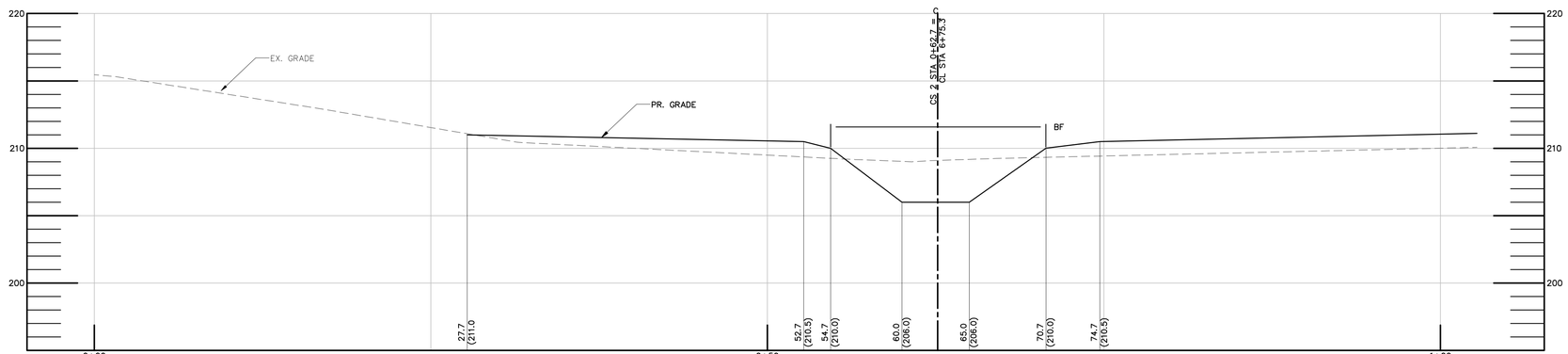
PLAN AND PROFILE TRIBUTARY D
FOR
BROAD BRANCH STREAM RESTORATION PROJECT
WASHINGTON, DISTRICT OF COLUMBIA

JANUARY 2011 SHEET NO. 16 OF 39



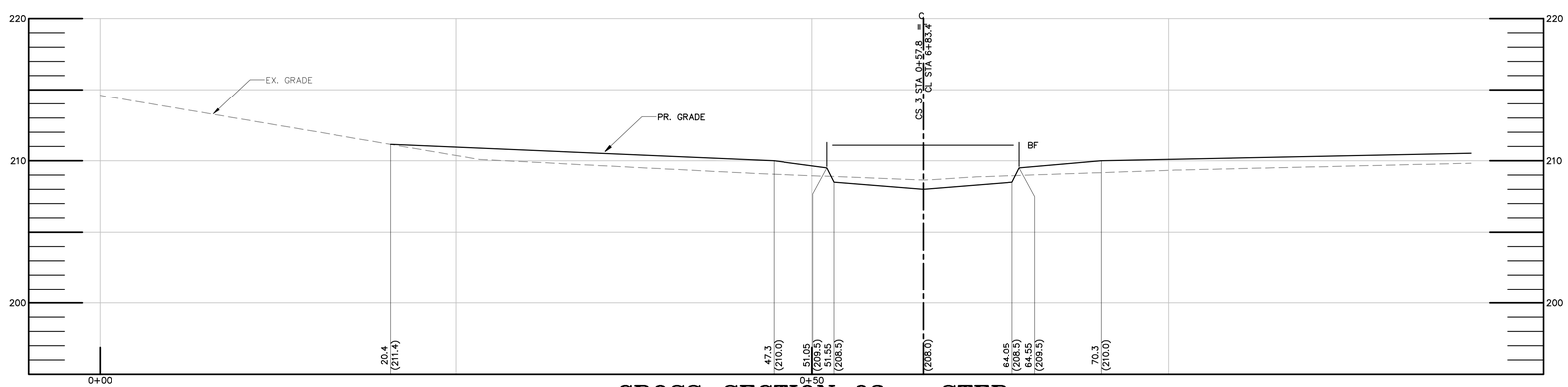
CROSS-SECTION 01 - STEP

SCALE: HORIZONTAL 1" = 5'
VERTICAL 1" = 5'



CROSS-SECTION 02 - POOL

SCALE: HORIZONTAL 1" = 5'
VERTICAL 1" = 5'



CROSS-SECTION 03 - STEP

SCALE: HORIZONTAL 1" = 5'
VERTICAL 1" = 5'

DDOE DISTRICT DEPARTMENT OF THE ENVIRONMENT

GOVERNMENT OF THE DISTRICT OF COLUMBIA
DISTRICT DEPARTMENT OF THE ENVIRONMENT
1200 FIRST STREET NE, WASHINGTON, DC 20002

GREENHORNE & O'MARA
CONSULTING ENGINEERS
6110 FROST PLACE LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (301) 220-2619
www.g-and-o.com
FLORIDA KANSAS MARYLAND NORTH CAROLINA PENNSYLVANIA VIRGINIA WEST VIRGINIA

CLEAR CREEKS CONSULTING
1317 Knopp Road, Jarrettsville, Maryland 21084 (410) 692-2164

BayLand Consultants & Designers, Inc.
"Integrating Engineering and Environment"
1321Mercedes Drive, Suite C Hanover, Maryland 21076

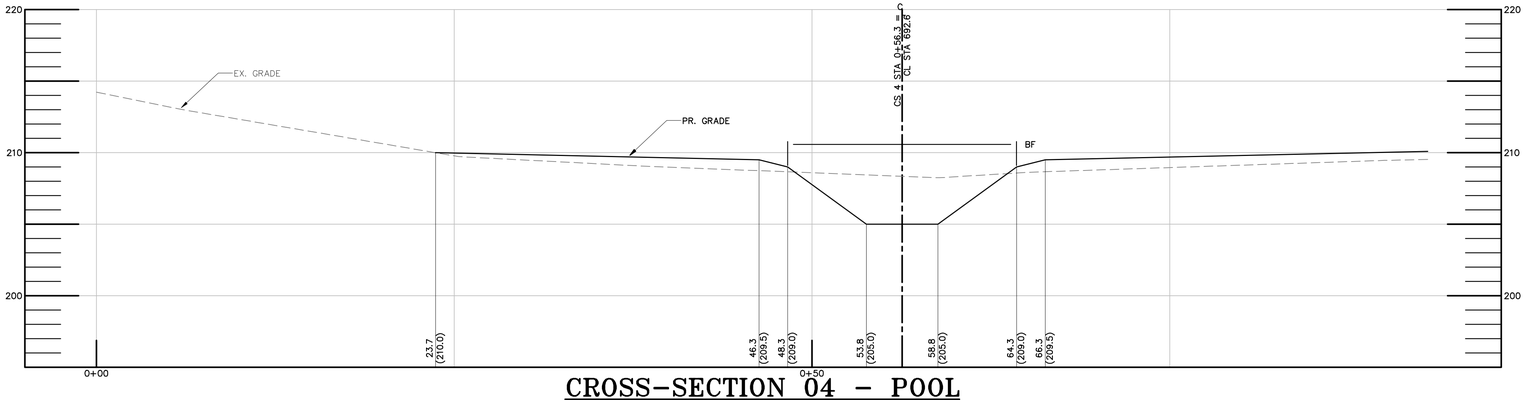
MAIN CHANNEL CROSS SECTIONS 1 –

FOR

BROAD BRANCH STREAM RESTORATION PRO.

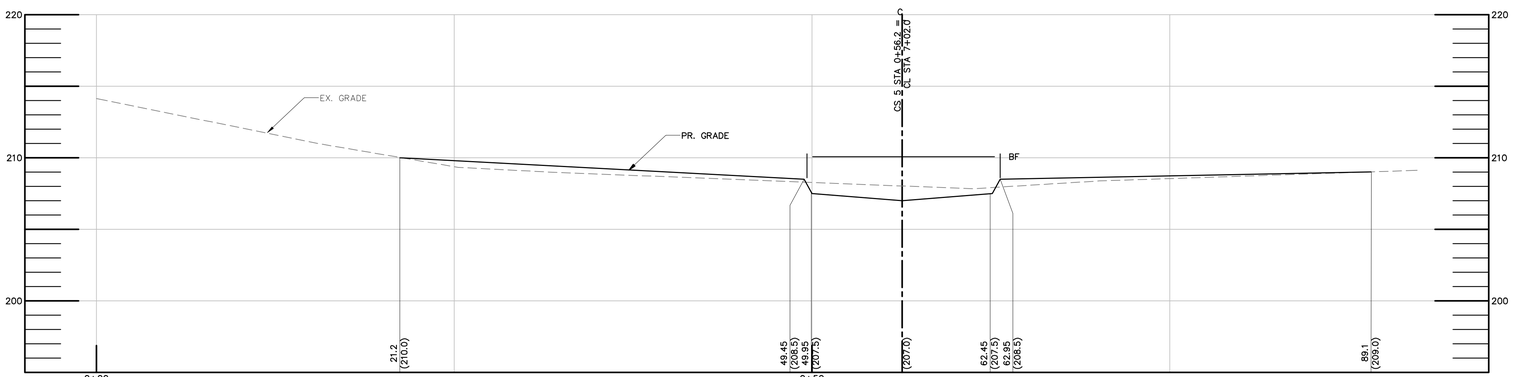
WASHINGTON, DISTRICT OF COLUMBIA

OCTOBER 2010 | SHEET NO. 17 OF



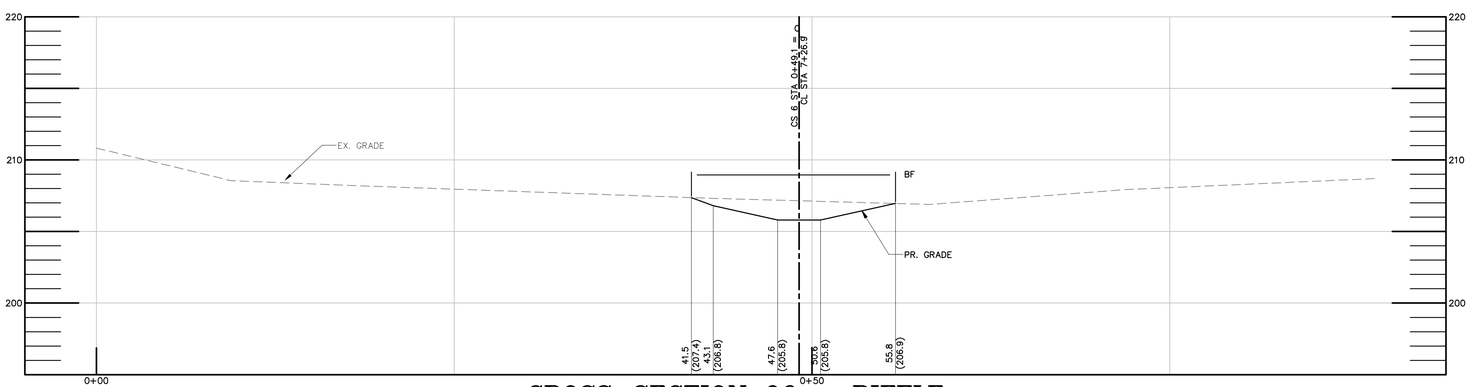
CROSS-SECTION 04 - POOL

SCALE: HORIZONTAL 1" = 5'
VERTICAL 1" = 5'



CROSS-SECTION 05 - STEP

SCALE: HORIZONTAL 1" = 5'
VERTICAL 1" = 5'



CROSS-SECTION 06 - RIFFLE

SCALE: HORIZONTAL 1" = 5'
VERTICAL 1" = 5'

DDOE DISTRICT DEPARTMENT OF THE ENVIRONMENT

GOVERNMENT OF THE DISTRICT OF COLUMBIA
DISTRICT DEPARTMENT OF THE ENVIRONMENT
1200 FIRST STREET NE, WASHINGTON, DC 20002

GREENHORNE & O'MARA
CONSULTING ENGINEERS
6110 FROST PLACE LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (301) 220-2619
www.g-and-o.com
FLORIDA KANSAS MARYLAND NORTH CAROLINA PENNSYLVANIA VIRGINIA WEST VIRGINIA

CLEAR CREEKS CONSULTING
1317 Knopp Road, Jarrettsville, Maryland 21084 (410) 692-2164

BayLand Consultants & Designers, Inc.
"Integrating Engineering and Environment"
1321Mercedes Drive, Suite C Hanover, Maryland 21076

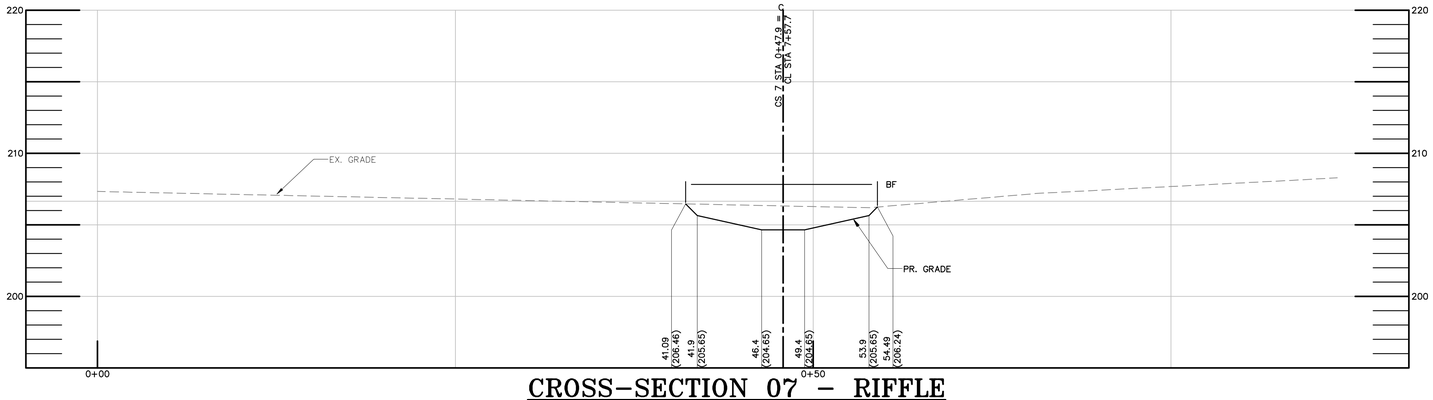
MAIN CHANNEL CROSS SECTIONS 4 –

FOR

BROAD BRANCH STREAM RESTORATION PRO.

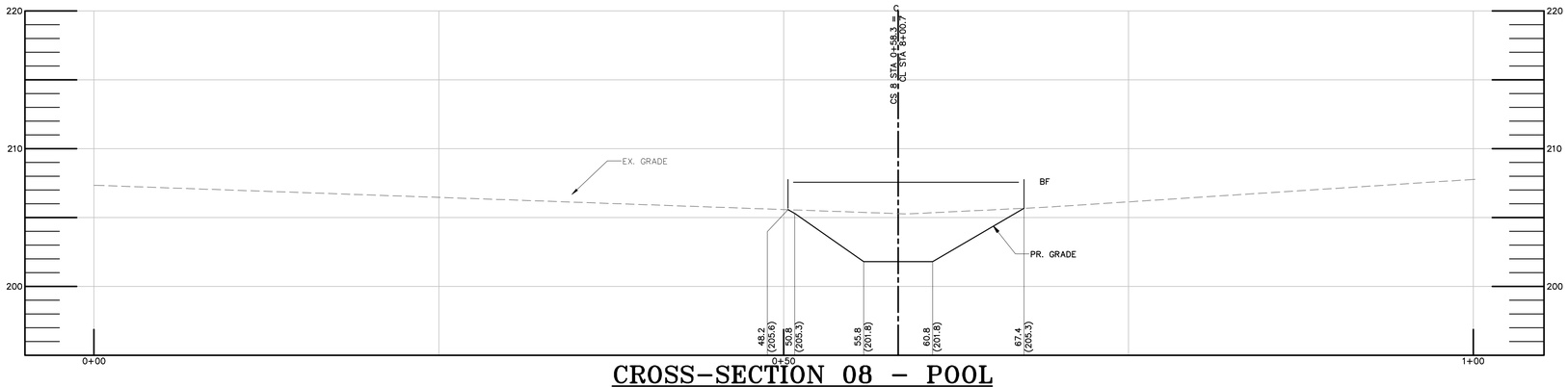
WASHINGTON, DISTRICT OF COLUMBIA

OCTOBER 2010 | SHEET NO. 18 OF _



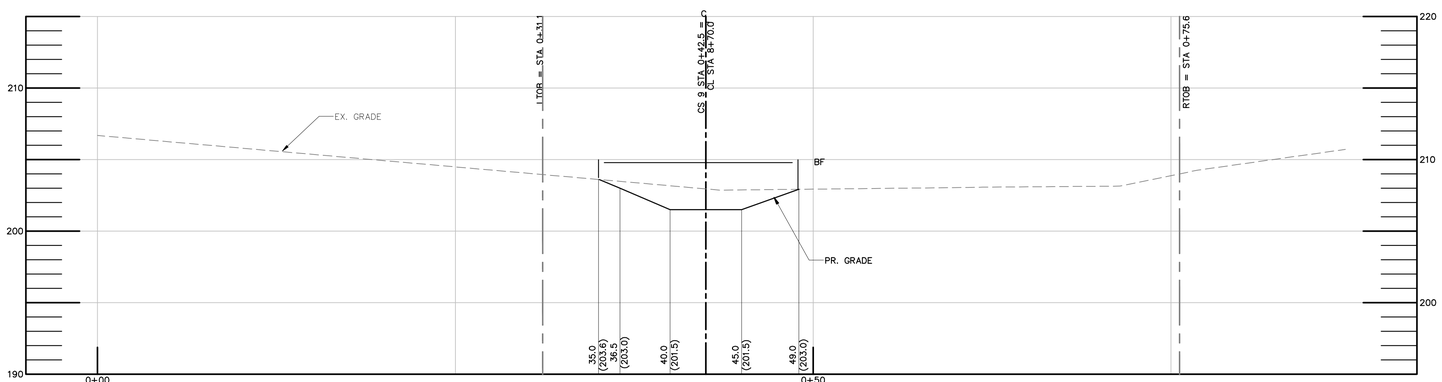
CROSS-SECTION 07 - RIFFLE

SCALE: HORIZONTAL 1" = 5'
VERTICAL 1" = 5'



CROSS-SECTION 08 - POOL

SCALE: HORIZONTAL 1" = 5'
VERTICAL 1" = 5'



CROSS-SECTION 09 - RUN

SCALE: HORIZONTAL 1" = 5'
VERTICAL 1" = 5'

DDOE DISTRICT DEPARTMENT OF THE ENVIRONMENT

GOVERNMENT OF THE DISTRICT OF COLUMBIA
DISTRICT DEPARTMENT OF THE ENVIRONMENT
1200 FIRST STREET NE, WASHINGTON, DC 20002

GREENHORNE & O'MARA
CONSULTING ENGINEERS
6110 FROST PLACE LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (301) 220-2619
www.g-and-o.com
FLORIDA KANSAS MARYLAND NORTH CAROLINA PENNSYLVANIA VIRGINIA WEST VIRGINIA

CLEAR CREEKS CONSULTING
1317 Knopp Road, Jarrettsville, Maryland 21084 (410) 692-2164

BayLand Consultants & Designers, Inc.
"Integrating Engineering and Environment"
1321Mercedes Drive, Suite C Hanover, Maryland 21076

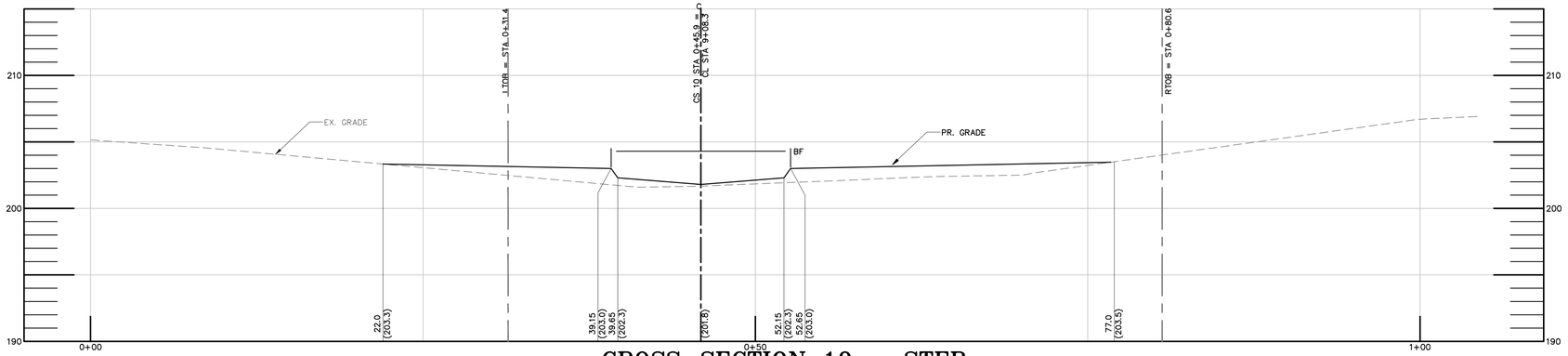
MAIN CHANNEL CROSS SECTIONS 7 –

FOR

BROAD BRANCH STREAM RESTORATION PRO.

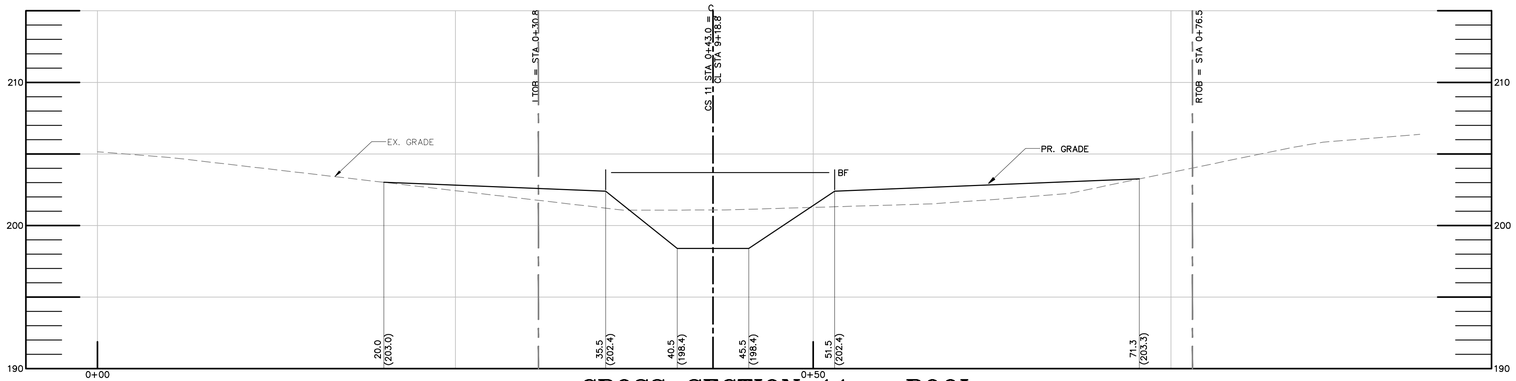
WASHINGTON, DISTRICT OF COLUMBIA

OCTOBER 2010 | SHEET NO. 19 OF



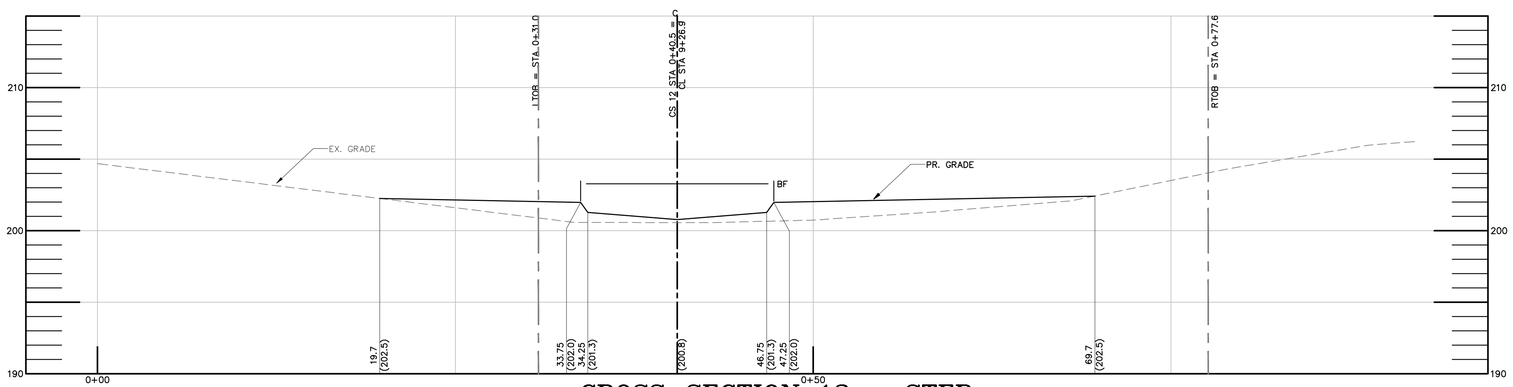
CROSS-SECTION 10 - STEP

SCALE: HORIZONTAL 1" = 5'
VERTICAL 1" = 5'



CROSS-SECTION 11 - POOL

SCALE: HORIZONTAL 1" = 5'
VERTICAL 1" = 5'



CROSS-SECTION 12 - STEP

SCALE: HORIZONTAL 1" = 5'
VERTICAL 1" = 5'

DDOE DISTRICT DEPARTMENT OF THE ENVIRONMENT

GOVERNMENT OF THE DISTRICT OF COLUMBIA
DISTRICT DEPARTMENT OF THE ENVIRONMENT
1200 FIRST STREET NE, WASHINGTON, DC 20002

GREENHORNE & O'MARA
CONSULTING ENGINEERS
6110 FROST PLACE LAUREL, MD 20707
PHONE: (301) 982-2800 FAX: (301) 220-2619
www.g-and-o.com
FLORIDA KANSAS MARYLAND NORTH CAROLINA PENNSYLVANIA VIRGINIA WEST VIRGINIA

CLEAR CREEKS CONSULTING
1317 Knopp Road, Jarrettsville, Maryland 21084 (410) 692-2164

BayLand Consultants & Designers, Inc.
"Integrating Engineering and Environment"
1321Mercedes Drive, Suite C Hanover, Maryland 21076

MAIN CHANNEL CROSS SECTIONS 10 –

FOR

BROAD BRANCH STREAM RESTORATION PRO.

WASHINGTON, DISTRICT OF COLUMBIA

OCTOBER 2010 | SHEET NO. 20 OF