



PUBLIC NOTICE

US Army Corps
of Engineers
New York District
Jacob K. Javits Federal Building
New York, N.Y. 10278-0090
ATTN: Regulatory Branch

In replying refer to:

Public Notice Number: 2004-00727-YN
Issue Date: February 14, 2005
Expiration Date: March 14, 2005

To Whom It May Concern:

The New York District, Corps of Engineers has received an application for a Department of the Army permit pursuant to Section 404 of the Clean Water Act (33 U.S.C. 1344).

APPLICANTS: Albany Associates, LLC
8348 Boston-Colden Road
Colden, NY 14033

and

Lowe's Home Centers, Inc.
Real Estate Office
Highway 268 East - East Dock
North Wilkesboro, NC 28659

ACTIVITY: Discharge fill material into waters of the United States to construct a commercial development consisting of a Lowe's Home Center and two out parcel businesses.

WATERWAY: Quackenderry Creek, unnamed tributaries and adjacent wetlands (Hudson River Basin)

LOCATION: Town of North Greenbush, Rensselaer County, New York.

A detailed description and plans of the applicant's activity are enclosed to assist in your review.

The decision whether to issue a permit will be based on an evaluation of the probable impact, including cumulative impacts, of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historical properties, fish and wildlife values, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, consideration of property ownership and, in general the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in

CENAN-OP-RW

PUBLIC NOTICE NO. 2004-00727-YN

preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

ALL COMMENTS REGARDING THE PERMIT APPLICATION MUST BE PREPARED IN WRITING AND MAILED TO REACH THIS OFFICE BEFORE THE EXPIRATION DATE OF THIS NOTICE, otherwise, it will be presumed that there are no objections to the activity.

Any person may request, in writing, before this public notice expires, that a public hearing be held to collect information necessary to consider this application. Requests for public hearings shall state, with particularity, the reasons why a public hearing should be held. It should be noted that information submitted by mail is considered just as carefully in the permit decision process and bears the same weight as that furnished at a public hearing.

Our preliminary determination is that the activity for which authorization is sought herein is not likely to affect any Federally endangered or threatened species or their critical habitat. However, pursuant to Section 7 of the Endangered Species Act (16 U.S.C. 1531), the District Engineer is consulting with the appropriate Federal agency to determine the presence of and potential impacts to listed species in the project area or their critical habitat.

Based upon a review of the latest published version of the National Register of Historic Places and information provided by the New York State Office of Parks, Recreation and Historic Preservation (SHPO), it has been determined that two properties that are eligible for inclusion in the National Register of Historic Places, the Van Alen House and Blooming Grove Road Schoolhouse, are in the project vicinity. The New York District, U.S. Army Corps of Engineers is currently coordinating with the SHPO to ensure that the requirements of Section 106 of the National Historic Preservation Act of 1966 are satisfied. Presently unknown archeological, scientific, prehistorical, or historical data may be lost by work accomplished under the required permit.

Reviews of activities pursuant to Section 404 of the Clean Water Act will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404 (b) of the Clean Water Act and the applicant will obtain a water quality certificate or waiver from the appropriate state agency in accordance with Section 401 of the Clean Water Act prior to a permit decision.

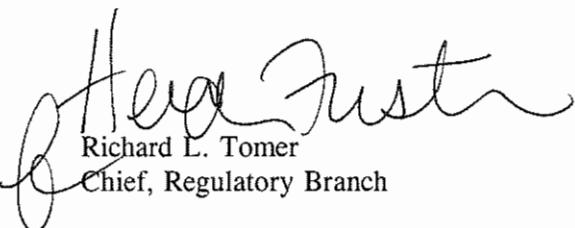
In addition to any required water quality certificate, the applicant has obtained or requested the following governmental authorization for the activity under consideration:

New York State Department of Environmental Conservation - SPDES permit
New York State Department of Transportation - Authorization for Road Work
Rensselaer County - Approval for Stormwater and Sewer and Water Supply
Town of North Greenbush - Site Plan, Subdivision, Utility Approvals, Variance for Parking

It is requested that you communicate the foregoing information concerning the activity to any persons known by you to be interested and who did not receive a copy of this notice. If you have any questions concerning this application, you may contact this office at (518) 270-0588 and ask for Christine Delorier.

CENAN-OP-RW
PUBLIC NOTICE NO. 2004-00727-YN

For more information on New York District Corps of Engineers programs, visit our website at
<http://www.nan.usace.army.mil>


Richard L. Tomer
Chief, Regulatory Branch

Enclosures

WORK DESCRIPTION

The applicants, Albany Associates, LLC, and Lowe's Home Centers, Inc., have requested Department of the Army authorization for the discharge of fill material into waters of the United State to facilitate the construction of a commercial development that would consist of a Lowe's Home Center and two out parcel businesses. The 28.04 acre site is located along the west side of New York State Route 4 in the Town of North Greenbush, Rensselaer County, New York.

The work would involve the discharge of fill material into 1,106 linear feet of the Quackenderry Creek and 0.43 acre of predominantly forested wetlands located adjacent to the creek to construct the commercial development and access roads. The building for the Lowe's Home Center would be 165,765 square feet and 540 parking spaces would be provided for this facility. Space for two out parcel businesses is also proposed. The proposed buildings would be 20,000 and 5,000 square feet, and would have 133 and 50 parking spaces, respectively. The development fill would also cause the loss of 0.20 acre of forested wetlands that were determined to be isolated and not under the jurisdiction of this office. In addition, the applicants propose to discharge fill material into approximately 30 linear feet of an intermittent tributary to the Quackenderry Creek to construct a stormwater management basin in the southwestern corner of the site, and propose to discharge fill material into 22 linear feet of a perennial tributary to the Quackenderry Creek and 0.01 acre of adjacent wetlands to construct a stormwater outfall with scour protection in the northern portion of the site.

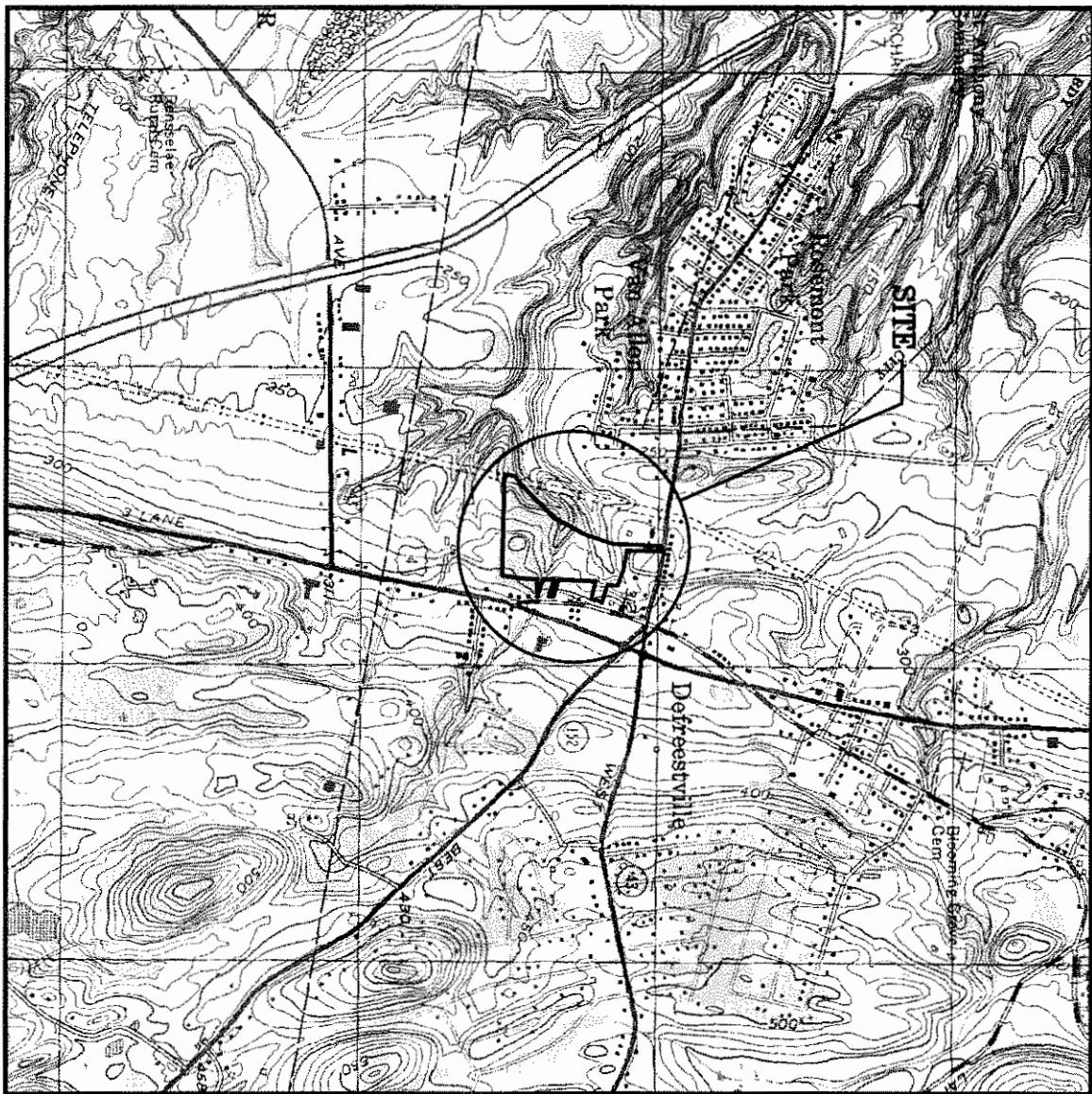
On the site, the Quackenderry Creek is perennial and bisects the site from east to west. It is a stable channel throughout the site, confined within a small valley with mature trees along most of it. The upstream portion of the creek is steeply sloped and confined within a bedrock channel. The downstream portion of the creek is flatter, has a predominantly gravel bed, and is considered a riffle and pool complex. As mitigation for this loss, the applicants propose to construct a new section of stream channel through forested uplands along the southern perimeter of the development fill. A total of 1,850 linear feet of new stream channel would be established, of which, 140 linear feet of stream would flow through 48-inch diameter box culverts that would support two road crossings. The remainder of the channel would be open, and various treatments would be applied to the banks, including stone protection and the establishment of vegetation. The substrate of the creek would consist of a layer of varying sized shale on the surface over a compacted aggregate sub-pavement. Rock and log weirs and boulder clusters are also proposed to provide channel stability and habitat. Wetlands are not proposed along the new stream channel, however the applicants stated they would determine the feasibility of establishing wetlands along the channel during the final design of the stream mitigation plans. Finally, the applicants propose to preserve the stream channel and a buffer along it in perpetuity. Due to future maintenance needs, the 4.36 acre preservation area would not include the culverted sections of the channel.

To further mitigate the proposed impacts to aquatic resources, the applicants propose to restore 0.35 acre of previously filled wetlands, enhance 0.25 acre of uplands, and perform bank stabilization activities along the perennial tributary to the Quackenderry Creek. All of this mitigation is proposed in the northern portion of the site. The wetland restoration work would involve the removal of old fill, including an abandoned bridge structure and retaining wall, and the planting of hydrophytic vegetation to re-establish shrub scrub and emergent wetlands. The upland enhancement work would involve grading to provide a more natural transition along the restored wetlands, the planting of trees, and seeding with wildflower and erosion control seed mixes. The bank stabilization work would involve grading a 0.02 acre area, which includes 0.01 acre of existing wetlands, along the stream to provide a more gentle slope. Three rows of coir logs and wattles, ranging in size from 28 to 22 linear feet, would be installed along the base of the proposed bank. The remainder of the graded area would be planted with native trees and shrubs. To facilitate the accomplish of these mitigation activities, the applicants propose to temporarily disturb 0.07 acre of shrub scrub wetlands to provide access and establish erosion and sediment controls in the mitigation area. The disturbed areas would be restored in-kind. Finally, the applicants propose to preserve these mitigation areas, along with existing stream channel, wetlands and uplands that surround them in perpetuity. Due to future maintenance needs, the 4.14 acre preservation area would not include the portion of the stream where the stormwater outfall is proposed.

Permit Application Number 2004
X:\Lowes\Stream\dwg\Site_Locatoin_8-Sxitl.dwg Dec 13, 2004 10:28:11AM, DBR

Permit Application Number 2004-00727-4N
X:\Lowes\Stream\along\Street\Section_8-5x11along Dec 13, 2004 10:28AM, DBR

Sheet 1 of 43



SCALE: 1" = 2000'

The logo for Lowe's Home Centers, Inc. It features the word "LOWE'S" in a bold, black, sans-serif font, with a registered trademark symbol (®) to the right. Below "LOWE'S", the words "HOME CENTERS, INC." are written in a smaller, all-caps, sans-serif font.

卷之三

1ST FLOOR 2ND FLOOR 3RD FLOOR 4TH FLOOR	SITE LOCATION MAP
TOWN OF NORTH GREENBUSH, NEW YORK	
PANO & CLERK	DRAWN BY
TIC/COCO/RK	



ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
ROUTE 146 CLYPTON PARK, N.Y. 12055 (518) 377-7421
PHENOMENAL LANDSCAPE ARCHITECTURE LAND SURVEYS

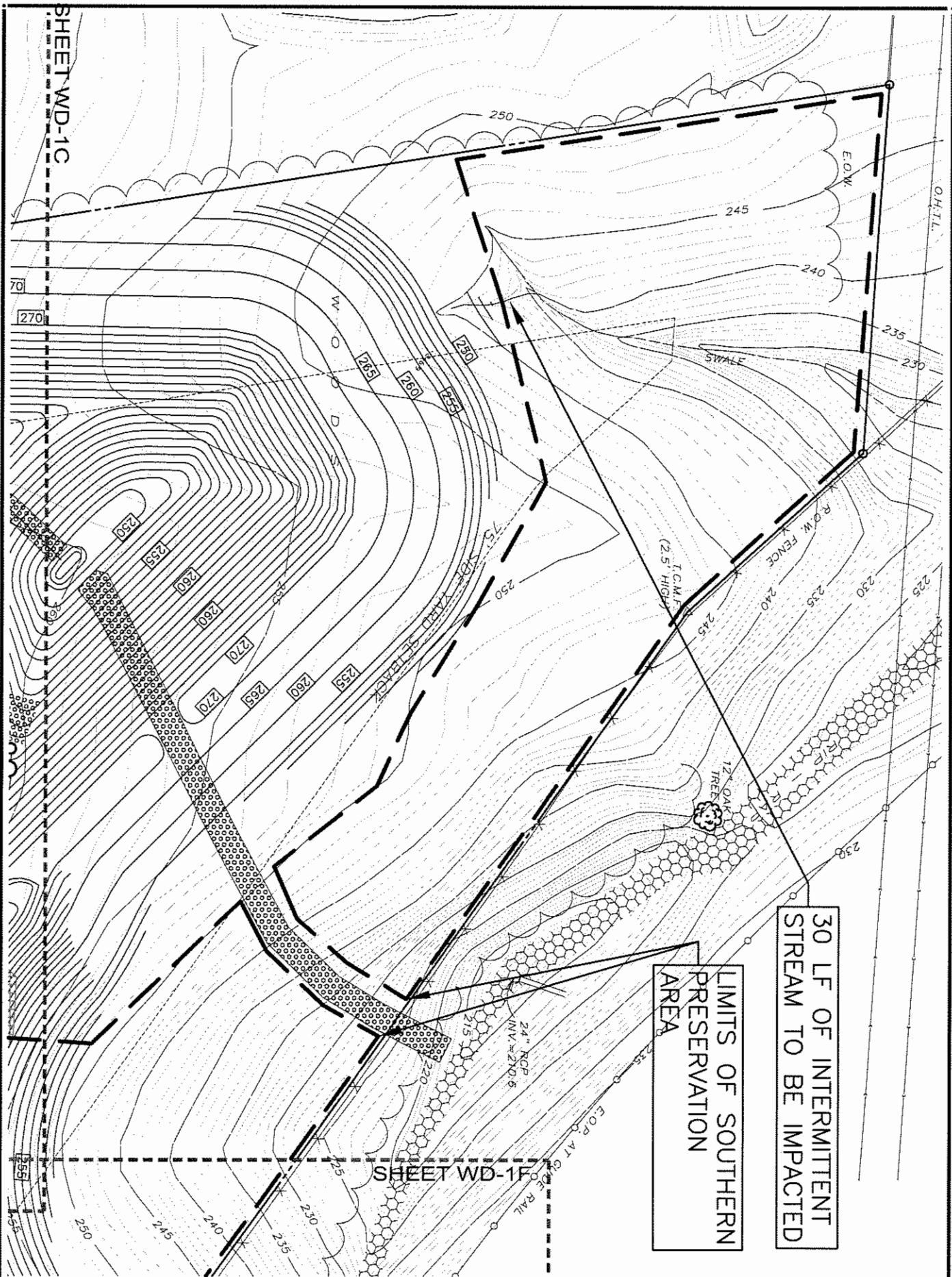
SHEET WD-1C

X:\Lowes\Wetland Disturbance\dwg\Wtind_Dis_Lowe_Nrth_Grnbsht.dwg

Dec 10, 2004 01:53:30PM, DBR

Application No. 2004-00727-YN

Sheet 3 of 43



WATER OF THE U.S. DISTURBANCE AND MITIGATION PLANS TOWN OF NORTH GREENBUSH, NEW YORK <small>PROJECT NO. [REDACTED] APPROVAL NO. [REDACTED]</small>	 ENGINEERING AND CONSTRUCTION RYB 283 EAST, EASTDOCK N WILKESBORO, NC 28659 336.658.4000 (V) 336.658.3257 (F)	 ENVIRONMENTAL DESIGN PARTNERSHIP, LLC ROUTE 148 CLINTON PARK, NY 12050 (518) 274-7421 LOWELL ARCHITECTURE, INC. [REDACTED]	 SCALE: 1"-50'	 REVISIONS A <small>DATE DESCRIPTION</small>

SHEET WD-1B

LANDS N/F
ORTH GREENBUSH
ASSOCIATES, LLC.

NUT AT HEAD OF ARROW
ON FIRE HYDRANT
ELEV=288.12

◎

Land Disturbance\deg\Wtind_Dis_Low_North_Gribshaw Dec 10, 2004 015351PM DBR

X:\Lowes\Wetland Disturbance\dwg\Wtnd_Dis_Lowe_North_Grnbsch.dwg

Dec 10, 2004 01:53:51PM, DBR

1

X:\Lowes\Wetland Disturbance\dwg\Wtnd_Dis_Lone_North_Grnbshdwg Application No.: 2004-00777-HN Dec. 10, 2004 013535PM, DBR

Sheet 4 of 43

SHEET WD-1D

SHEET WD-1G

WATERS OF THE U.S.
DISTURBANCE AND
MITIGATION PLANS
TOWN OF NORTH GREENBUSH

LOWE'S®
ENGINEERING AND
CONSTRUCTION



ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
ROUTE 14B CLIFTON PARK, N.Y. 12068 (518) 371-7821
ENVIRONMENTAL LANDSCAPE ARCHITECTURE LAND SURVEYS

SCALE: 1"=50'

10

卷之三

104

10

REVISIONS

The logo for Lowe's Home Centers, Inc. It features the word "LOWE'S" in a bold, black, sans-serif font, with a registered trademark symbol (®) at the end. Below "LOWE'S", the words "HOME CENTERS, INC." are written in a smaller, all-caps, black, sans-serif font.

ISSUE DATE

SHEET WD-1C



HOME CENTERS, INC.

REVISIONS

DATE

INTEGRITY

AND INTEGRITY

DESCRIPTION

**35 LF OF 48" CONCRETE
BOX CULVERT**

SHEET WD-1H

SCALE: 1" = 50'
NORTH
EAST

LIMITS OF SOUTHERN
PRESERVATION
AREA

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
ROUTE 148 CLIFTON PARK, N.Y. 12068 (518) 274-7821
LOWE'S CONSTRUCTION MANAGEMENT

WATERS OF THE U.S.
DISTURBANCE AND
MITIGATION PLANS

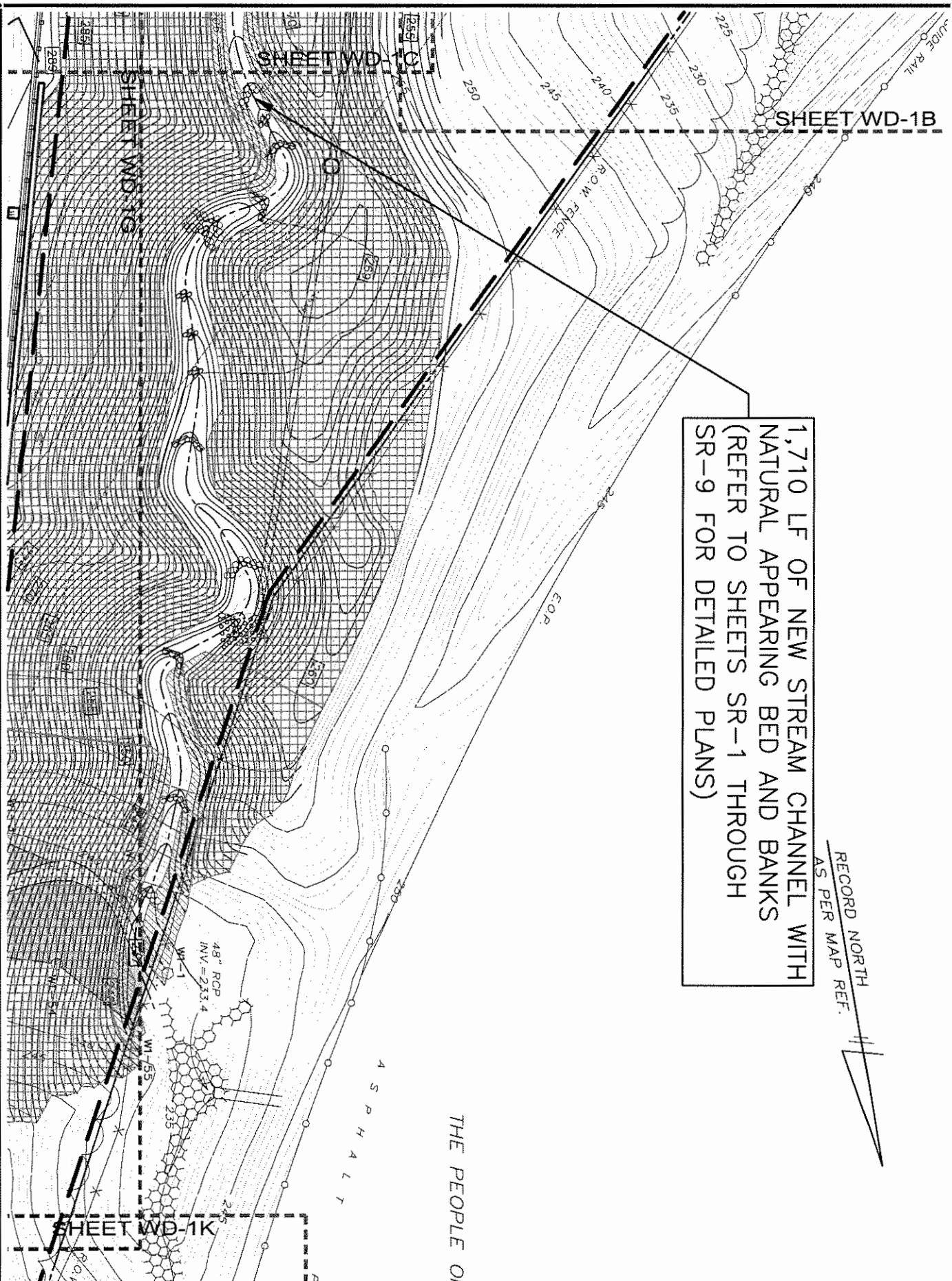
TOWN OF NORTH GREENBUSH,
NEW YORK

PROJECT NO. DRAWN BY CHECKED BY

LOWE'S®
ENGINEERING AND
CONSTRUCTION

HWY 268 EAST, EAST DOCK N. WELLSBORO, NC 28658
336.658.4000 (V) 336.658.3257 (F)

WD-1D
Construction
Assessment
Assessment
Assessment
Assessment
Assessment
Assessment
Assessment



WATERS OF THE U.S.
DISTURBANCE AND
MITIGATION PLANS
TOWN OF NORTH GREENBUSH,
NEW YORK

PROJ. CLIN. DRAWN BY CHECKED BY
CONTRACTOR H:
ISSUE DATE:

Lowe's
ENGINEERING AND
CONSTRUCTION

HYW 288 EAST, EAST DOCK N. WILKESBORO, NC 28699
336.658.4000 (V) 336.658.3257 (F)

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
CLINTON PARK, NY 12036 (518) 297-7421
LANDSCAPE ARCHITECTURE LAND SURVEYORS

SCALE: 1"=50'
NORTH
HORIZONTAL

REVISIONS	
DATE	DESCRIPTION

WD-1F

SHEET WD-1C

JURISDICTIONAL WETLAND (W1)
IMPACT $0.426 \pm$ AC.

LOWE'S

16K WIDE

SALES AREA

STORAGE

RECEIVING

TRUCK WELL

SHEET WD-1A

SHEET WD-1F

SHEET WD-1

SHEET WD-1B

HOME CENTERS, INC.

REVISIONS

DATE

DESCRIPTION



SCALE: 1' = 50'

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
ROUTE 148 CLIFTON PARK, NY 12068 (518) 771-7821
Landscape Architecture Land Planning

WATERS OF THE U.S.
DISTURBANCE AND
MITIGATION PLANS
TOWN OF NORTH GREENBUSH,
NEW YORK

LOWE'S
ENGINEERING AND
CONSTRUCTION

HWY 365 EAST, EAST DOCK N. WILLOSBORO, NC 28659
336.658.4000 (V) 336.658.3257 (F)

F.F. = 291.0

NST THREADED SIAMESE FIRE
CONNECTION ON OUTSIDE OF
BUILDING AS PER ARCHITECT
AND LOCAL FIRE DEPARTMENT

2" IRRIGATION SERVICE

2" DOMESTIC SERVICE

MIN. 10' D.I.P.

WATER LINE

250

48A

178.33M

OPEN AREA

2.5

250

48A

178.33M

OPEN AREA

2.5

SHEET WD-1G

SHEET WD-1L

SCALE: 1"-50'



NORTH

EAST

SOUTH

WEST



HOME CENTERS, INC.
LOWES.COM

REVISIONS

DATE

REVISION

DATE

WATERS OF THE U.S.
DISTURBANCE AND
MITIGATION PLANS

TOWN OF NORTH GREENBUSH,
NEW YORK

ORIGINAL
DRAWING DATE
REVISED DATE
CONSTRUCTION DATE

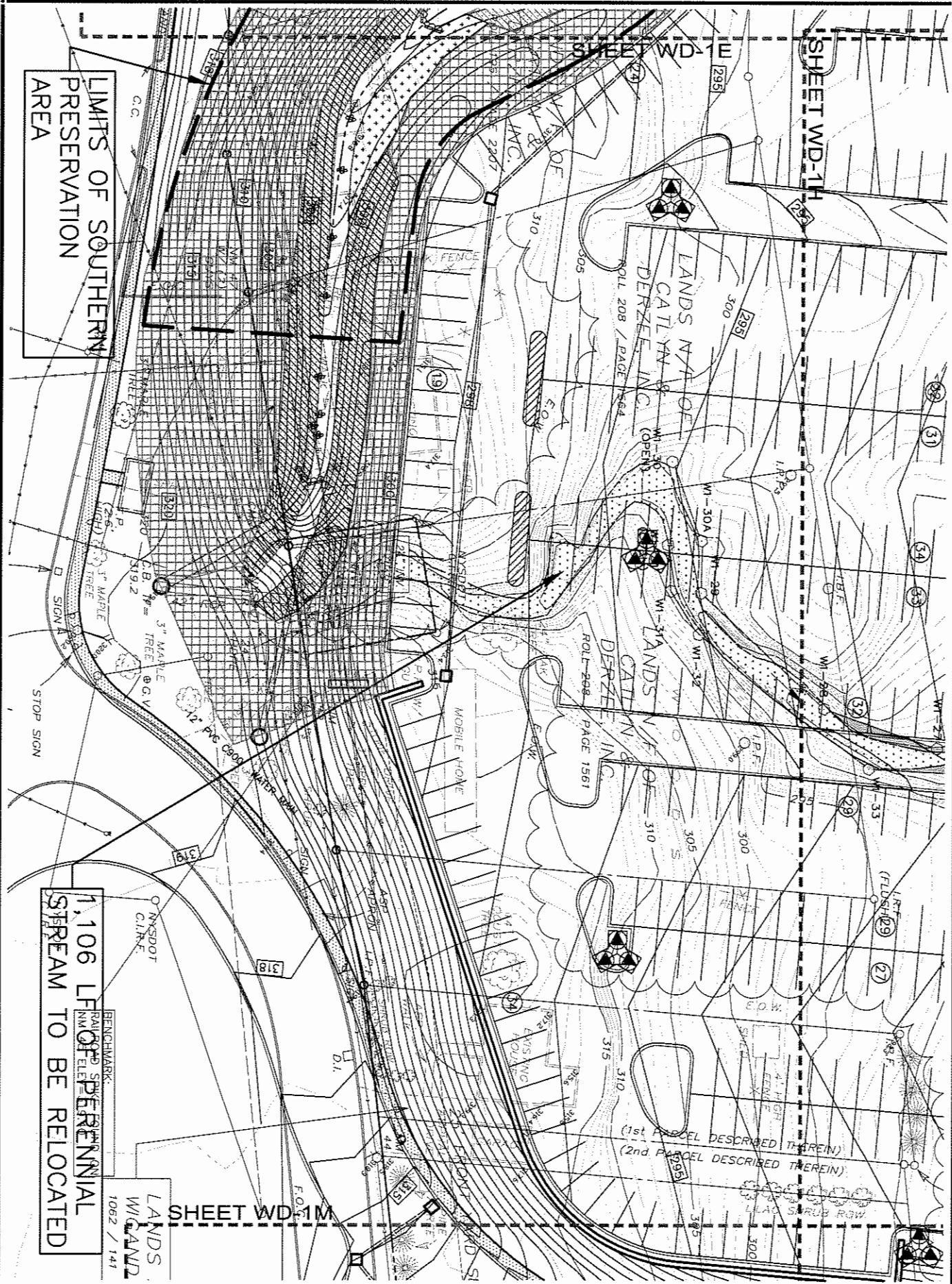
WD-1H

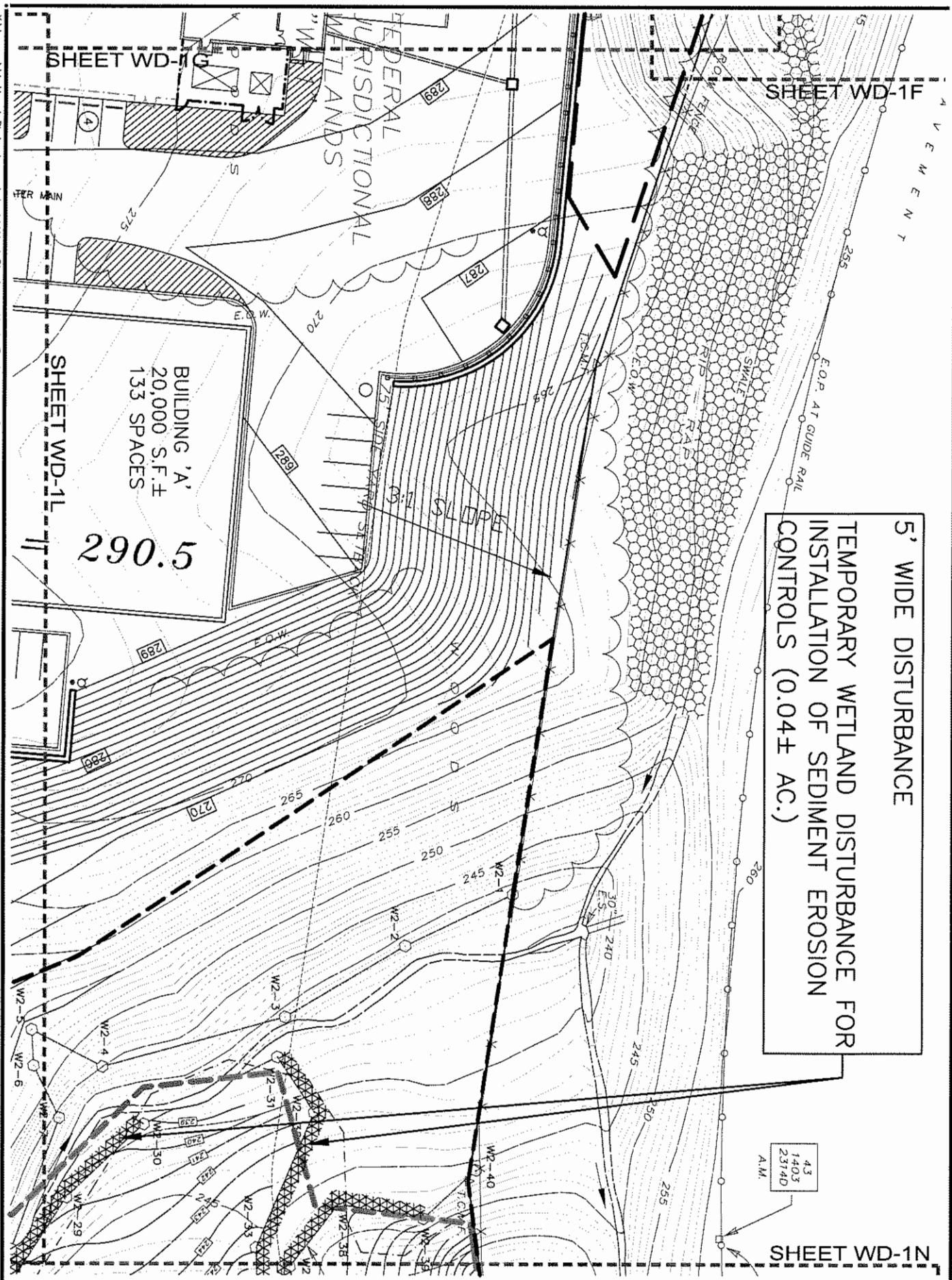
LOWE'S
ENGINEERING AND
CONSTRUCTION

HYW 288 EAST, EAST DOCK N. WILKESBORO, NC 28659
336.658.4000 (V) 336.658.3257 (F)



ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
LANDSCAPE ARCHITECTURE
LANDSCAPE ARCHITECTURE
LANDSCAPE ARCHITECTURE





5' WIDE DISTURBANCE

**TEMPORARY WETLAND DISTURBANCE FOR
INSTALLATION OF SEDIMENT EROSION
CONTROLS (0.04± AC.)**

43
1403
2374D

SHEET WD-1N

ISSUE DATE

WATERS OF THE U.S.
DISTURBANCE AND
MITIGATION PLANS

TOWN OF NORTH GREENBUSH,
NEW YORK

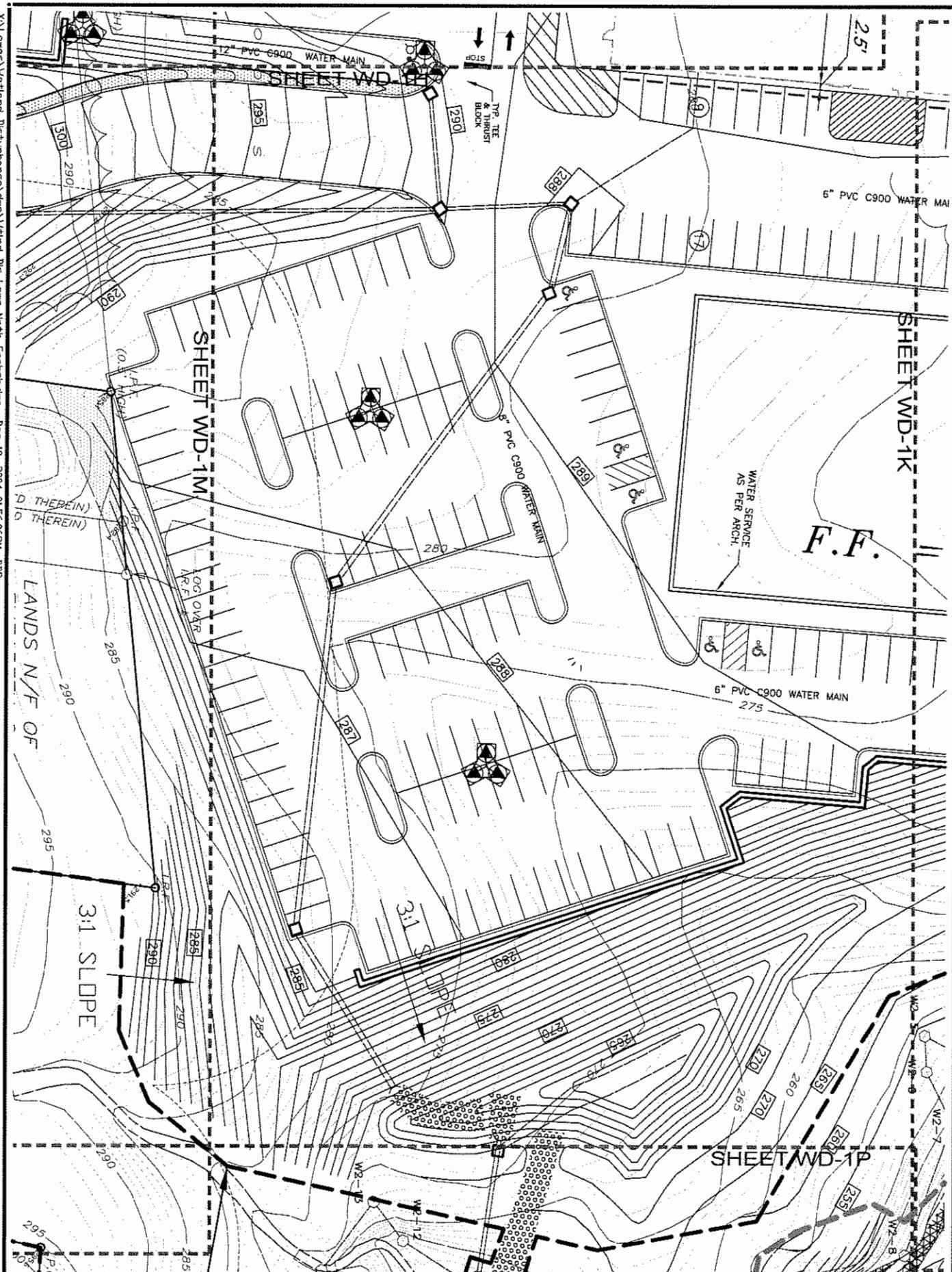
LOWE'S
ENGINEERING AND
CONSTRUCTION
UNIVERSITY PARK, CALIFORNIA • VAN NUYS, CALIFORNIA

HYW 286 EAST, EAST DOCK N. WILKESBORO, NC 28659
336.658.4006 (V) 336.658.3257 (F)

89

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
ROUTE 146 CLIFTON PARK, N.Y. 12068 (518) 371-1821
ENGINEERING LANDSCAPE ARCHITECTURE LAND SURVEYING

SCALE: 1"-50'



WATERS OF THE U.S.
DISTURBANCE AND
MITIGATION PLANS

TOWN OF NORTH GREENBUSH,
NEW YORK

PROJECT NO. 1040041 DRAWN BY D. COOPER DATE 12/10/04

LOWE'S
ENGINEERING AND
CONSTRUCTION

HWY 268 EAST, EAST DOCK N. WILKESBORO, NC 28659

336.658.4000 (V) 336.658.3257 (F)



REF. NO. 12
DATE 12/10/04

SCALE: 1" = 50'

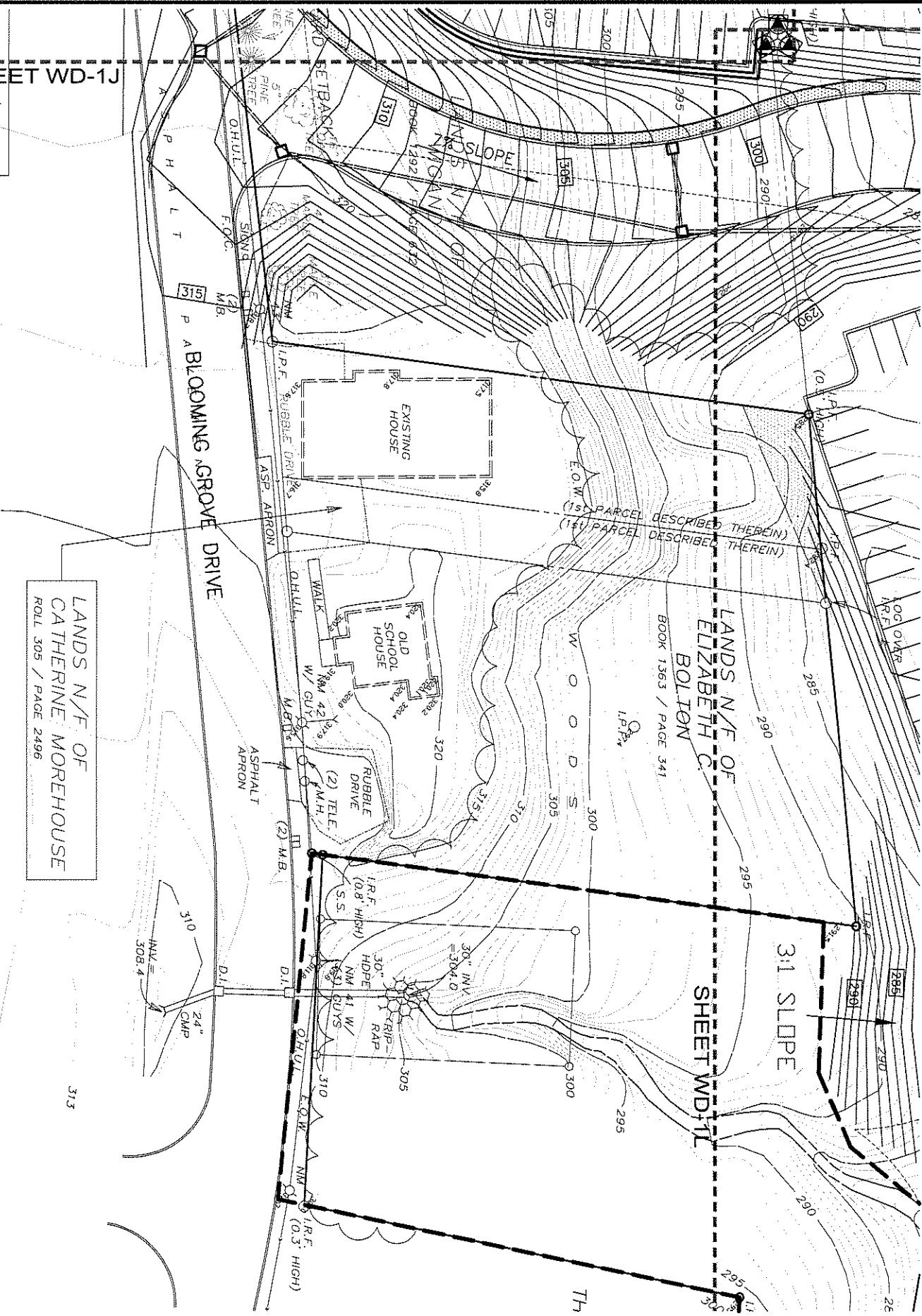
WD-1L

HOME CENTER
GREENBUSH, NY
REVISIONS
DATE 12/10/04
DESCRIPTION

X:\lowest\wetland Disturbance\dwa\Wind Dis LOW North Grindshowa Dec 10, 2004 01:56:23 PM. DBR

Application No. 2004-00727-4N Sheet 13 of 43

**NDS
GANDE**
SHEET WD-1J



WATERS OF THE U.S.
DISTURBANCE AND
MITIGATION PLANS
TOWN OF NORTH GREENBUSH

**TOWN OF NORTH GREENBUSH,
NEW YORK**

LOWE'S®
ENGINEERING AND
CONSTRUCTION

CONSTRUCTION
HYW 268 EAST, EAST DOCK N. WILKESBORO, NC 28659
336.658.4000 (V) 336.658.3257 (F)

EDP
ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
ROUTE 146, CLIFTON PARK, N.Y. 12059 (518) 371-7621
ENGINEERING LANDSCAPE ARCHITECTURE LAND PLANNING

SCALE: 1"=50'

SHEET WD-1K

END OF
GUIDE
RAIL

265

E.O.S.

SWALE

270

265

270

275

270

SCALE: 1"-50'

1/2"

H.D.P.E

INV. #266.6±

1/2"

H.D.P.E

INV. #

TEMPORARY
WETLAND
DISTURBANCE
AREA

REMOVAL OF
OLD FOUNDATION
AND STAGING
AREA

EQUIPMENT STAGING
AND TRUCK AREA

TURN-A-ROUND
AREA

PINE TREE ROW

MAPLE
TREE

SHEET WD-1N

LANDS N/F OF
VAN ALLEN PROPERTIES,

TEMPORARY WETLAND
DISTURBANCE FOR
STREAMBANK RESTORATION
 $0.01 \pm$ AC.

22 LF OF PERENNIAL
STREAM IMPACT

WETLAND
IMPACT = 0.01 AC.

LIMITS OF NORTHERN
PRESERVATION
AREA

WATERS OF THE U.S.
DISTURBANCE AND
MITIGATION PLANS

TOWN OF NORTH GREENBUSH,
NEW YORK

PROJECT No. DUNNIN BY CHECKLIST

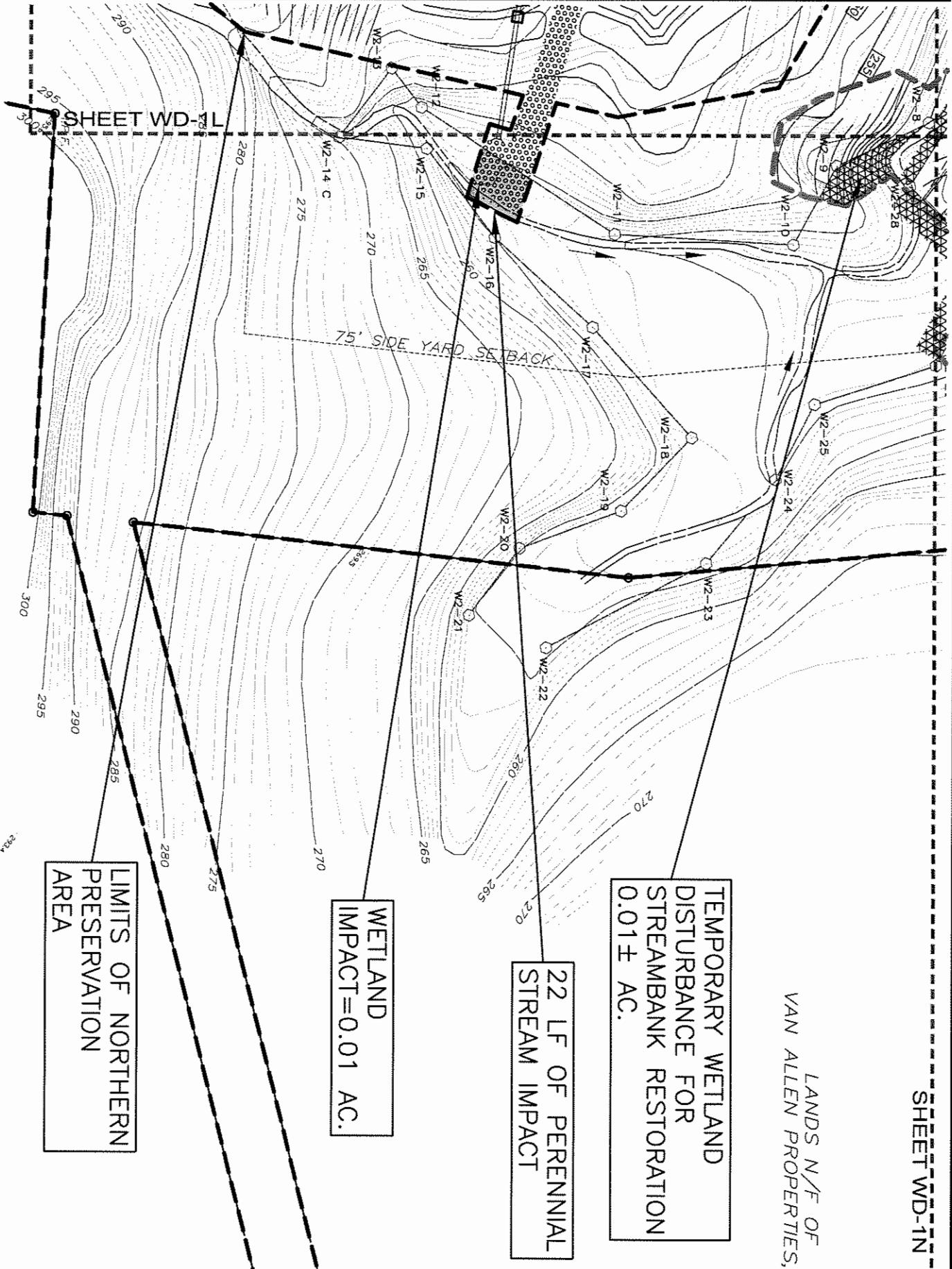
LOWE'S
ENGINEERING AND
CONSTRUCTION

HWY 268 EAST, EAST DOCK N, WILKESBORO, NC 28695
336.658.4000 (V) 336.658.3257 (F)

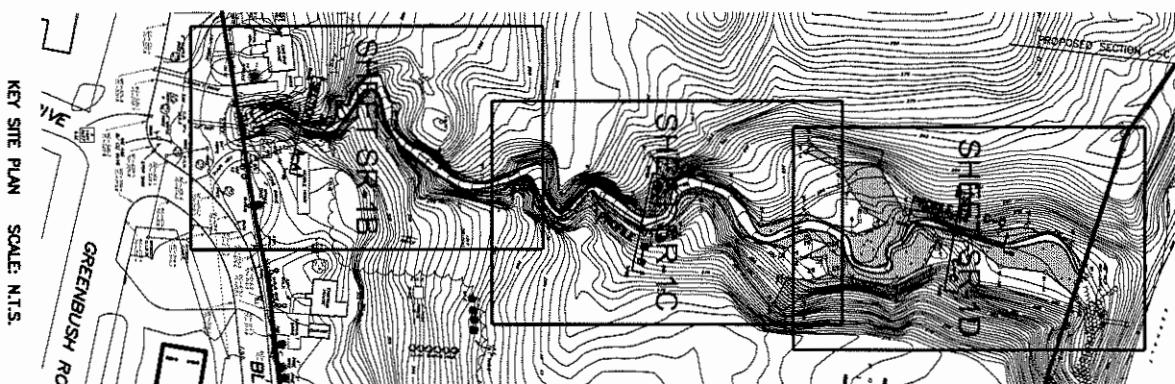
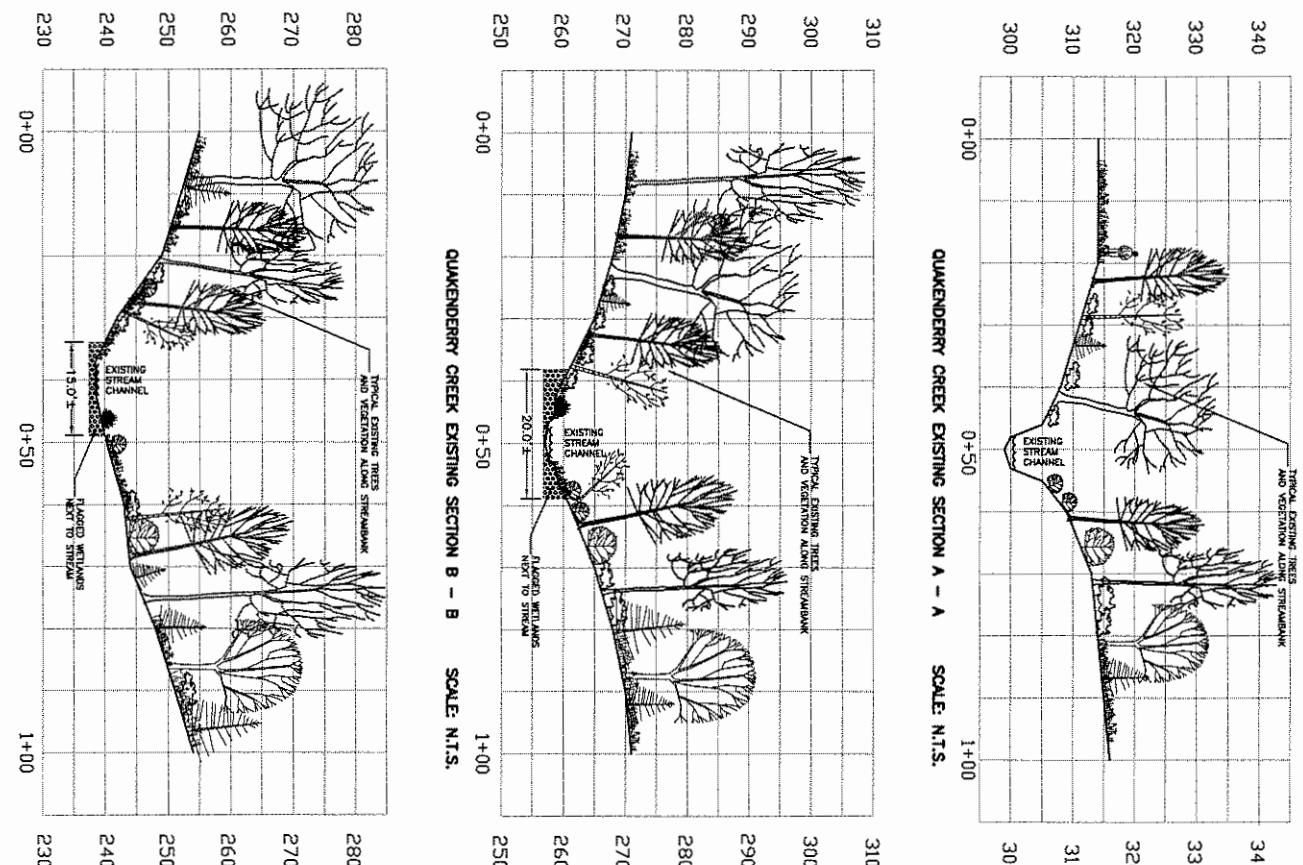


ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
ROUTE 146 CLIFTON PARK, NY 12068 (518) 371-7424
INTERNATIONAL LANDSCAPE ARCHITECTURE LOWE'S

NO. 100
NORTH
REVISIONS
DATE
DESCRIPTION



Application No. 2004-00727-YN Sheet 16 of 43



QUAKENDERRY CREEK
EXISTING
STREAM SECTIONS

TOWN OF NORTH GREENBUSH,
NEW YORK

Lowe's
ENGINEERING AND
CONSTRUCTION

HWY 288 EAST, EAST DOCK N. WILKESBORO, NC 28699
336.658.4000 (V) 336.658.3257 (F)

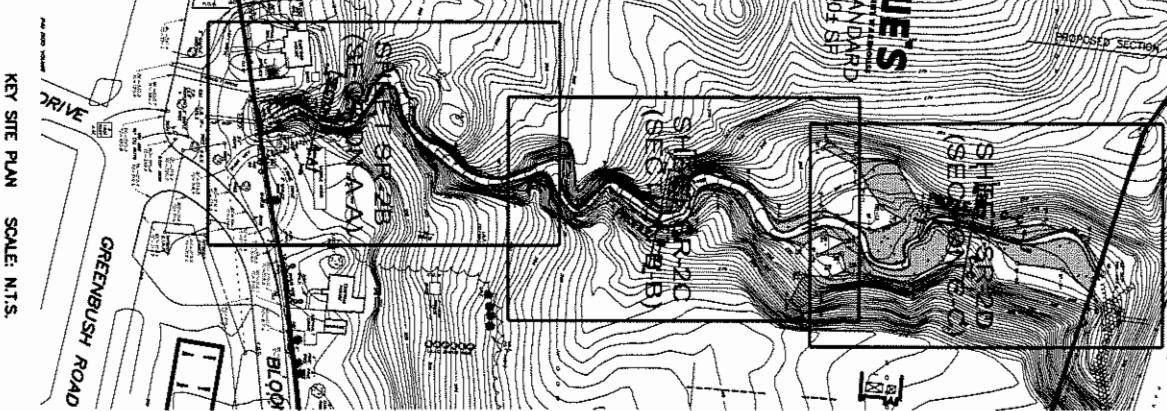
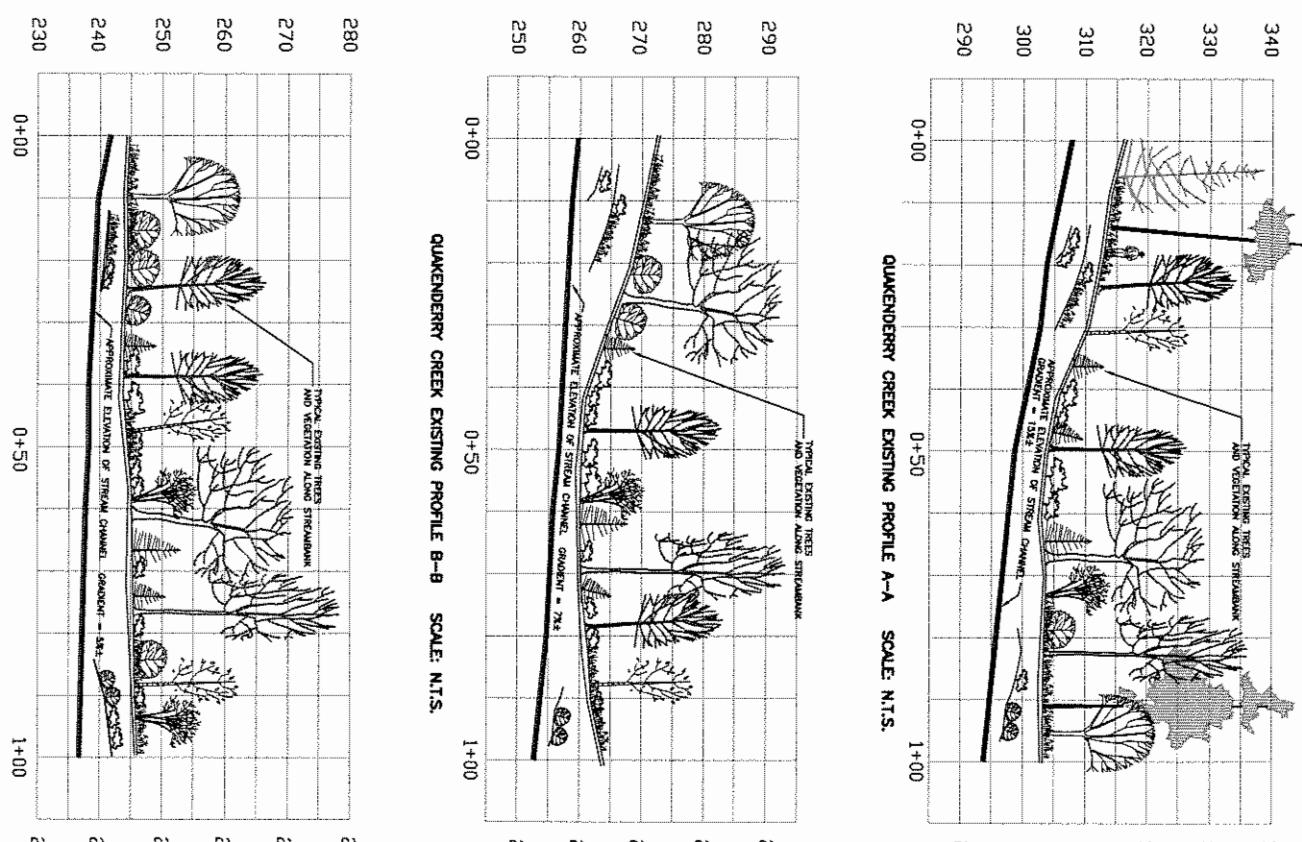
ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
ROUTE 9A CLIFTON PARK, NY 12068 (518) 373-5111
DIAMONDA LANDSCAPE ARCHITECTURE LANE SURVEYING



SCALE: AS NOTED



SR-1A



PRINTED
12/20/2004

QUAKENDERRY CREEK
EXISTING
STREAM PROFILES
TOWN OF NORTH GREENBUSH,
NEW YORK

LOWE'S
ENGINEERING AND
CONSTRUCTION

NHW 265 EAST, EAST DOCK N. WILKESBURG, NC 28695
336.658.4000 (V) 336.658.3257 (F)



ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
ROUTE 144 CLIFTON PARK, NY 12068 (518) 371-7424
LANDSCAPE ARCHITECTURE LAND SURVEYING

SCALE: AS NOTED
ZONE
HOTEL

PROJECT NO. DRAWN BY CHECKED BY

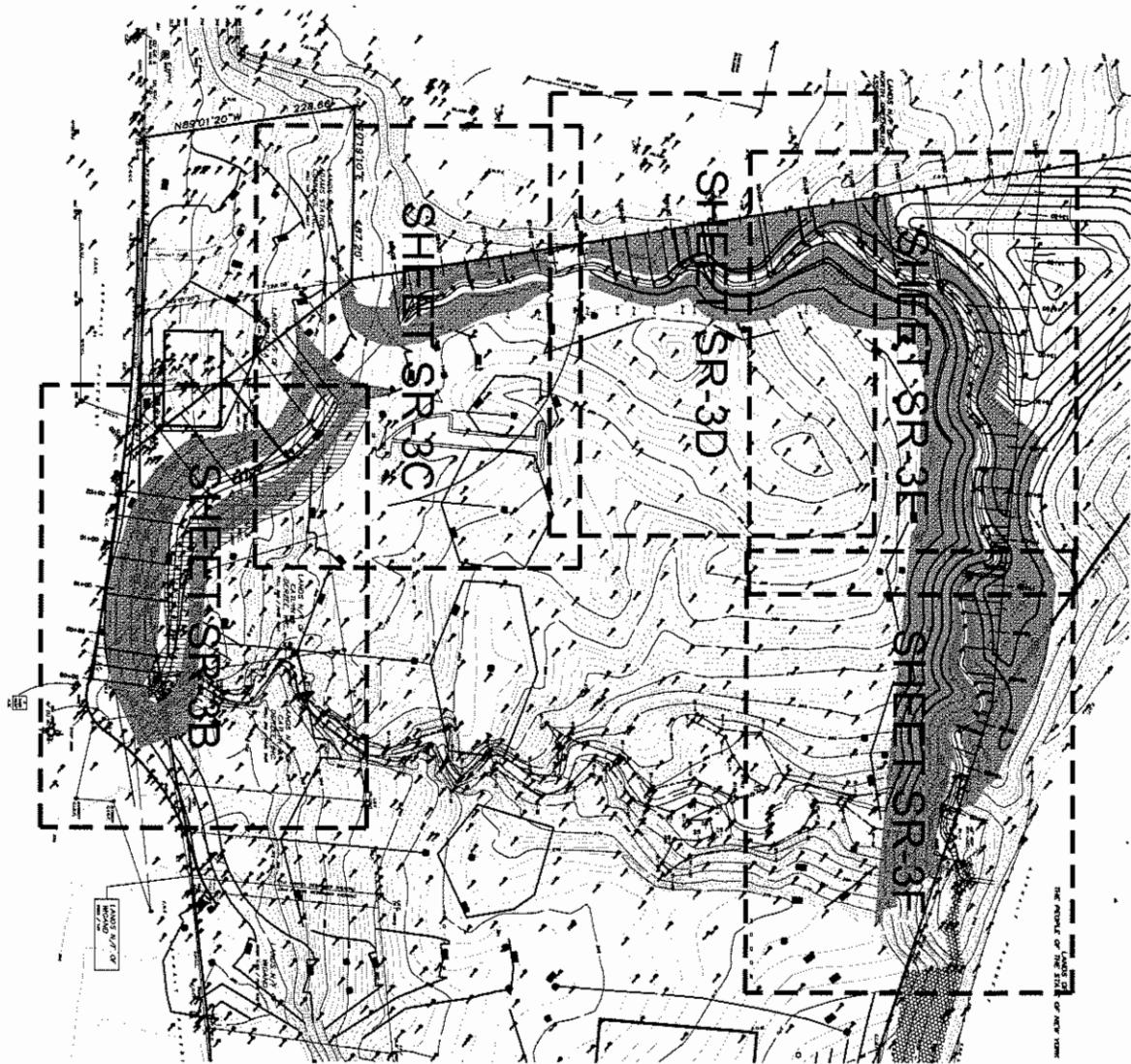
ORIGINAL
ISSUE DATE
SERIAL NO.
CONSTRUCTION SET
REVISIONS
REV. DATE
DESCRIPTION

HOME CENTERS, INC.
REVISIONS
REV. DATE
DESCRIPTION

SR-2A

Application No. 2004 - 00727-4N

Sheet 18 of 43



STREAM RELOCATION
TREATMENT PLAN

TOWN OF NORTH GREENBUSH,
NEW YORK

LOWE'S
ENGINEERING AND
CONSTRUCTION

HWY 286 EAST, EAST DOCK N. WILKESBORO, NC 28650
336.656.4000 (V) 336.656.3257 (F)



ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
ROUTE 1A, CLIFTON PARK, NY 12068
ENGINEERING, LANDSCAPE ARCHITECTURE, LAND SURVEYING

SCALE: 1"=200'
NORTH
EAST

REVISIONS
DATE
DESCRIPTION

HOME
CENTERS, INC.
A K mart Corporation Company

SR-3A
PROJECT NO. DRAWN BY CHECKED BY
HARDWARE PERMIT CONTRACTOR
CONTRACTOR'S AT
ISSUE DATE

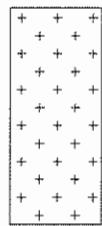
LEGEND



TREATMENT A



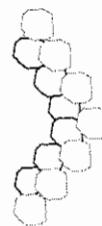
TREATMENT B



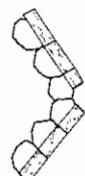
TREATMENT C



SLOPE TREATMENT



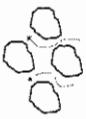
ROCK WEIR



LOG WEIR

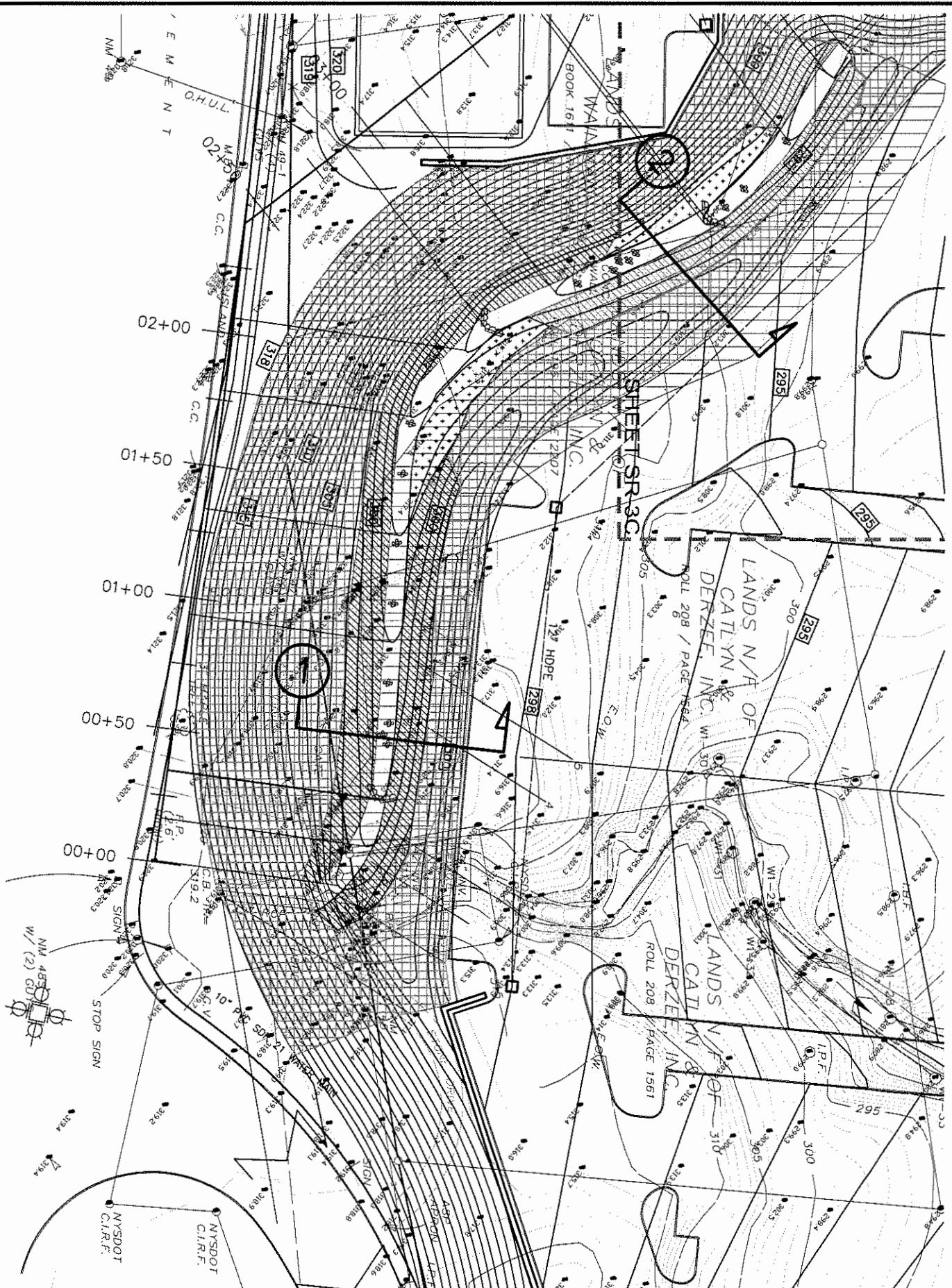


FLOODPLAIN BOULDERS



IN-STREAM BOULDER FIELD

SR-3AA	STREAM RELOCATION TREATMENT PLAN		LOWE'S ENGINEERING AND CONSTRUCTION		REVISIONS DATE REVISION NUMBER
	TOWN OF NORTH GREENBUSH, NEW YORK	PROJECT NO.	DRAINED BY	CHORDED AT	
ORIGINAL ADDITIONAL MAINTENANCE STAKEOUT CONSTRUCTION ART	 ENVIRONMENTAL DESIGN PARTNERSHIP, LLP 300 W 22ND STREET, SUITE 1000 NEW YORK, NY 10011 (212) 564-7521 LAURENCE ADRIAN, P.E., LEAH BURGESS, ENVIRONMENTAL DESIGNERS				
			REF. NORTH	SCALE: 1"-5'	



**STREAM RELOCATION
TREATMENT PLAN**



HYW 286 EAST, EAST DOCK N. WILKESBORO, NC 28659
336.658.4000 (V) 336.658.3257 (F)



ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
ROUTE 146 CLIFTON PARK, N.Y. 12068 (518) 371-7621
ENGINEERING LANDSCAPE ARCHITECTURE LAND SURVEYS

REF.
NORTH
SCALE: 1
100

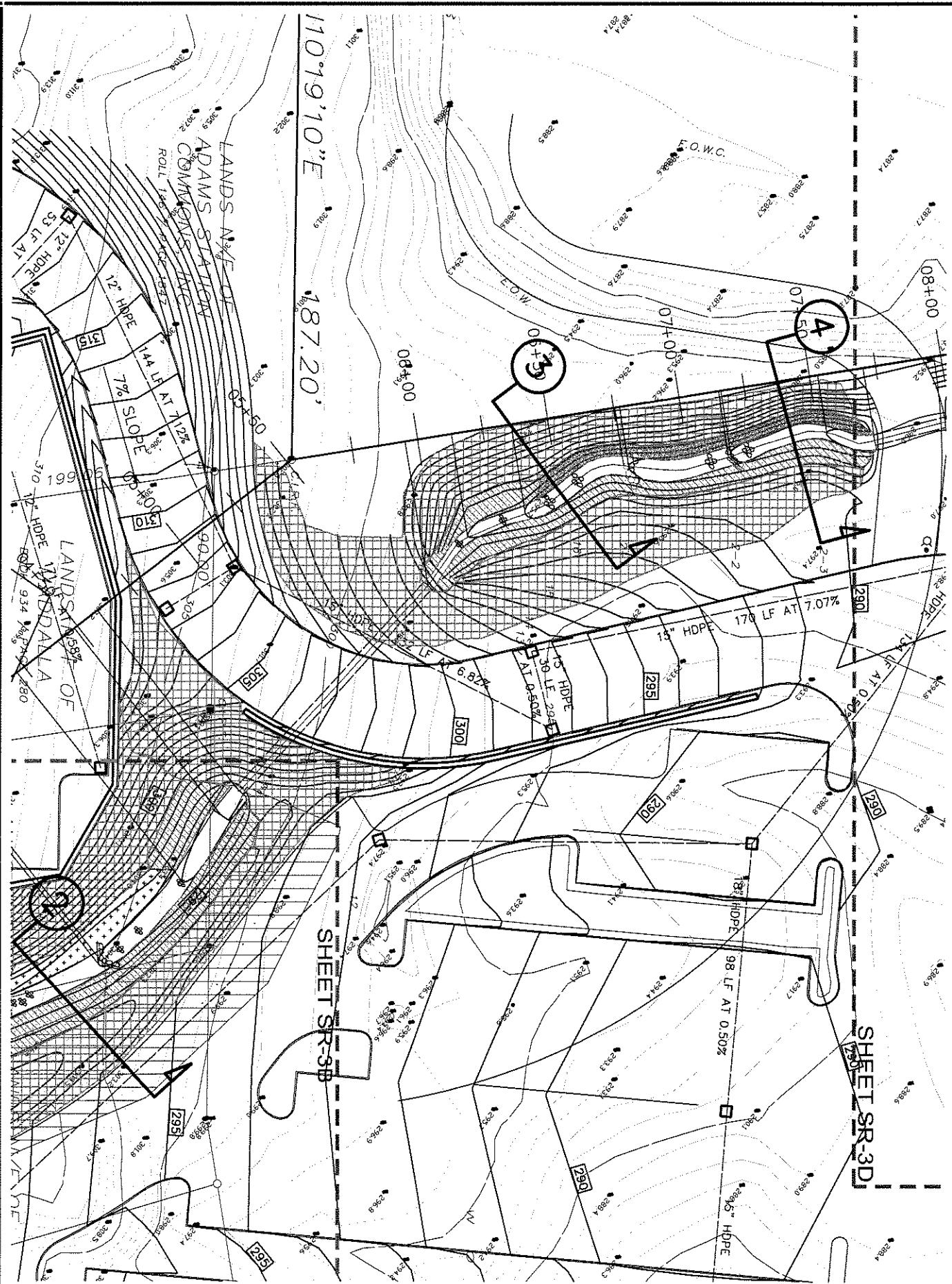
10



X:\Lowes\Stream\dwg\SR-3_SR-7PRB_STREAM.dwg Dec 10, 2004 01:43:11PM, DBR

Application No. 2004-00424-4

Sheet 21 of 43



SR-3C

STREAM RELOCATION
TREATMENT PLAN

TOWN OF NORTH GREENBUSH
NEW YORK

LOWE'S®
ENGINEERING AND
CONSTRUCTION

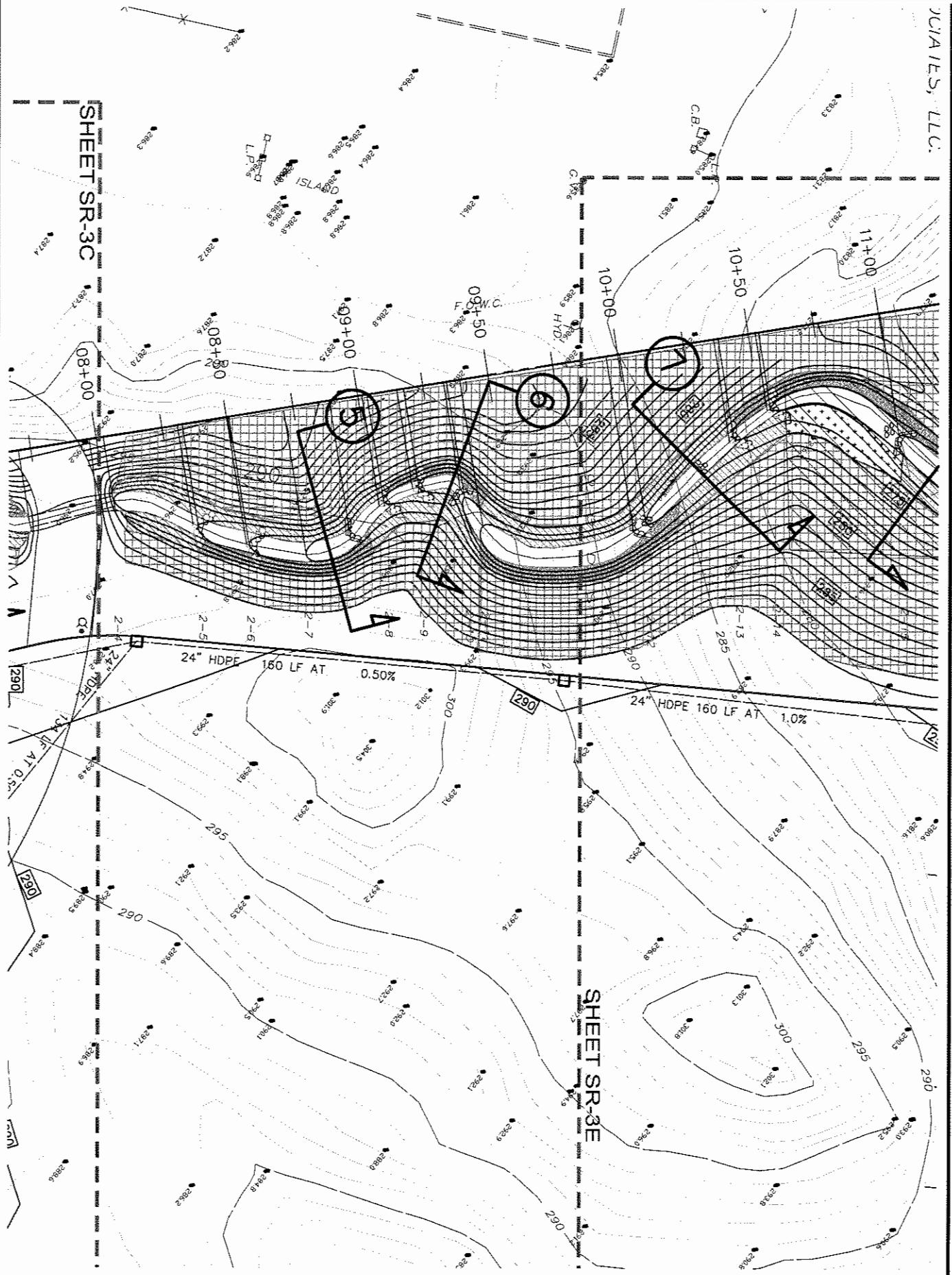


ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
ROUTE 146 CLIFTON PARK, N.Y. 12068 (518) 371-7222
ENGINEERING LANDSCAPE ARCHITECTURE LAND SURVEYING

SCALE: 1"=50'

HOME CENTERS, INC.	
LOWE'S	
HOME IMPROVEMENTS	
REVISIONS	
DATE	REVISION NO.
DESCRIPTION	ISSUE DATE

JUJIA IES, LLC.



STREAM RELOCATION
TREATMENT PLAN

TOWN OF NORTH GREENBUSH,
NEW YORK

LOWE'S
ENGINEERING AND
CONSTRUCTION

HW 268 EAST, EAST DOCK N. WILKESBORO, NC 28659

336.658.4000 (V) 336.658.3257 (F)



ENVIRONMENTAL DESIGN PARTNERSHIP, LLP

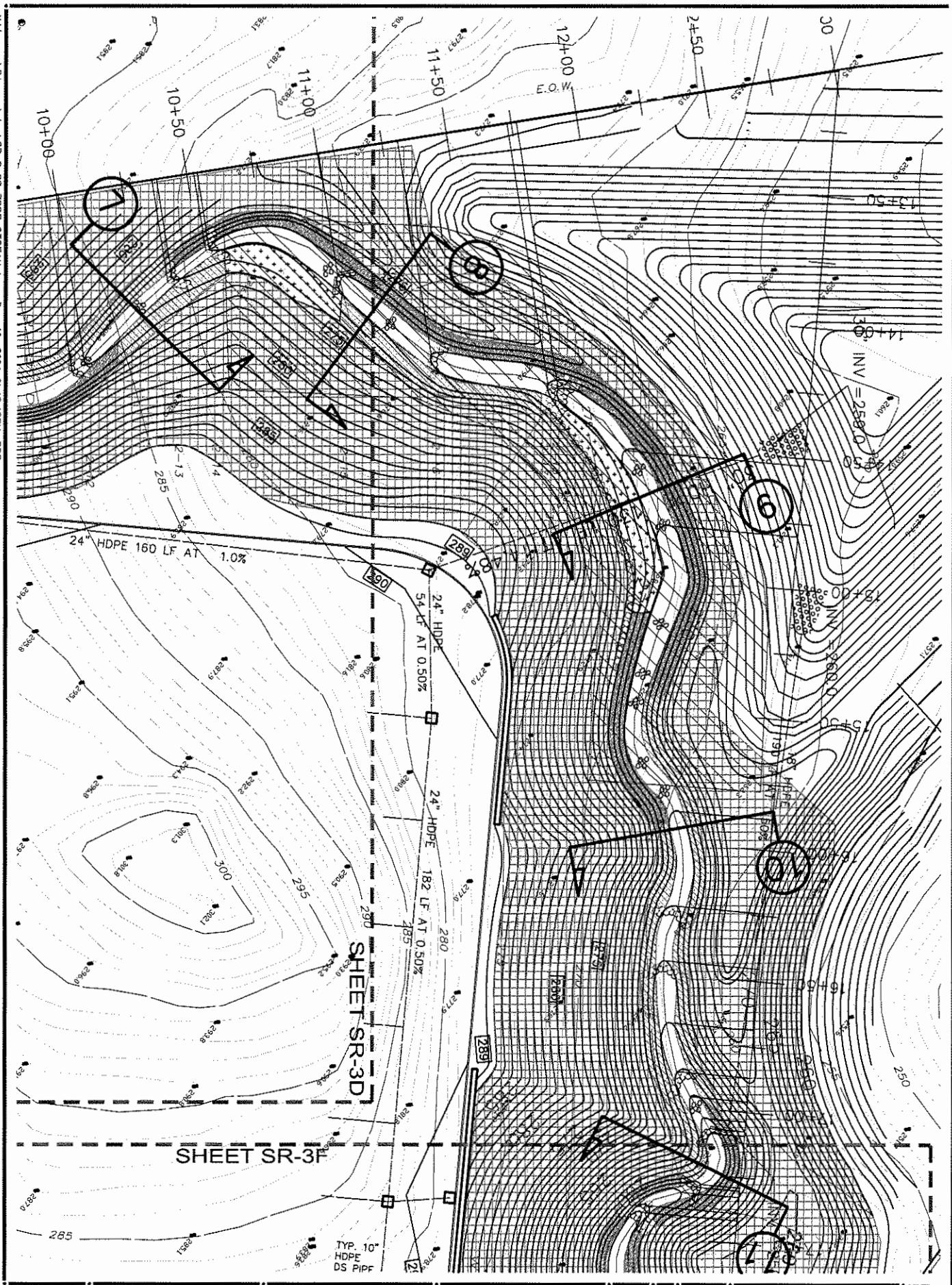
ROUTE 104 CLINTON PARK, NY 10524 845.377.1444

SCALE: 1" = 50'
ELEVATION



SR-3D





Application No. 2004-00727-YN

X:\Lowes\Stream\dwg\SR-3_SR-7PRO_STREAM.dwg Dec 10, 2004 0143342PM, DBR

Sheet 23 of 43

STREAM RELOCATION
TREATMENT PLAN

TOWN OF NORTH GREENBUSH
NEW YORK

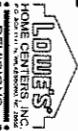
Lowe's®
ENGINEERING AND
CONSTRUCTION
HYW 268 EAST, EAST DOCK N., WILKESBORO, NC 26595



ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
ROUTE 148 CLIFTON PARK, N.Y. 12058 (518) 371-7521
ENGINEERING LANDSCAPE ARCHITECTURE LAND SURVEYING

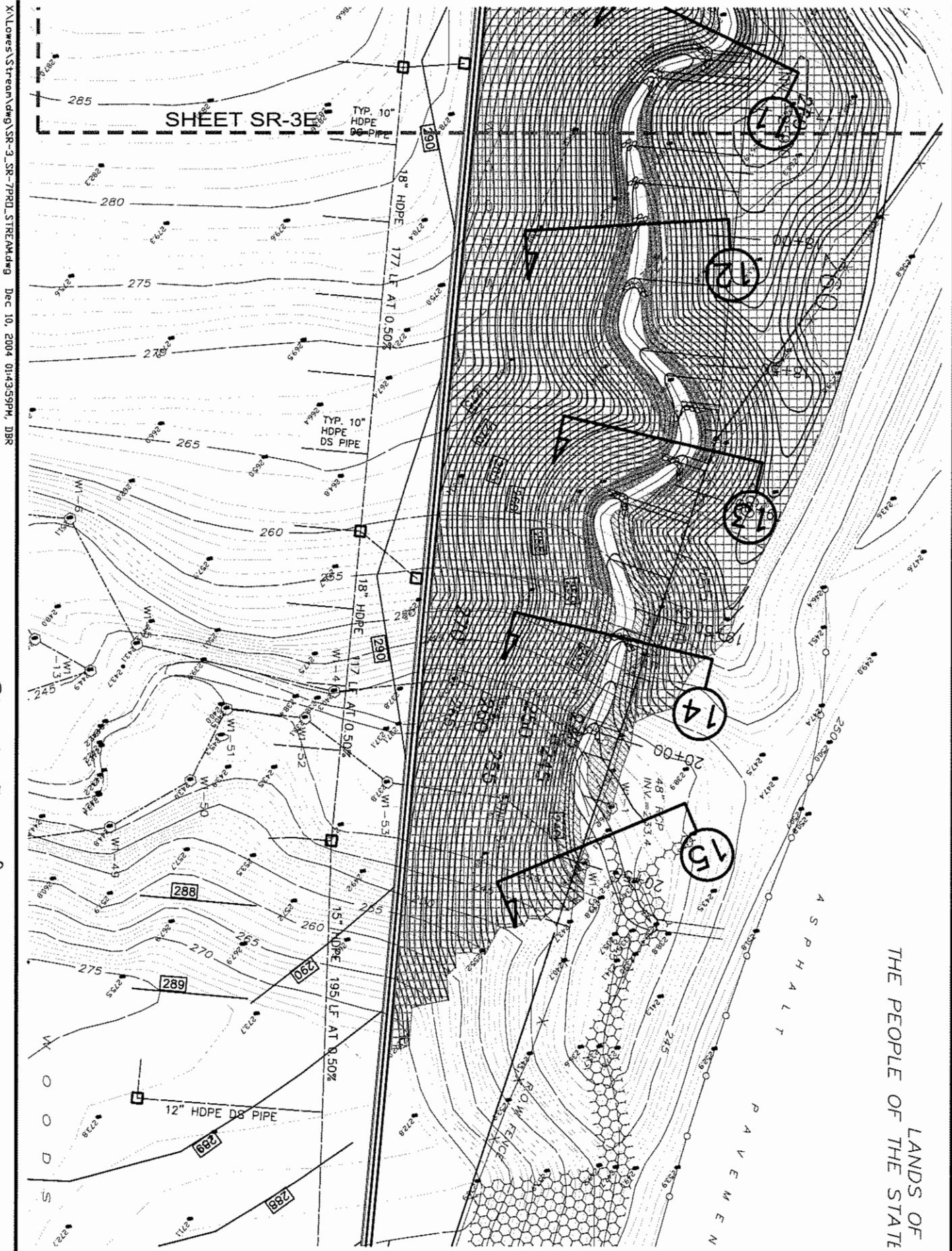
SCALE: 1:500

LEADER - LEADER è un termine che indica il leader di una comunità, ma anche il leader di un gruppo di persone.



Application No. 2004-00727-4N

Sheet 24 of 43



STREAM RELOCATION TREATMENT PLAN		
TOWN OF NORTH GREENBUSH, NEW YORK		
OWNER NAME ADDRESS PHONE CONTRACTOR NAME ADDRESS PHONE	DRAWN BY NAME TITLE COMPANY PHONE	DESIGNED BY NAME TITLE COMPANY PHONE
SR-3F	6822	6822

LOWE'S®
ENGINEERING AND CONSTRUCTION

HWY 283 EAST, EAST DOCK N. WILKESBORO, NC 28659
336.658.4000 (V) 336.658.3257 (F)

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
ROUTE 10, CLINTON PARK, NY 12056 (518) 571-1331
ENGINEERING LANDSCAPE ARCHITECTURE LAND SURVEYING

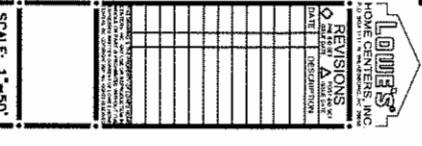
SCALE: 1"=50'

REF ID: 6822

DATE: 12/10/04

REVISIONS: 1

DESCRIPTION: SR-3E



325

320

315

EFFECTIVE GRADE
310PIPE IN FROM
EXISTING STREAM

CUTTING EDGE

48° INV = 305.0
305

CUTTING EDGE

300

295

290

285

280

275

270

0+00

1+00

2+00

3+00

4+00

5+00

6+00

7+00

8+00

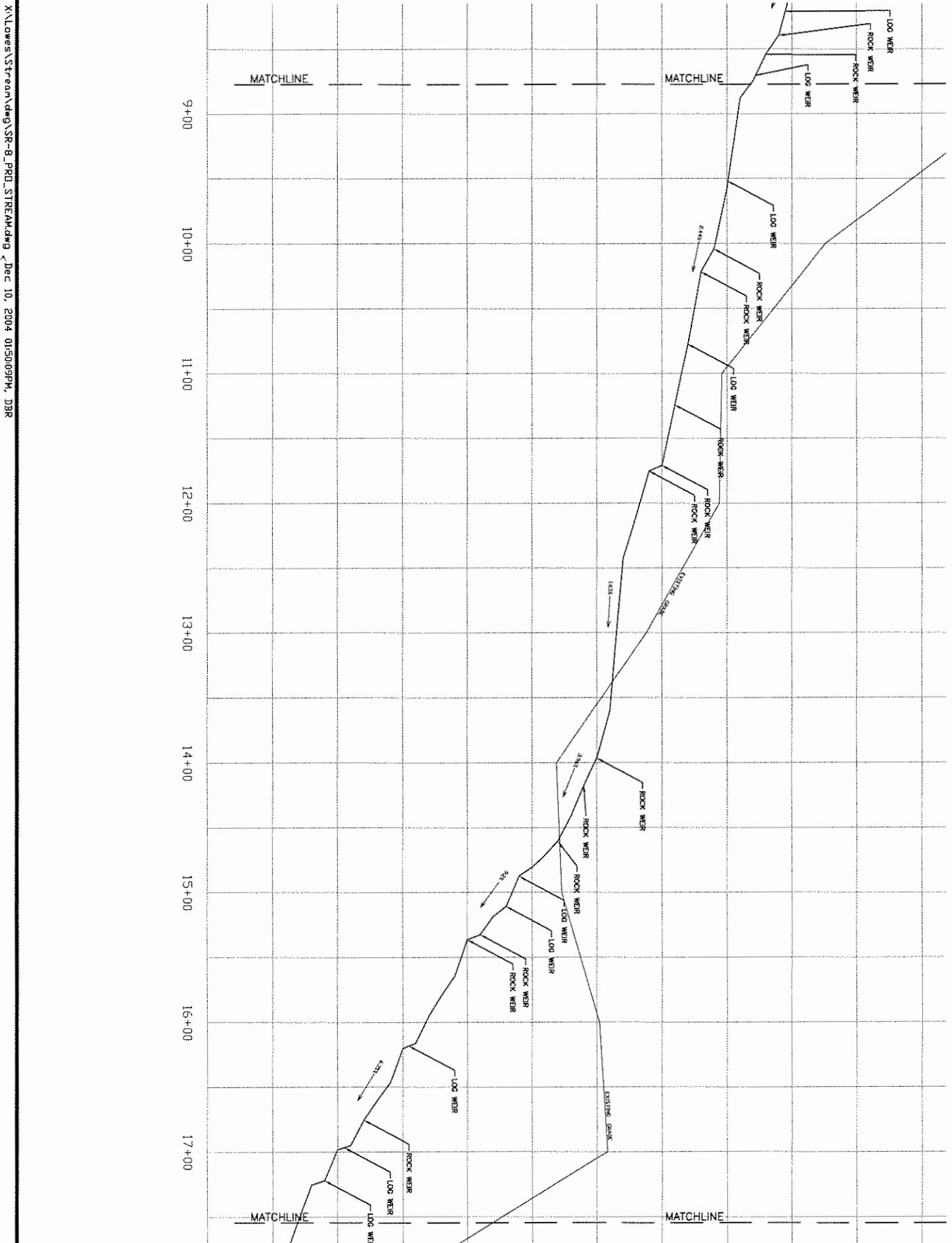
QUAKENDEEY CREEK
PROPOSEDLONGITUDINAL PROFILE
TOWN OF NORTH GREENBUSH,
NEW YORK
PROJECT NO. TOWNSHIP SCHEDULED**LOWE'S**
ENGINEERING AND
CONSTRUCTIONHW 268 EAST, EAST DOCK N. WILKESBORO, NC 28659
336.658.4000 (V) 336.658.3257 (F)ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
ROUTE 148 CLIFTON PARK, N.Y. 12068 518.577.1101
ENGINEERING LANDSCAPE ARCHITECTURE AND SURVEYINGSCALE: N.T.S.
REVISIONS
DATE: 12/10/04
BY: [Signature]

SR-8B



Application No. 2004-00727-YN

Sheet 26 of 43



QUAKENDEE CREEK
PROPOSED
LONGITUDINAL PROFILE
TOWN OF NORTH GREENBUSH,
NEW YORK

PROJECT NO. DRAWN BY CHECKED BY

CHIEF
DESIGNER
SUPERVISOR
DRAWING
CONTROLLER
ENGINEER

LOWE'S
ENGINEERING AND
CONSTRUCTION

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP.
ROUTE 148, CLINTON, NEW YORK 12056 (518) 377-7821
338-658-4000 (V) 338-658-3257 (F)



ENVIRONMENTAL DESIGN PARTNERSHIP, LLP.
ROUTE 148, CLINTON, NEW YORK 12056 (518) 377-7821
338-658-4000 (V) 338-658-3257 (F)

SCALE: N.T.S.

SR-8C



HOME CENTERS, INC.

REVISIONS

DATE

REVISIONS

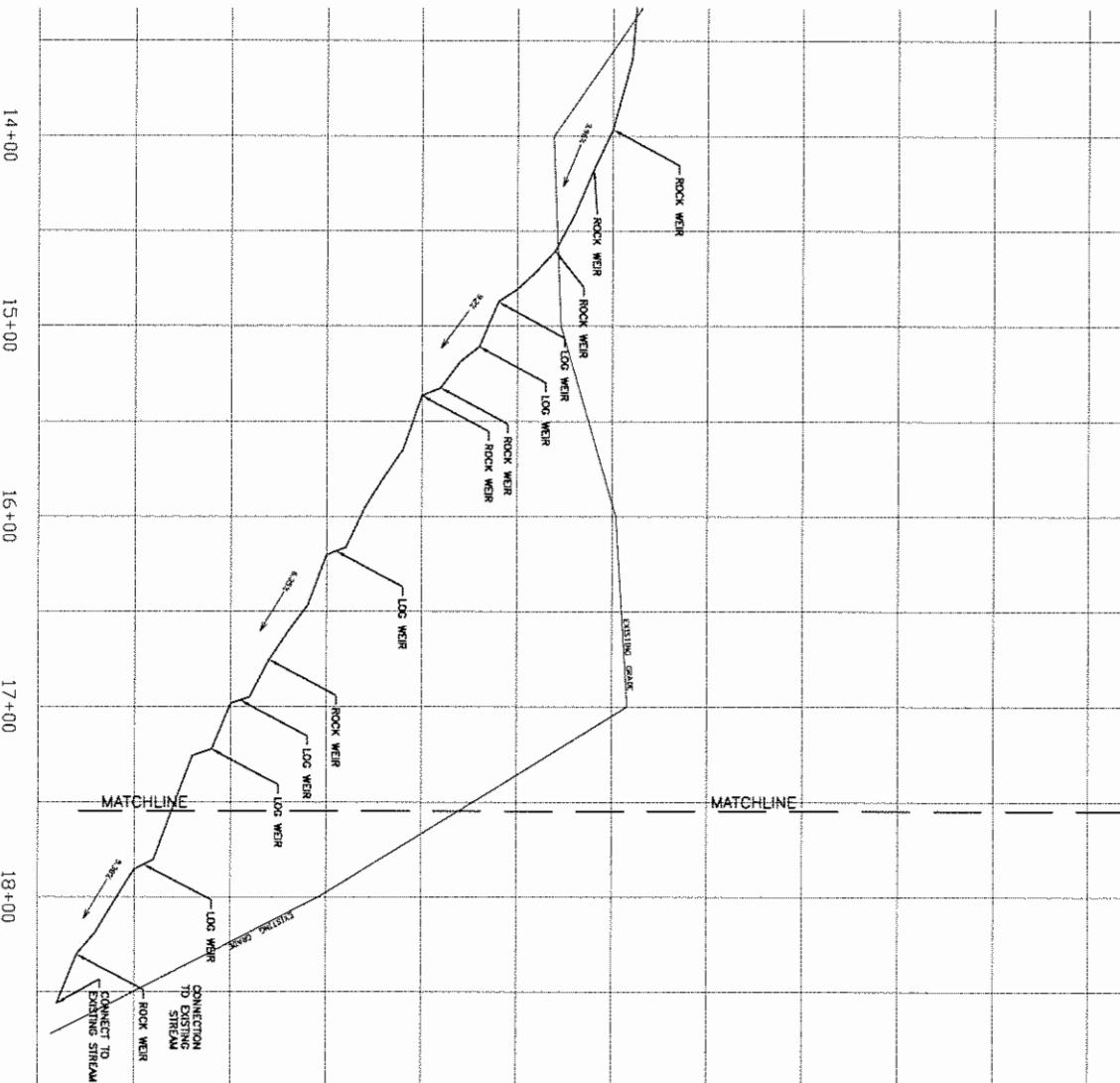
DATE

REVISIONS

DATE

REVISIONS

DATE



QUAKENDEE CREEK
PROPOSED
LONGITUDINAL PROFILE
TOWN OF NORTH GREENBUSH,
NEW YORK

PROJECT #: DRAWN BY CHECKED BY
SR-8D

LOWE'S
ENGINEERING AND
CONSTRUCTION

HY 268 EAST, EAST DOCK N. WILKESBORO, NC 28659
336.658.4000 (V) 336.658.3257 (F)



ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
ROUTE 144 CLIFTON PARK, N.Y. 12068 (518) 374-7824
Landscape Architecture www.edp.com

SCALE: N.T.S.

DATE: 12/10/04

REVISIONS

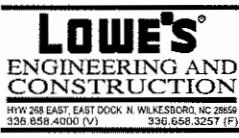
DRAWN BY: A. D. Description:



TREATMENT "A"
NOT TO SCALE

TREATMENT "

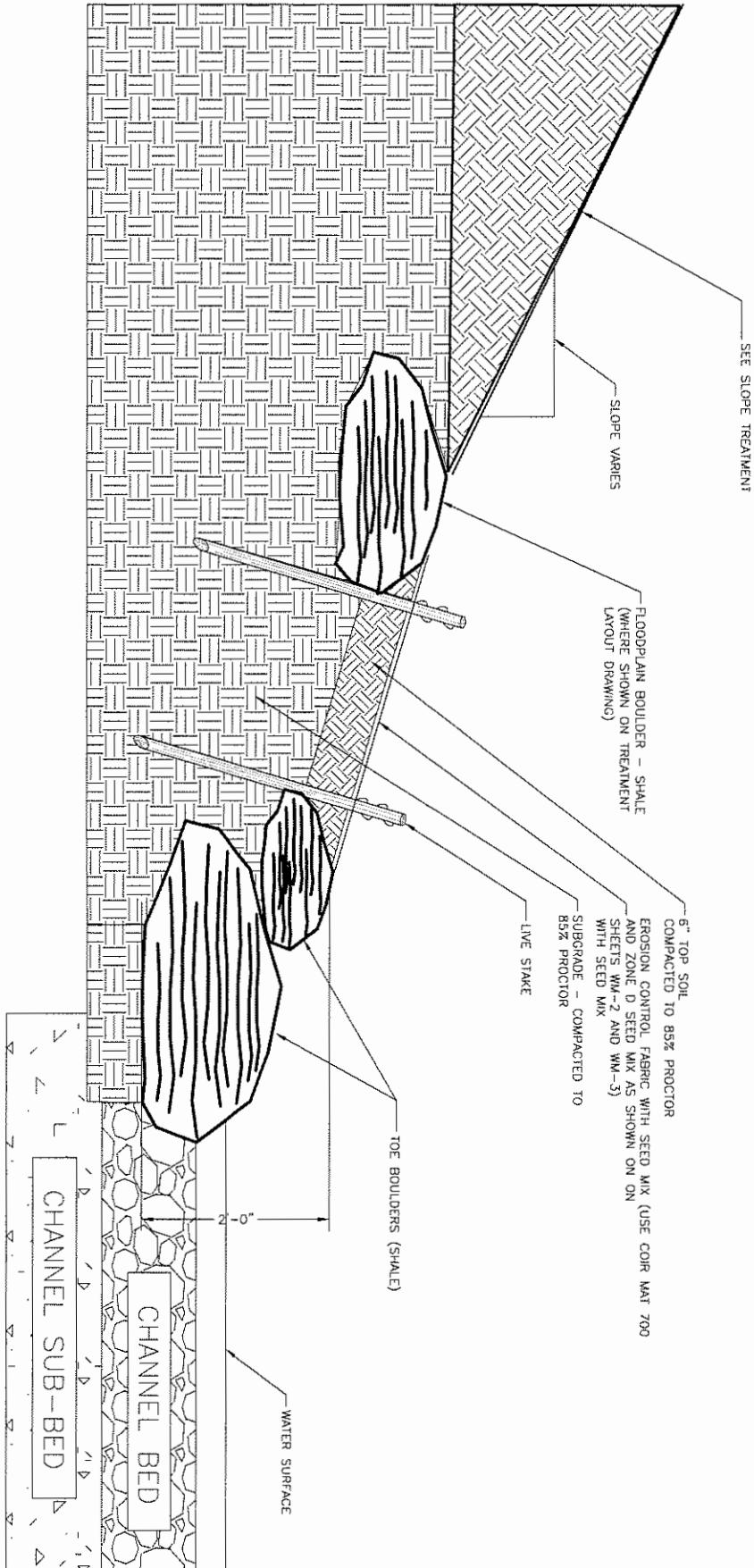
This technical cross-section diagram illustrates a channel bank protection system. The structure features a stepped slope on the left, labeled "SLOPE: 1.5H:1V". A horizontal dimension line indicates a width of "5'-0"". The channel bed is shown at the bottom, with a label "CHANNEL BED" and a dashed line representing the "WATER SURFACE". Above the channel bed, a vertical column of symbols indicates the presence of "CHANNEL SUB-BED" material. The main slope area is filled with a pattern of irregular polygons, labeled "STONE FILL (MATERIAL SIZE TBD)". A vertical line labeled "SLOPE VARIES" indicates a change in slope angle. The top right portion of the slope is covered with a hatched pattern, labeled "GEOSYNTHETIC FABRIC". A callout box in the upper right corner contains the text "SEE SLOPE TREATMENT".





TREATMENT "B"

NOT TO SCALE



STREAM RELOCATION
TREATMENT DETAILS
TOWN OF NORTH GREENBUSH,
NEW YORK

PROJECT NO. DRAWN BY CHECKED BY ORIGINATOR DESIGNER DRAWING DATE CONTRACTOR CONTRACT NUMBER CONST. DATE

Lowe's®
ENGINEERING AND
CONSTRUCTION

HWY 269 EAST, EAST DOCK N, WILKESBORO, NC 28699
336.658.4000 (V) 336.658.3257 (F)

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
ROUTE 142 CUSTOM PARK, 142, VINE GROVE, KY 40062
LANDSCAPE ARCHITECTURE Lowe's Landscape

SCALE: N.T.S.

SR-9D

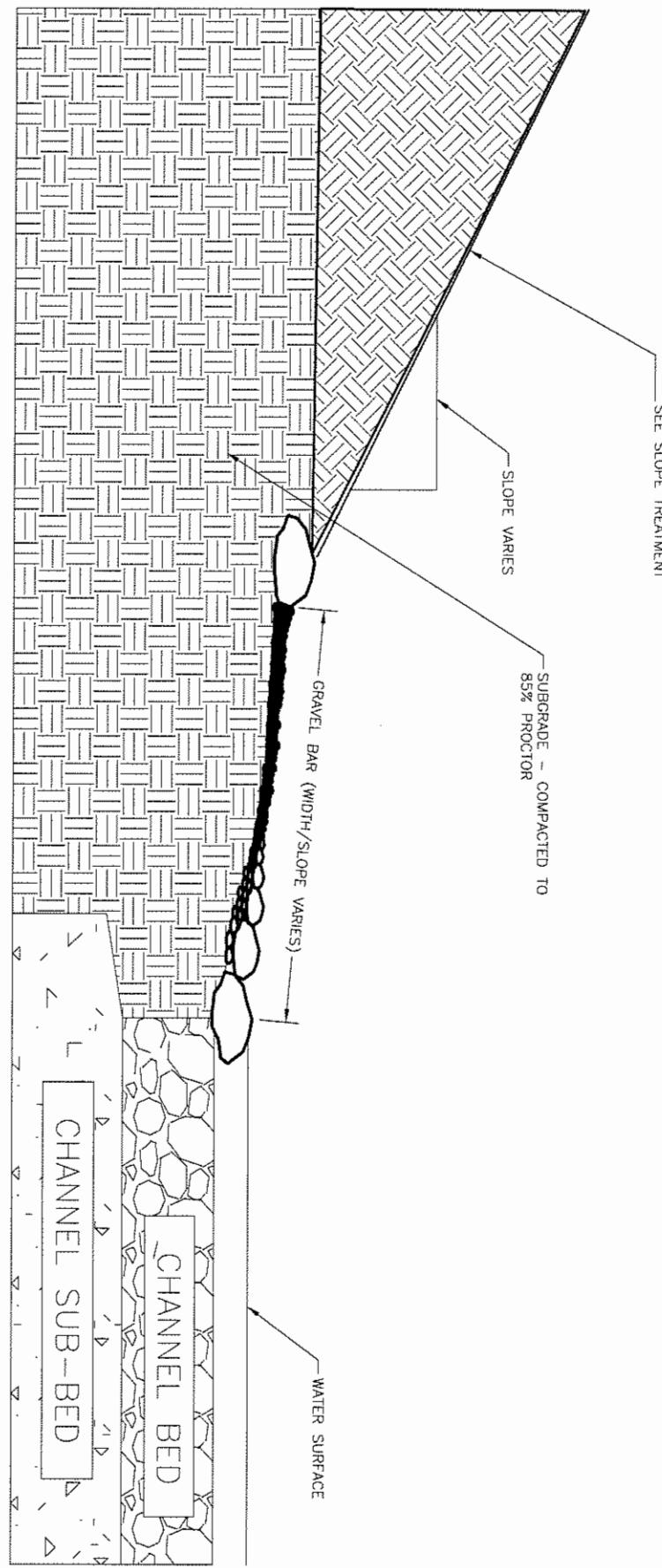


Applcatin No. 2004-00727-YN

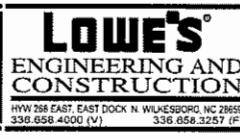
Sheet 30 of 43

X:\Lowes\Stream\dwg\SR-9_TREATMENT DETAILS.Dwg Dec 10, 2004 0150:30PM, DBR

 TREATMENT "C"
NOT TO SCALE

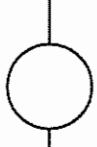


STREAM RELOCATION TREATMENT DETAILS		
TOWN OF NORTH GREENBUSH, NEW YORK		
PROJECT NO.	PERMIT NO.	PERMIT DATE
SR-9C	336-658-4000 (V)	336-658-3257 (F)

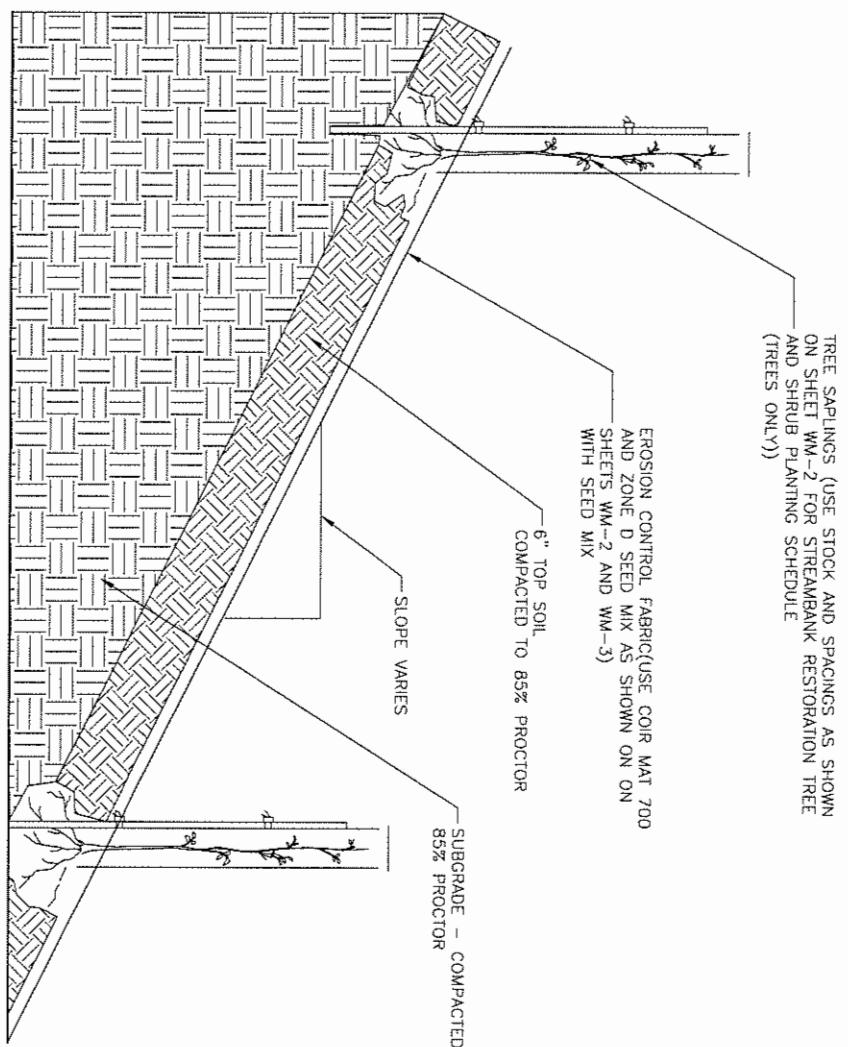


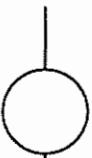
SCALE:	N.T.S.



 **SLOPE TREATMENT**

NOT TO SCALE

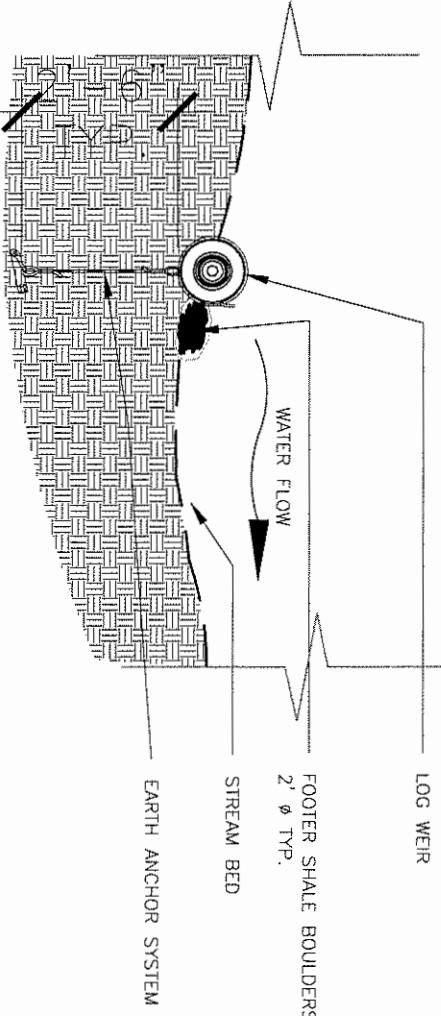




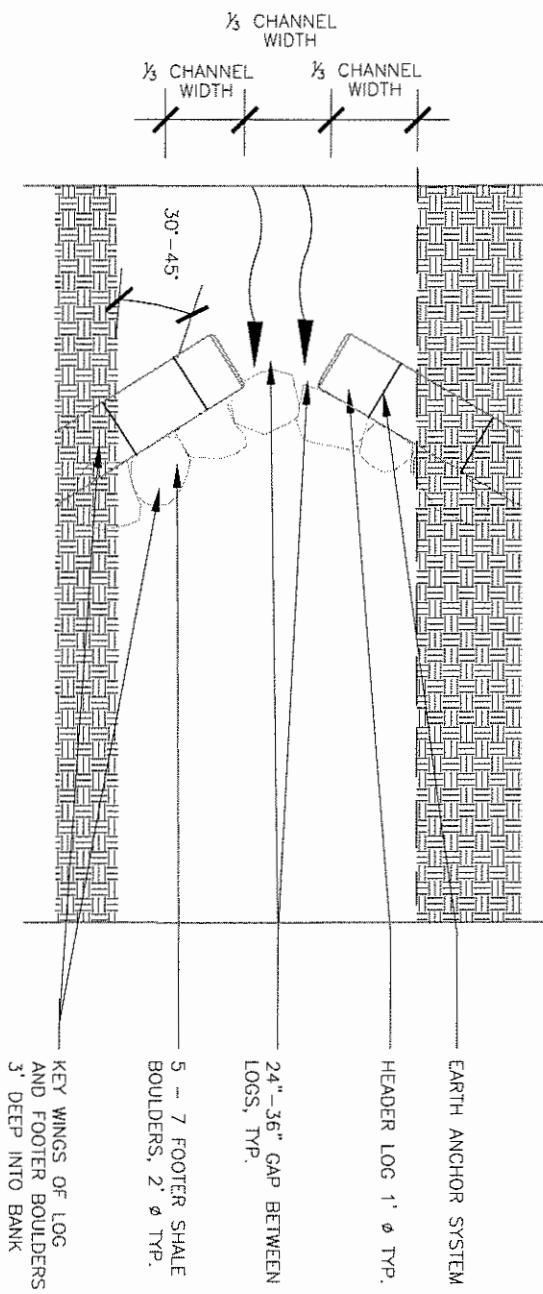
LOG WEIR

NOT TO SCALE

PROFILE SECTION



PLAN VIEW
1'-3"



SCALE: N.T.S.

STREAM RELOCATION TREATMENT DETAILS

TOWN OF NORTH GREENBUSH,
NEW YORK

LOWE'S
ENGINEERING AND
CONSTRUCTION

HWY 288 EAST, EAST COCK N. WILMINGTON NC 28659
336.656.4000 (V) 336.658.3257 (F)



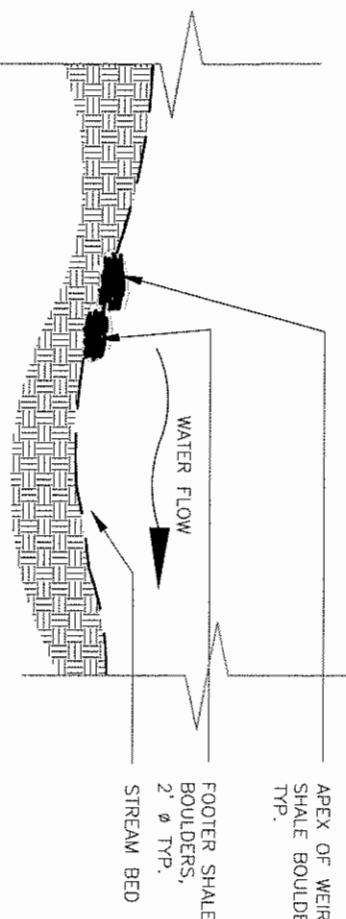
ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
ROUTE 1A CLIFTON PARK, NY 12068 (518) 677-7621
LOWE'S ARCHITECTURE CARE INNOVATION

SR-9F

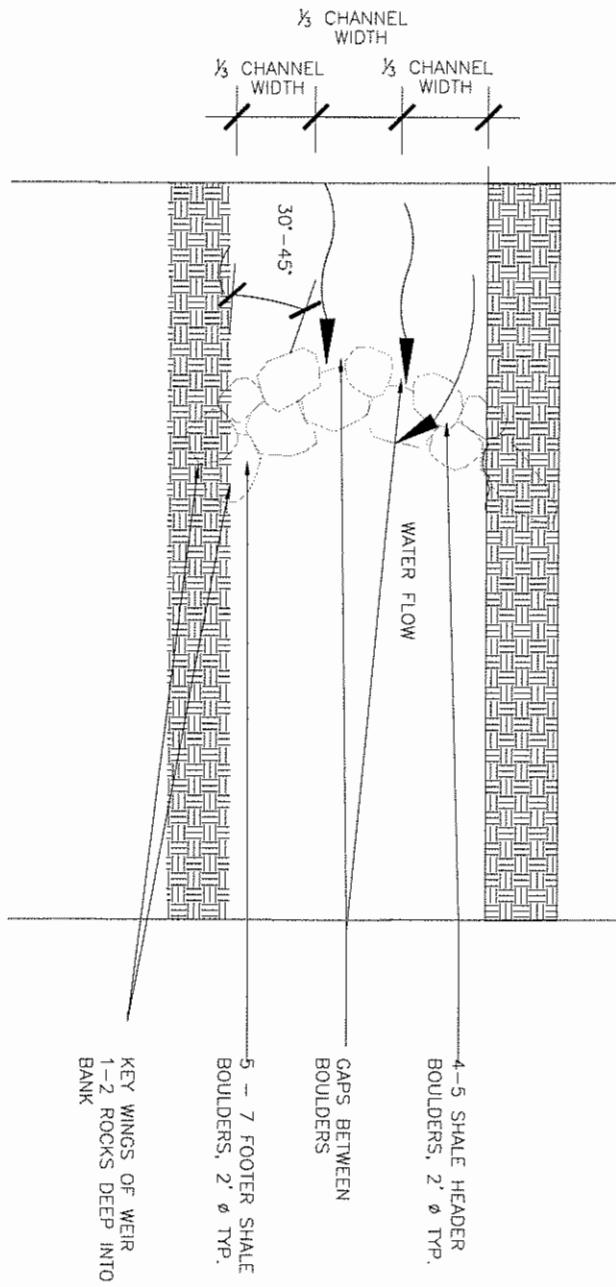
ROCK WEIR

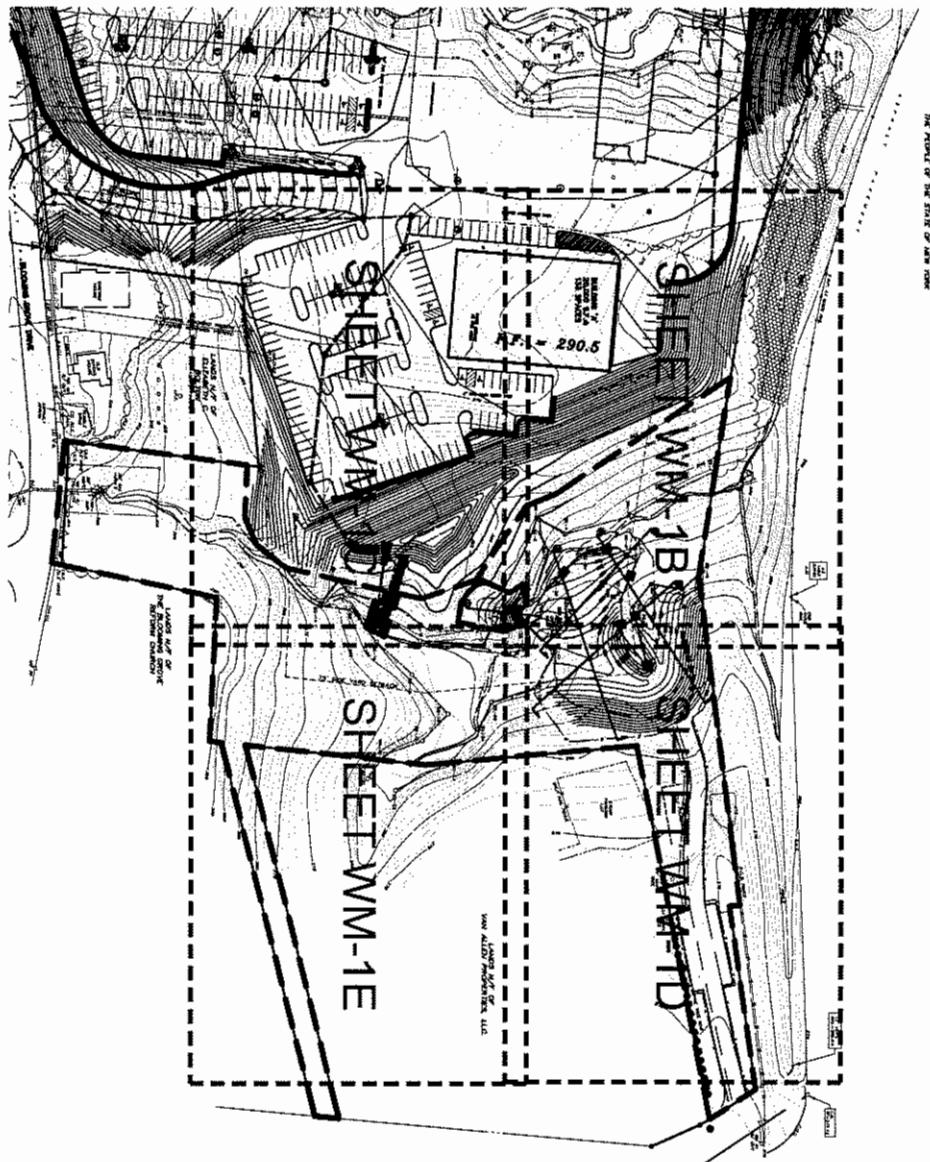
NOT TO SCALE

PROFILE SECTION



PLAN VIEW





OVERALL MITIGATION PLAN

TOWN OF NORTH GREENBUSH,
NEW YORK

Product No. Drawing No. Checked by

Original

Copy

Firm

Construction

Architectural

Engineering

Land Surveying

Other

LOWE'S®
ENGINEERING AND
CONSTRUCTION

HYW 268 EAST, EAST DOCK N. WILKESBORO, NC 28653
336.658.4000 (V) 336.658.3257 (F)
ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
ROUTE 9A, CLIFTON PARK, N.Y. 12068 (518) 371-7221
LANDSCAPE ARCHITECTURE LAND SURVEYING



ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
ROUTE 9A, CLIFTON PARK, N.Y. 12068 (518) 371-7221
LANDSCAPE ARCHITECTURE LAND SURVEYING

REF. NO.
DATE
SCALE: 1-200'

REVISIONS
DATE
DESCRIPTION

WM-1A



SITE NOTES:

- 1.) SOIL BORINGS 4/3/2004
SB1- DEPTH TO WATER TABLE 10"±
SB2- DEPTH TO WATER TABLE 60"±
- 2.) APPROXIMATE AREA NEW WETLAND DERIVED FROM
MITIGATION = 15,071± SF OR 0.35 ACRES. NEW
WETLAND AREA WILL CONSIST OF ZONES A+B TO
ELEVATION 249 (INCLUDES MICRO-TOPOGRAPHY
AREA AROUND EXISTING WETLANDS AT FLAGS
W2-34 AND W2-36).
- 3.) AVERAGE SLOPE OF STREAM BANK RESTORATION
AREA=34%

LEGEND:

- ZONE A** ELEVATION 237-246 (7,221.54±SF OR 0.17± ACRES)
WETLAND HERBACEOUS PLANTINGS/WETLAND SHRUB
HERB SEED MIX.
- ZONE B** ELEVATION 246-249 (7,849.61±SF OR 0.18± ACRES)
WETLAND SHRUB PLANTINGS/WETLAND SHRUB HERB
SEED MIX (INCLUDES MICRO-TOPOGRAPHY AREA
AROUND EXISTING WETLANDS AT FLAGS W2-34 AND
W2-36)
- ZONE C** ELEVATION 249-252 (4,232.78±SF OR 0.09± ACRES)
TRANSITIONAL TREE PLANTINGS/NATIVE WILDFLOWER
WETLAND SEED MIX
- ZONE D** ELEVATION 252-263 (7,901.67±SF OR 0.16±ACRES)
WILDFLOWER/RESTORATION EROSION SEED MIX
- NORTHERN PRESERVATION AREA**
(4.74 ACRES UPLAND/WETLAND PRESERVATION)
- CONSTRUCTION FENCE
- SILT FENCE
- EXISTING WETLANDS

8.) TOP ONE FOOT OF EXISTING SOIL SHALL BE

EXCAVATED AND REMOVED OFF-SITE TO PREVENT
RE-ESTABLISHMENT OF INVASIVE SPECIES.
CLEARED JAPANESE KNOTWEED SHALL BE
REMOVED FROM SITE AND DISPOSED OF
APPROPRIATELY

9.) NO EQUIPMENT OR MACHINERY SHALL BE OPERATED
OR STORED W/IIN STREAM CHANNEL OR
WETLANDS.

9.) ALL WETLAND BOUNDARIES AND ELEVATIONS W/IIN THE
MITIGATION AREA SHALL BE VERIFIED BY A
LICENSED SURVEYOR PRIOR TO CONSTRUCTION.

10.) UPON COMPLETION OF THE MITIGATION AREA
RE-GARDE ACCESS ROAD (16' WIDE GRAVEL
PAVEMENT AS PER DETAIL), REMAINING
DISTURBED AREAS SHALL BE SEADED WITH ZONE
D EROSION SEED MIX.

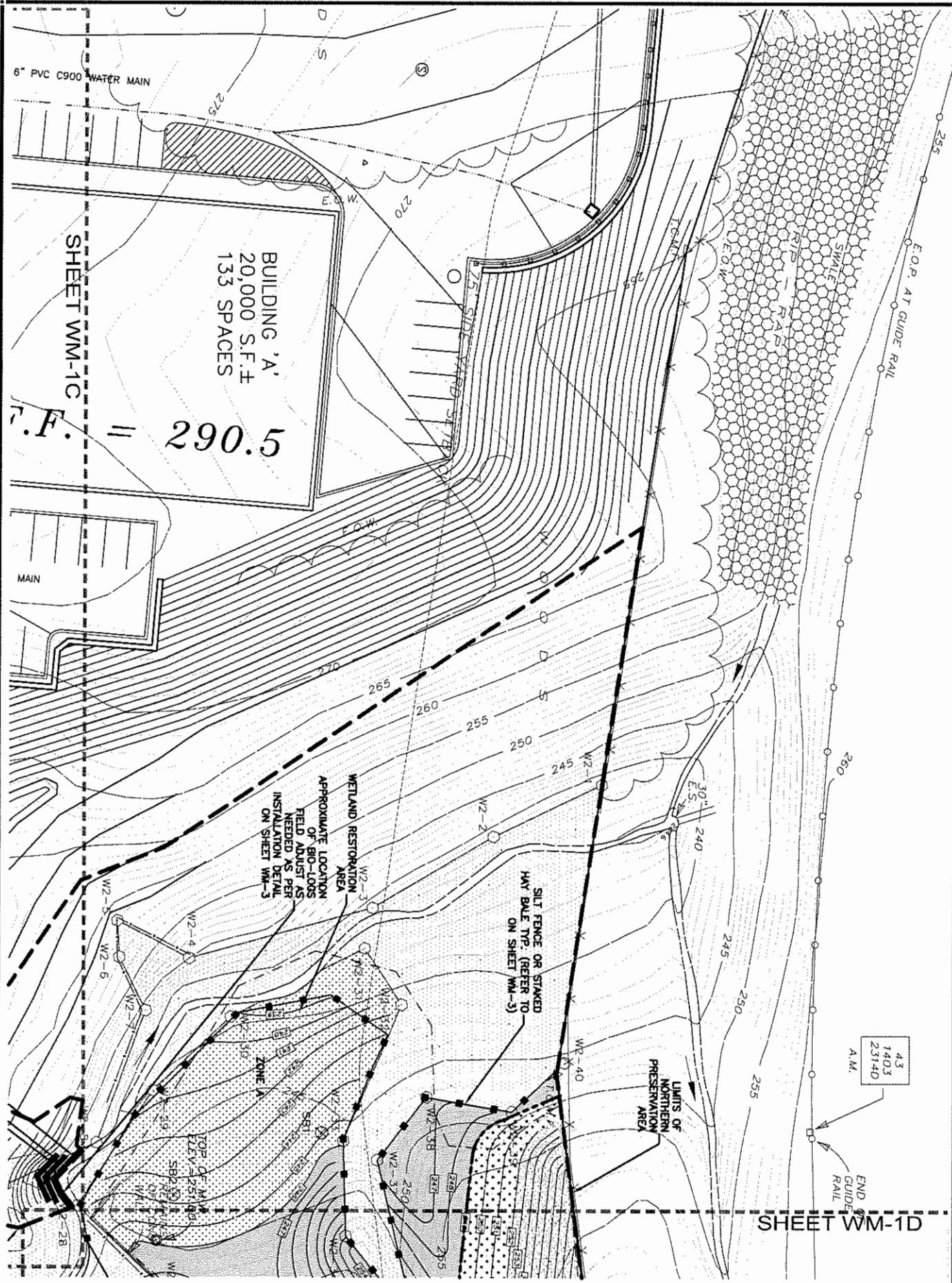
11.) ALL TEMPORARY WETLAND DISTURBANCE
ASSOCIATION WITH REMOVAL OF WALL & INSTALLATION
OF EROSION CONTROLS SHALL BE RETURNED TO
PRE-EXISTING GRADE AND PLANTED/SEEDED WITH
PLANTS PRESCRIBED FOR ZONE 'A'.

CONCEPTUAL WETLAND MITIGATION PLAN
TOWN OF NORTH GREENBUSH, NEW YORK

LOWE'S ENGINEERING AND CONSTRUCTION
HWY 288 EAST, EAST DOCK N. WILKESBORO, NC 28659 336.658.4000 (V) 336.658.3257 (F)

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP ROUTE 1A, CLIFTON PARK, NY 12068 (518) 374-7821 ENGINEERING Landscape Architecture LANDSCAPE ARCHITECTURE

HOME CENTER'S INC.	
REVISIONS	DATE
Initial	01/01/2004
A	01/01/2004
B	01/01/2004
C	01/01/2004
D	01/01/2004
E	01/01/2004
F	01/01/2004
G	01/01/2004
H	01/01/2004
I	01/01/2004
J	01/01/2004
K	01/01/2004
L	01/01/2004
M	01/01/2004
N	01/01/2004
O	01/01/2004
P	01/01/2004
Q	01/01/2004
R	01/01/2004
S	01/01/2004
T	01/01/2004
U	01/01/2004
V	01/01/2004
W	01/01/2004
X	01/01/2004
Y	01/01/2004
Z	01/01/2004



CONCEPTUAL WETLAND MITIGATION PLAN
TOWN OF NORTH GREENBUSH, NEW YORK

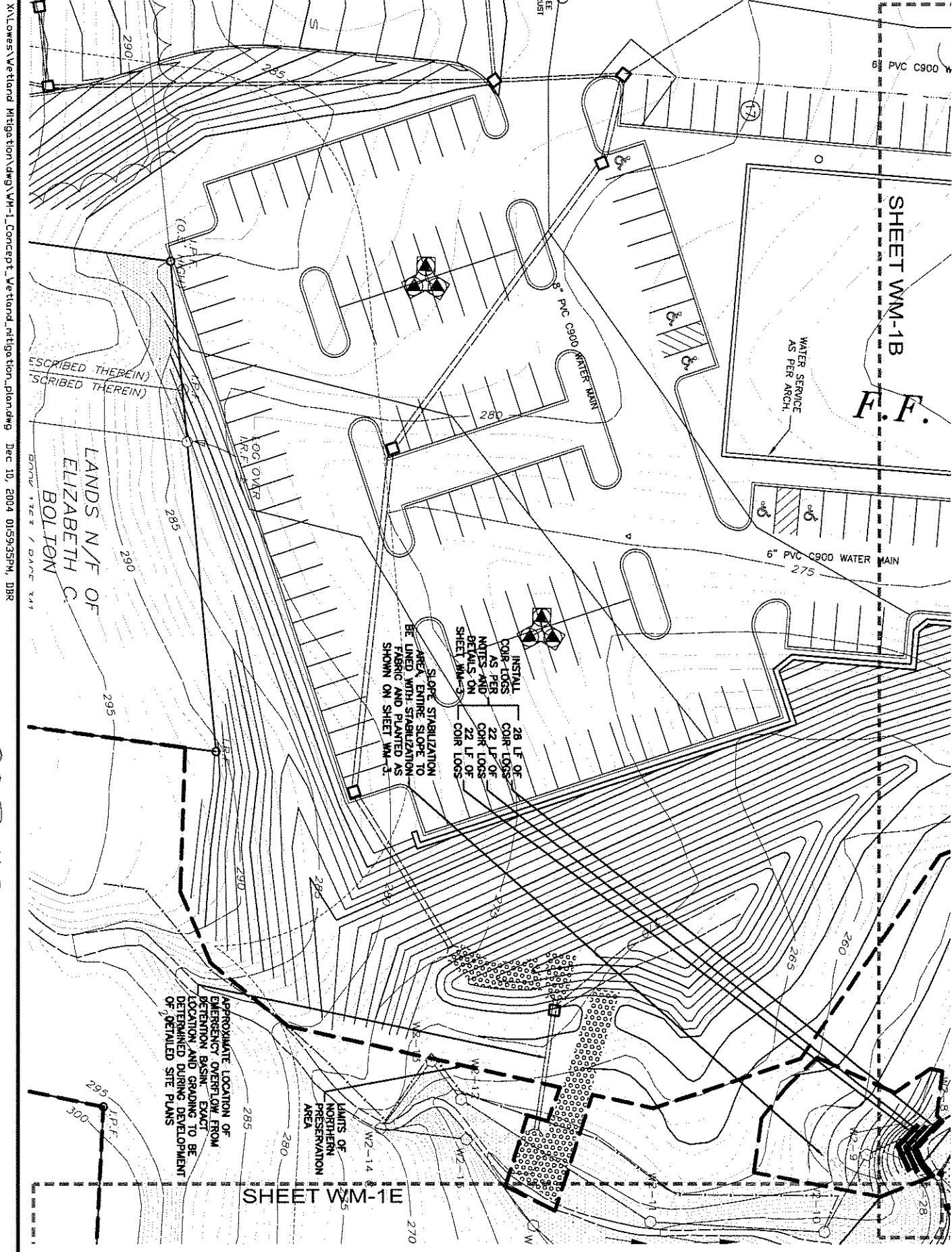
LOWE'S
ENGINEERING AND CONSTRUCTION
HY 266 EAST, EAST DOCK N. WALKERSBORO, NC 28660
336.658.4000 (V) 336.658.3257 (F)

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
ROUTE 148 CLIFTON PARK, NY 12068 518.574.7421
LAWRENCE ARCHITECTURE, L.L.C. 845.425.2444

SCALE: 1"-50'
NORTH
EAST

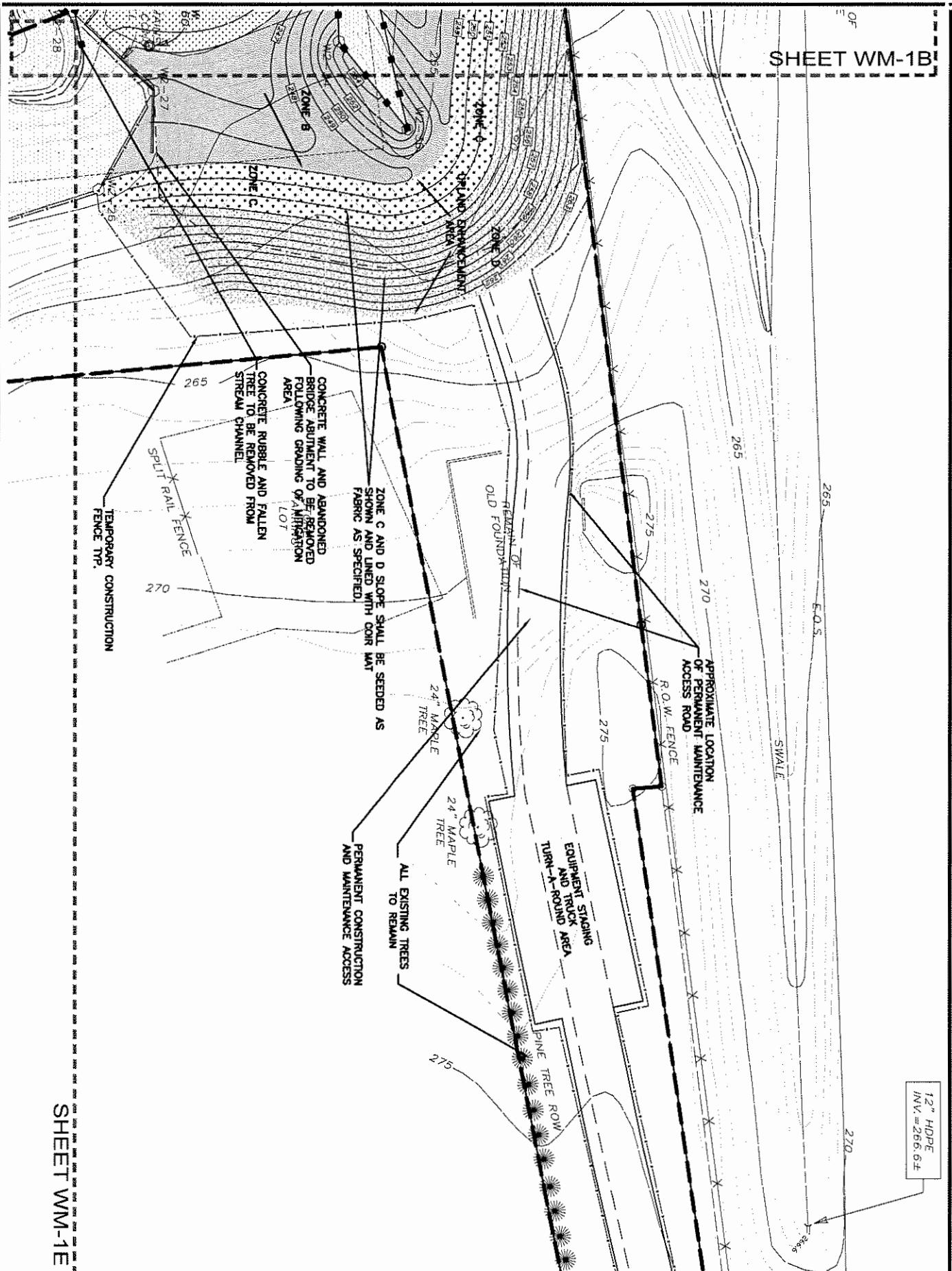
REVISIONS
DATE
DESCRIPTION

1	Initial	12/10/04
2		
3		
4		
5		



UNISON SOCIETY SCOTT REED CONSTRUCTION SOCIETY SCOTT CONSTRUCTION	HOME CENTERS, INC. HOME CENTERS, INC. HOME CENTERS, INC. HOME CENTERS, INC. HOME CENTERS, INC. HOME CENTERS, INC.
WM-1C	
PROJECT NO.	DRAWN BY
REVISIONS	DATE
DESCRIPTION	

SHEET WM-1B



12" HDPE
INV. #266.6±

SHEET WM-1E

CONCEPTUAL WETLAND MITIGATION PLAN

TOWN OF NORTH GREENBUSH, NEW YORK

LOWE'S
ENGINEERING AND CONSTRUCTION

HYW 228 EAST, EAST DOCK N. WILKESBORO, NC 28659
336.658.4000 (V) 336.658.3257 (F)



ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
ROUTE 1A, CLIFTON PARK, NY 12068 (518) 377-7421
ENGINEERING LANDSCAPE ARCHITECTURE LAND SURVEYING



SCALE: 1"=50'

REVISIONS
DATE SHEET DESCRIPTION

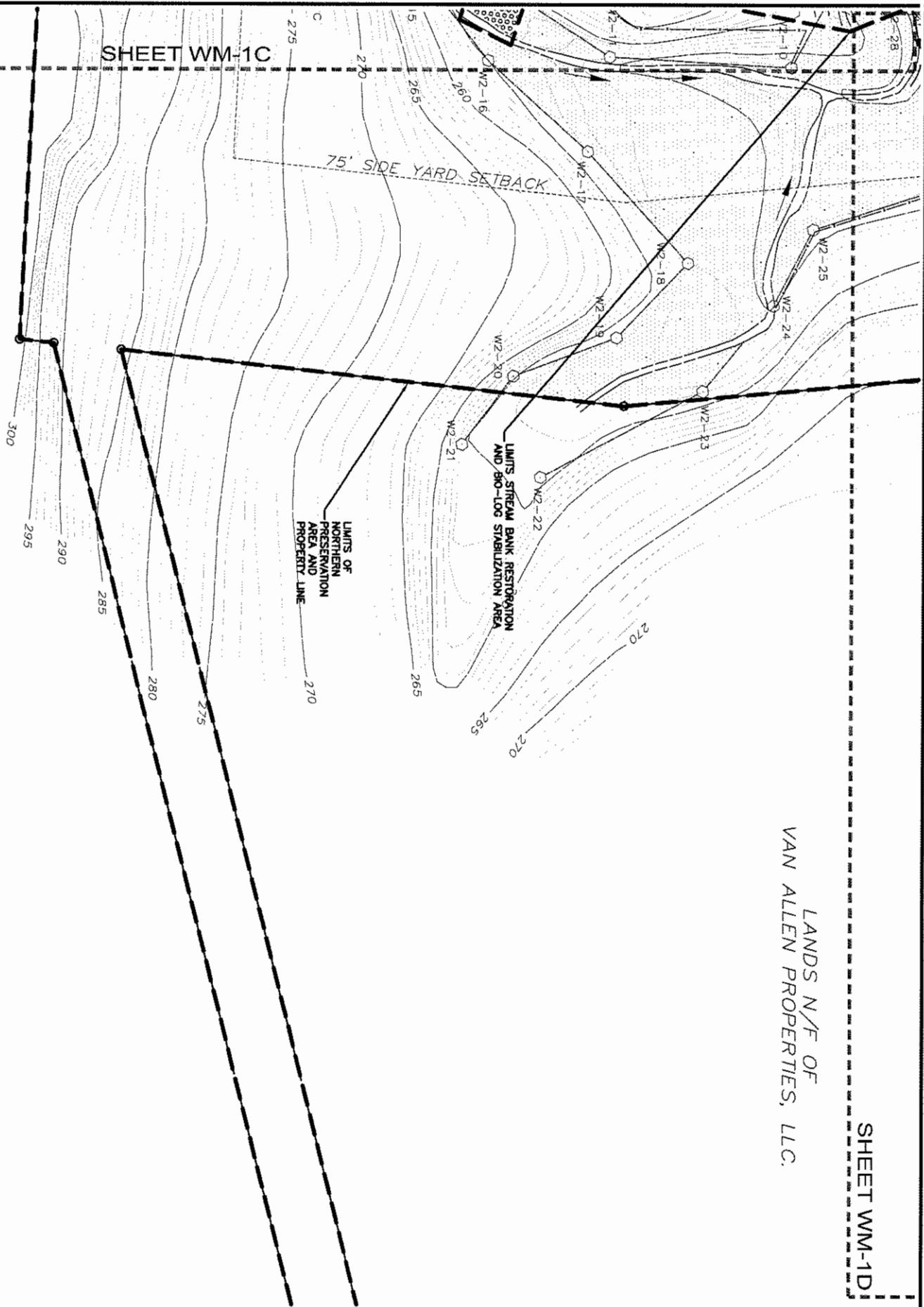
LANDS N/F OF
VAN ALLEN PROPERTIES, LLC.

SHEET WM-1D

DATE	REVISIONS
DESCRIPTION	

LOWE'S
HOME CENTERS INC.
PROJECT NO. INSTRUMENT NO. DRAWN BY

SHEET WM-1C



CONCEPTUAL WETLAND MITIGATION PLAN

TOWN OF NORTH GREENBUSH, NEW YORK

LOWE'S
ENGINEERING AND CONSTRUCTION

HWY 268 EAST, EAST DOCK N. WILKESBORO, NC 28659
336.658.4000 (V) 336.658.3257 (F)

WETLAND HERBACEOUS, SHRUB, & TREE PLANTING SCHEDULE

PLANTING ELEVATION	ZONE	SCIENTIFIC NAME	COMMON NAME	INDICATOR STATUS	QUANTITY	PLANT SPACING	SIZE/STOCK
A	237-246	CAREX STRICTA	TUSSOCK SEDGE	OBL	300	2' O.C.	2" PLUG
		CAREX CRINITA	FRINGE SEDGE	OBL	300	2' O.C.	2" PLUG
		SCIRPUS ATRORIENS	GREEN BULRUSH	OBL	300	2' O.C.	2" PLUG
	237-246	JUNCUS EFFUSUS	SOFT RUSH	FACW+	300	2' O.C.	2" PLUG
		SCIRPUS CYPERINUS	WOOL GRASS	FACW+	300	2' O.C.	2" PLUG
		VERBENA HASTATA	BLUE VERNIA	FACW+	300	2' O.C.	2" PLUG
B	237-249	ALNUS RUGOSA	SPECKLED ELDER	FACW+	75	6' O.C.	2'-3' 1 QUART CONTAINER
		CORNUS AMOMUM	SLIKY DOGWOOD	FACW	75	6' O.C.	2'-3' 1 QUART CONTAINER
		CORNUS STOLONIFERA	RED-OSIER DOGWOOD	FACW+	75	6' O.C.	2'-3' 1 QUART CONTAINER
	249-251	ACER RUBRUM	RED MAPLE	FAC	15	10' O.C.	4'-6' BALLED AND BURLAPPED
		FRAXINUS PENNSYLVANICA	GREEN ASH	FACW	15	10' O.C.	4'-6' BALLED AND BURLAPPED
		QUIERCUS RUBRA	RED OAK	FACU-	15	10' O.C.	4'-6' BALLED AND BURLAPPED
249-251	C						

ZONE D AND STREAM BANK RESTORATION SEED MIXTURE SCHEDULE

PLANTING ELEVATION	SCIENTIFIC NAME	COMMON NAME	INDICATOR STATUS	% BY NUMBER OF SEEDS	APPLICATION RATE	PLANTING PERIOD
GRASS PORTION 42 LBS						
251-262	AGROSTIS ALBA	REDTOP	N/A	60.8	47 LBS/43,560 SF	
251-262	FESTUCA RUBRA	RED FESCUE		27.5	47 LBS/43,560 SF	
251-262	LOLIUM MULTIFLORUM	ANNUAL RYEGRASS	N/A	11.7	47 LBS/43,560 SF	
LEGUME PORTION 4 LBS						
251-262	LOTUS CORNICULATUS	BIRDS-FOOT TREFOIL	N/A	100	47 LBS/43,560 SF	
WILDFLOWER PORTION 1 LB						
251-262	ACHILLEA MILLEFOLIUM	COMMON YARROW	N/A	41.9	47 LBS/43,560 SF	
251-262	RUDBECKIA HIRTA	BLACK-EYED SUSAN	N/A	24.1	47 LBS/43,560 SF	
251-262	CHRYSANTHEM LEUCANTHEM	OX-EYE DAISY	N/A	9.8	47 LBS/43,560 SF	
251-262	ASTER NOVAE-ANGLAE	NEW ENGLAND ASTER	N/A	6.5	47 LBS/43,560 SF	
251-262	HESPERIS MATRONALIS	DAME'S ROCKET	N/A	6.5	47 LBS/43,560 SF	
251-262	POLYGONUM PENNSYLVANICUM	PENNSYLVANICUM SMARTWEED	N/A	3.3	47 LBS/43,560 SF	

APRIL 15-JUNE 15

SEPTEMBER 15-OCTOBER 15

CONCEPTUAL WETLAND MITIGATION PLANTING PLAN AND DETAILS		
TOWN OF NORTH GREENBUSH, NEW YORK		
END DATE	DRAWN BY	CHIEF DRAWER

LOWE'S
ENGINEERING AND CONSTRUCTION

HWY 208 EAST, EAST DOCK N. WILKESBORO, NC 28691
336.656.4000 (V)

EDP
ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
CLINTON HARBOR, NY 10522-3747
ENGINEERING LANDSCAPE ARCHITECTURE Landscape



ZONE A & B WETLAND SHRUB/HERB SEED MIXTURE SCHEDULE

PLANTING ELEVATION	SCIENTIFIC NAME	COMMON NAME	INDICATOR STATUS	% BY NUMBER OF SEEDS	APPLICATION RATE	PLANTING PERIOD
237-249	CEPHALANTHUS OCCIDENTAIS	BUTTON BUSH	OBL	6	2 LBS/ 21,000 SF	
237-249	VIBURNUM DENTATUM	ARROW WOOD	FAC	2.5	2 LBS/ 21,000 SF	
237-249	SAMBUCUS CANADENSIS	ELDERBERRY	FACW	2.5	2 LBS/ 21,000 SF	
237-249	CORNUS AMOMUM	SILKY DOGWOOD	FACW	0.8	2 LBS/ 21,000 SF	
237-249	VERBENA hastata	BLUE VERNAIN	FACW+	40	2 LBS/ 21,000 SF	
237-249	EUPATORIADELPHUS MACULATUM	SPOTTED JOE-PYE WEED	FACW	17	2 LBS/ 21,000 SF	
237-249	CAREX CRINITA	GREEN BULRUSH	OBL	17	2 LBS/ 21,000 SF	
237-249	BIDEN CERNUA	NODDING-BUR MARIGOLD	OBL	2.5	2 LBS/ 21,000 SF	
237-249	ASCLEPIAS INCARATA	SWAMP MILKWEED	OBL	1.8	2 LBS/ 21,000 SF	
237-249	IRIS VERSCOLOR	BLUE FLAG	OBL	0.7	2 LBS/ 21,000 SF	
237-249	ASTER UMBELLATUS	FLAT-TOP WHITE ASTER	?	0.7	2 LBS/ 21,000 SF	
237-249	CAREX INTUMESCENTS	BLADDER SEDGE	?	0.5	2 LBS/ 21,000 SF	
						APRIL 15-JUNE 15
						SEPTEMBER 15-OCTOBER 15

STREAM BANK RESTORATION TREE & SHRUB PLANTING SCHEDULE

SCIENTIFIC NAME	COMMON NAME	INDICATOR STATUS	QUANTITY	PLANT SPACING	SIZE/STOCK	PLANTING PERIOD
VIBURNUM DENTATUM	ARROW WOOD	FAC	13	6' O.C.	2'-3' 1 QUART CONTAINER	15
LINDERA BENZOIN	SPICEBUSH	FACW-	14	6' O.C.	2'-3' 1 QUART CONTAINER	15
CORNUS RACEMOSA	GRAY DOGWOOD	FAC	13	6' O.C.	2'-3' 1 QUART CONTAINER	
POPULUS DELTOIDES	EASTERN COTTONWOOD	FAC	8	10' O.C.	4'-6' BALLED AND BURLAPPED	
BETULA NIGRA	RIVER BIRCH	FACW	8	10' O.C.	4'-6' BALLED AND BURLAPPED	
FRAXINUS PENNSYLVANICA	GREEN ASH	FACW	8	10' O.C.	4'-6' BALLED AND BURLAPPED	
						APRIL 15-JUNE 15
						SEPT. 15-OCT. 15

CONCEPTUAL WETLAND MITIGATION
PLANTING PLAN AND DETAILS

TOWN OF NORTH GREENBUSH,
NEW YORK

LOWE'S
ENGINEERING AND
CONSTRUCTION

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
ROUTE 146 CLIFTON PARK, NY 12068 (518) 787-1821
ENGINEERING LANDSCAPE ARCHITECTURE LAW SURVEYING

WM-2H

ZONE C NATIVE WILDFLOWER WETLAND SEED MIXTURE SCHEDULE

PLANTING ELEVATION	SCIENTIFIC NAME	COMMON NAME	INDICATOR STATUS	% BY NUMBER OF SEEDS	APPLICATION RATE	PLANTING PERIOD
249-251	PANICUM DICHOTOMIFLORUM	SMOOTH PANIC GRASS	FACW-	19.75	2 LBS/11,000 SF	APRIL 15-JUNE 15
249-251	SOLIDAGO RUGOSA	WRINKLED GOLDENROD	FAC	8.89	2 LBS/11,000 SF	
249-251	EUTHAMIA GRAMINIFOLIA	GRASS-LEAVED GOLDENROD	FAC	6.65	2 LBS/11,000 SF	
249-251	ACORUS CALAMUS	SWEETFLAG	OBL	4.59	2 LBS/11,000 SF	
249-251	ASTER NOVAE-ANGLAE	NEW ENGLAND ASTER	FACW-	2.8	2 LBS/11,000 SF	
249-251	BIDENS CERNUA	NODDING BEGGER'S TICK	OBL	0.79	2 LBS/11,000 SF	
249-251	ANDROPOGON GERARDII	BIG BLUESTEM	FAC	0.21	2 LBS/11,000 SF	
249-251	IRIS VERSICOLOR	BLUE FLAG	OBL	0.12	2 LBS/11,000 SF	
249-251	EUPATORIUM PERfoliatum	BONESET	FACW+	26.66	2 LBS/11,000 SF	
249-251	EUPATORIUM MACULATUS	SPOTTED JOE-PYE WEED	FACW	8.74	2 LBS/11,000 SF	
249-251	VERBENA hastata	BLUE VERVAIN	FACW	20.8	2 LBS/11,000 SF	

APRIL 15-JUNE 15

SEPTEMBER 15-OCTOBER 15

CONCEPTUAL WETLAND MITIGATION PLANTING PLAN AND DETAILS		
TOWN OF NORTH GREENBUSH, NEW YORK		
PROJECT No.	FORWARDED BY	CHIEF ENGINEER

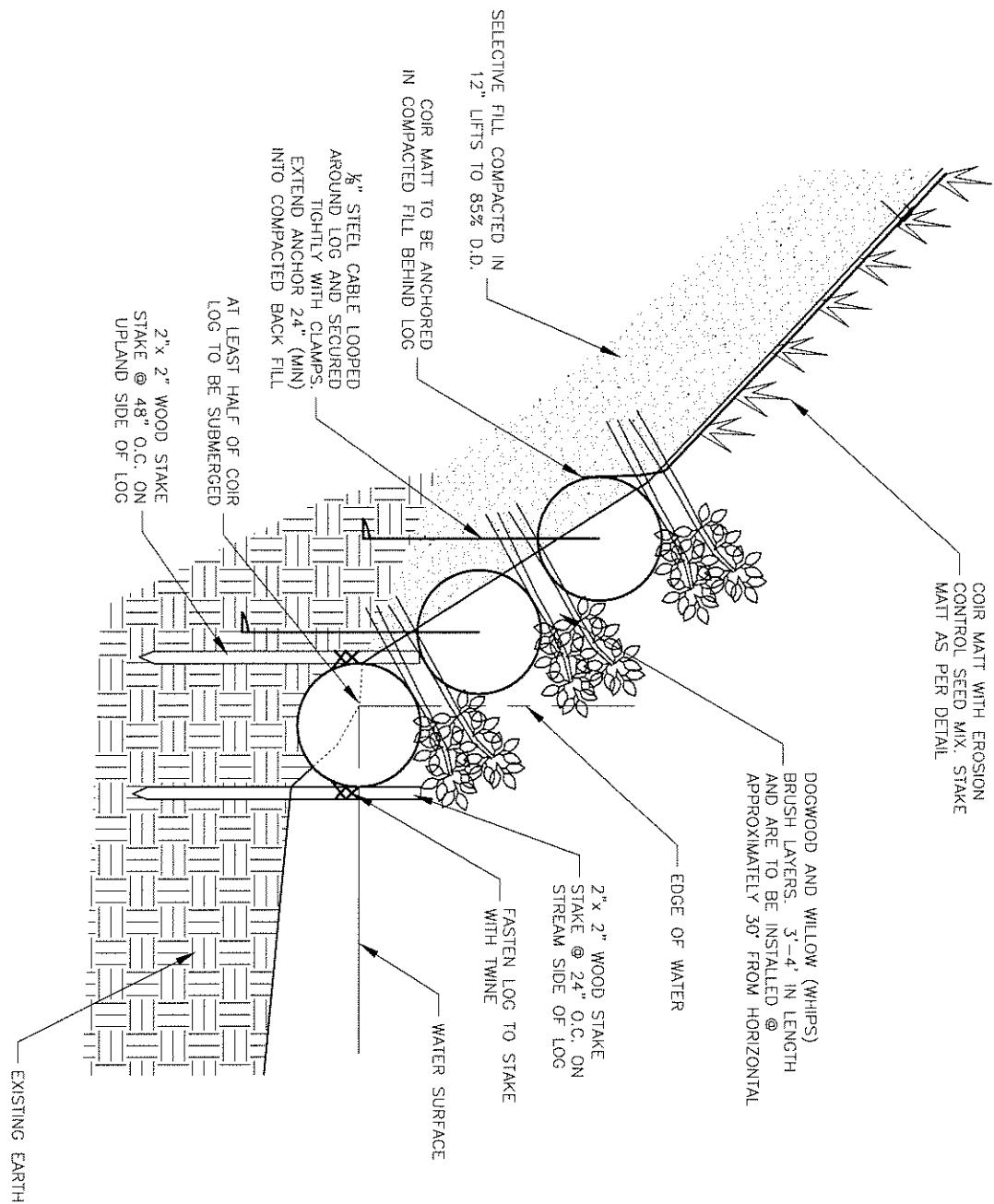


ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
ROUTE 148 CLYTON, PAUL, N.Y. 12056 (518) 571-7621
LANDSCAPE ARCHITECTURE
ENGINEERING

GENERAL CONTRACTOR	GENERAL CONTRACTOR
PERMITTING	PERMITTING
SOILS/GEOTECHNICAL	SOILS/GEOTECHNICAL
CONTRACTOR/PARTNER	CONTRACTOR/PARTNER
DESIGNER/PARTNER	DESIGNER/PARTNER

COIR LOG

NOT TO SCALE



CONCEPTUAL WETLAND MITIGATION SECTIONS AND EROSION CONTROL

TOWN OF NORTH GREENBUSH, NEW YORK

Lowe's
ENGINEERING AND CONSTRUCTION

HW 208 EAST, EAST DOCK N. WILKESBORO, NC 28659
336.656.4000 (V) 336.656.3257 (F)

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
ROUTE 148 CLIFTON PARK, NY 12066 (518) 271-7727
ENGINEERING LANDSCAPE ARCHITECTURE LAND CONSULTANTS

WM-3D

