



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 reply to:

Public Notice Number: NAN-2005-1324-ESP

Issue Date: April 21, 2007

Expiration Date: May 20, 2007

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).

APPLICANT: New York City Department of Environmental Protection
 Staten Island Bluebelt
 5917 Junction Boulevard , FL. 12
 Flushing, N.Y. 11373-5108

ACTIVITY: Construct outlet stilling basin, fill wetlands, realign stream, and provide wetland restoration

WATERWAY: Sweet Brook, Atlantic Ocean

LOCATION: Annadale, Borough of Staten Island, Richmond 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 benefit 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, historic properties, fish and wildlife values, flood hazards, 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, considerations 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 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, there are no known sites eligible for, or included in, the Register within the permit area. 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.

Pursuant to Section 307 (c) of the Coastal Zone Management Act of 1972 as amended [16 U.S.C. 1456 (c)], for activities under consideration that are located within the coastal zone of a state which has a federally approved coastal zone management program, the applicant has certified in the permit application that the activity complies with, and will be conducted in a manner that is consistent with, the approved state coastal zone management program. By this public notice, we are requesting the state's concurrence with, objection to, or waiver of the applicant's certification. No permit decision will be made until one of these actions occur. For activities within the coastal zone of New York State, the applicant's certification and accompanying information is available from the Consistency Coordinator, New York State Department of State, Division of Coastal Resources and Waterfront Revitalization, Coastal Zone Management Program, 41 State Street, Albany, New York 12231, Telephone (518) 474-6000. Comments regarding the applicant's certification, and copies of any letters to this office commenting upon this proposal, should be so addressed.

In addition to any required water quality certificate and coastal zone management program concurrence, the applicant has obtained or requested the following governmental authorization for the activity under consideration:

- New York State Department of Environmental Conservation Permit

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 (917) 790-8522 and ask for Craig Spitz.

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

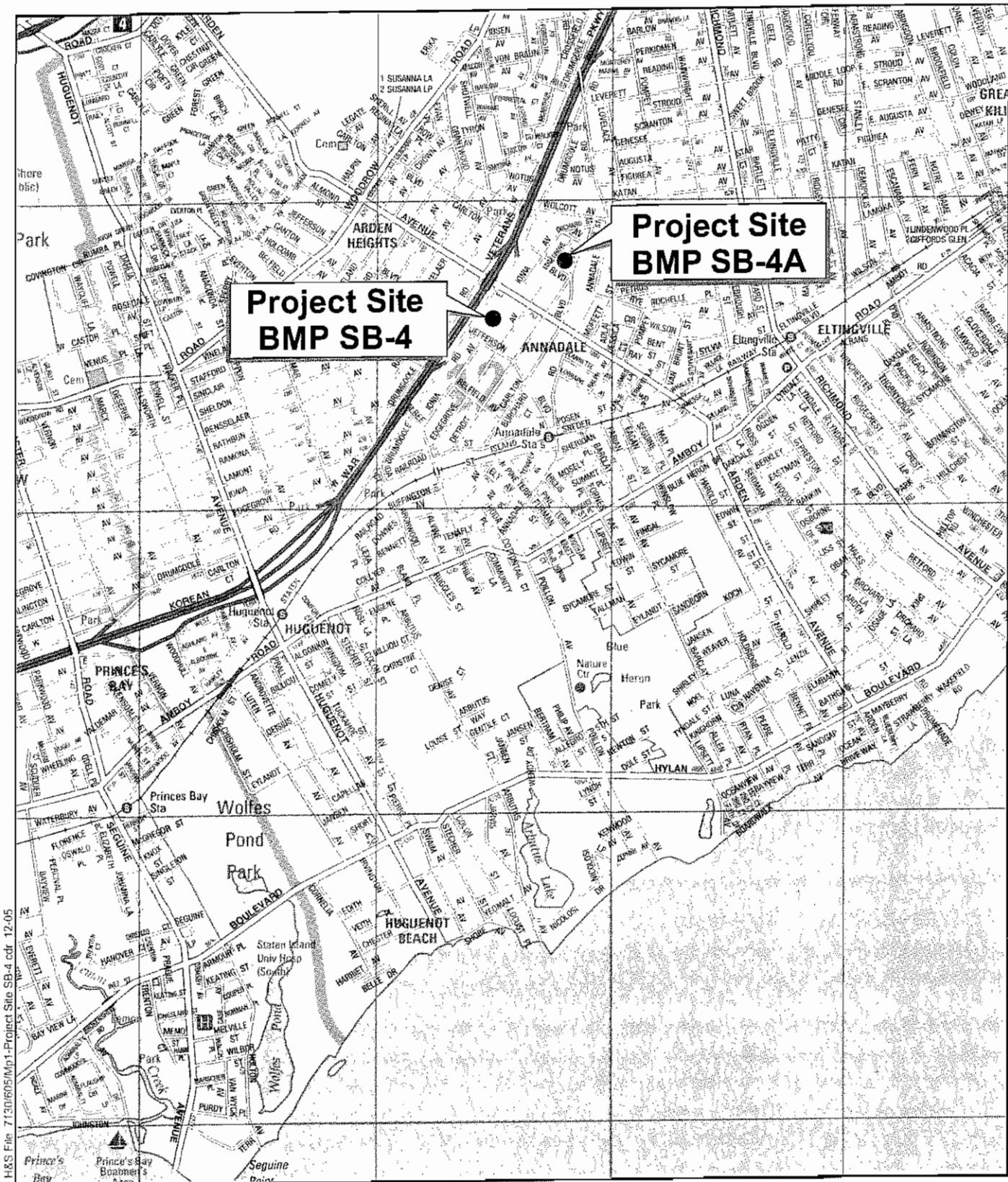
The applicant, the New York City Department of Environmental Protection has requested Department of the Army authorization to discharge fill into wetlands in association with the construction of an outlet stilling basin and realignment of a stream, create a wetland/upland regime and provide wetland restoration in a filled wetland site by removing the fill material, realigning a stream, and creating another wetland/upland regime in the Sweet Brook watershed, Atlantic Ocean at Annadale Borough of Staten Island, Richmond County, New York.

The work would involve the following:

BMP SB-4: At the end of Iona Avenue, between Jefferson Boulevard and Arden Avenue, realign approximately 375 linear feet of existing stream, construct a 20-foot wide by 24-foot long concrete paver block accessway, stormwater pipe extension, headwalls, and 700 square foot concrete embedded riprap outlet stilling basin. At Arden Avenue, install a headwall at each side of the overpass with rock toe plantings in the upland areas and a 350 square foot concrete embedded riprap outlet stilling basin at the north headwall. Within wetlands, temporarily impact, during construction, approximately 0.39 acres, excavate approximately 130 cubic yards of material, and discharge approximately 40 cubic yards of material, including riprap, for a total permanent loss of approximately 0.15 acres of wetlands. Create approximately 0.03 acres of rock/toe plantings, 0.16 acres of riparian community, 0.23 acres of successional wetland/floodplain forest, and 0.19 acres of upland forest as shown on attached Ionia Avenue Landscaping Plan (Composite) Sheet 1 of 1, and Ionia Avenue Landscaping Site Plans 1 through 4; plant with appropriate vegetation as shown on the attached plant list.

BMP SB-4A: At the end of Carlton Boulevard, south of Edgegrove Avenue, realign approximately 236 linear feet of existing stream, install a natural fieldstone check dam, live (5) rock cross vanes, and a 12-inch diameter outfall pipe with an approximate 60 square foot riprap apron at its waterward terminus and 5-foot wide by 15-foot long wood chip accessway along the length of the pipe. Excavate approximately 133 cubic yards of fill material, discharge approximately 130 cubic yards of material, including riprap, into approximately 0.01 acres of wetlands, grade as necessary, and create approximately 0.15 acres of riparian community, 0.15 acres of successional wetland/floodplain forest, and 0.24 acres of upland forest for a net gain of 0.29 acres of wetlands as shown on attached Carlton Boulevard Landscaping Plan (Composite) Sheet 1 of 1 and Carlton Boulevard Landscaping Plans 1 through 6; plant with appropriate vegetation as shown on the attached plant list.

The stated purpose of this project is to improve water quality and minimize flooding to an approximate 270 acre residential area.



New York City
Department of Environmental Protection

HAZEN AND SAWYER
Environmental Engineers & Scientists

NYCDEP Bluebelt Sweet Brook Watershed BMPs SB-4 and SB-4A Site Location Map

Figure 1

PLOT DATE 12/15/05 10:46am FILE= H:\6000-9999\SB\BMP-4-E(W)(S)(C) by JFORZANO XREF FILE = NONE

DRUMGOOLE RD. EAST
(Former Road)

BLOCK 6200
LOT 12
N.F. Common's Hwy

BLOCK 6200
LOT 13
N.F. Common's Hwy
Lumber Co. Hwy

WETLANDS DELINEATED
BY ENVIRONMENTAL
CONCERN USING USACOE
METHODOLOGY (TYP)

BLOCK 6200
LOT 14
N.F. Levy's Hwy

BLOCK 6200
LOT 15
N.F. Common's Hwy
Protection

BLOCK 6200
LOT 16
N.F. New Hwy Driv

BLOCK 6200
LOT 17
N.F. Old Hwy Driv

BLOCK 6200
LOT 18
N.F. Hwy Aves

BLOCK 6200
LOT 19
N.F. Hwy Aves

BLOCK 6200
LOT 20
N.F. Hwy Aves

BLOCK 6200
LOT 21
N.F. Hwy Aves

BLOCK 6200
LOT 22
N.F. Hwy Aves

BLOCK 6200
LOT 23
N.F. Hwy Aves

BLOCK 6200
LOT 24
N.F. Hwy Aves

BLOCK 6200
LOT 25
N.F. Hwy Aves

ARDEN AVE.
(Old R. Road)
C.O. 0303075

BLOCK 6200
LOT 26
N.F. Arden's Hwy

BLOCK 6200
LOT 27
N.F. Arden's Hwy

BLOCK 6200
LOT 28
N.F. Arden's Hwy

BLOCK 6200
LOT 29
N.F. Arden's Hwy

BLOCK 6200
LOT 30
N.F. Arden's Hwy

BLOCK 6200
LOT 31
N.F. Arden's Hwy

BLOCK 6200
LOT 32
N.F. Arden's Hwy

BLOCK 6200
LOT 33
N.F. Arden's Hwy

BLOCK 6200
LOT 34
N.F. Arden's Hwy

BLOCK 6200
LOT 35
N.F. Arden's Hwy

BLOCK 6200
LOT 36
N.F. Arden's Hwy

BLOCK 6200
LOT 37
N.F. Arden's Hwy

BLOCK 6200
LOT 38
N.F. Arden's Hwy

BLOCK 6200
LOT 39
N.F. Arden's Hwy

BLOCK 6200
LOT 40
N.F. Arden's Hwy

BLOCK 6200
LOT 41
N.F. Arden's Hwy

SWEET BROOK DRAINAGE AREA

MBP SB-4: IONIA AVENUE
EXISTING SITE PLAN (COMPOSITE)

SHEET 1 OF 1

80' 0'
80' 40' 0' 40' 80'

1'=80'-0"

HAZEN AND SAWYER
Environmental Engineers & Scientists

*DRUMGOOLE RD. EAST
(Service Road)*

MATCH LINE - SEE SHEET 2

WETLANDS DELINEATED BY ENVIRONMENTAL CONCERN USING USAQ METHODOLOGY (TYP.)

BLOCK 6230
LOT 21

BLOCK 6230
LOT 17

BLOCK 5230
LOT 27
NINN Marty Ann Byrne

BLOCK 6230 LOT 21	N/F Michelle Pirone	BLOCK 6230 LOT 25
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BLOCK 6230
LOT 35

N/F Shannon L.

BLOCK 6230
LOT 33

N/F Smith-Carson

BLOCK 6230
LOT 31

N/F Department of
Environmental
Protection

BLOCK 6230
LOT 29

N/F Joseph Penrice

MATCH LINE = SEE SHEET 3

SWEET BROOK DRAINAGE AREA

BMP SB-4: IONIA AVENUE
EXISTING SITE PLAN

HAZEN AND SAWYER

Environmental Engineers & Scientists

40' 0' -20' -40'

IP SB-4: IONIA AVENUE
EXISTING SITE PLAN

Pilot Date 12/15/05 10:49am FILE = H:\6000-9999\6300\SB\BMP-4-E(W)(S)-2 by JFORZANO XREF FILE = NONE



HAZEN AND SAWYER Environmental Engineers & Scientists

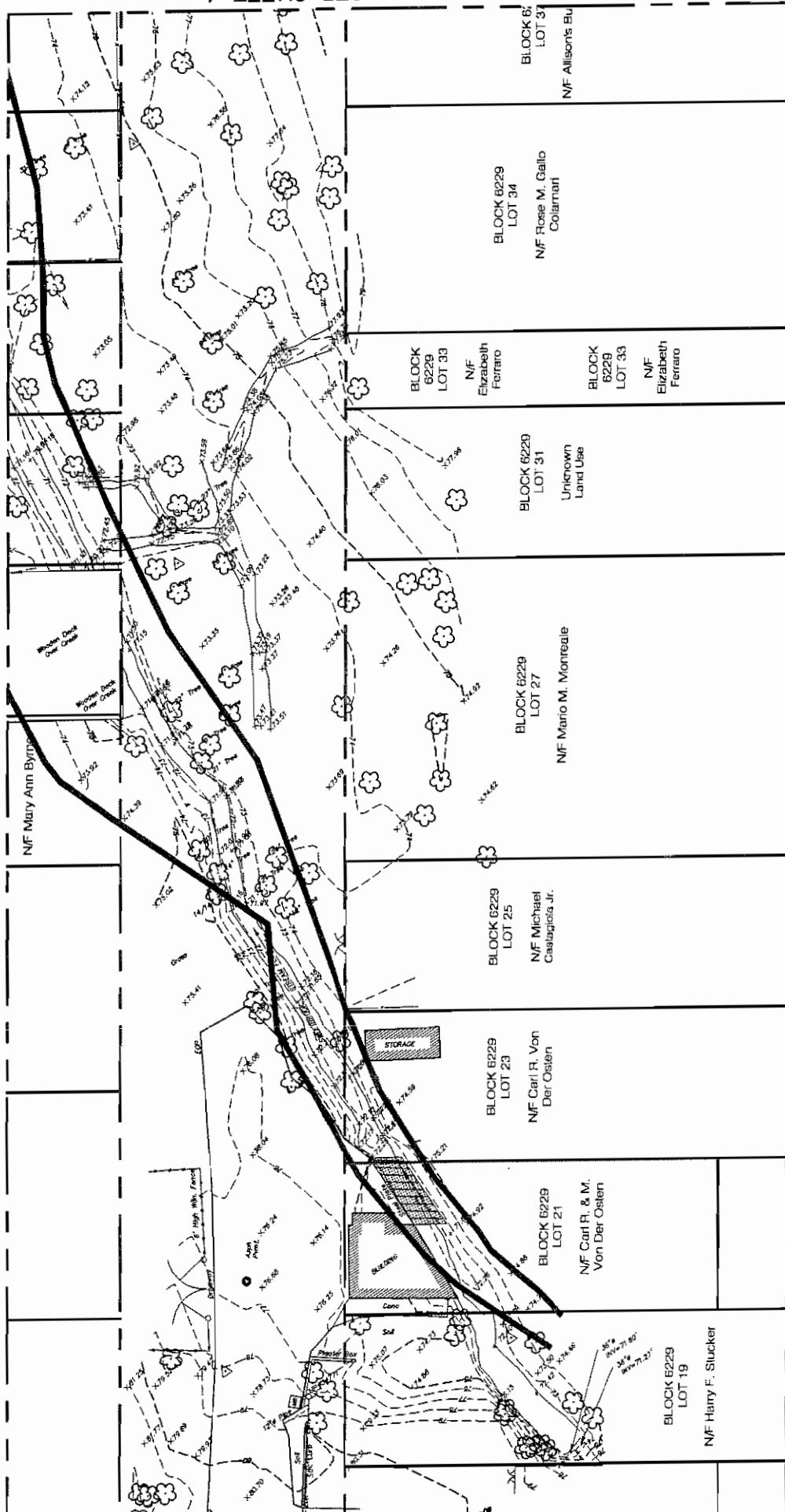
BMP SB-4: IONIA AVENUE
EXISTING SITE PLAN
SHEET 2 OF 4

40' 0 20 40

1' = 40' - 0"

MATCH LINE - SEE SHEET 1

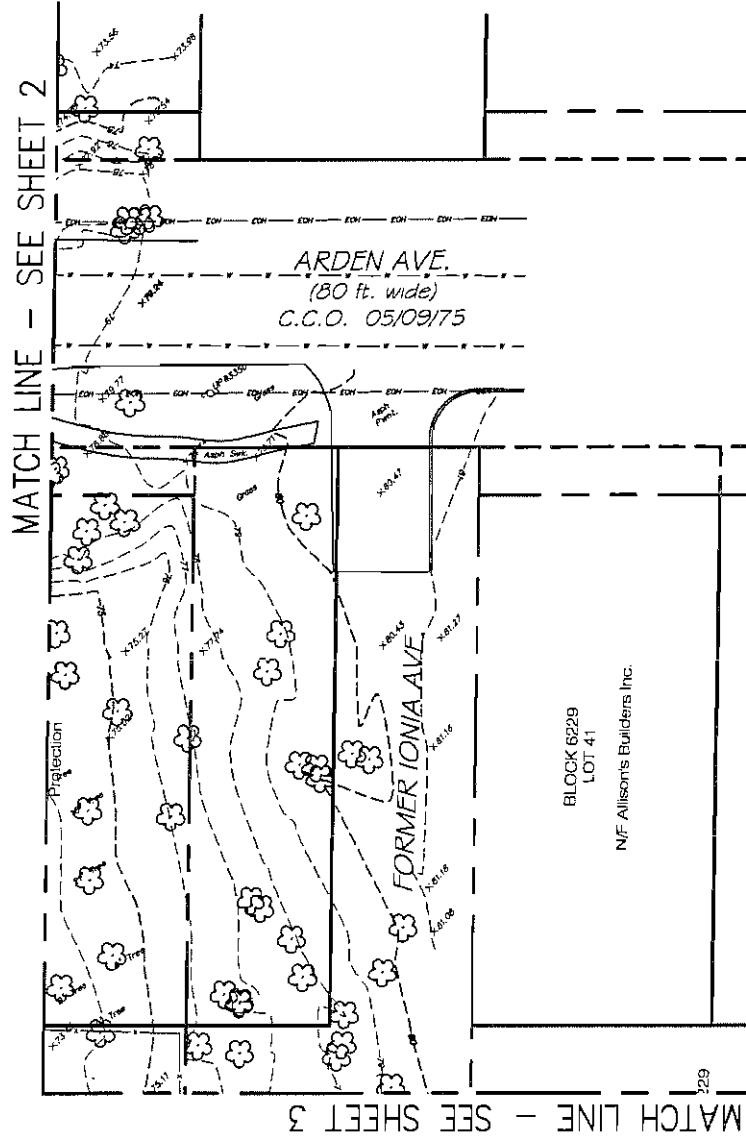
MATCH LINE - SEE SHEET 4



HAZEN AND SAWYER
Environmental Engineers & Scientists

1' = 40'-0"

SWEET BROOK DRAINAGE AREA
BMP SB-4: IONIA AVENUE
EXISTING SITE PLAN
SHEET 3 OF 4



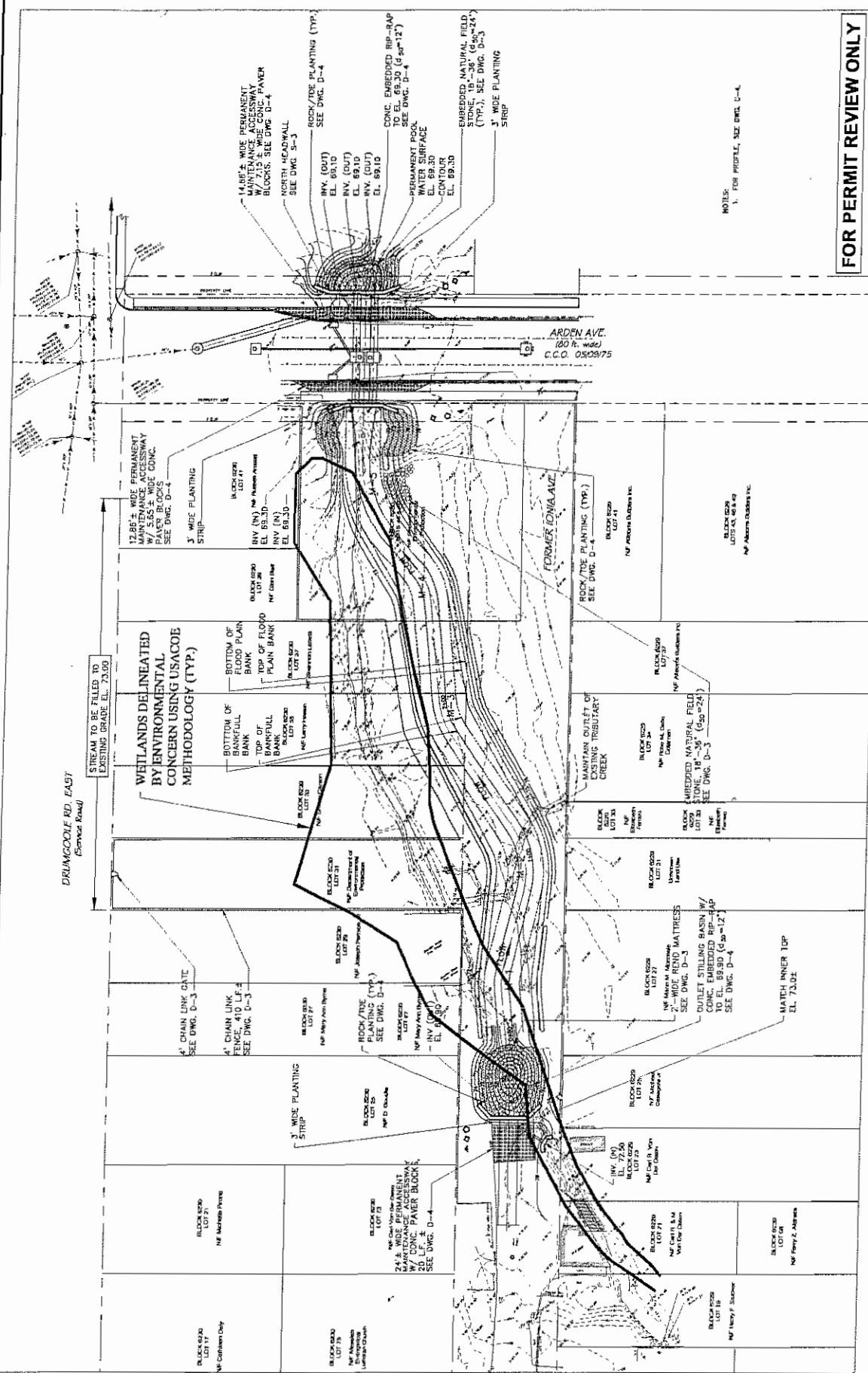
SWEET BROOK DRAINAGE AREA

BMP SB-4: IONIA AVENUE
EXISTING SITE PLAN
SHEET 4 OF 4

1" = 40'-0"

HAZEN AND SAWYER
Environmental Engineers & Scientists

PLOT DATE 10/26/06 12:35pm FILE= H:\6000-9999\6300\SB\BMP\4-F(W)(S)(C) b, JFORZANO xPEF FILE = NONE



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Environmental Engineers & Scientists

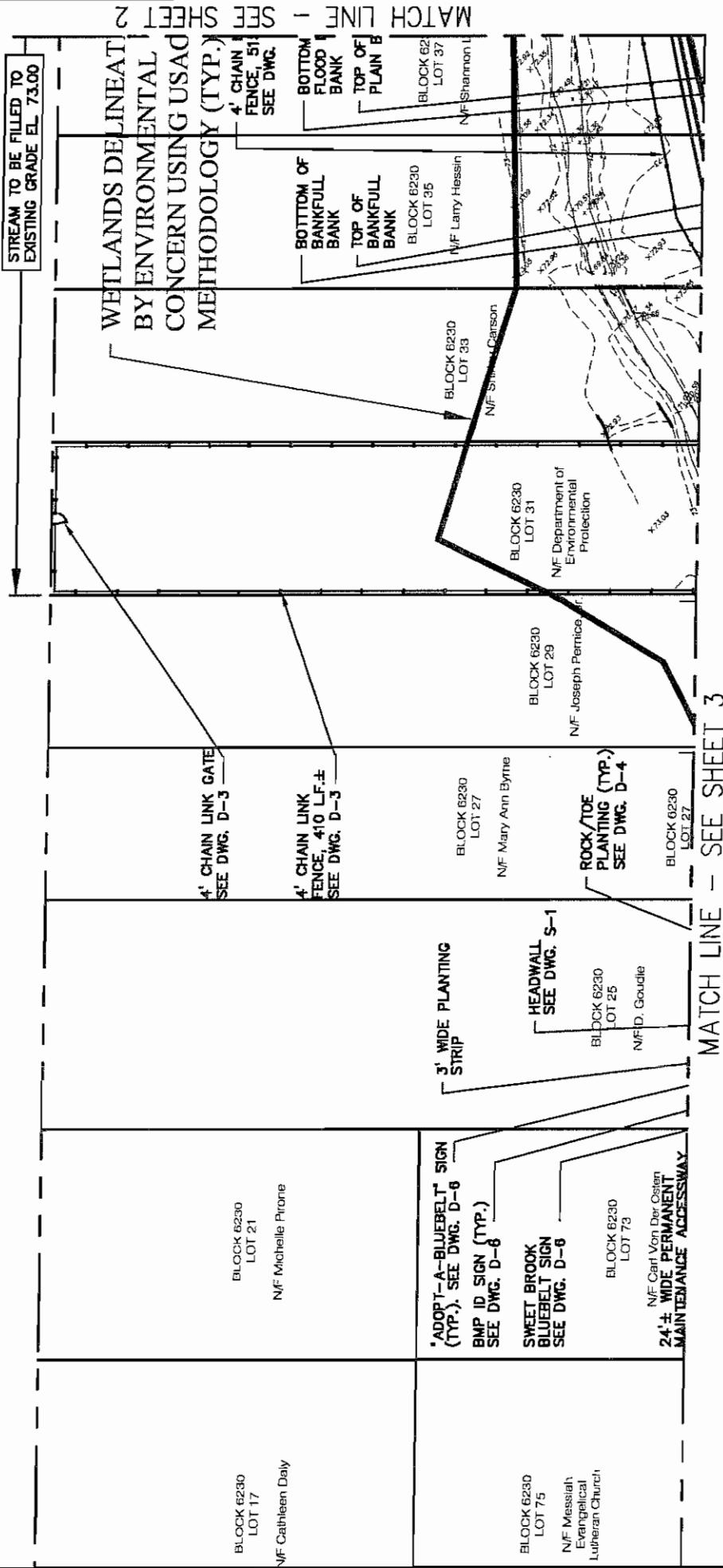
BMP SB-4: IONIA AVENUE
FINAL SITE PLAN (COMPOSITE)

A vertical scale with numerical markings at -80, -40, 0, 40, and 80. The scale is centered around zero, with negative values on the left and positive values on the right.

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FOR PERMIT REVIEW ONLY

*DRUMGOOLE RD. EAST
(Service Road)*



SWEET BROOK DRAINAGE AREA

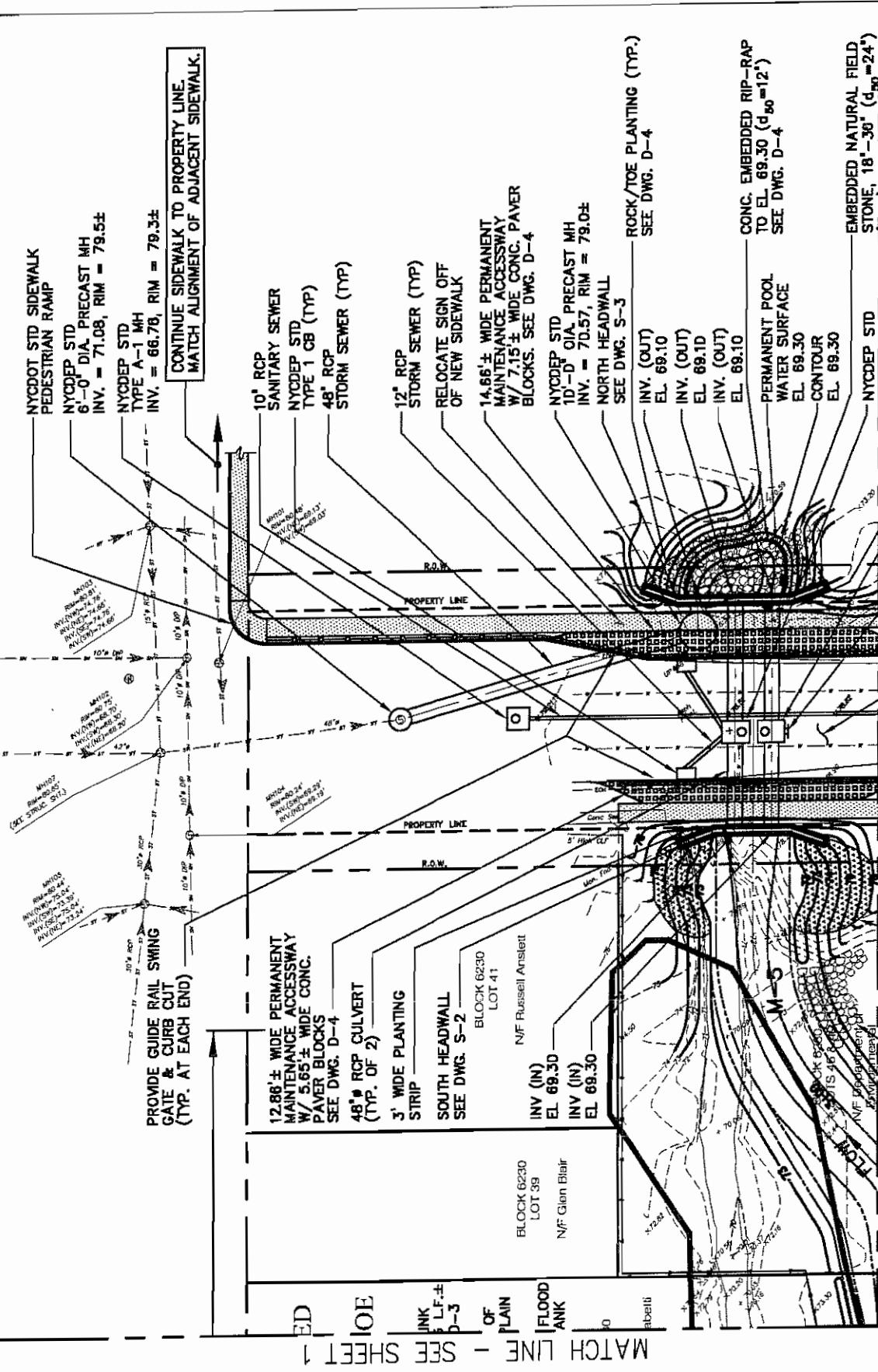
**BMP SB-4: IONIA AVENUE
FINAL SITE PLAN
SHEET 1 OF 4**

HAZEN AND SAWYER
Environmental Engineers & Scientists

1' = 40'-0"

40' 0'

PLOT DATE 12/15/05 10:32am FILE= H:\6000-9999\6300\SB\BMP-4-F(W)(S)-2 by JFORZANO XREF FILE = NONE



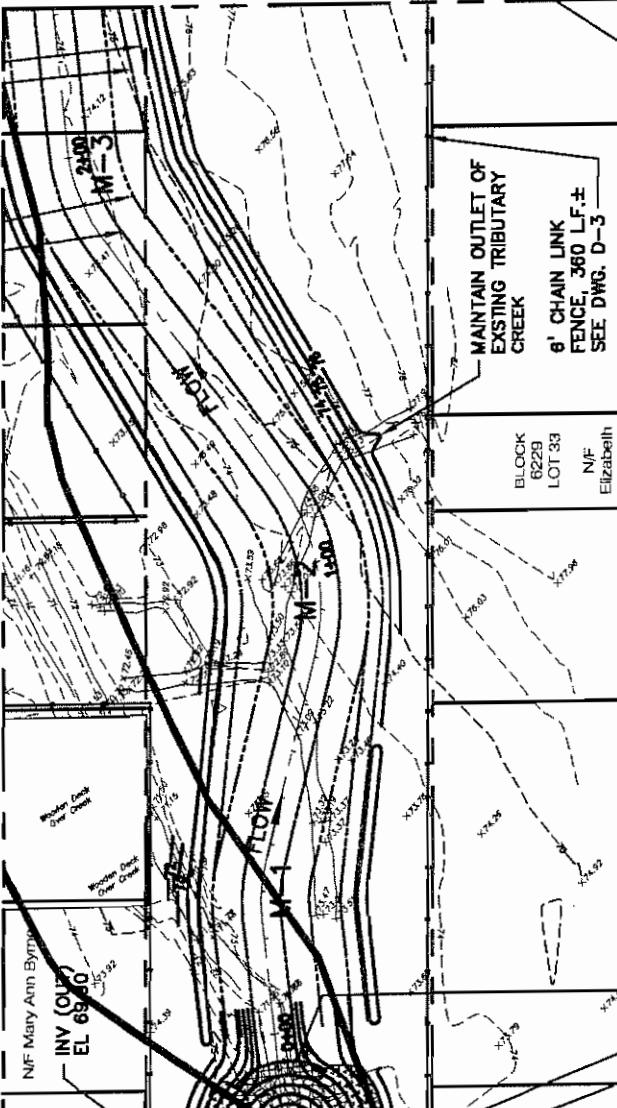
HAZEN AND SAWYER
Environmental Engineers & Scientists

SHEET 2 OF 4

BMP SB-4: IONIA AVENUE
FINAL SITE PLAN

MATCH LINE - SEE SHEET 1

W/ CONC. PAVER BLOCKS,
20 LF. ±
SEE DWG. D-4
10'-0" W x 3'-0" H FTRC
(SEE NYCCDC DWGS.)



MATCH LINE - SEE SHEET 4

MANTAIN OUTLET OF
EXISTING CREEK

6' CHAIN LINK
FENCE, 380 LF.±
SEE DWG. D-3

BLOCK 6229

LOT 33

N/F
Elizabeth
Ferraro

EMBEDDED NATURAL FIELD
STONE, 18"-38" (d₅₀ = 24")
SEE DWG. D-3

BLOCK 6229

LOT 34

N/F Rose M. Gallo
Collaman

LOT 31

Unknown
Land Use

BLOCK 6229

LOT 33

N/F
Elizabeth
Ferraro

BLOCK 6229
LOT 27

N/F Mario M. Monreal
2'-WIDE REND MATTRESS
SEE DWG. D-3

BLOCK 6229
LOT 23

N/F Carl R. Von
Der Osten

OUTLET STILLING BASIN W/
CONC. EMBEDDED RIP-RAP
TO EL. 68.90 (d₅₀ = 12")
SEE DWG. D-4

BLOCK 6229
LOT 25

N/F Michael
Castrovilli Jr.

REPLACE EXISTING FENCE
W/ NEW 6' CHAIN LINK
FENCE, 42 LF.±
SEE DWG. D-3

BLOCK 6229
LOT 21

N/F Carl H. & M.
Von Der Osten

6' CHAIN LINK GATE
SEE DWG. D-3

LOT 19

N/F Harry F. Slucker

BLOCK 6229
LOT 68

N/F Ferry Z. Alishahi

12" RCP STORM SEWER
HEADWALL W/ VERTICAL
TRASH RACK
SEE DWG. S-4

SWEET BROOK DRAINAGE AREA

BMP SB-4: IONIA AVENUE
FINAL SITE PLAN

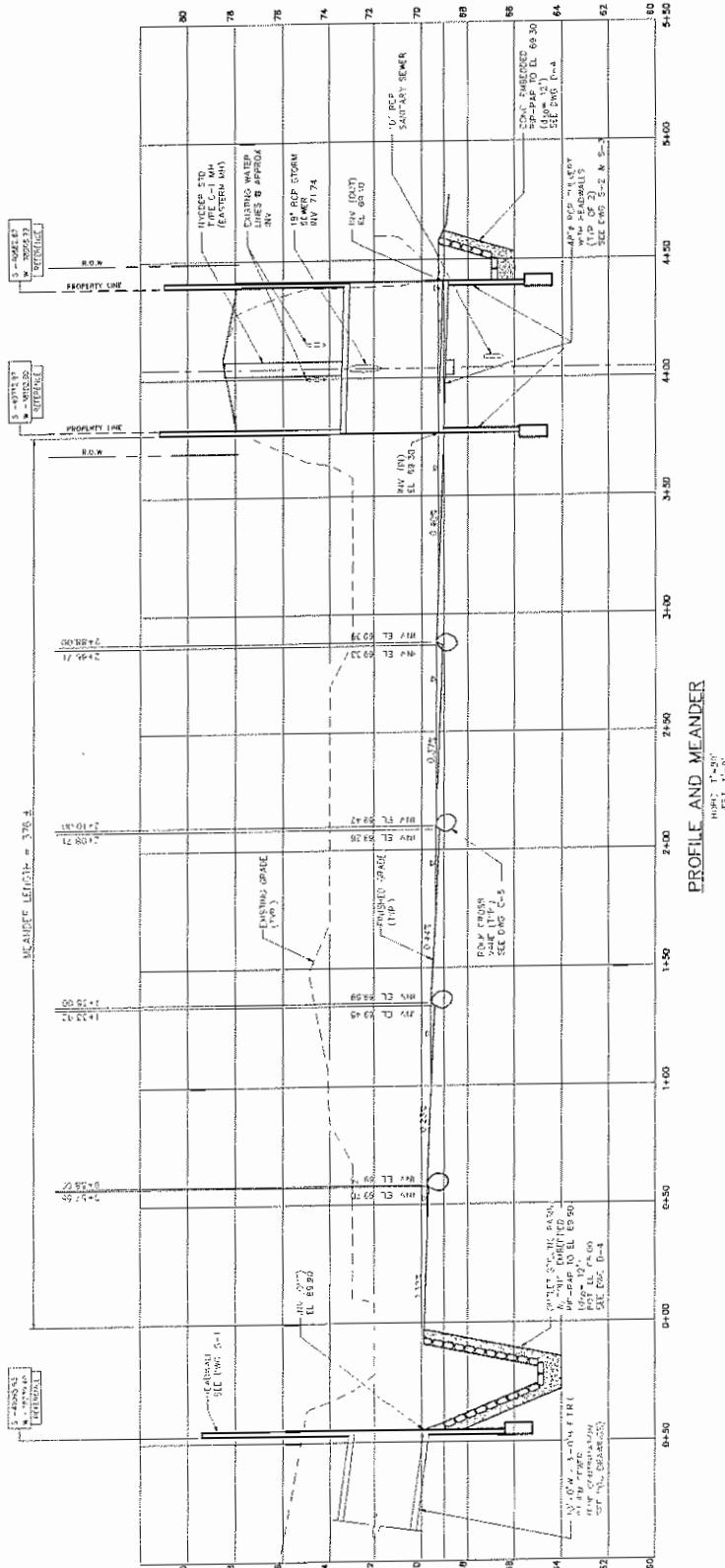
SHEET 3 OF 4



1" = 40'-0"

HAZEN AND SAWYER
Environmental Engineers & Scientists

PLOT DATE 12/16/05 10:09am FILE = H:\6000-9999\6300\SB\BMP\4-P(W)(S)-1 by JFORZANO XREF FILE = NONE



PROFILE AND MEANDER
HORN, T. G.

SWEET BROOK DRAINAGE AREA

BMP SB-4: IONIA AVENUE
PROFILE

SHEET 1 OF 1

= 0 - 8 = 1

80¹

1180

HAZEN AND SAWYER

Engineers & Scientists
Environmental

PLOT DATE 12/15/05 11:07am FILE= H:\6000-9999\6300\SB\EMP-4-L1(W)(S)(C) by JFORZANO XREF FILE = NONE

DRUMGOOLE RD. EAST
(Service Road)

HAZEN AND SAWYER

Environmental Engineers & Scientists

80' 0 40 80

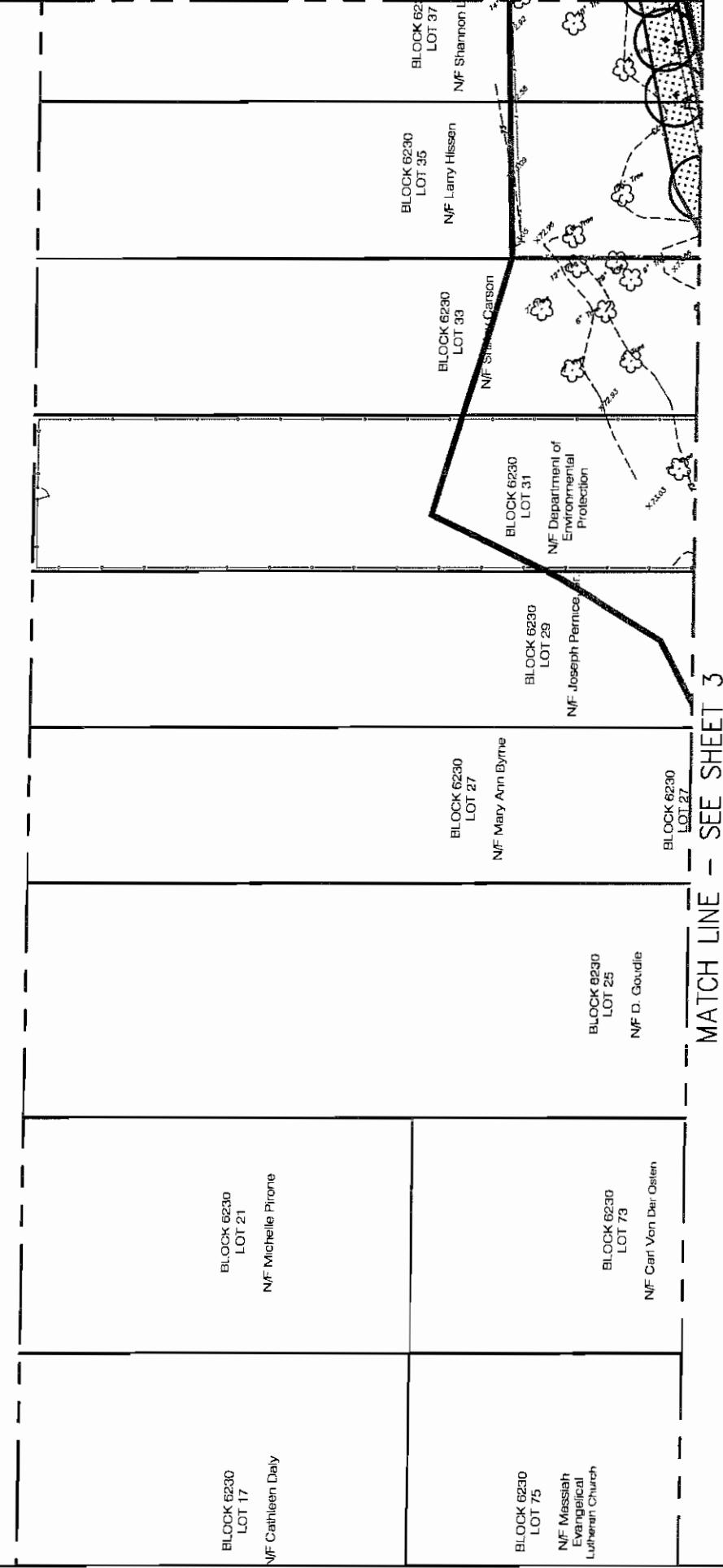
1"=80'-0"

MBP SB-4: IONIA AVENUE
LANDSCAPING PLAN (COMPOSITE)
SHEET 1 OF 1

SWEET BROOK DRAINAGE AREA

MATCH LINE - SEE SHEET 2

DRUMGOOLE RD. EAST
(Service Road)



SWEET BROOK DRAINAGE AREA

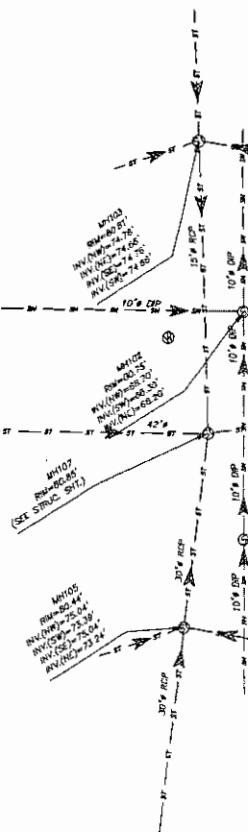
HAZEN AND SAWYER
Environmental Engineers & Scientists

1"=40'-0"

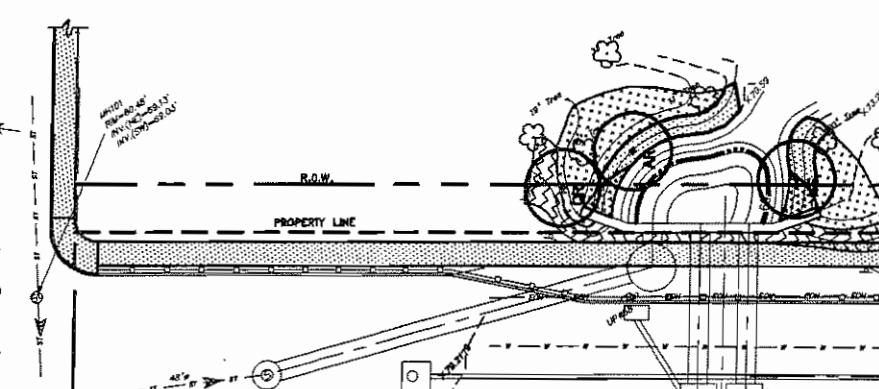


BMP SB-4: IONIA AVENUE
LANDSCAPING SITE PLAN
SHEET 1 OF 4

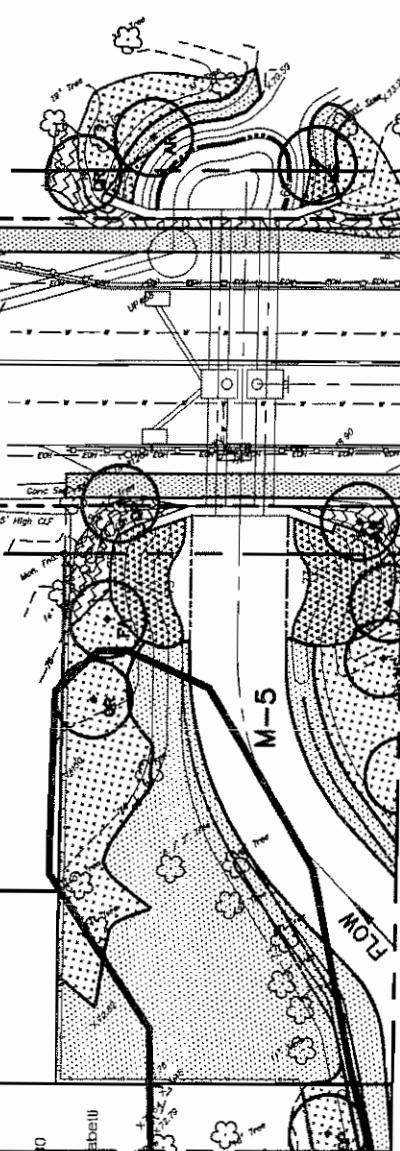
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MATCH LINE - SEE SHEET 1



MATCH LINE - SEE SHEET 4



HAZEN AND SAWYER
Environmental Engineers & Scientists

BMP SB-4: IONIA AVENUE
LANDSCAPING SITE PLAN
SHEET 2 OF 4

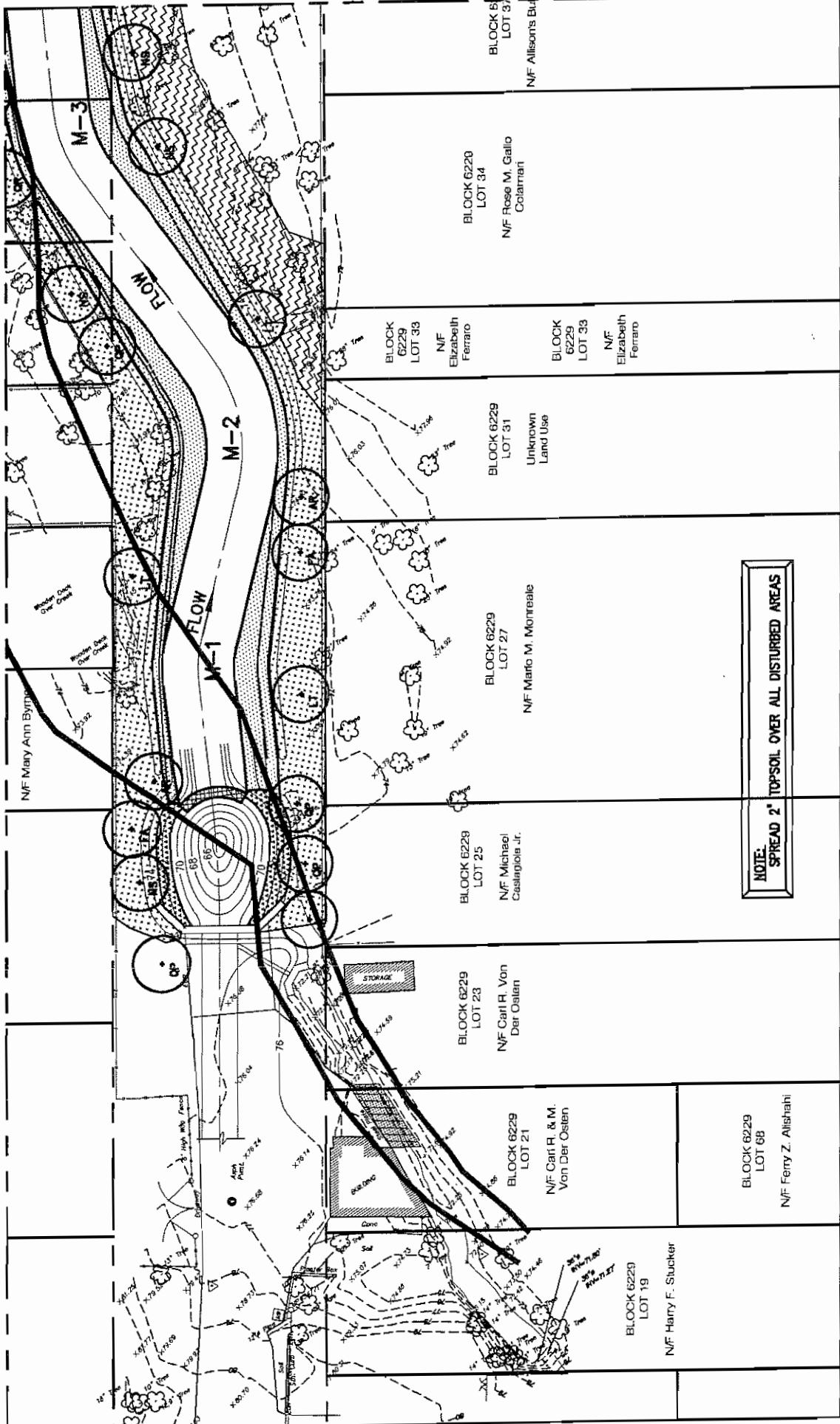
SWEET BROOK DRAINAGE AREA



PLOT DATE 12/15/05 11:14am FILE= H:\6000-9999\6300\SB\BMP-4-L1(W)(S)-3 by JFORZANO XREF FILE = NONE

MATCH LINE - SEE SHEET 1

MATCH LINE - SEE SHEET 4

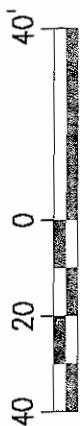


NOTE:
SPREAD 2' TOPSOIL OVER ALL DISTURBED AREAS

SWEET BROOK DRAINAGE AREA

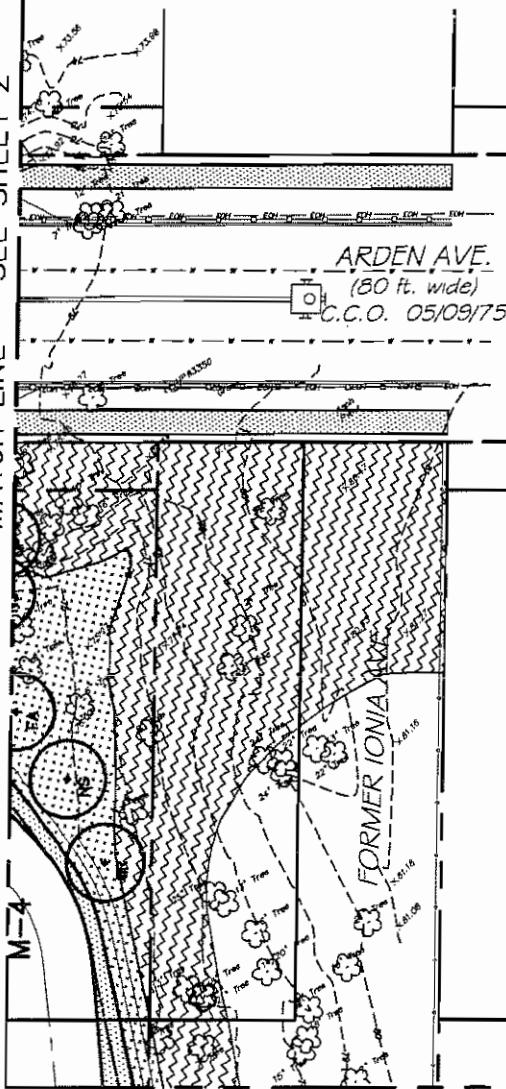
BMP SB-4: IONIA AVENUE
LANDSCAPING SITE PLAN
SHEET 3 OF 4

HAZEN AND SAWYER
Environmental Engineers & Scientists



1'=40'-0"

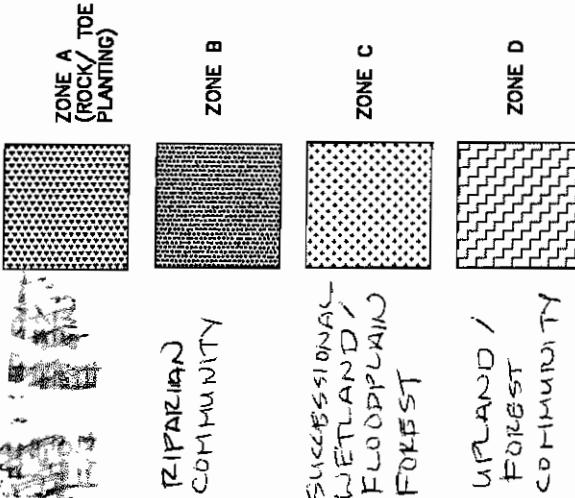
MATCH LINE - SEE SHEET 2



MATCH LINE - SEE SHEET 3



ZONES / SHRUBS LEGEND



SWEET BROOK DRAINAGE AREA

BMP SB-4: IONIA AVENUE
LANDSCAPING SITE PLAN

SHEET 4 OF 4



1"=40'-0"

HAZEN AND SAWYER
Environmental Engineers & Scientists

PLANT SCHEDULE FOR SB-4

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	FORM	REMARKS
CANOPY TREES						
AR	5	ACER RUBRUM	RED MAPLE	2.5'-3" CAL.	B&B/C	LOW BRANCHED, NO CULTIVARS
QP	7	QUERCUS PALUSTRIS	PII OAK	2.5'-3" CAL.	B&B/C	LOW BRANCHED, NO CULTIVARS
TA	6	FRAXINUS AMERICANA	WHITE ASH	1.5'-2" CAL.	B&B/C	LOW BRANCHED, NO CULTIVARS
NS	7	NYSSA SYLVATICA	SOUR GUM	1.5'-2" CAL.	B&B/C	LOW BRANCHED, NO CULTIVARS
OR	4	QUERCUS RUBRA	RED OAK	1.5'-2" CAL.	B&B/C	LOW BRANCHED, NO CULTIVARS
LT	3	LIRIODENDRON TULIPIFERA	TULIP POPLAR	1.5'-2" CAL.	B&B/C	LOW BRANCHED, NO CULTIVARS
ZONE A (ROCK/STO PLANTING)						
	BD	CORNUS AMOMUM	SILKY DOGWOOD	1'-2'	C	PLANT BETWEEN STONES
	15	SAUX DISCOLOR	PUSSY WILLOW	1'-2'	C	PLANT BETWEEN STONES
ZONE B (PAK LAN COMMUNITY)						
	345	JUNCUS EFFUSUS	SOFT RUSH	2'-3 1/4"	PLUG	SPACE 18" O.C.
	345	LEERSIA ORYZOIDES	RICE CUTGRASS	2'-3 1/4"	PLUG	SPACE 18" O.C.
	345	CAREX VULPINODEA	FOX SEDGE	2'-3 1/4"	PLUG	SPACE 18" O.C.
	345	ELYMUS VIRGINICUS	VIRGINIA WILD RYE	2'-3 1/4"	PLUG	SPACE 18" O.C.
ZONE C SACCESIONAL SETTLEMENT / FLOODPLAIN FOREST						
	150	LOBELIA CARDINALIS	CARDINAL FLOWER	2'-3 1/4"	PLUG	SPACE 18" O.C.
	220	JUNCUS EFFUSUS	SOFT RUSH	2'-3 1/4"	PLUG	SPACE 18" O.C.
	200	ASCLEPIUS INCARNATA	SWAMP MILKFWEED	2'-3 1/4"	PLUG	SPACE 18" O.C.
	220	ASTER NOVAE-BELLOII	NEW YORK ASTER	2'-3 1/4"	PLUG	SPACE 18" O.C.
	50	ARISTErema TRIPHYLLUM	JACK IN THE PULPIT	2'-3 1/4"	PLUG	SPACE 18" O.C.
	90	PODOPHYLLUM PELTATUM	MAY APPLE	2'-3 1/4"	PLUG	PLANT IN 2 GROUPS
	100	ONOCLEA SENSIBILIS	SENSITIVE FERN	QUART	QT	SPACE 18" O.C.
	70	OSMUNDA CINNAMOMEA	CINNAMON FERN	QUART	QT	SPACE 18" O.C.

MATCH LINE - SEE SHEET 2

MATCH LINE - SEE SHEET 3

HAZEN AND SAWYER
Environmental Engineers & Scientists

BMP SB-4: IONIA AVENUE
LANDSCAPING PLANT SCHEDULES
SHEET 1 OF 3

MATCH LINE - SEE SHEET 1

MATCH LINE - SEE SHEET 3

SHRUBS				
16	CORNUS AMOMUM	SILKY DOGWOOD	3'-4'	C
16	ALNUS SERRULATA	SMOOTH ALDER	3'-4'	C
16	VIBURNUM DENTATUM	SOUTHERN ARROWWOOD	3'-4'	C

MAPS

ZONE D UPLAND FOREST COMMUNITY				
100	EUPATORIUM PERfoliatum	BONESET	2'-3/4"	PLUG
100	PARTHENOC. QUINQUEFOLIA	VIRGINIA CREEPER	2'-3/4"	PLUG
100	ASTER CORIFOLIA	HEART LEAVED ASTER	2'-3/4"	PLUG
100	ASTER LEWIS	SMOOTH BLUE ASTER	2'-3/4"	PLUG
50	DYPOPTERIS MARGINALIS	MARGINAL WOOD FERN	QUART	QT
100	CAREX PENNSYLVANICUM	PENNSYLVANIA SEDGE	2'-3/4"	PLUG
200	RUDBECKIA HIRTA	BLACK-EYED SUSAN	2'-3/4"	PLUG

SHRUBS

ZONE E WETLAND FOREST COMMUNITY				
8	ILEX VERTICILLATA	WINTERBERRY HOLLY	3'-4"	C
18	VIBURNUM DENTATUM	SOUTHERN ARROWWOOD	3'-4"	C
12	LINDERA BENZOIN	SPICEBUSH	3'-4"	C
9	ARONIA MELANOCarpa	BLACK CHokeBERRY	3'-4"	C
8	RHODODENDRON VISCOSUM	SWAMP AZALEA	3'-4"	C

MAPS

ZONE E WETLAND FOREST COMMUNITY				
12	FAGUS GRANDIFOLIA	AMERICAN BEECH	5'-6'	C
7	PRUNUS SEROTINA	BLACK CHERRY	5'-6'	C
8	CARYA OVALIS	SHAGBARK HICKORY	5'-6'	C
7	CARPINUS CARoliniana	IRONWOOD	5'-6'	C
10	QUERCUS ALBA	WHITE OAK	5'-6'	C

SWEET BROOK DRAINAGE AREA

BMP SB-4: IONIA AVENUE
LANDSCAPING PLANT SCHEDULES

SHEET 2 OF 3

NOTES:

1. ALL PLANTS AND SEEDS SHALL BE TRUE TO GENUS AND SPECIES. CULTIVARS AND VARIETIES ARE NOT ACCEPTABLE. SEE SPECIFICATIONS FOR ADDITIONAL PLANT REQUIREMENTS.
2. RANDOMLY MIX HERBACEOUS PLANTS 18" OH CENTER.
3. PLACE SHRUBS IN RANDOM CLUSTERS OF 3-7 SHRUBS, WITH INDIVIDUAL SHRUBS SPACED 3-5' APART.
4. INSTALL EROSION CONTROL MAT - OVER ALL AREAS THAT HAVE BEEN REGRADED AND/OR DISTURBED.
4. SPREAD 2" TOPSOIL OVER ALL DISTURBED AREAS.

ABBREVIATIONS:

B & B = BALLED AND BURLAPPED
C = CONTAINER GROWN - SIZE AS NOTED

MATCH LINE - SEE SHEET 7

PERMANENT SEEDING:

1. ZONE A
NO SEEDING
2. ZONE B
FACW WETLAND MEADOW MIX AT A RATE OF 6 LBS. PER 10,000 SF.
3. ZONE C
4.5 LBS. STATEN ISLAND NATIVE WILDFLOWER MIX AT A RATE OF 4.5 LBS. PER 10,000 SF.
4. ZONE D
4.5 LBS. STATEN ISLAND NATIVE WILDFLOWER MIX AT A RATE OF 4.5 LBS. PER 10,000 SF.
5. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION ON SEED MIXES AND APPLICATIONS.

WOODY PLANT SEEDING:

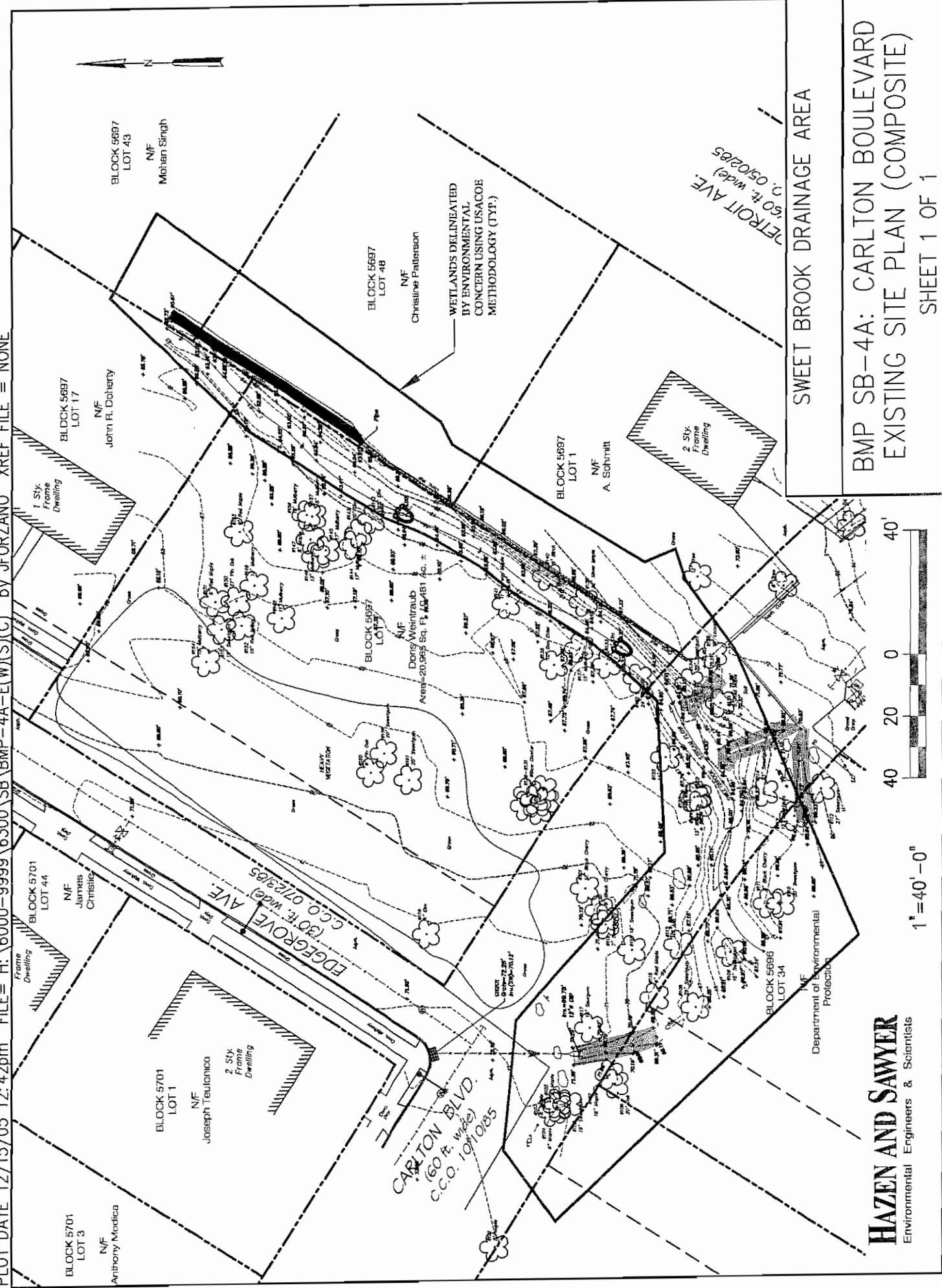
1. ROCK / TOE PLANTING:
NO WOODY PLANT SEEDING
2. RIPARIAN COMMUNITY:
0.5 LBS. CORNUS AMOMUM
0.5 LBS. ILEX VERTICILLATA
0.5 LBS. QUERCUS BICOLOR
0.5 LBS. ROSA PALUSTRIS
3. SUCCESSIONAL WETLAND / FLOODPLAIN FOREST:
0.5 LBS. CARPINUS CAROLINIANA
0.5 LBS. CORNUS FRACEMOSA
0.5 LBS. LINDERA BENZON
0.5 LBS. NYSSA SYLVATICA
0.5 LBS. QUERCUS BICOLOR
0.5 LBS. RUBUS ALLEGHENIENSIS
4. UPLAND / FOREST COMMUNITY:
0.5 LBS. ARONIA MELANOCarpa
0.5 LBS. ARAIA SPINOSA
0.5 LBS. CEANOTHUS AMERICANUS
0.5 LBS. CORNUS FLORIDA
0.5 LBS. CORNUS FRACEMOSA
0.5 LBS. PRUNUS SEROTINA

SWEET BROOK DRAINAGE AREA

BMP SB-4: IONIA AVENUE
LANDSCAPING PLANT SCHEDULES
SHEET 3 OF 3

HAZEN AND SAWYER
Environmental Engineers & Scientists

PLOT DATE 12/15/05 12:42pm FILE= H:\6000-9999\6300\SB\BMP-4A-E(W)(S)(C) by JFORZANO XREF FILE = NONE



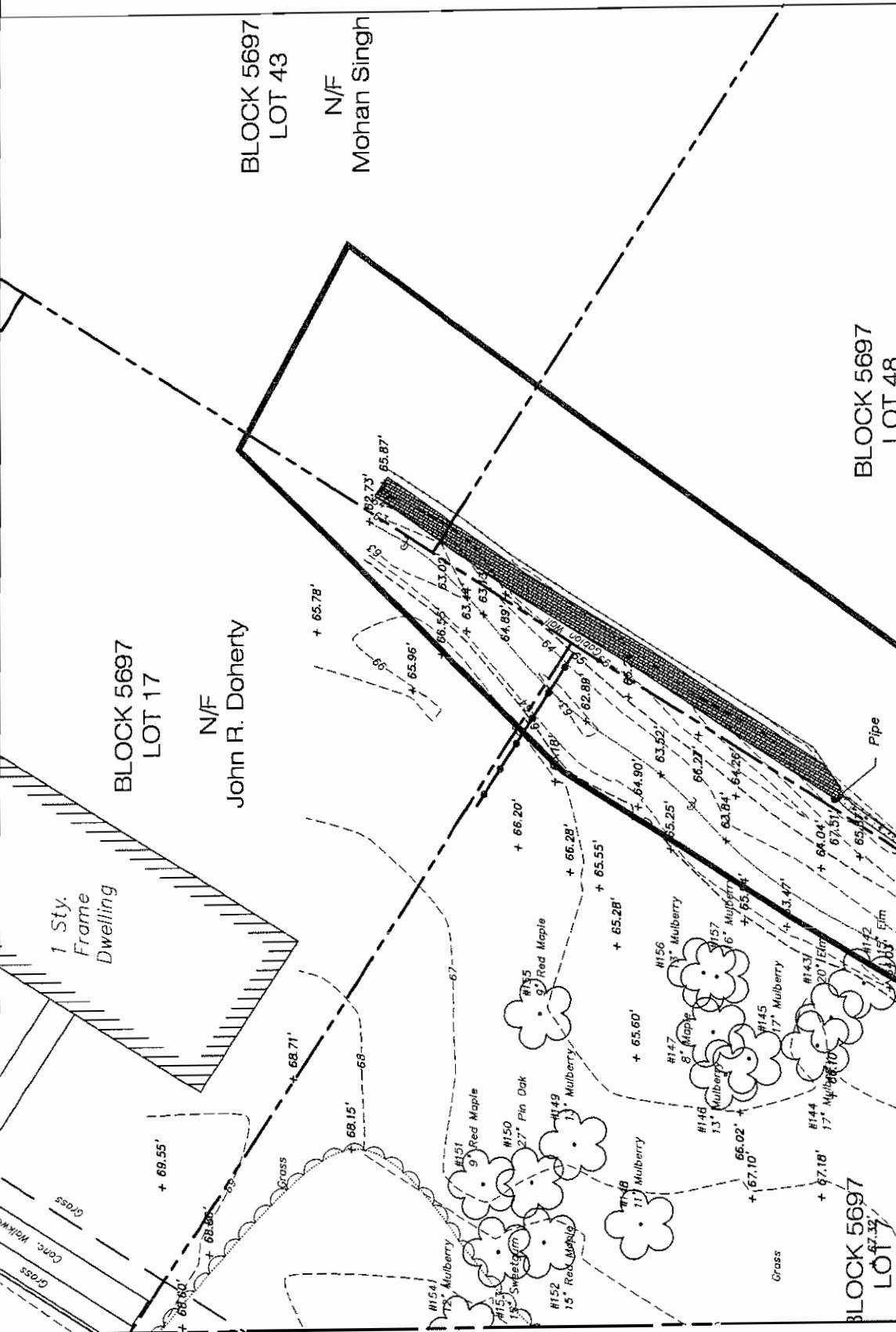
HAZEN AND SAWYER
Environmental Engineers & Scientists

N.F. Department of Environmental Protection

BMP SB-4A: CARLTON BOULEVARD EXISTING SITE PLAN (COMPOSITE)

SHEET 1 OF 1

PLOT DATE 12/15/05 12:48pm FILE= H:\6000-9999\6300\SB\BMP-4A-E(W)(S)-2 by JFORZANO XREF FILE = NONE



SWEET BROOK DRAINAGE AREA

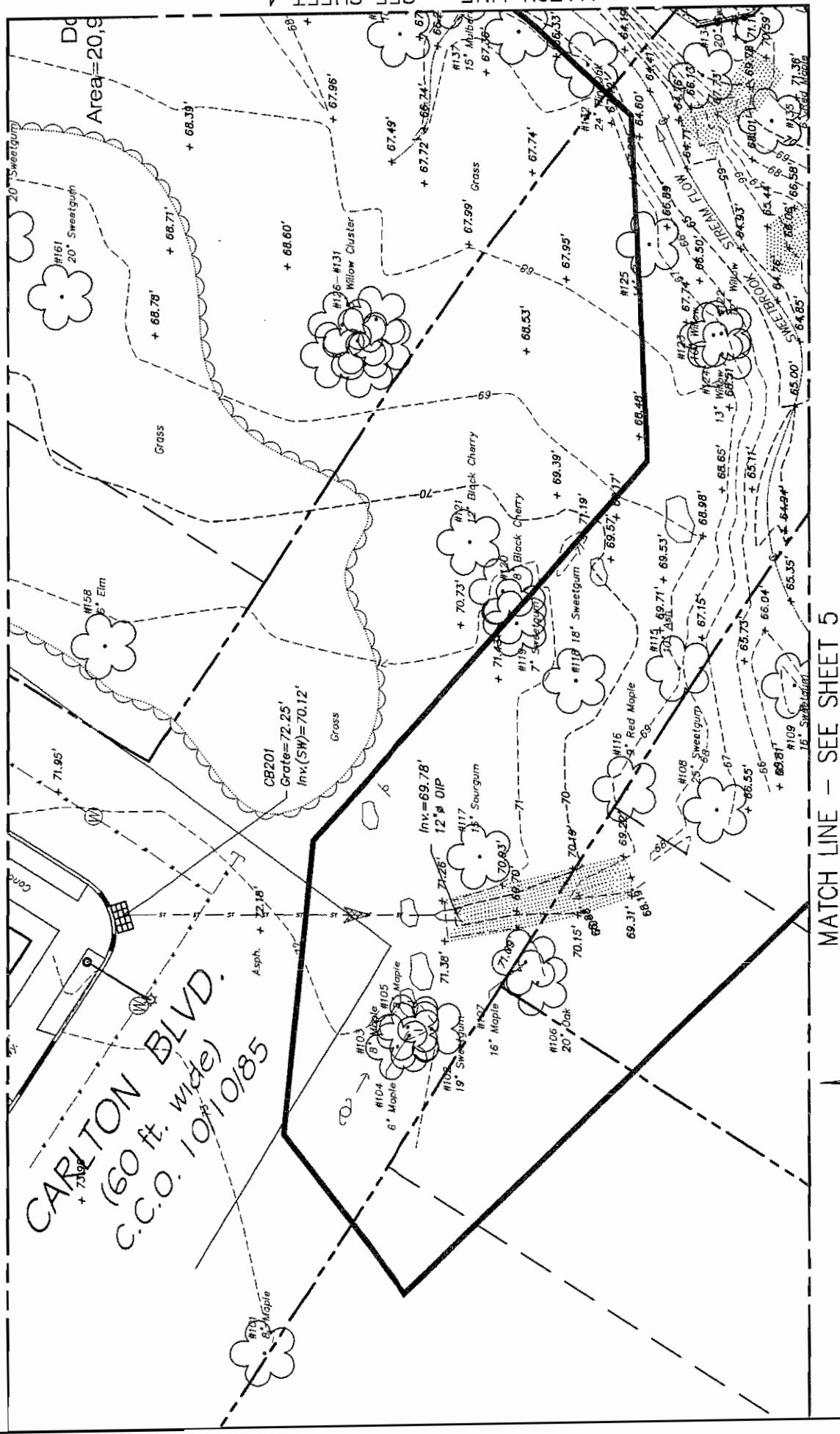
BMP SB-4A: CARLTON BOULEVARD
EXISTING SITE PLAN

SHEET 2 OF 6

HAZEN AND SAWYER
Environmental Engineers & Scientists

PLOT DATE 12/15/05 12:49pm FILE= H:\6000-9999\63300\SB\BMP\4A-E(W)(S)-3 by JFORZANO XREF FILE = NONE

MATCH LINE - SEE SHEET 1



HAZEN AND SAWYER

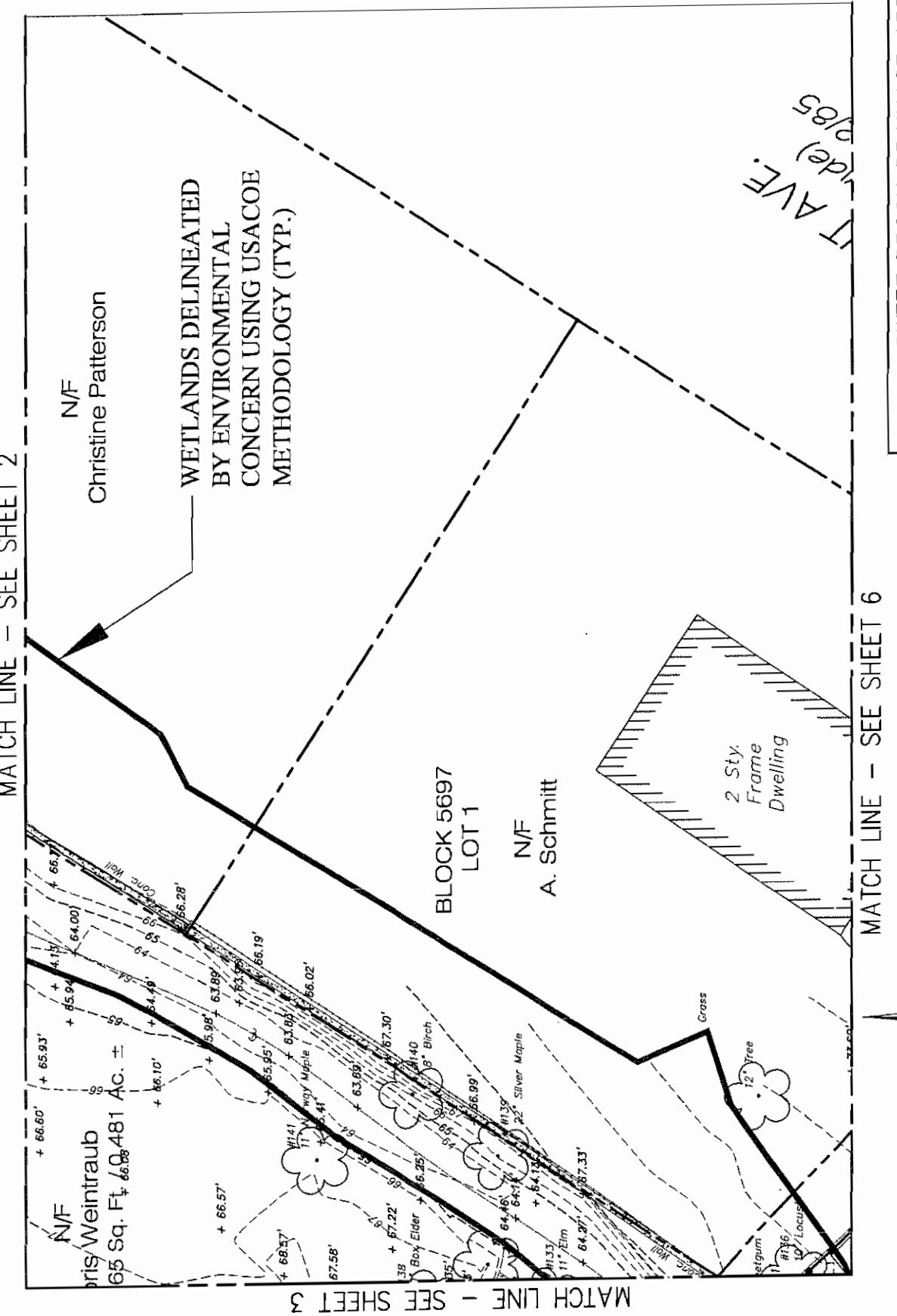
Environmental Engineers & Scientists

20' 0' 10' 20'

B-4A: CARLTON BOULEVARD EXISTING SITE PLAN

11

FILE = H:\6000-9999\6300\SB\BMP\--4-E(W)(S)-4 BY JFORZANO XREF FILE = NONE



HAZEN AND SAWYER

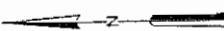
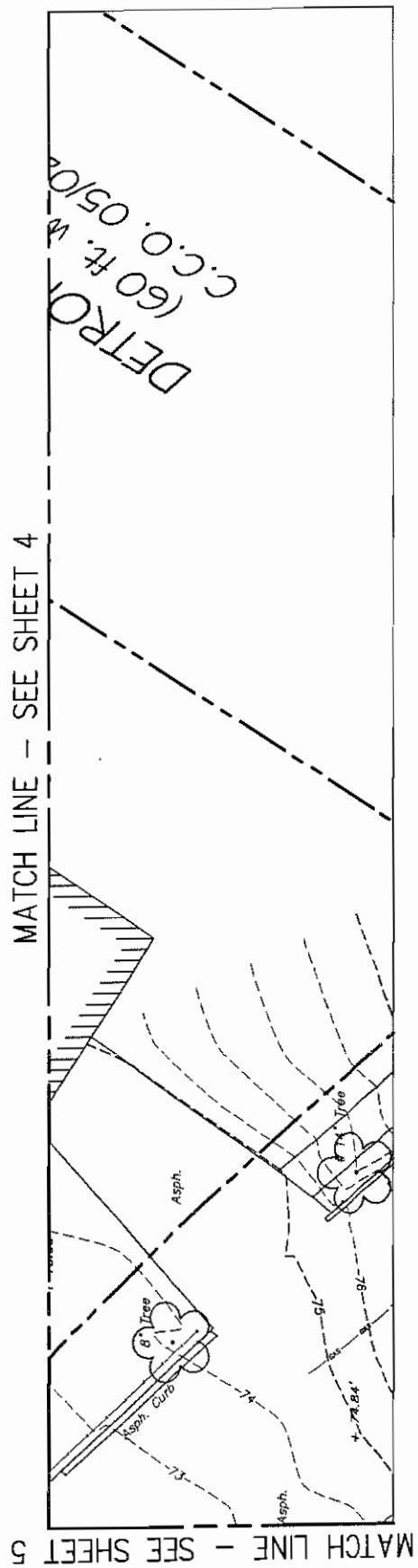
Environmental Engineers & Scientists

Environmental Engineers & Scientists

BMF 3B-4A. CARLTON BOULEVARD
EXISTING SITE PLAN
SHEET 4 OF 6

SWEET BROOK DRAINAGE AREA

1"=20'-0"



SWEET BROOK DRAINAGE AREA

BMP SB-4A: CARLTON BOULEVARD
EXISTING SITE PLAN
SHEET 6 OF 6



1"=20'-0"

HAZEN AND SAWYER
Environmental Engineers & Scientists

PLOT DATE 12/15/05 1:31pm FILE=H:\6000-9999\6300\SB\BMP-4A-F(W(S)C) by JFORZANO XREF FILE = NONE

SHEET 1 OF 1

BMP SB-4A: CARLTON BOULEVARD FINAL SITE PLAN (COMPOSITE)

SWEET BROOK DRAINAGE AREA

HAZEN AND SAWYER
Environmental Engineers & Scientists

1"=40'-0"

CONTINUE SECTION TO NEXT SHEET

Carlton Blvd C.C.O. 072385 10/1/065

Edgegrove Ave C.C.O. 072385

Block 5697 Lot 43 N.F. Mohan Singh

Block 5697 Lot 48 N.F. John R. Doherty

Block 5697 Lot 1 N.F. A. Schmitt

Block 5697 Lot 1 N.F. James Christie

Block 5701 Lot 1 N.F. Joseph Taulonico

Block 5701 Lot 3 N.F. Anthony Modica

Area 20 S65 Sa. F. 1/4 P. 1/4 P. 1/4 P. 1/4 P.

Long-Span Channel

Nature Field Grade Catch Basin

VEGETATION

40' 20' 0' 40'

0' 40' 20' 0' 40'

Department of Environmental Protection

HAZEN AND SAWYER

Environmental Engineers & Scientists

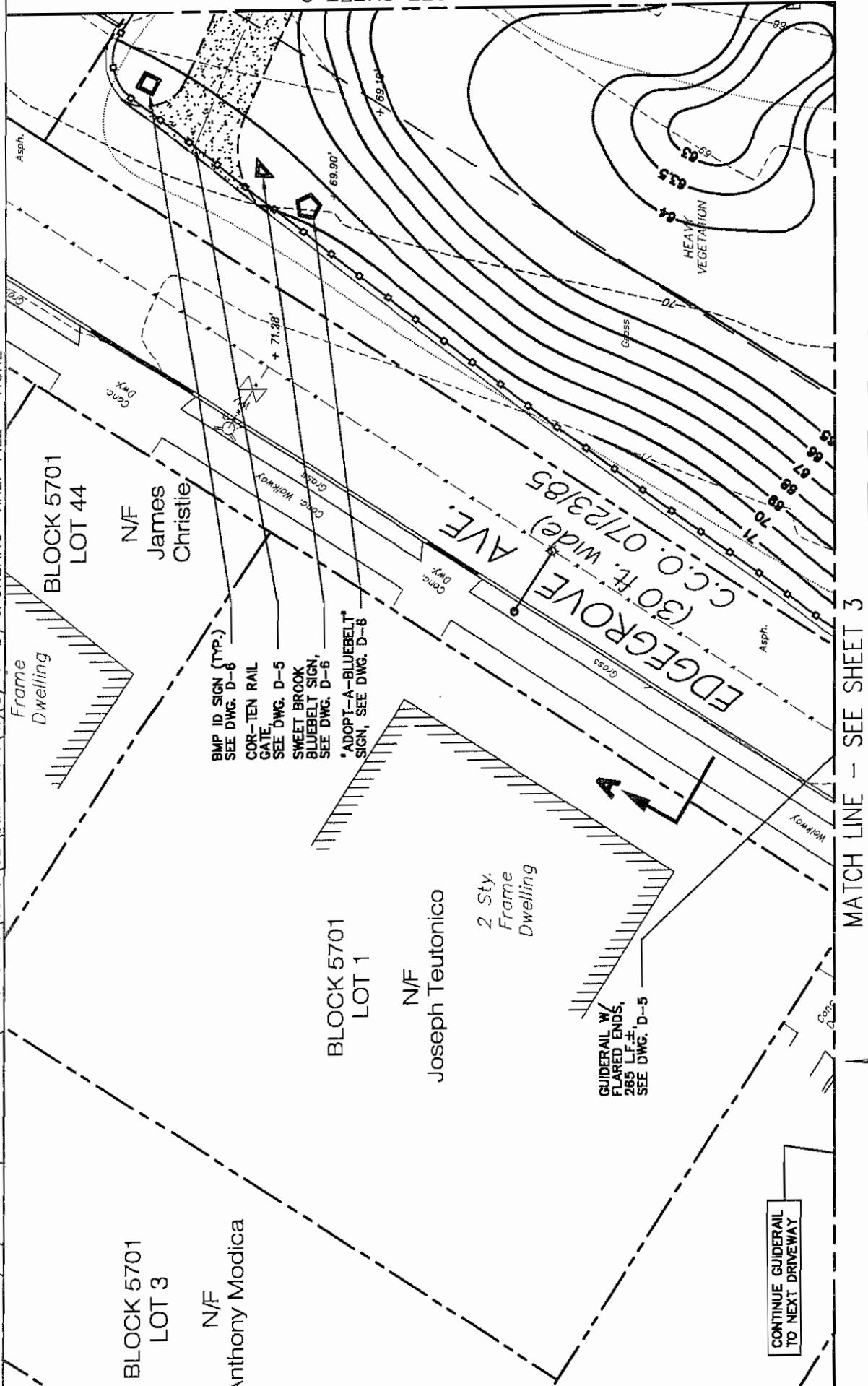
THE ENGINEERS & MANUFACTURERS

BMP SB-4A: CARRINGTON BOULEVARD
FINAL SITE PLAN (COMPOSITE)

SWEET BROOK DRAINAGE AREA

SHEET 1 OF 1

MATCH LINE - SEE SHEET 2



SWEET BROOK DRAINAGE AREA

BMP SB-4A: CARLTON BOULEVARD
FINAL SITE PLAN
SHEET 1 OF 6

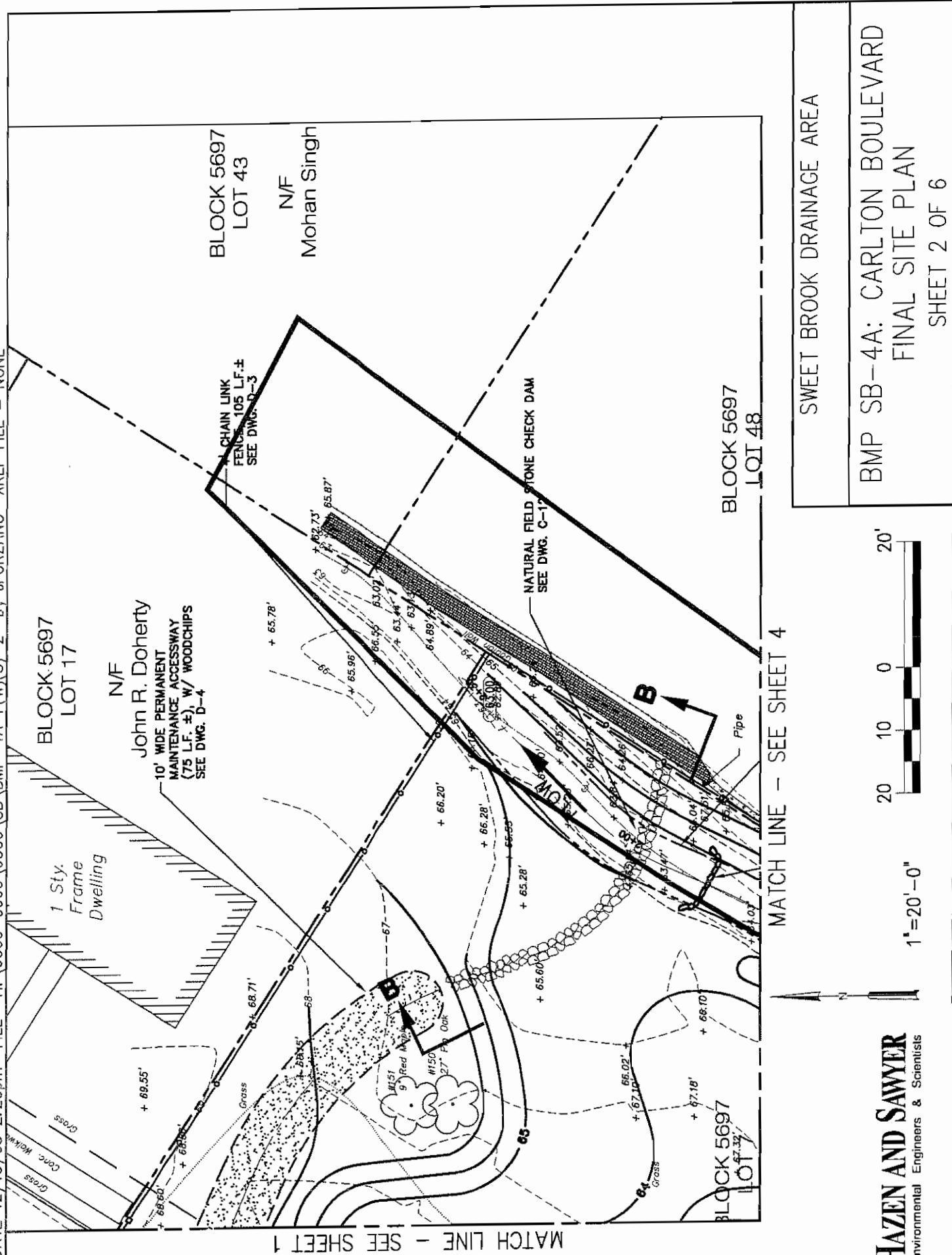
1' = 20' - 0"

HAZEN AND SAWER

Environmental Engineers & Scientists

Environmental Engineers & Scientists

PLOT DATE 12/15/05 2:20pm FILE=H:\6000-9999\6300\SB\BMP-4A-F(W)(S)-2 BY JFORZANO XREF FILE = NONE

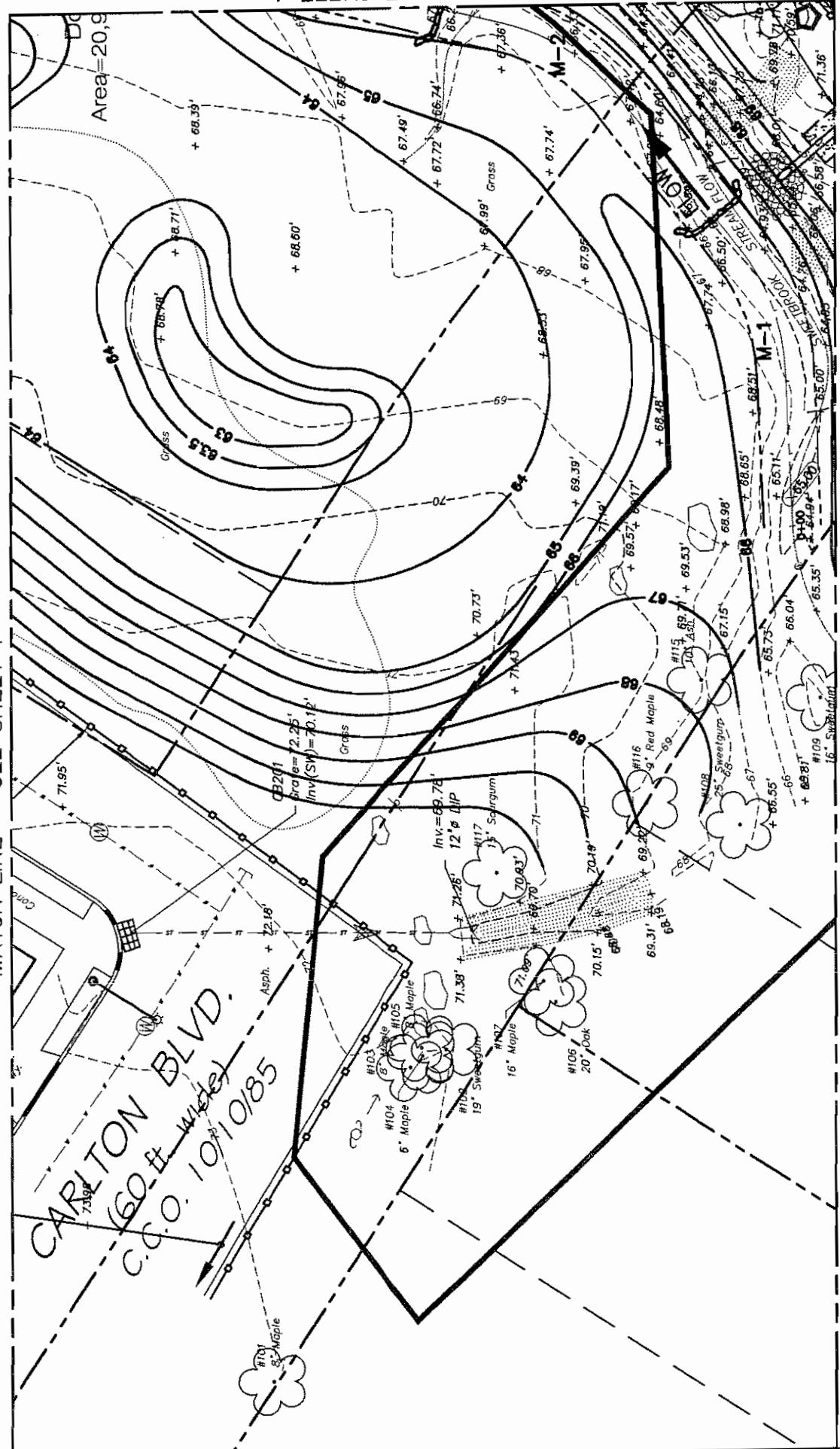


HAZEN AND SAWYER

Environmental Engineers & Scientists

PLOT DATE 12/15/05 2:21pm FILE= H:\6000-9999\6300\SB\BMP-4A-F(W)(S)-3 by JFORZANO XREF FILE = NONE

MATCH LINE - SEE SHEET 4



SWEET BROOK DRAINAGE AREA

BMP SB-4A: CARLTON BOULEVARD
FINAL SITE PLAN
SHEET 3 OF 6

20' 0 10 20

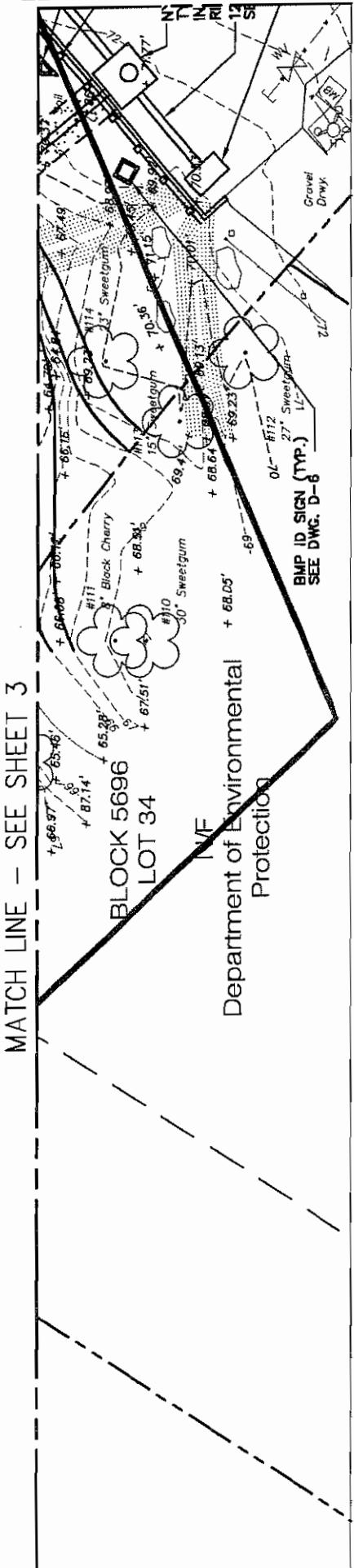
1' = 20' - 0"

HAZEN AND SAWYER

Environmental Engineers & Scientists

PLOT DATE 12/15/05 2:24pm FILE= H:\6000-9999\6300\SB\BMP-4A-F(W)(S)-5 by JFORZANO XREF FILE = NONE

MATCH LINE - SEE SHEET 6



SWEET BROOK DRAINAGE AREA

BMP SB-4A: CARLTON BOULEVARD
FINAL SITE PLAN
SHEET 5 OF 6

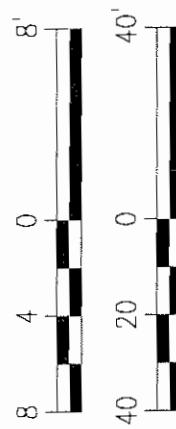
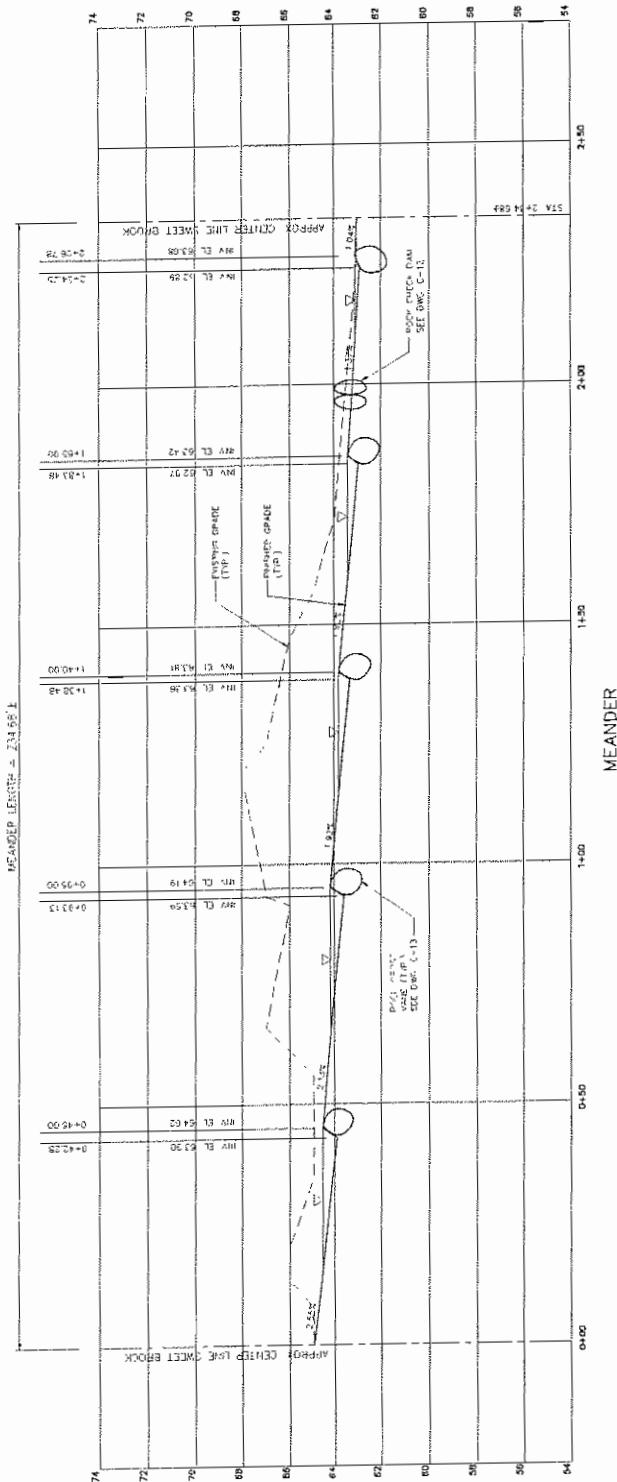
20'

1"=20'-0"

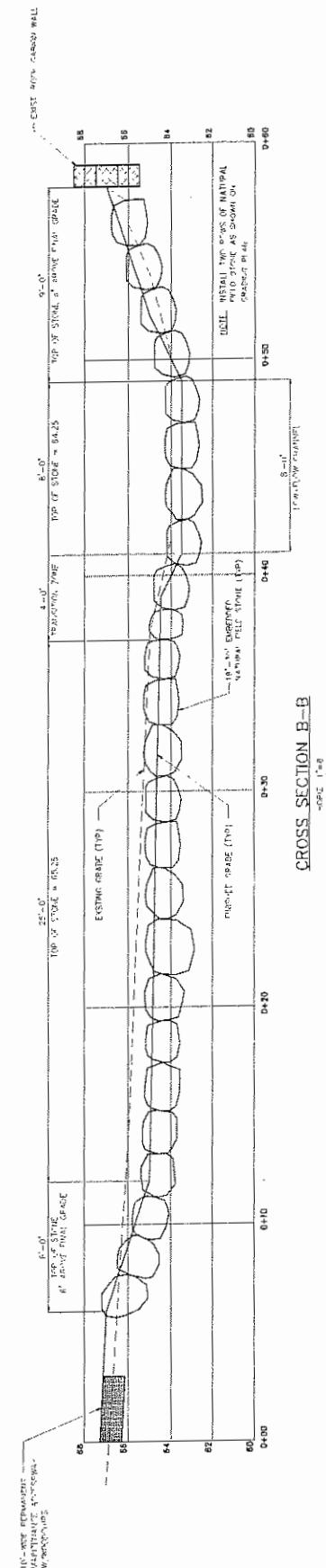
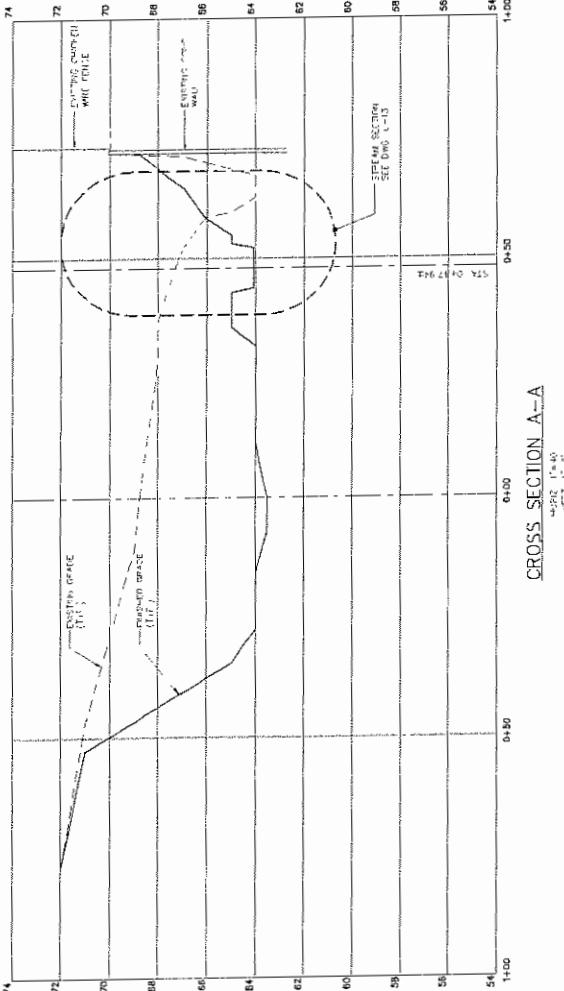


HAZEN AND SAWYER

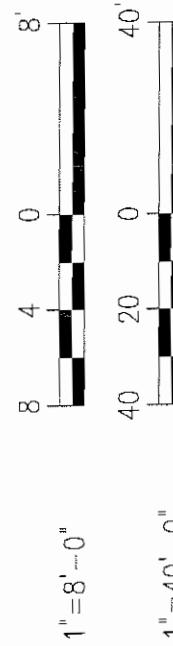
Environmental Engineers & Scientists



SWEET BROOK DRAINAGE AREA
BMP SB-4A: CARLTON BOULEVARD PROFILE
SHEET 1 OF 1



CROSS SECTION B-B



SWEET BROOK DRAINAGE AREA

$1'' = 8'-0''$

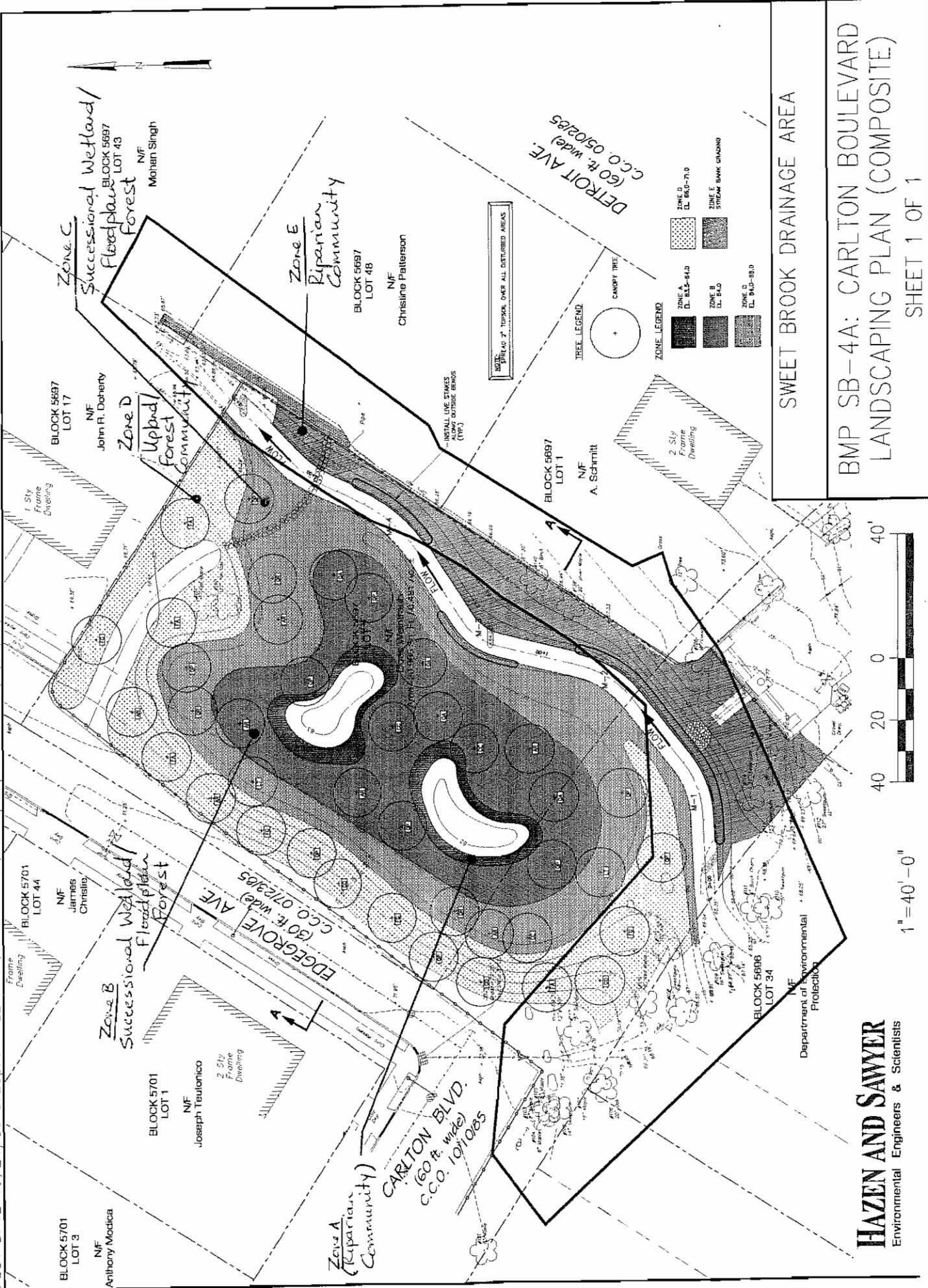
$1'' = 40'-0''$



BMP SB-4A: CARLTON BOULEVARD PROFILE

SHEET 1 OF 1

PLOT DATE 10/24/06 3:23pm FILE= H:\6000-9999\6300\SB\BMP-4A-L1(W)(S)(C) by JFORZANO YREF FILE = NONE



HAZEN AND SAWYER
Environmental Engineers & Scientists

BMP SB-4A: CARLTON BOULEVARD
LANDSCAPING PLAN (COMPOSITE)

SHEET 1 OF 1

PLOT DATE 12/15/05 3:35pm FILE= H:\6000-9999\6300\SB\BMP-4A-L1W)(S)-1 by JFORZANO XREF FILE = NONE

BLOCK 5701
LOT 3
N/F
Anthony Modica

BLOCK 5701
LOT 1

N.F
Joseph Teutonico

2 Sty.
Frame
Dwelling

BLOCK 5701
LOT 44

N/F
James
Christie

MATCH LINE - SEE SHEET 2

A: CARLTON BOULEVARD
LANDSCAPING PLAN
SHEET 1 OF 6

20' 0 10 20

11

HAZEN AND SAWYER

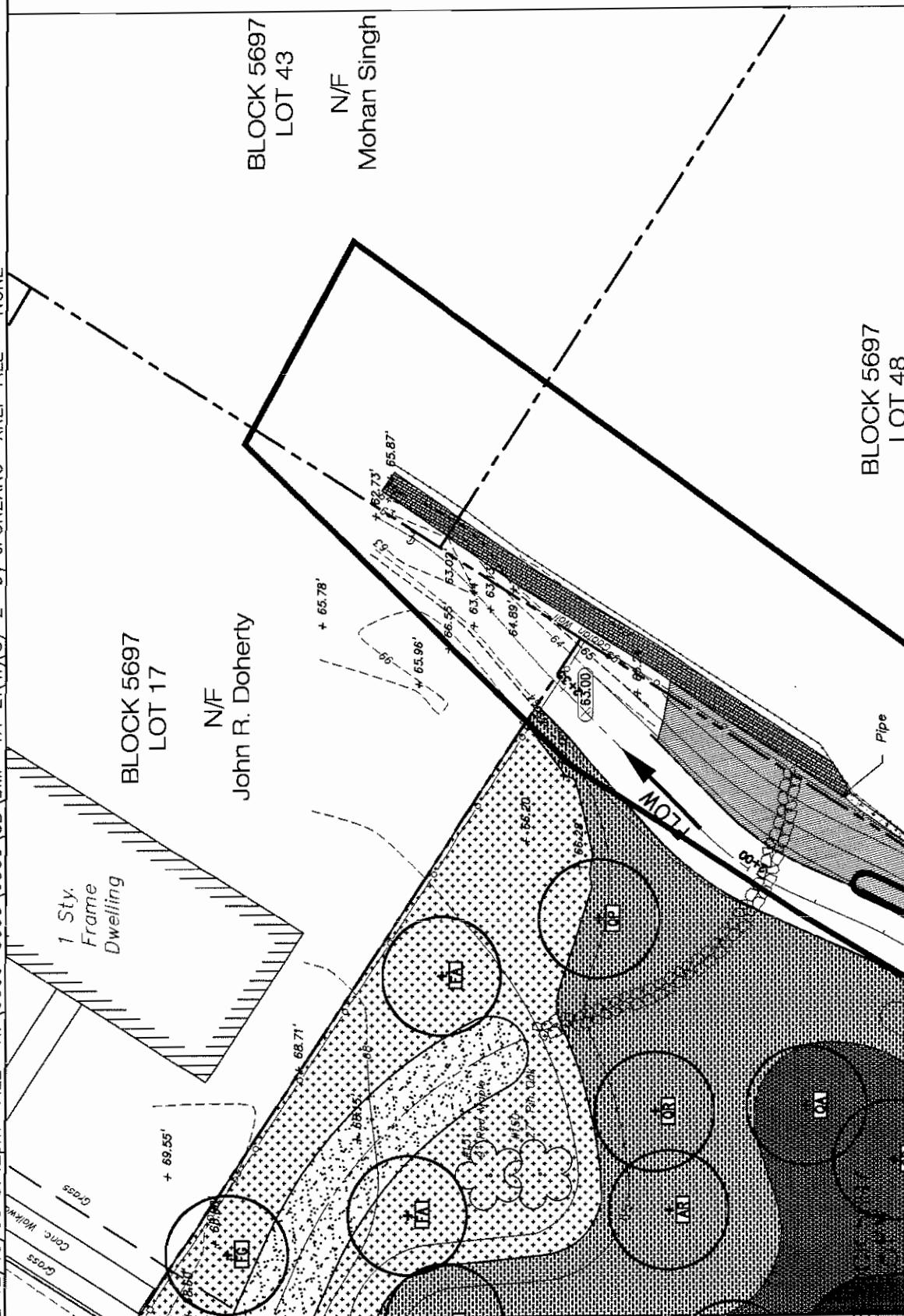
Environmental Engineers & Scientists

SWEET BROOK DRAINAGE AREA

MATCH LINE - SEE SHEET 3

ଶ୍ରୀମଦ୍ଭଗବତ ପାଠ୍ୟ ପରିକଳ୍ପନା

PLOT DATE 12/15/05 3:42pm FILE= H:\60000-99999\6300\SB\BMP-4A-L1(W)(S)-2 by JFORZANO XREF FILE = NONE



MATCH LINE - SEE SHEET 4

HAZEN AND SAWYER
Environmental Engineers & Scientists

1"=20'-0"

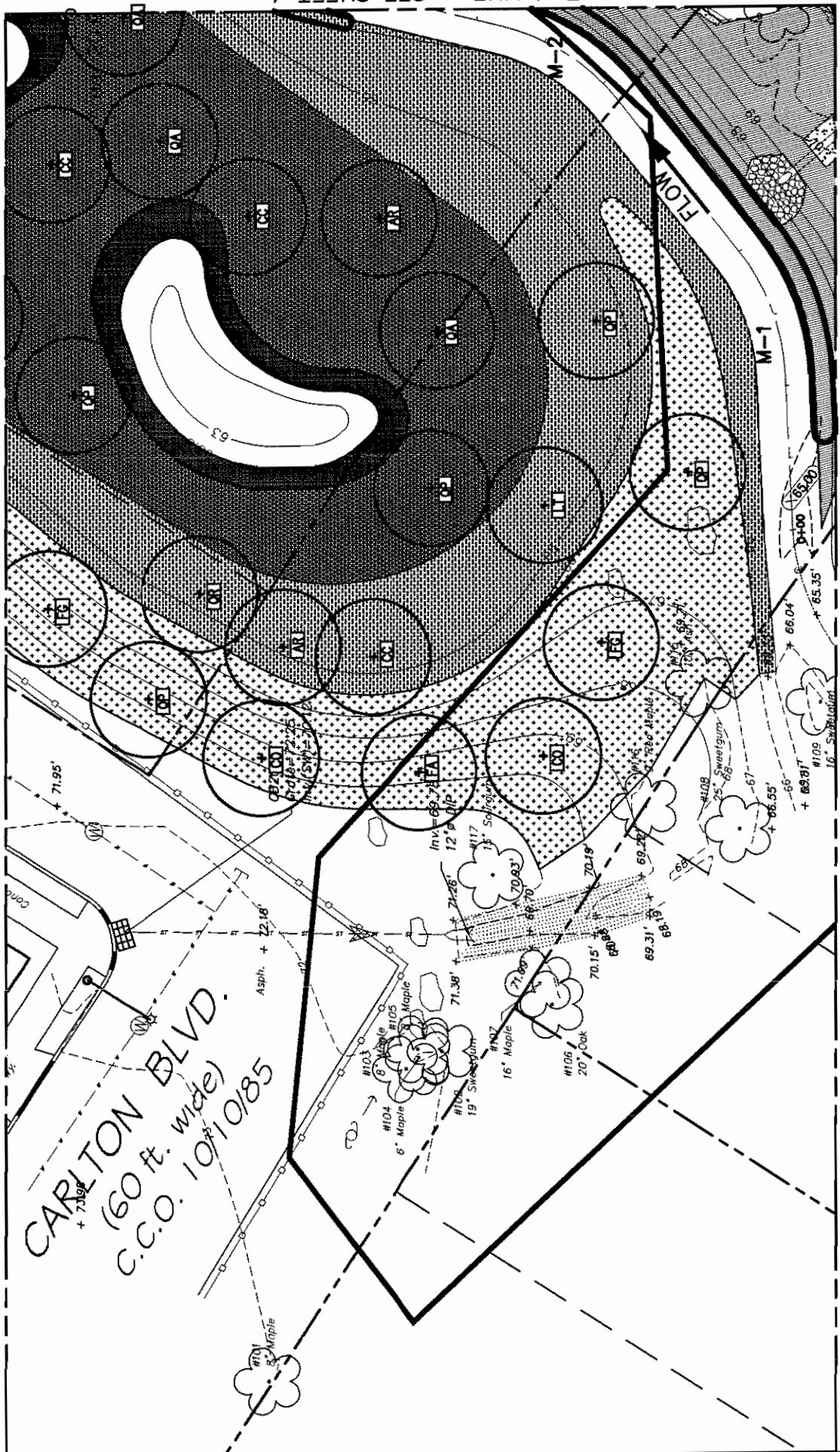


SWEET BROOK DRAINAGE AREA

BMP SB-4A: CARLTON BOULEVARD
LANDSCAPING PLAN
SHEET 2 OF 6

PLOT DATE 12/15/05 3:42pm FILE= H:\6000-9999\6300\SB\BMP-4A-L1(W)(S)-3 by JFORZANO XREF FILE = NONE

MATCH LINE - SEE SHEET 1



MATCH LINE - SEE SHEET 5

SWEET BROOK DRAINAGE AREA



BMP SB-4A: CARLTON BOULEVARD
LANDSCAPING PLAN
SHEET 3 OF 6

HAZEN AND SAWYER
Environmental Engineers & Scientists

PLOT DATE 12/15/05 3:43pm FILE= H:\6000-9999\6300\SB\BMP\4A-L1(W)(S)-4 by JFORZANO XREF FILE = NONE

MATCH | INF = SEE SHEET 2

NOTE:
SPREAD 2' TOPSOIL OVER ALL DISTURBED AREAS

TREE LEGEND

ZONE LEGEND

ZONE A
EL. 63.5-64.0
Successional Disturbance Areas

ZONE B
EL. 64.0

Christine Patterson
N/F

A. Schmitt
N/F

**BLOCK 5697
LOT 1**

FLOW

12' Tree

CANOPY TREE

**2 Sty.
Frame
Dwelling**

M-4

M-3

64.00

66.02'

66.19'

66.28'

66.30'

66.39'

66.48'

66.49'

66.58'

66.67'

66.73'

66.77'

66.81'

66.84'

66.87'

66.91'

66.99'

67.00'

67.03'

67.06'

67.09'

67.12'

67.15'

67.18'

67.21'

67.24'

67.27'

67.30'

67.33'

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67.39'

67.42'

67.45'

67.48'

67.51'

67.54'

67.57'

67.60'

67.63'

67.66'

67.69'

67.72'

67.75'

67.78'

67.81'

67.84'

67.87'

67.90'

67.93'

67.96'

67.99'

68.02'

68.05'

68.08'

68.11'

68.14'

68.17'

68.20'

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68.26'

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68.65'

68.68'

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68.86'

68.89'

68.92'

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MATCH LINE - SEE SHEET 6

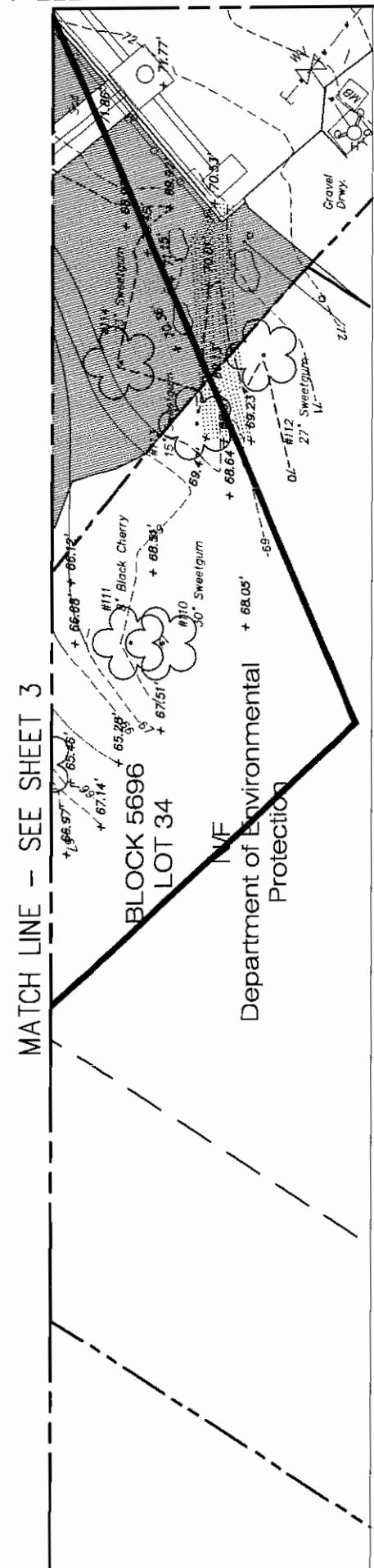
SWEET BROOK DRAINAGE AREA

BMP SB-4A: CARLTON BOULEVARD
LANDSCAPING PLAN
SHEET 4 OF 6

HAZEN AND SAWYER Environmental Engineers & Scientists
1° = 20' - 0"

PLOT DATE 12/15/05 3:44pm FILE= H:\6000-9999\6300\SB\BMP-4A-L1(W)(S)-5 by JFORZANO XREF FILE = NONE

MATCH LINE - SEE SHEET 6



SWEET BROOK DRAINAGE AREA

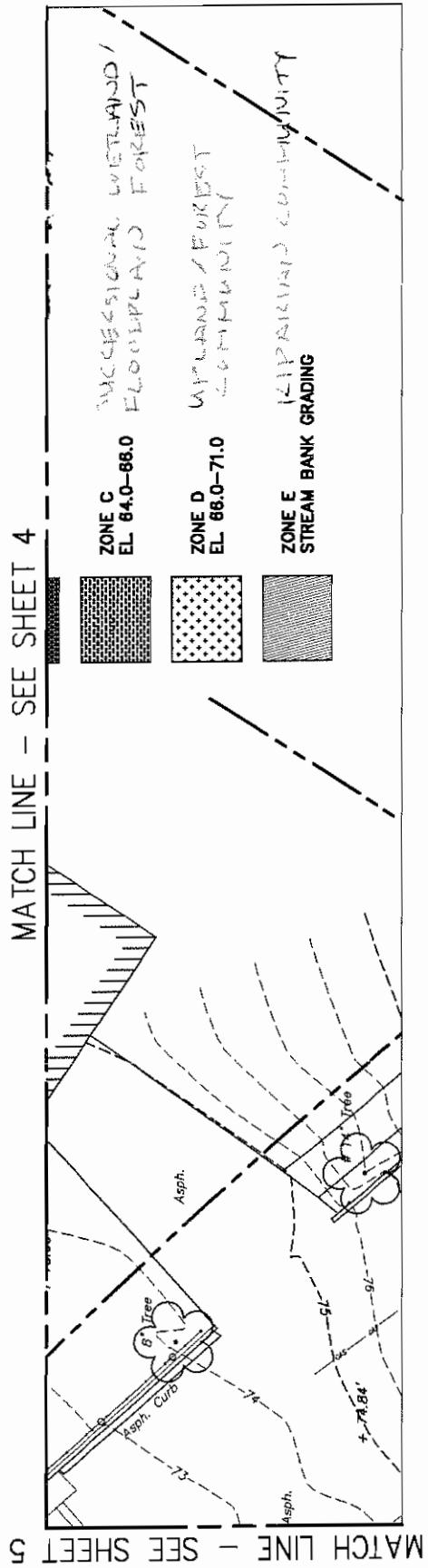
BMP SB-4A: CARLTON BOULEVARD
LANDSCAPING PLAN
SHEET 5 OF 6

20' 0' 10' 20'

1' = 20'-0"

HAZEN AND SAWYER

Environmental Engineers & Scientists



HAZEN AND SAWYER

Environmental Engineers & Scientists

20' 0 10 20

SWEET BROOK DRAINAGE AREA

BMP SB-4A: CARLTON BOULEVARD
LANDSCAPING PLAN
SHEET 6 OF 6

MATCH LINE - SEE SHEET 1

5%	JUNCUS EFFUSUS	SOFT RUSH		SEED
5%	SCIRPUS CYPERINUS	WOOL GRASS		SEED
5%	ASCLEPIUS INCARNATA	SWAMP MILKWEED		SEED
5%	ASCLEPIUS SYRIACA	COMMON MILKWEED		SEED
5%	RUBBECKIA HIRTA	BLACK EYED SUSAN		SEED
5%	HIBISCUS MISCHEUTOS	ROSE-MALLOW		SEED
5%	ASTER NOVAE-BELGII	NEW YORK ASTER		SEED
2%	EUPATORIUM PERfoliatum	BONESET		SEED
2%	EUPATORIUM FISTulosum	JOE PYE WEED		SEED
2%	EUPATORIUM MACULatum	SPOTTED JOE PYE WEED		SEED
2%	VERONIA NOVEBORACENSIS	NEW YORK IRONWEED		SEED
2%	LOBELIA CARDINALIS	CARDINAL FLOWER		SEED
5 LBS	TOTAL			

SHRUBS

12	CORNUS AMOMUM	SILKY DOGWOOD	3'-4'	C
2D	ALNUS SERRULATA	SMOOTH ALDER	3'-4'	C
12	VIBURNUM DENTATUM	SOUTHERN ARROWWOOD	3'-4'	C

MATCH LINE - SEE SHEET 3

3	QUERCUS PALUSTRIS	PIN OAK	5'-6'	C
5	PLATANUS OCCIDENTALIS	AMERICAN STAGHORN	5'-6'	C
7	BETULA NIGRA	RIVER BIRCH	5'-6'	C
5	SALIX DISCOLOR	Pussy Willow	5'-6'	C
9	NYSSA SYLVATICA	SOURGUM	5'-6'	C

MATCH LINE - SEE SHEET 3

SWEET BROOK DRAINAGE AREA

BMP SB-4A: CARLTON BOULEVARD
LANDSCAPING PLANT SCHEDULES
SHEET 2 OF 6

MATCH LINE - SEE SHEET 6 MATCH LINE - SEE SHEET 5

MATCH LINE - SEE SHEET 2

ZONE C (EL. 64.0 - 66.0) - HERBACEOUS PLANTS

SUCCESSIONAL WETLAND / FLOODPLAIN FOREST

350	EUPATORIUM PURPUREUM	PURPLE JOE PYE WEED	2 3/4" or DP50	PLUG	MIX SPECIES WELL	
150	EUPATORIUM MACULATUM	SPOTTED JOE PYE WEED	2 3/4" or DP50	PLUG		
250	ANDROPOGON VIRGINICUS	BROOMSEDE	2 3/4" or DP50	PLUG		
300	ASCLEPIUS INCARNATA	SWAMP MILKWEED	2 3/4" or DP50	PLUG		
250	SYMPHYOTRICHUM NOVI-BELGII	NEW YORK ASTER	2 3/4" or DP50	PLUG		
250	JUNCUS EFFUSUS	SOFT RUSH	2 3/4" or DP50	PLUG		
300	VERNONIA NOVEBORACENSIS	NEW YORK IRONWEED	2 3/4" or DP50	PLUG		

SWEET BROOK DRAINAGE AREA

BMP SB-4A: CARLTON BOULEVARD
LANDSCAPING PLANT SCHEDULES
SHEET 3 OF 6

ZONE C (CONTINUED)

SPRINGS					
18	RHODODENDRON VISCOSUM	SWAMP AZALEA	3'-4'	C	
20	LINDERA BENZOIN	SPICEBRUSH	3'-4'	C	
18	VIBURNUM DENTATUM	SOUTHERN ARROWWOOD	3'-4'	C	
22	CORNUS AMOMUM	SILKY DOGWOOD	3'-4'	C	
24	ILEX VERTICILLATA	WINTERBERRY	3'-4'	C	4 MALE/2D FEMALE

WATERS

ZONE D (60.0 - 71.0) - HERBACEOUS PLANTS					
<i>LAPLAND FOREST</i> <i>CONTINUITY</i>					
5	ACER RUBRUM	RED MAPLE	5'-6'	C	LOW BRANCHED
10	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	5'-6'	C	LOW BRANCHED
15	BETULA NIGRA	RIVER BIRCH	5'-6'	C	PLANT IN GROUPS
5	NYSSA SYLVATICA	SOURGUM	5'-6'	C	LOW BRANCHED
5	FRAZINUS AMERICANA	WHITE ASH	5'-6'	C	

SPRINGS

ZONE D (60.0 - 71.0) - HERBACEOUS PLANTS					
<i>LAPLAND FOREST</i> <i>CONTINUITY</i>					
250	SYMPHOTRICIUM LAEVE	SMOOTH BLUE ASTER	2 3/4" or DP50	PLUG	INSTALL 18" OC
150	EUPATORIUM PURPUREUM	PURPLE JOE PYE WEED	2 3/4" or DP50	PLUG	INSTALL 18" OC
150	ASCLEPIUS SYRIACA	COMMON MILKWEED	2 3/4" or DP50	PLUG	INSTALL 18" OC
150	PAHICUM VIRGATUM	SWITCHGRASS	2 3/4" or DP50	PLUG	INSTALL 18" OC
250	SOLIDAGO CANADENSIS	ROUGH LEAVED GOLDENROD	2 3/4" or DP50	PLUG	INSTALL 18" OC
250	SOLIDAGO RUGOSA	CRINKLED SEDGE	2 3/4" or DP50	PLUG	INSTALL 18" OC
100	PARTHENOCISSUS QUINQUEFOLIA	VIRGINIA CREEPER	2 3/4" or DP50	PLUG	INSTALL 18" OC
150	VERNONIA NIEBORACENSIS	NEW YORK IRONWEED	2 3/4" or DP50	PLUG	INSTALL 18" OC
200	MONARDA PUNCTATA	HORSEMINT	2 3/4" or DP50	PLUG	INSTALL 18" OC
150	SORGASTHRUM NUTANS	INDIANGRASS	2 3/4" or DP50	PLUG	INSTALL 18" OC

SPRINGS

SPRINGS					
10	LINDERA BENZOIN	SPICEBRUSH	3'-4'	C	
10	VIBURNUM DENTATUM	SOUTHERN ARROWWOOD	3'-4'	C	
15	BACCHARIS HALIMIFOLIA	GROUNDSEL TREE	3'-4'	C	
35	ROBIS ALLEGHENIENSIS	NORTHERN BLACKBERRY	3'-4'	C	
25	CLETHRA ALNIFOLIA	WINTERBERRY	3'-4'	C	

MATCH LINE - SEE SHEET 5

SWEET BROOK DRAINAGE AREA

BMP SB-4A: CARLTON BOULEVARD
LANDSCAPING PLANT SCHEDULES
SHEET 4 OF 6

MATCH LINE - SEE SHEET 4

22	ARONIA MELANOCarpa	BLACK CHOCKBERRY	3-4'	c
MAPS				

12	FAGUS GRANDIFOLIA	AMERICA BEECH	5-6'	c	LOW BRANCHED
5	PRUNUS SEROTINA	BLACK CHERRY	5-6'	c	LOW BRANCHED
3	CARYA OVATA	SHAGBARK HICKORY	5-6'	c	LOW BRANCHED
5	CARPINUS CARoliniana	IRONWOOD	5-6'	c	LOW BRANCHED
5	QUERCUS ALBA	WHITE OAK	5-6'	c	LOW BRANCHED
7	POPULUS DELTOIDES	COTTONWOOD	5-6'	c	LOW BRANCHED
7	BETULA POPULifolia	GRAY BIRCH	5-6'	c	PLANT IN GROUPS
1D	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	5-6'	c	LOW BRANCHED

ZONE E - LOWER STREAMBANK

(Z1 PTA R1 A1 b)

225	CORNUS AMOMUM	SILKY DOGWOOD	18-24"	LIVE STAKES	INSTALL 2.D' OC
175	SALIX DISCOLOR	Pussy Willow	18-24"	LIVE STAKES	INSTALL 2.D' OC
ZONE E - SEED MIX - STREAMBANK					

ZONE E - SEED MIX

10%	LEERSIA ORyzoides	RICE CUTGRASS		SEED MIX	TOTAL 2 LBS MIX
2%	JUNCUS EFFUSUS	SOFT RUSH		SEED MIX	
25%	ELYMUS RIPARIUS	RIVERBANK WILD RYE		SEED MIX	
20%	ELYMUS VIRGINICUS	VIRGINIA WILD RYE		SEED MIX	
10%	CAREX VULPINOIDEA	FOX SEDGE		SEED MIX	
33%	RUDBECKIA HIRTIA	BLACK EYED SUSAN		SEED MIX	
2 LBS		TOTAL			

MATCH LINE - SEE SHEET 6

22	ARONIA MELANOCarpa	BLACK CHOCKBERRY	3-4'	c
MAPS				

MATCH LINE - SEE SHEET 3

MATCH LINE - SEE SHEET 5

NOTES:

STRAIGHT NATIVE SPECIES ONLY. ANY CULTIVARS OR VARIETIES SHALL TO BE ACCEPTED.
ALL TREES AND SHRUBS NOT SHOWN ON THE PLAN SHALL BE FIELD PLACED BY RESTORATION SPECIALIST.
PLACE SHRUBS IN RANDOM CLUSTERS OF 3 - 7 SHRUBS, SPACED 4 - 6' APART.
RANDOMLY MIX HERBACEOUS PLANTS 18" OH CENTER.
SOW SEEDS IN ZONES B AND E IMMEDIATELY AFTER DELIVERY AND WATER REGULARLY.
INSTALL LIVE STAKES ONLY ON OUTER BEND OF MEANDERS IN MARCH OR APRIL, 18" ON CENTER.
LIVE STAKES SHALL BE DRIVEN 3/4 LENGTH INTO GROUND.

MATCH LINE - SEE SHEET 3

PERMANENT SEEDING:

1. STRAIGHT NATIVE MEADOW MIX AT A RATE OF 6 LBS. PER 10,000 SF.
3.0 LBS. FACW WETLAND MEADOW MIX AT A RATE OF 6 LBS. PER 10,000 SF.
2. ZONE C
4.5 LBS. STATEN ISLAND NATIVE WILDFLOWER MIX AT A RATE OF 4.5 LBS. PER 10,000 SF.
3. ZONE D
4.5 LBS. STATEN ISLAND NATIVE WILDFLOWER MIX AT A RATE OF 4.5 LBS. PER 10,000 SF.
4. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION ON SEED MIXES AND APPLICATIONS.

NOTES:

1. ALL PLANTS AND SEEDS SHALL BE TRUE TO GENUS AND SPECIES. CULTIVARS AND VARIETIES ARE NOT ACCEPTABLE. SEE SPECIFICATIONS FOR ADDITIONAL PLANT REQUIREMENTS.
2. RANDOMLY MIX HERBACEOUS PLANTS 18" ON CENTER.
3. PLACE SHRUBS IN RANDOM CLUSTERS OF 3-7 SHRUBS, WITH INDIVIDUAL SHRUBS SPACED 3-5' APART.
4. INSTALL EROSION CONTROL MAT - OVER ALL AREAS THAT HAVE BEEN REGRADED AND/OR DISTURBED.
5. SPREAD 2" TOPSOIL OVER ALL DISTURBED AREAS.

ABBREVIATIONS:

B & B = BALED AND BURLAPPED
C - CONTAINER GROWN - SIZE AS NOTED

WOODY PLANT SEEDING:

1. ZONE A, B
1 LBS. CORNUS AMOMUM
1 LBS. ILEX VERTICILLATA
1 LBS. OQUERCUS BICOLOR
1 LBS. ROSA PALUSTRIS
2. ZONE C
0.5 LBS. CARPINUS CAROLINIANA
0.5 LBS. CORNUS RACEMOSA
0.5 LBS. LINDERA BENZOIN
0.5 LBS. NYSSA SYLVATICA
0.5 LBS. OQUERCUS BICOLOR
0.5 LBS. RUBUS ALLEGHENIENSIS
3. ZONE D
1 LBS. ARONIA MELANOCARPA
1 LBS. ARAIA SPINOSA
1 LBS. CEANOTHUS AMERICANUS
1 LBS. CORNUS FLORIDA
1 LBS. CORNUS RACEMOSA
1 LBS. PRUNUS SEROTINA

SWEET BROOK DRAINAGE AREA

BMP SB-4A: CARLTON BOULEVARD
LANDSCAPING PLANT SCHEDULES
SHEET 6 OF 6

HAZEN AND SAWYER
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