



# 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: 2003-01048-YW  
Issue Date: September 27, 2004  
Expiration Date: October 27, 2004

### 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:** Westchester County Department of Parks, Recreation & Conservation  
148 Martine Avenue  
White Plains, New York 10601

**ACTIVITY:** Discharge Fill into Wetlands, Culvert Streams; Mitigation Activities

**WATERWAY:** Tibbetts Brook, Hudson River

**LOCATION:** Tibbetts Brook Park, City of Yonkers, Westchester 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 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

**CENAN-OP-RE**  
**PUBLIC NOTICE NO. 2003-01048-YW**

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.

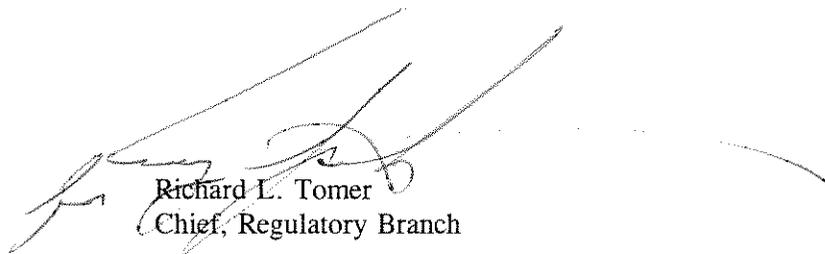
Based upon a review of the latest published version of the National Register of Historic Places, there are no known sites eligible for, or included in, the Register within the permit area. Presently unknown archeological, scientific, prehistorical, or historical data may be lost by work accomplished 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.

The applicant has applied for a water quality certificate and New York State Department of Environmental Conservation permit for the activity under consideration.

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 (212) 264-6730 and ask for Frank Tangorra.

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

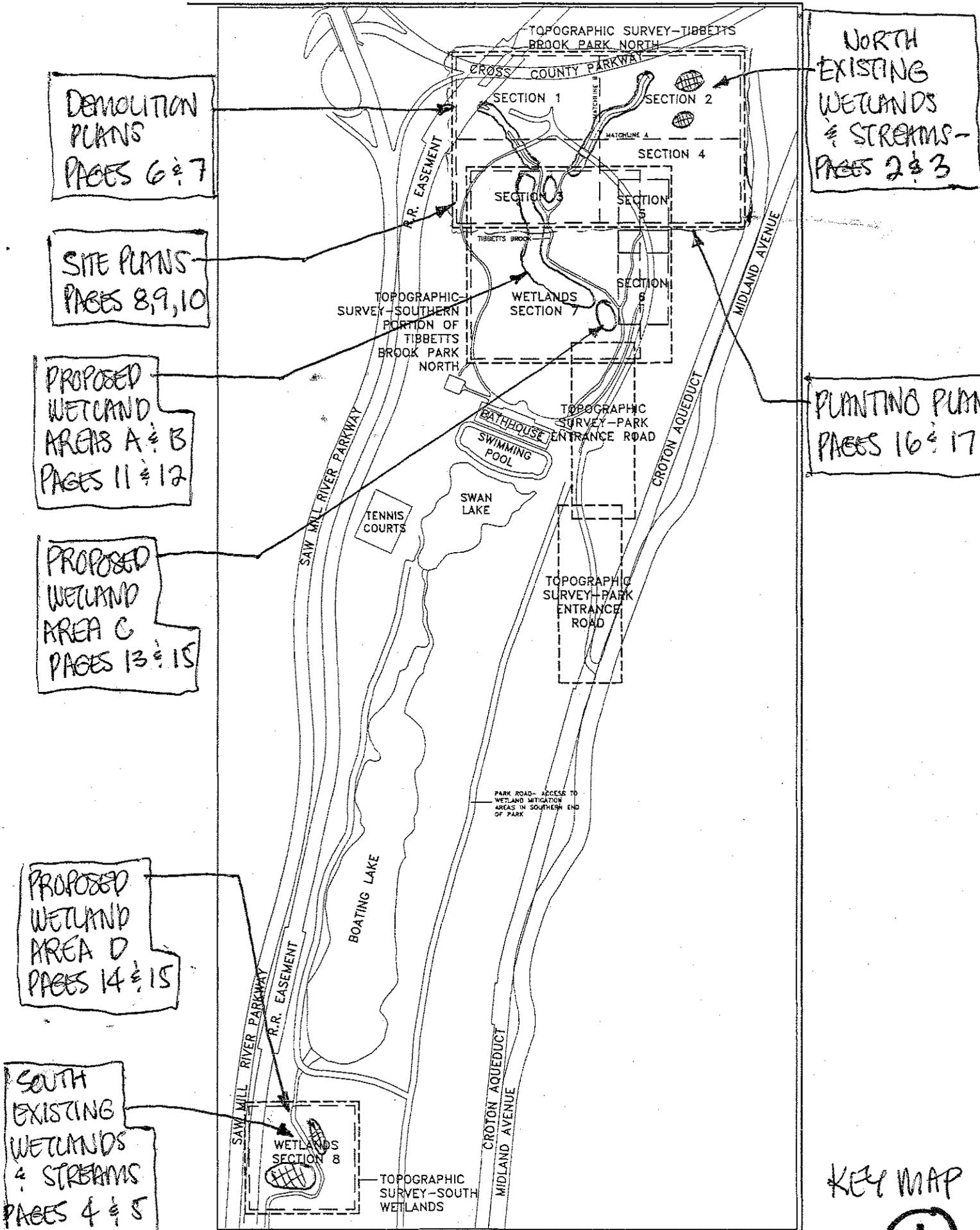
Enclosures

**WORK DESCRIPTION**

The applicant, Westchester County Department of Parks, Recreation & Conservation, has requested Department of the Army authorization to discharge fill into wetlands, culvert streams and undertake mitigation activities in Tibbetts Brook and a unnamed tributary of the Hudson River at Tibbetts Brook Park at the City of Yonkers, Westchester County, New York.

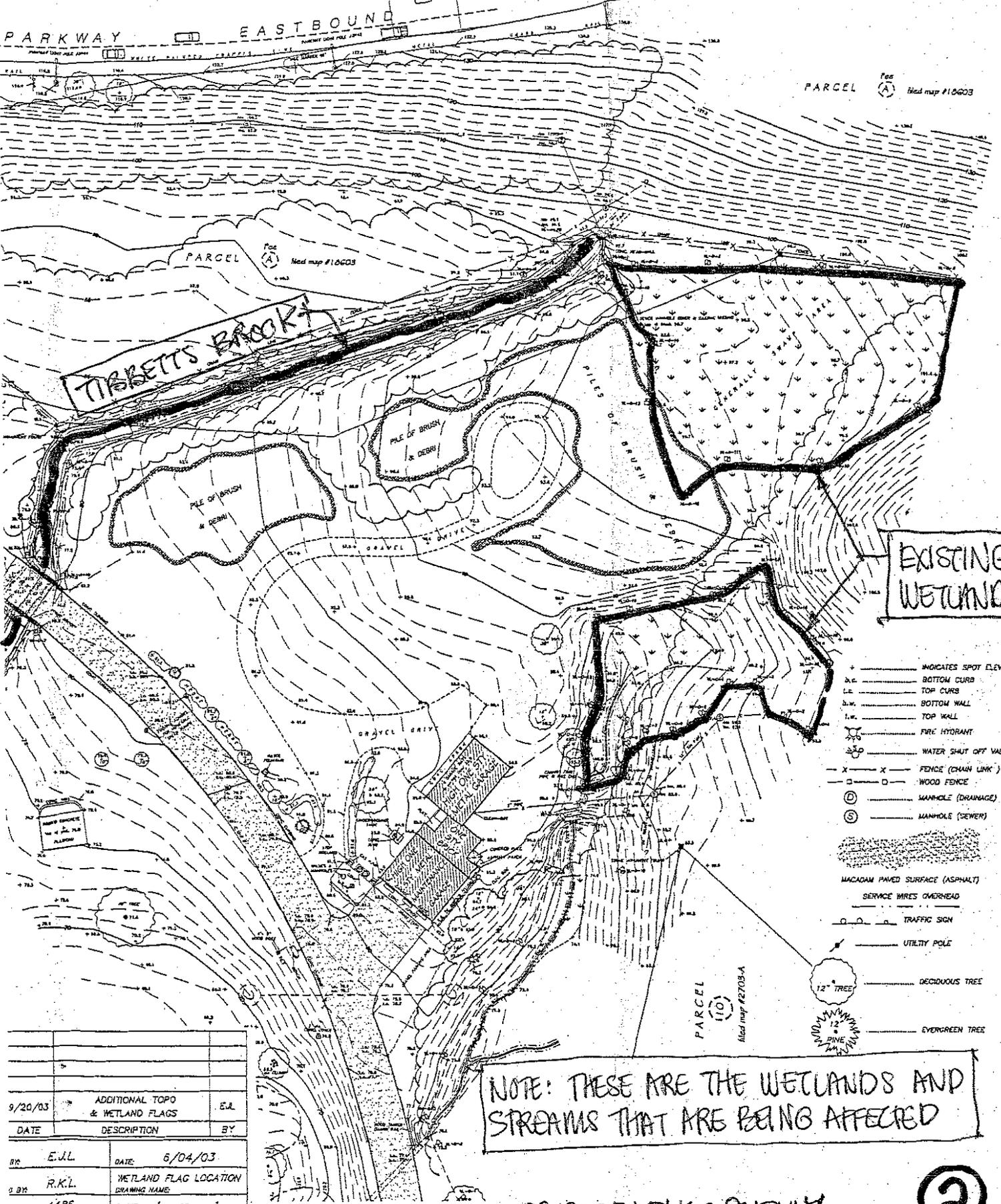
The work would involve the discharge of fill material into approximately 1.05 acres of non-tidal wetlands to construct three modern synthetic athletic fields, a field house, parking area for approximately 125 cars and pedestrian access walks. An existing culvert would be extended by installing approximately 328 feet of new twin 48-inch diameter culvert and an existing twin 60 inch diameter culvert, that carries Tibbetts Brook under the Cross County Parkway and into Tibbitts Brook Park from the north, would be extended by approximately 165 feet. Another existing culvert would be extended by installing approximately 332 feet of new 30-inch diameter culvert in an unnamed brook on the west side of the site. The culverted brooks would carry flow to Tibbetts Brook and the proposed wetland areas.

Approximately 2.10 acres of wetlands would be created to mitigate the loss of existing wetlands. The wetlands that would be created as part of the mitigation plan have been designed to expand the existing wetlands at the site. Approximately 1,685 cubic yards of topsoil will be removed and relocated to the proposed wetland areas on site. The created wetlands would be planted with species found in the existing wetlands. A comprehensive erosion and sediment control plan has been proposed to reduce potential impacts on wetlands during construction. Included in the plan would be the installation of silt fence, diversion swales that would be constructed outside the wetlands and hay bale erosion control devices.



PROJECT KEY MAP - NTS



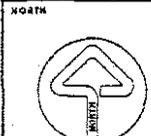


DATE	DESCRIPTION	BY
9/20/03	ADDITIONAL TOPO & WETLAND FLAGS	E.J.L.
6/04/03	DATE	BY
R.K.L.	WETLAND FLAG LOCATION	
4486	DRAWING NAME:	
	SHEET 1 OF 1	

NOTE: THESE ARE THE WETLANDS AND STREAMS THAT ARE BEING AFFECTED

TOPOGRAPHIC SURVEY

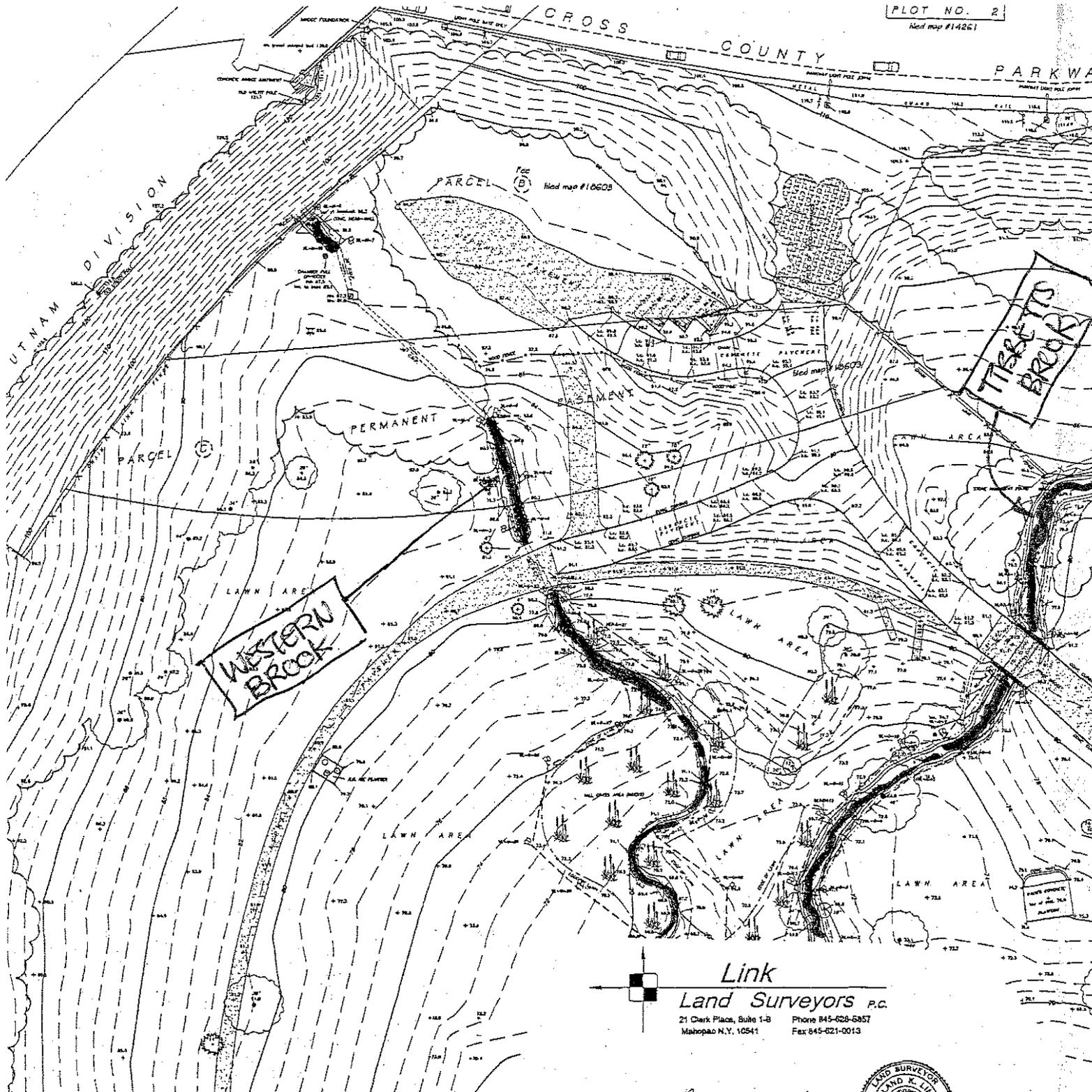
2



**WA**  
 WARD ASSOCIATES, P.C.  
 LANDSCAPE ARCHITECTS  
 ARCHITECTS ENGINEERS  
 1505 Lakeland Avenue  
 Bohemia, New York 11720

WESTCHESTER COUNTY NEW YORK  
 DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF ENGINEERING  
 ATHLETIC FIELD COMPLEX AT  
 TIBBETTS BROOK PARK-NORTH

PROJECT NUMBER	DRAWING NUMBER	WAPC JOB NO.
SHEET NO.	OF	
SCALE	DATE	



**Link**  
**Land Surveyors P.C.**  
 21 Clark Place, Suite 1-B Phone 845-628-5957  
 Mahopas N.Y. 10541 Fax 845-621-0013

*Roland K. Link*  
**ROLAND K. LINK**  
 NEW YORK STATE LICENSED  
 LAND SURVEYOR NO. 044228



**TOPOGRAPHIC  
 SURVEY OF PROPERTY**

**TIBBETTS BROOK PARK NORTH**  
 DEPARTMENT OF PARKS, RECREATION, AND CONSERVATION  
 SITUATE IN THE  
**CITY of YONKERS**  
**WESTCHESTER COUNTY**  
**NEW YORK**

SCALE: 1" = 40'  
 SURVEYED: APRIL 16, 2003  
 ADDITIONAL TOPOGRAPHY LOCATED SEPT. 2, 2003

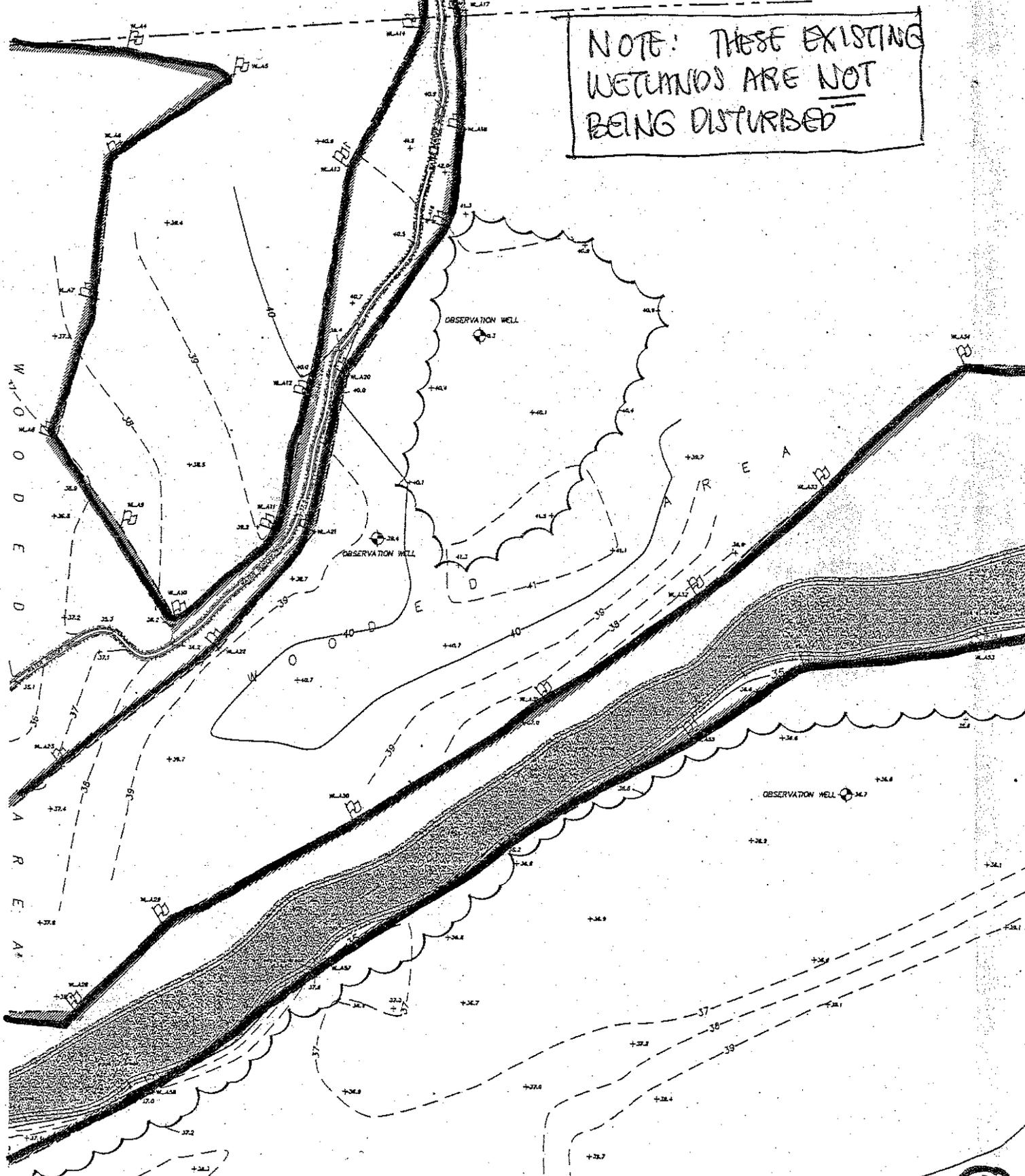
- WETLAND FLAGGING BY PAUL J. JAEHNIG - WETLAND AND SOILS CONSULTING, MAY 23, 2003. WETLAND FLAGS LOCATED BY THE OFFICE OF LINK LAND SURVEYORS COMPLETED JUNE 4, 2003. ADDITIONAL WETLAND FLAGS LOCATED SEPTEMBER 12, 2003.
- ELEVATIONS SHOWN HEREON REFERS DATUM OBTAINED FROM THE WESTCHESTER COUNTY DEPARTMENT OF PUBLIC WORKS.
  - ENCROACHMENTS BELOW GRADE AND/OR SUBSURFACE FEATURES, IF ANY, NOT LOCATED OR SHOWN HEREON.
  - UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 1209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAWS.
  - ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S SEAL SHALL BE CONSIDERED TO BE TRUE VALID COPIES.
  - THE LOCATION OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON ABOVE GROUND STRUCTURES ONLY. LOCATION OF UNDERGROUND UTILITY / STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES / STRUCTURES MAY BE ENCOUNTERED. NO EXCAVATION WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES. BEFORE EXCAVATION IS TO BE DONE CONTRACTOR SHALL CALL CODE 83 (1-800-245-2828).

NO.	DATE	DES.
1	9/20/03	ADDI & WE DES
DRAWN BY:		E.J.L.
CHECKED BY:		R.K.L.
JOB NO.:		4486



NEW YORK CENTRAL RAILROAD (PUTNAM DIVISION)

NOTE: THESE EXISTING WETLANDS ARE NOT BEING DISTURBED

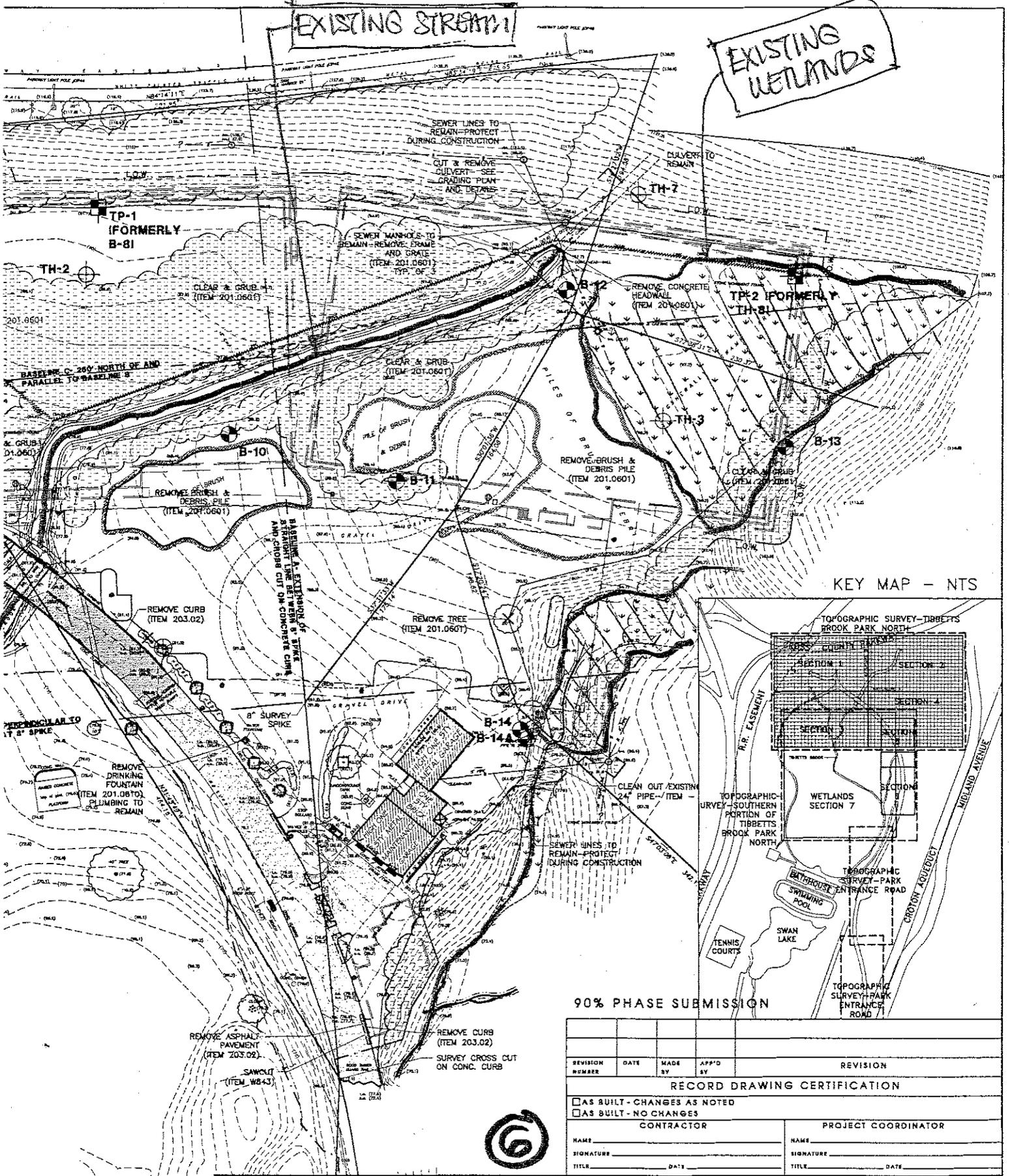


TOPOGRAPHIC SURVEY

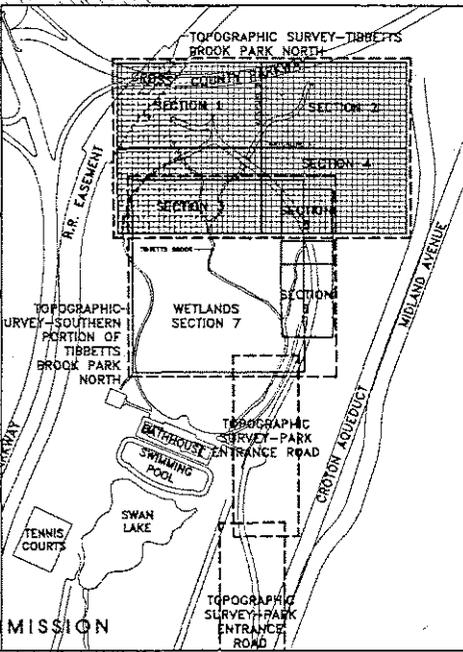


EXISTING STREAM

EXISTING WETLANDS



KEY MAP - NTS



90% PHASE SUBMISSION

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

**RECORD DRAWING CERTIFICATION**

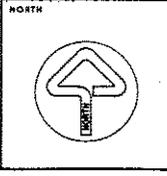
AS BUILT - CHANGES AS NOTED  
 AS BUILT - NO CHANGES

<b>CONTRACTOR</b>		<b>PROJECT COORDINATOR</b>	
NAME	SIGNATURE	NAME	SIGNATURE
TITLE	DATE	TITLE	DATE

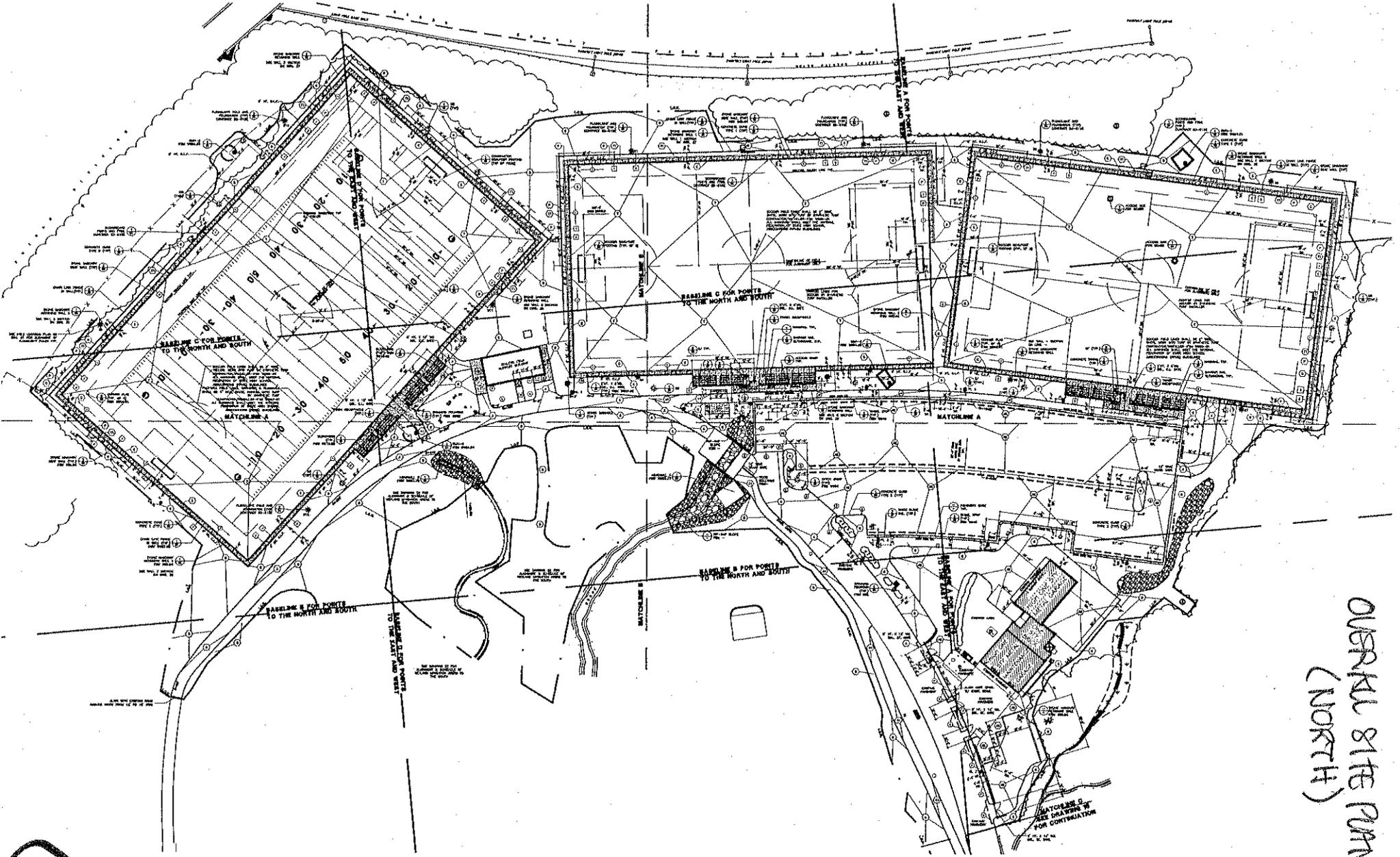
PROJECT NUMBER	DRAWING NUMBER	WAF# JOB NO.
03-519-G	C-4	200253.00
SHEET NO. <b>9 of 55</b>		
SCALE: 1" = 40'-0"		
DATE: JANUARY 20, 2004		
DPW DRAWING NUMBER	REVISION NUMBER	
00-003		

**UA**  
**WARD ASSOCIATES, P.C.**  
 LANDSCAPE ARCHITECTS  
 ARCHITECTS/ENGINEERS

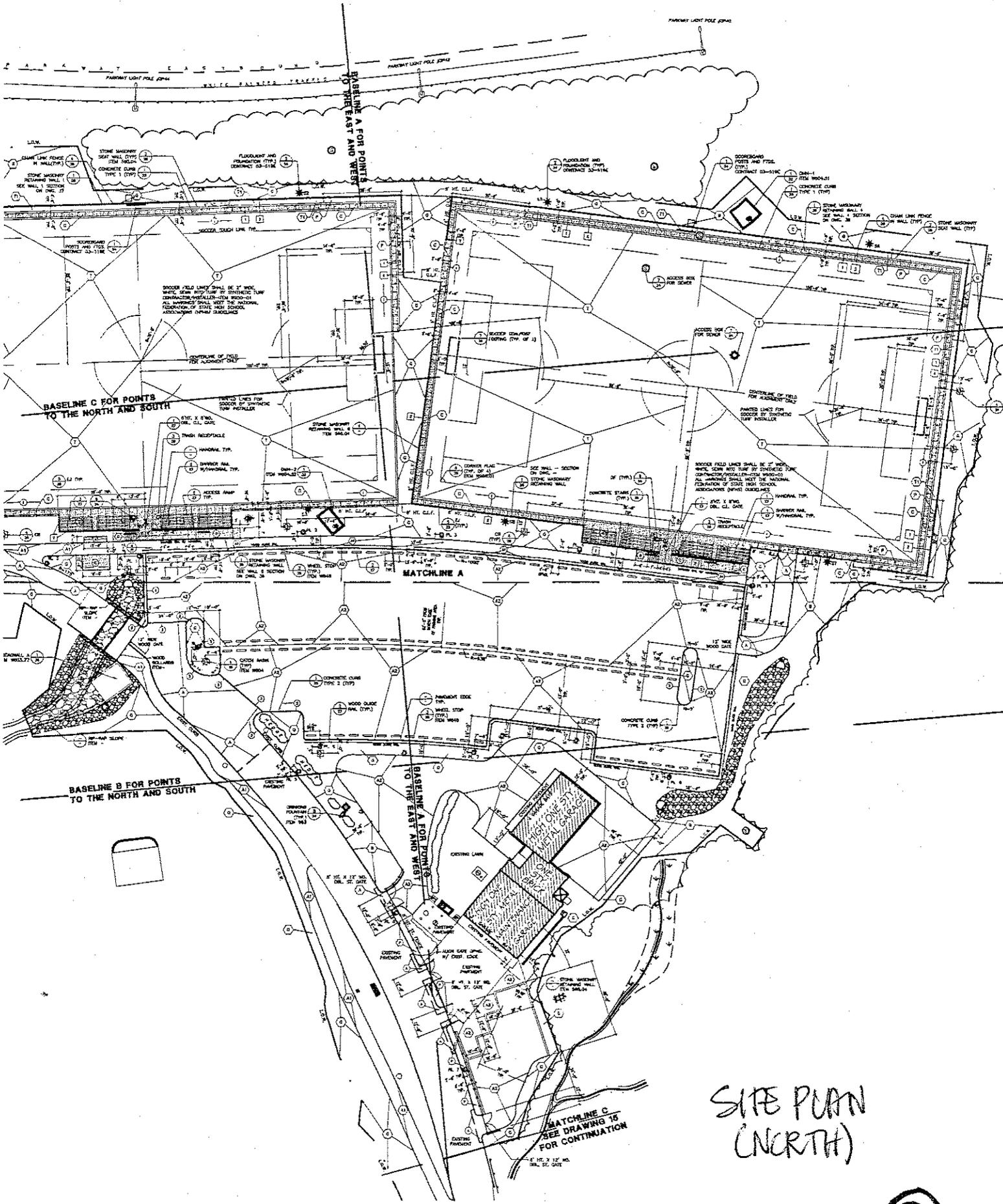
1600 Lakeside Avenue  
 Bohemia, New York 11720  
 Phone (631) 865-4800  
 Fax (631) 865-4807



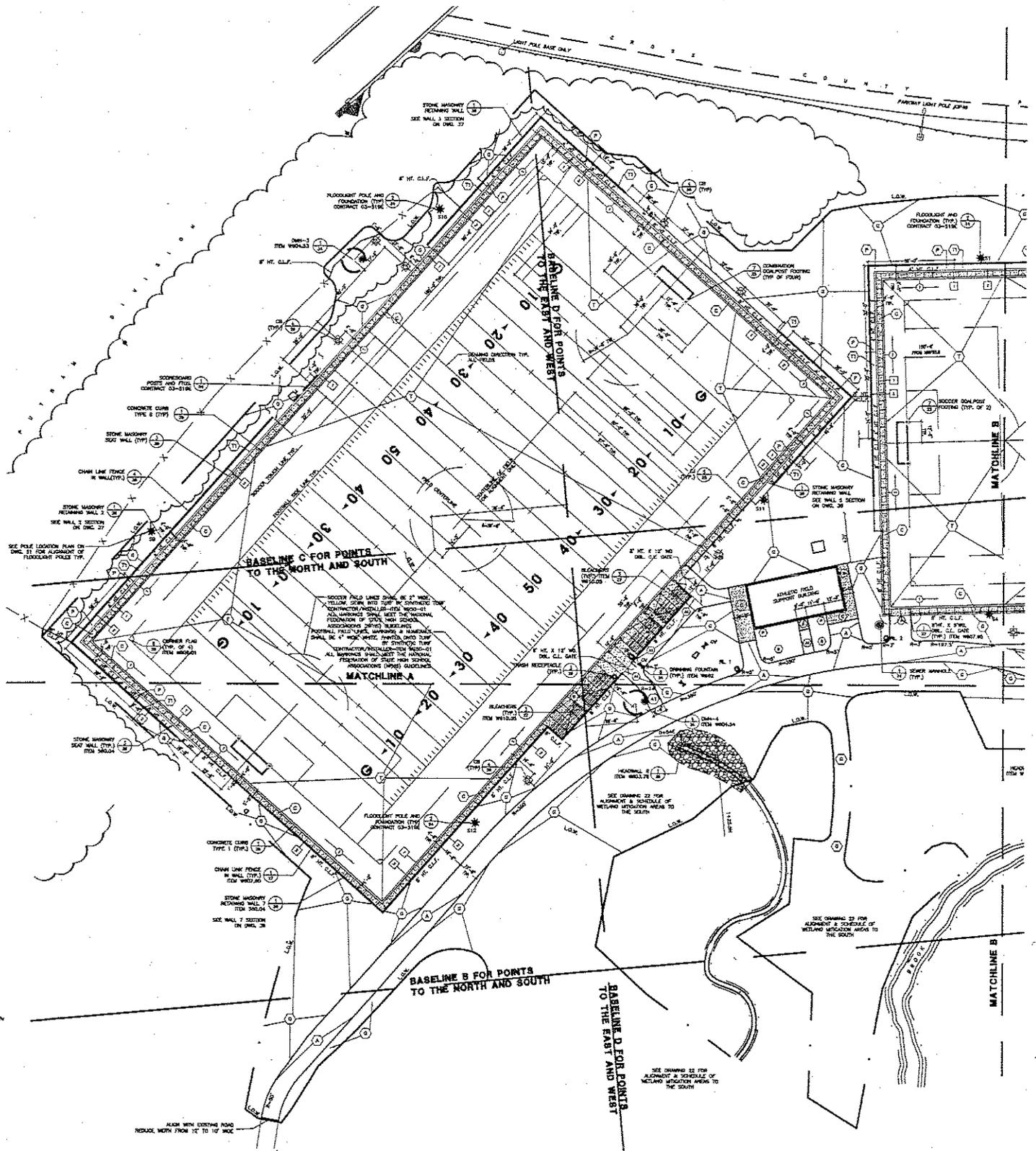




OUSPRAKU 81ST ABN  
(NORTH)

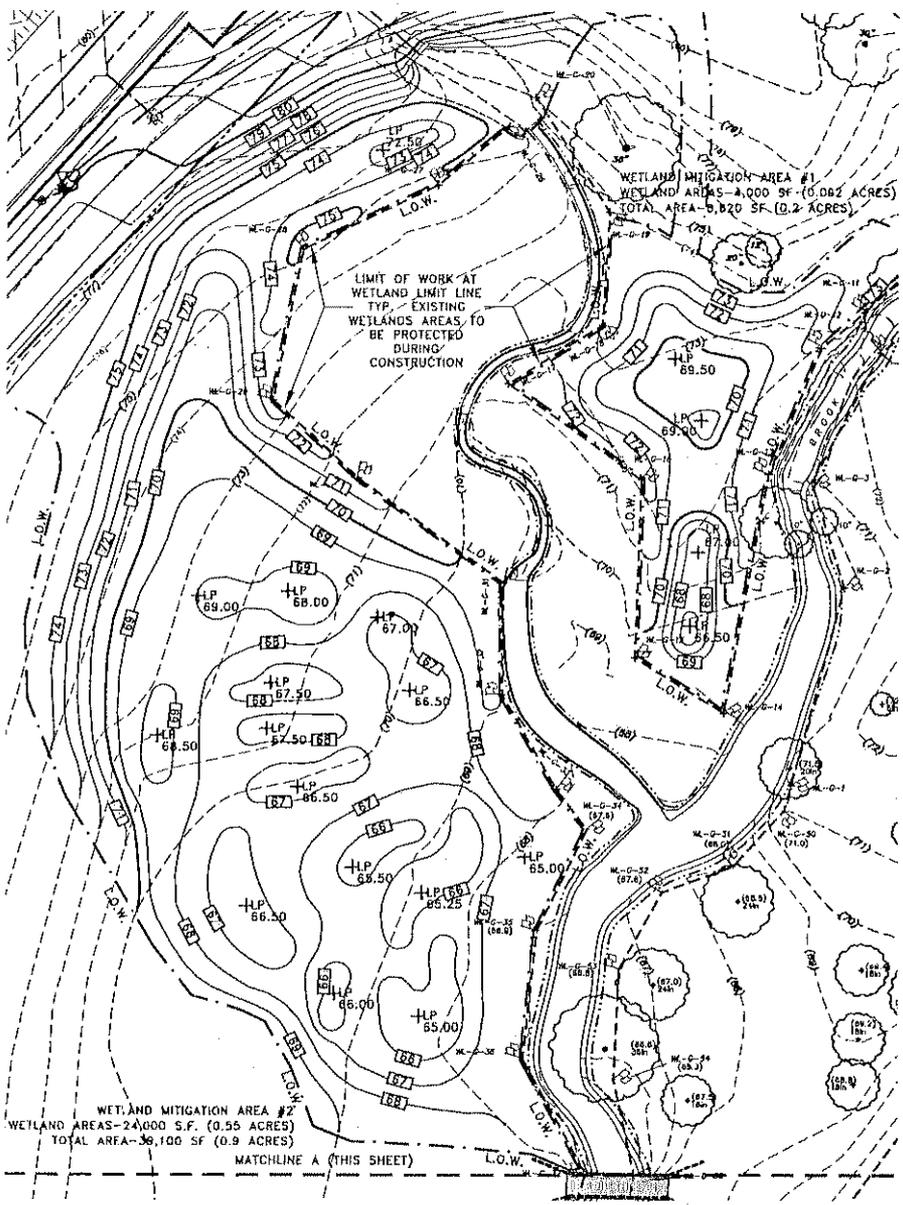


SITE PLAN  
(NORTH)



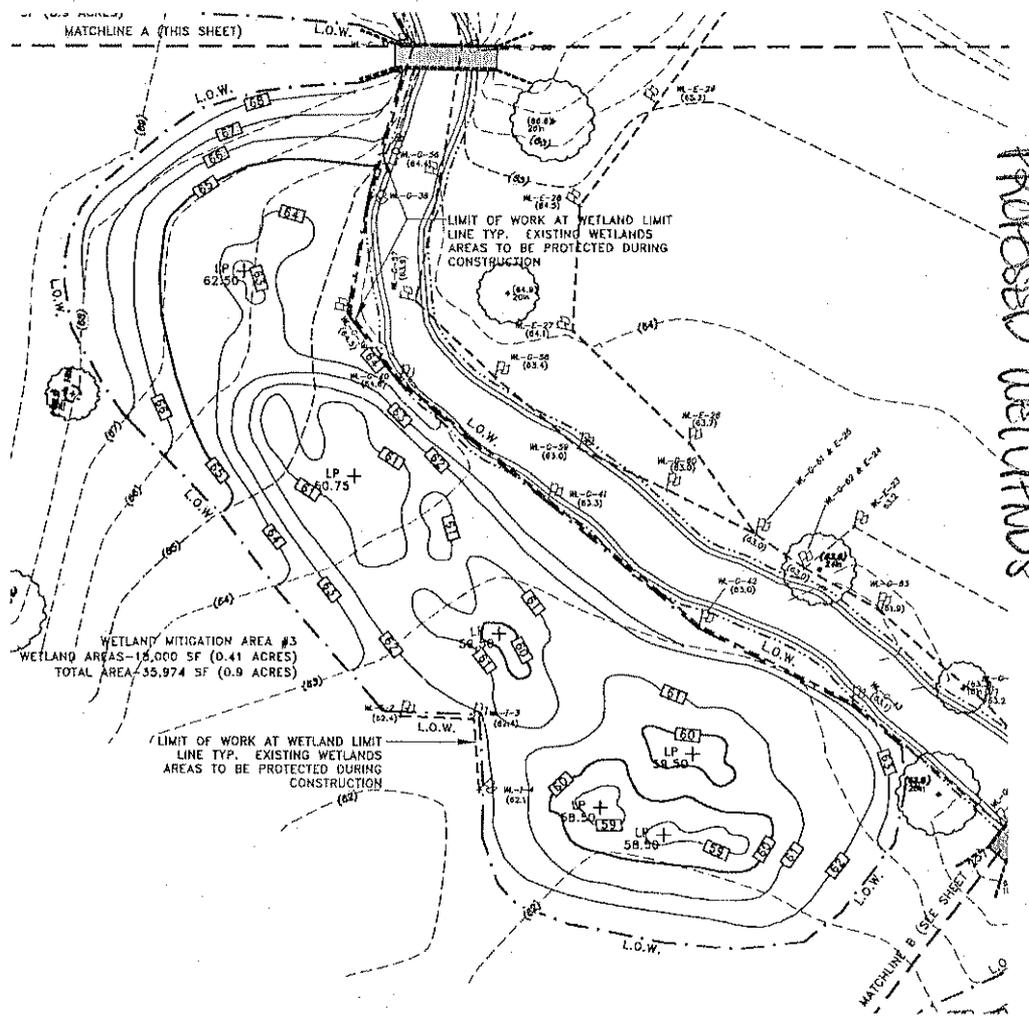
SITE PLAN  
(NORTH)

10



2 ALIGNMENT & GRADING PLAN  
22 PROPOSED WETLAND MITIGATION AREA A  
KEY MAP - NTS

SCALE: 1" = 30'-0"



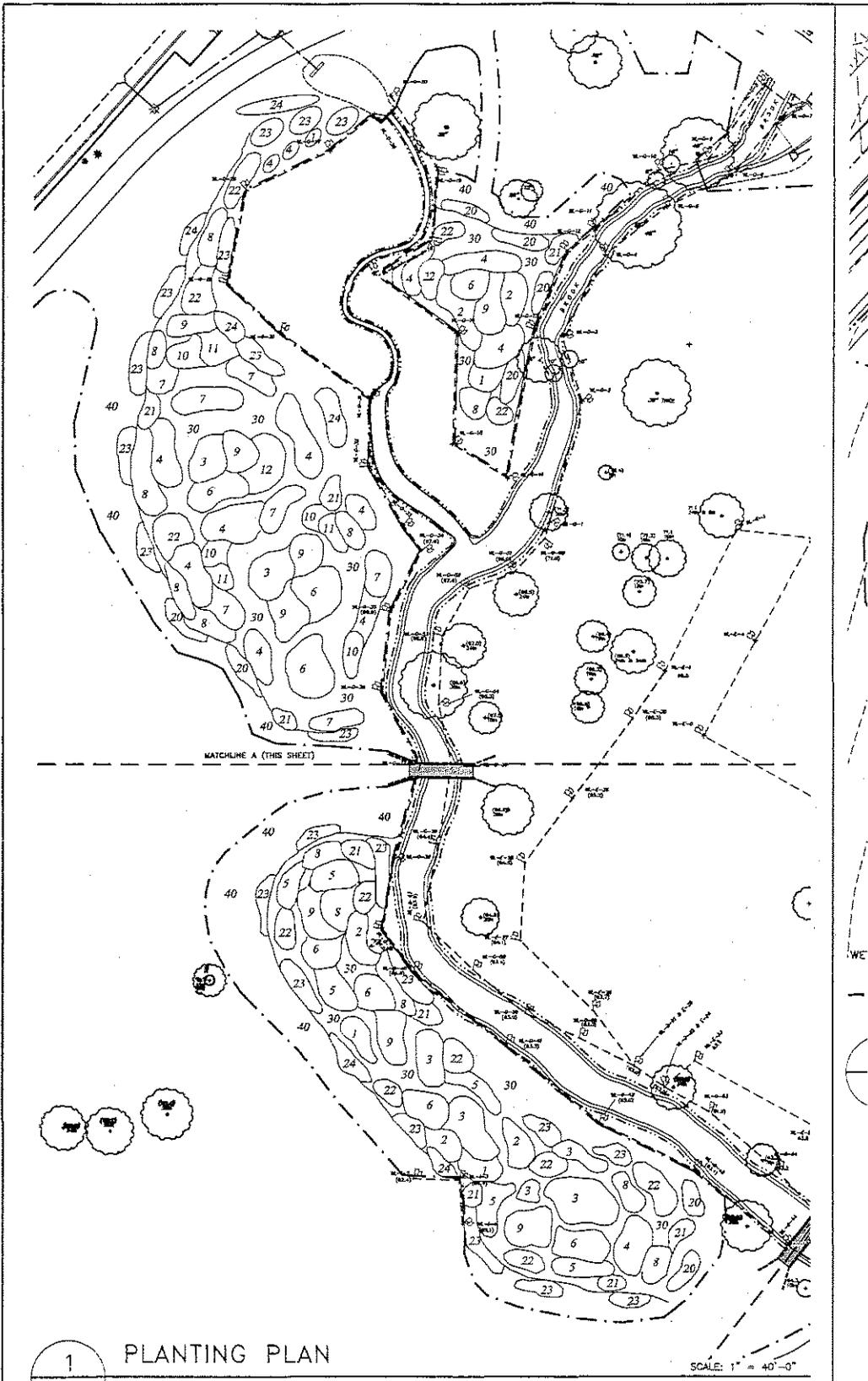
3 ALIGNMENT & GRADING PLAN  
22 PROPOSED WETLAND MITIGATION AREA B

SCALE: 1" = 30'-0"

GENERAL NOTES FOR ALIGNMENT AND GRADING OF PROPOSED WETLAND MITIGATION AREAS

1. PROPOSED GRADES AT LOW POINTS ARE BASED ON DEPTH OF WATER TABLE OBSERVATIONS MADE IN FIELD AND MAY BE ADJUSTED BY ENGINEER AS NECESSARY TO ACHIEVE THE DESIRED WETLAND HYDROLOGIC CONDITIONS. CONTRACTORS BID SHALL BE BASED ON AREA AND GRADES SHOWN ON THIS PLAN.
2. LIMIT OF WETLAND MITIGATION AREAS SHALL BE MARKED OUT FOR THE APPROVAL OF THE ENGINEER PRIOR TO START OF CONSTRUCTION.
3. EXISTING WETLAND AREAS ADJACENT TO MITIGATION AREAS SHALL BE PROTECTED DURING CONSTRUCTION.

PROPOSED WETLANDS



1  
22

PLANTING PLAN  
PROPOSED WETLAND MITIGATION AREAS A & B

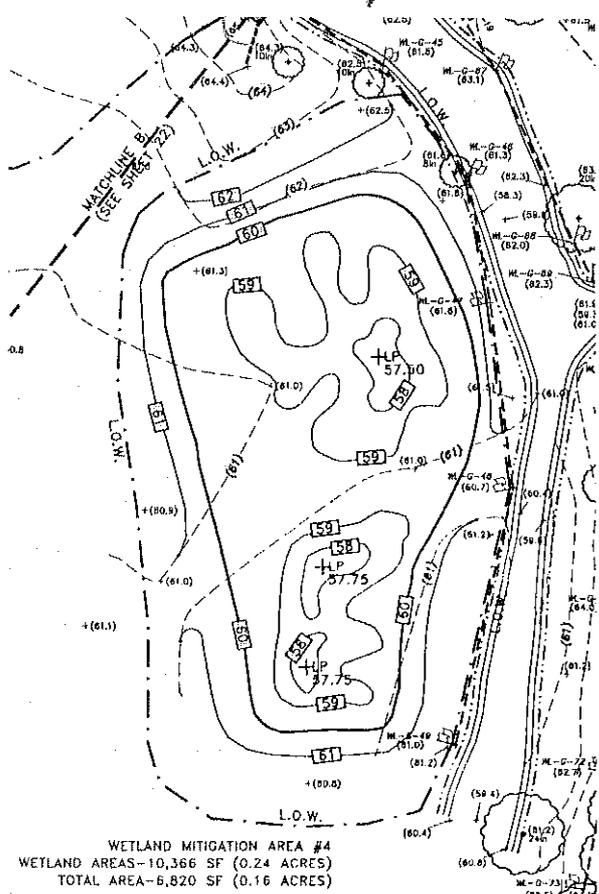
SCALE: 1" = 40'-0"

GENERAL NOTES FOR PLANTING OF PROPOSED WETLAND MITIGATION AREAS

1. SEE DRAWING 41 FOR PLANT SCHEDULE AND PLANTING DETAILS FOR PROPOSED WETLAND AND WETLAND BUFFER.
2. LOCATIONS OF PLANT MATERIALS AND LIMITS OF GROUNDCOVER SHALL BE MARKED FOR THE APPROVAL OF THE ENGINEER PRIOR TO PLANTING.
3. ALL DISTURBED AREAS WITHIN THE PROPOSED WETLAND AREAS SHALL BE PREPARED AND SEEDED WITH WETLAND DIVERSITY MIX OR NON-WETLAND SEED MIX AS SHOWN ON THE PLAN.
4. ONCE PLANT LOCATIONS AND GROUNDCOVER LIMITS HAVE BEEN APPROVED, INSTALL SHRUBS AND GROUNDCOVERS AS SHOWN ON THE PLAN.

PROPOSED  
WETLANDS

12



**ALIGNMENT & GRADING PLAN  
 PROPOSED WETLAND MITIGATION AREA C**

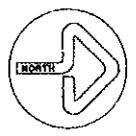
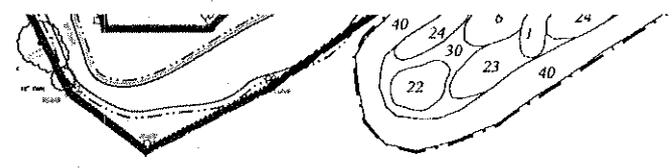
2  
 23

SCALE: 1" = 30'-0"

GENERAL NOTES- PROPOSED WETLAND MITIGATION PLANS  
 SEE DRAWING 22 FOR GENERAL NOTES AND LEGEND

13

PROPOSED  
 WETLANDS



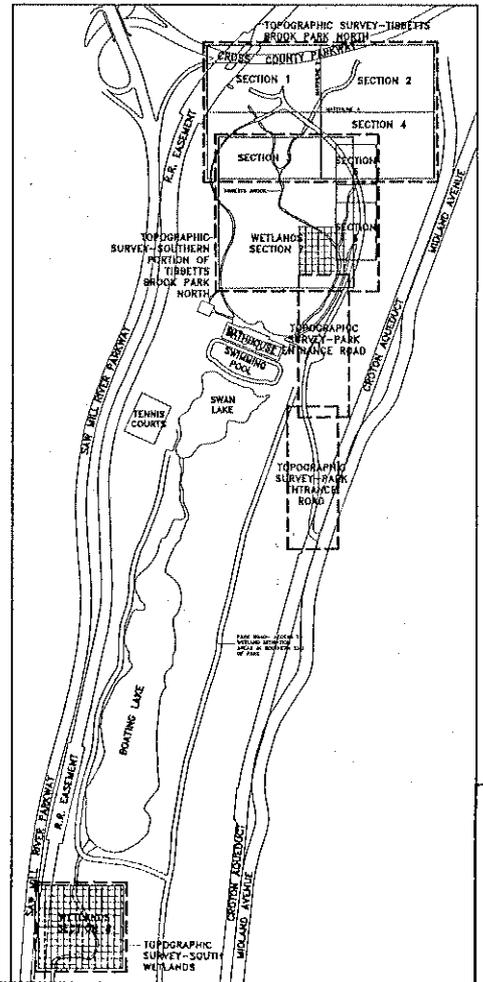
**3  
 23** PLANTING PLAN  
 PROPOSED WETLAND MITIGATION AREA D

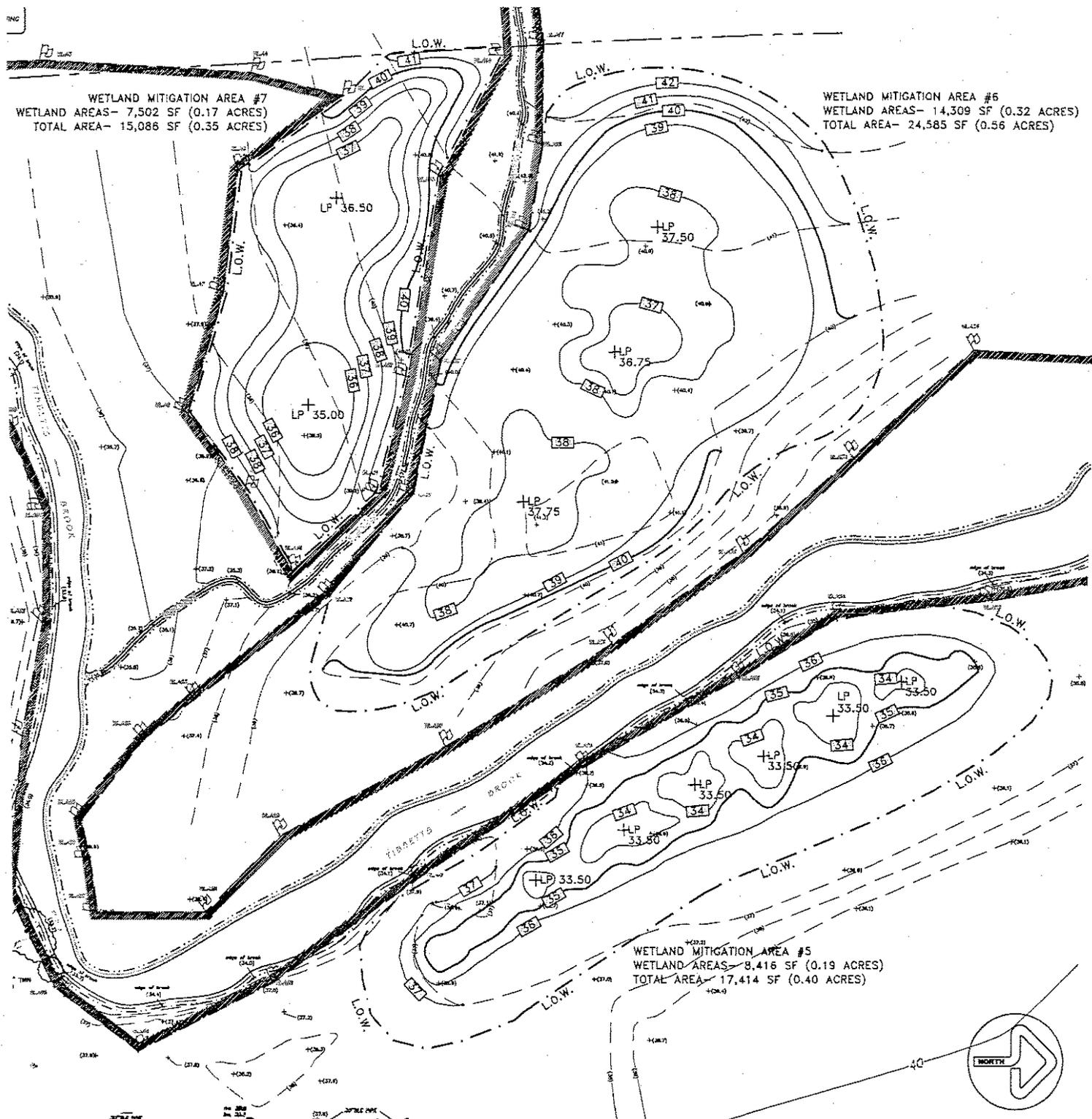
SCALE: 1" = 40'-0"

LEGEND- PLANTING PLANS

- 1-12 HERBACEOUS PLANTS
- 20-24 SHRUBS
- 30 WETLAND AREA GROUNDCOVER
- 40 WETLAND BUFFER GROUNDCOVER

KEY MAP - NTS





4  
23

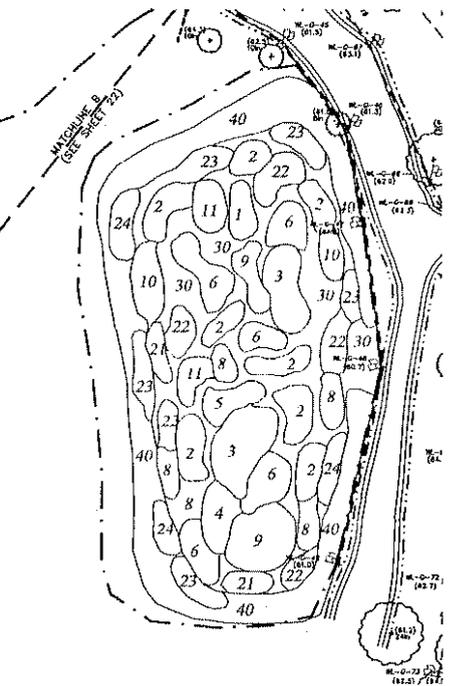
ALIGNMENT & GRADING PLAN

PROPOSED WETLAND MITIGATION AREA D

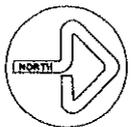
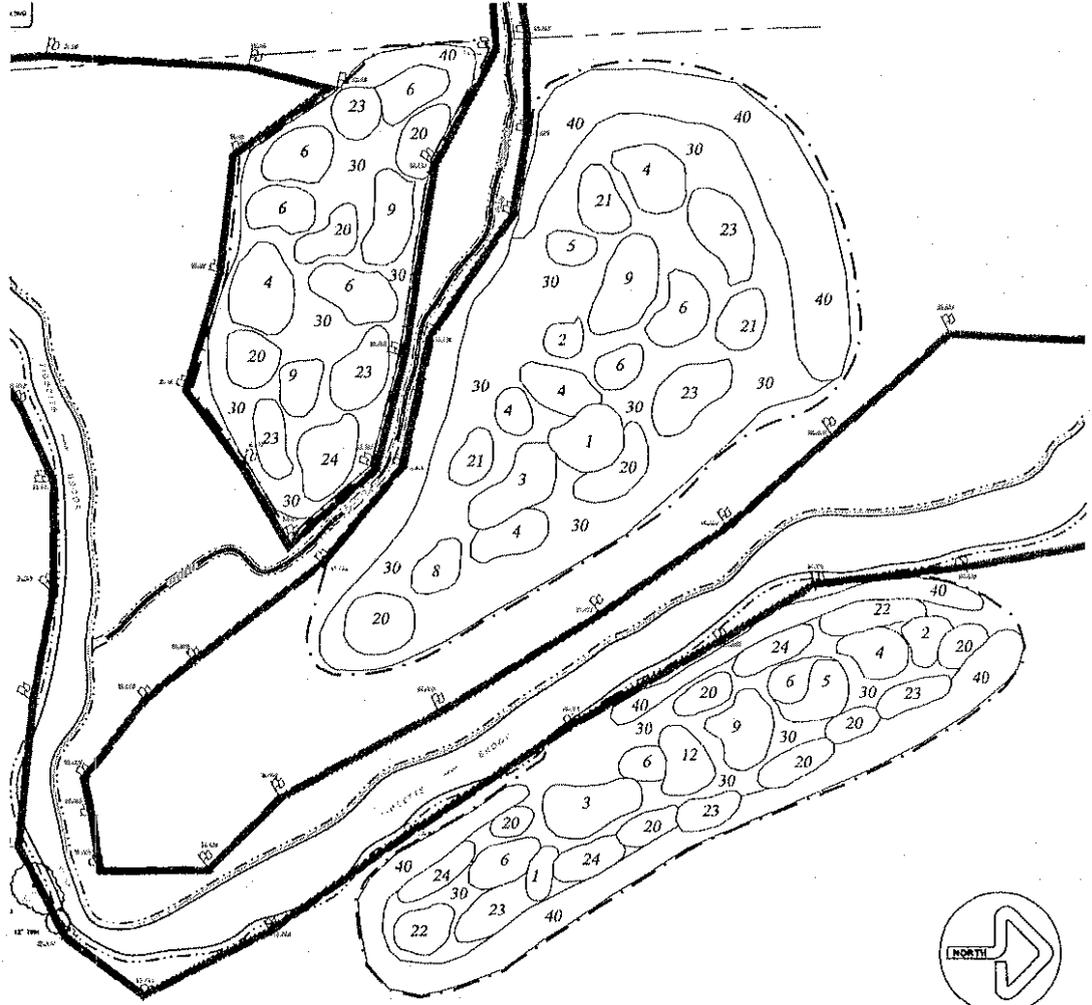
SCALE: 1" = 30'-0"

PROPOSED  
WETLANDS

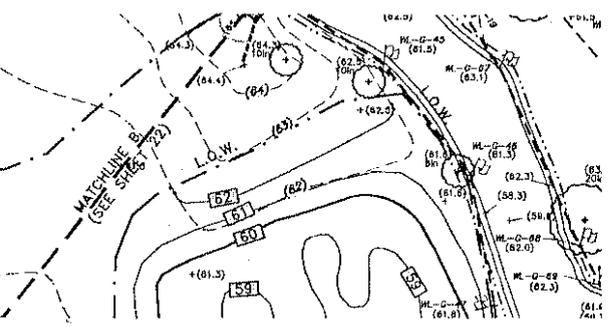
14



1  
23  
PLANTING PLAN  
PROPOSED WETLAND MITIGATION  
AREA C  
SCALE: 1" = 40'-0"



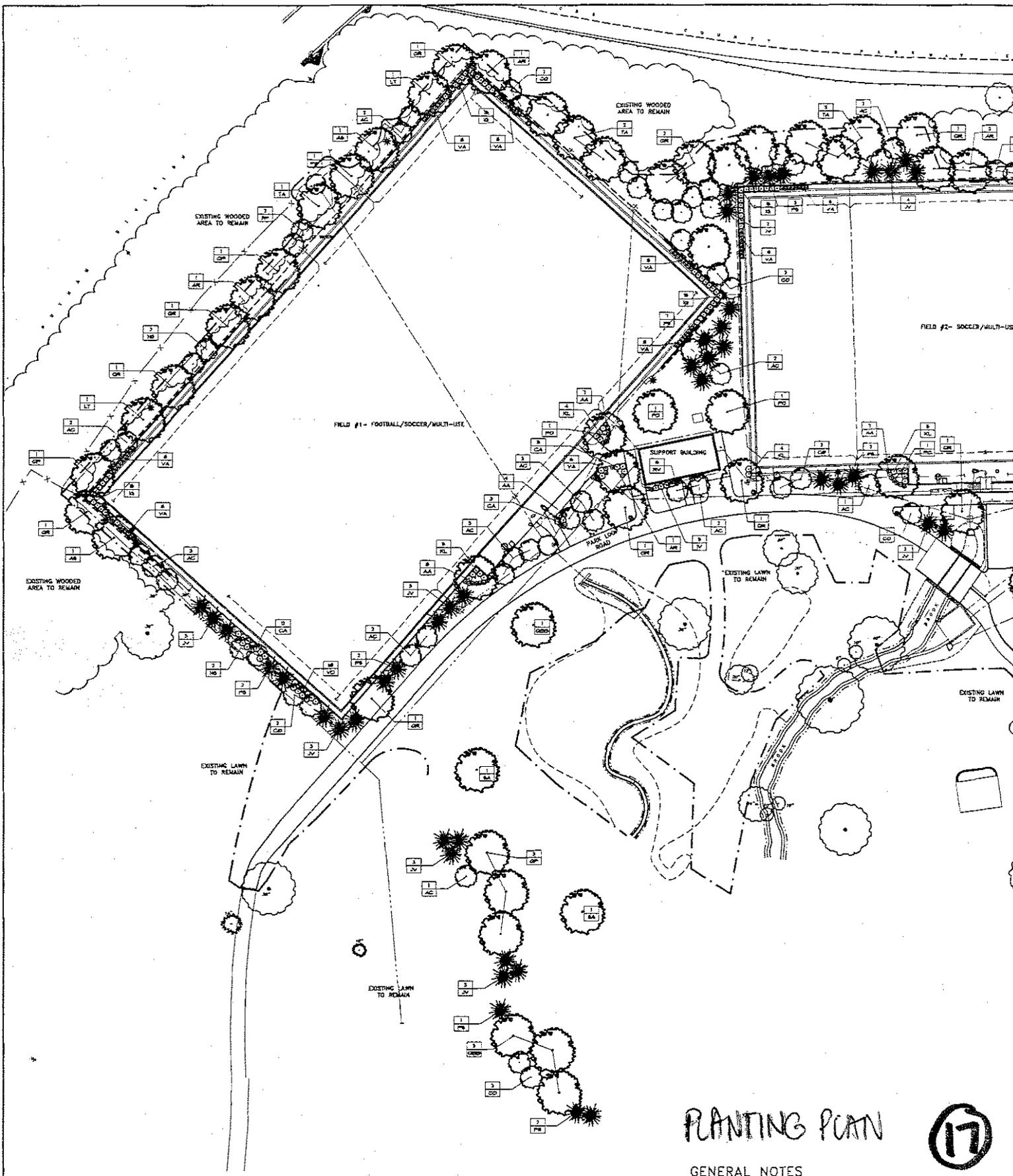
3  
23  
PLANTING PLAN  
PROPOSED WETLAND MITIGATION AREA D  
SCALE: 1" = 40'-0"



PROPOSED  
WETLANDS







# PLANTING PLAN



## GENERAL NOTES

1. STAKE LOCATIONS OF ALL PLANT MATERIALS PRIOR TO INSTALLATION FOR THE LANDSCAPE ARCHITECT.
2. ALL TREES IN GRASS AREAS SHALL RECEIVE 4" DEPTH WOOD MULCH IN A 3'-0" RADIUS ALL AROUND.
3. ALL TREES SHALL BE STAKED AND GUYED AS SPECIFIED.
4. ALL PLANT MATERIALS ARE SUBJECT TO INSPECTION BY THE LANDSCAPE ARCHITECT. UNACCEPTABLE PLANT MATERIALS SHALL BE REMOVED FROM THE SITE AT THE CONTRACTOR'S EXPENSE.
5. SEE DRAWING 41 FOR PLANT SCHEDULE AND PLANTING DETAILS.

**IG & PLANTING OF WETLAND MITIGATION AREAS**

TRDL MEASURES AS SHOWN ON DRAWINGS 6 & 7 PRIOR TO COMMENCEMENT OF EROSION AND SEDIMENT CONTROL MEASURES UNTIL VEGETATIVE GROWTH IS ESTABLISHED. REFER TO DRAWING 7 AND STORMWATER POLLUTION PREVENTION

ES PRIOR TO COMMENCEMENT OF GRADING OPERATIONS AS DESCRIBED ON

MITIGATION AREAS FOR APPROVAL OF LANDSCAPE ARCHITECT PRIOR TO START OF GRADING TO KEEP PUBLIC OUT OF WORK AREAS.

WETLAND BOUNDARIES FOR WETLAND FLAGS INSTALLED DURING THE DESIGN PHASE. IF WETLAND AREAS ARE MISSING, WETLAND AREAS SHALL BE RE-MARKED OUT BY A WETLANDS SCIENTIST EMPLOYED BY THE CONTRACTOR. ALL AREAS WERE SURVEYED IN THE SUMMER OF 2003 BY PAUL J. JACHING, WETLANDS & SOILS CONSULTANT. WETLAND AREAS SHALL REMAIN MARKED AND BE PROTECTED ACCESS.

AREAS TO BE GRADED AND STOCKPILED FOR REUSE. IT IS ESTIMATED THAT THERE WILL BE WETLAND MITIGATION AREAS.

AREAS CLOSEST TO THE BROOK AND STREAMS, WORKING OUT TOWARDS THE BROOK AND STREAMS AND GRADING OPERATIONS DURING EXTENDED RAINY PERIODS SHALL BE GRATED. RESUME WORK WHEN GROUND IN WORK AREAS IS SUFFICIENTLY

INSTALL SEDIMENT AND EROSION CONTROL MEASURES AROUND BASE OF WETLAND MITIGATION AREAS.

AS SHOWN ON THE GRADING PLANS TO ACHIEVE THE DESIRED WETLAND MITIGATION GRADE OF THE WETLAND PLANTING AREAS SHALL BE AT OR VERY CLOSE TO THE FINISHED GRADE. ADJUSTMENTS MAY BE NECESSARY DURING GRADING TO ACHIEVE THE DESIRED GRADE. THIS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO

AND STUMPS IN PLANTING AREA. REMOVE STONES AND BOULDERS AS WELL AS STONES AND STUMPS ON THE WETLAND FLOOR SURFACE DOES

AND APPROVED, AMEND TOPSOIL WITH ORGANIC MATERIAL AS SPECIFIED IN THE WETLAND MITIGATION AREAS.

INSTALL BETWEEN APRIL 1 TO JUNE 1 AND SEPTEMBER 1 TO OCTOBER 31 IF WEATHER WARRANTS. CONTRACTOR SHALL SCHEDULE GRADING TO AVOID LEAVING AREAS DISTURBED FOR LONG PERIODS OF TIME.

INDICATED ON THE PLANTING PLANS. LIMITS OF GROUNDCOVERS AND LOCATION SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.

BE EXCAVATED SO AS TO HAVE 12" OF CLEARANCE AROUND SOIL BALL. THE BOTTOM OF THE HOLE SHALL BE LOOSENED TO A DEPTH OF 12".

THE HOLES ON A PEDESTAL OF COMPACTED TOPSOIL MIX TO A DEPTH SO AS TO BE BELOW THE FINISHED GRADE AND BACKFILLED WITH THE SPECIFIED

BE CONSTRUCTED AROUND EACH SHRUB AT THE EDGE OF THE PIT TO

WATERED ON THE DAY OF PLANTING AS REQUIRED.

WETLAND AND WETLAND BUFFER AREA SHALL BE STABILIZED, CLEARED OF ALL STALLION OF GROUNDCOVERS. INSTALL WETLAND DIVERSITY MIX IN ACCORDANCE WITH THE PLANTING PLAN AND FINE RAKE APPROXIMATELY 1/4" INTO THE SOIL. WILDFLOWER MIX IN WETLAND BUFFER AREAS AS SHOWN ON THE PLANTING PLAN INTO SOIL SURFACE. SPREAD 1/2" THICK STRAW MULCH EVENLY OVER ALL WETLAND INTO SOIL SURFACE.

2 WEEKS AFTER PLANTING AS REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR A PERIOD OF ONE YEAR AFTER PROJECT CLOSEOUT DURING WHICH WEEDS WITHOUT SUBSTANTIAL RAIN.

SHALL BE LEFT IN PLACE AROUND ALL WETLAND MITIGATION AREAS UNTIL THE NEXT GROWTH PERIOD.

GROWTH, REMOVE DEAD BRANCHES AND REPLACE DEAD PLANTS AS NECESSARY. ALL PLANTS FOR A PERIOD OF ONE YEAR AFTER COMPLETION OF WETLAND MITIGATION AREAS SHALL BE KEPT FREE OF INVASIVE PLANTS AND WEEDS THROUGHOUT THE YEAR.

**PLANT SCHEDULE**

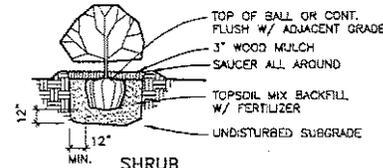
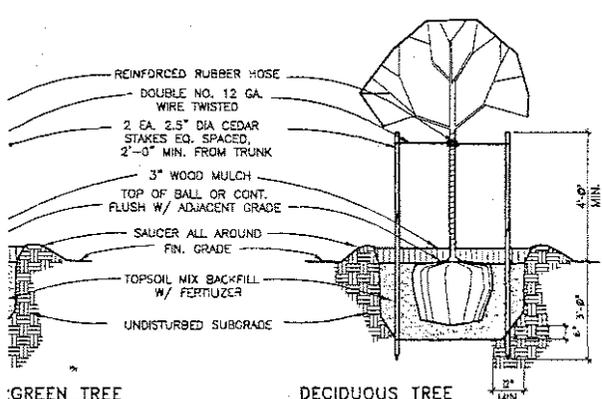
SYMBOL	COMMON NAME	BOTANICAL NAME	SIZE	SPACING	CONDITION	QTY.	ITEM NO.
LARGE TREES							
LT	TULIP TREE	LIRIODENDRON TULIPIFERA	2.5-3" CAL.	AS SHOWN	B & B	-	-
OR	NORTHERN RED OAK	QUERCUS RUBRA	2-2.5" CAL.	AS SHOWN	B & B	-	-
TA	AMERICAN BASSWOOD	TILIA AMERICANA	2-2.5" CAL.	AS SHOWN	B & B	-	-
PO	AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	2.5-3" CAL.	AS SHOWN	B & B	-	-
AR	RED MAPLE	ACER RUBRUM	2-2.5" CAL.	AS SHOWN	B & B	-	-
AS	SUGAR MAPLE	ACER SACCHARUM	2-2.5" CAL.	AS SHOWN	B & B	-	-
SA	WHITE WILLOW	SALIX ALBA	2.5-3" CAL.	AS SHOWN	B & B	-	-
QP	WILLOW OAK	QUERCUS PHELLOS	2.5-3" CAL.	AS SHOWN	B & B	-	-
QBB	SWAMP WHITE OAK	QUERCUS BICOLOR	2-2.5" CAL.	AS SHOWN	B & B	-	-

SMALL TREES							
AC	SHADBUSH	AMELANCHIER CANADENSIS	2-2.5" CAL.	AS SHOWN	B & B	-	-
CO	HACKBERRY	CELTIS OCCIDENTALIS	2-2.5" CAL.	AS SHOWN	B & B	-	-
NS	BLACK TUPELO	NYSSA SYLVATICA	2-2.5" CAL.	AS SHOWN	B & B	-	-
FP	GREEN ASH	FRAXINUS PENNSYLVANICA	2-2.5" CAL.	AS SHOWN	B & B	-	-

EVERGREEN TREES							
TC	EASTERN HEMLOCK	TSUGA CANADENSIS	5-6' HT.	AS SHOWN	B & B	-	-
IG	AMERICAN HOLLY	ILEX OPACA	6-7' HT.	AS SHOWN	B & B	-	-
JV	EASTERN RED CEDAR	JUNIPERUS VIRGINIANA	5-6' HT.	AS SHOWN	B & B	-	-
PS	EASTERN WHITE PINE	PINUS STROBUS	5-6' HT.	AS SHOWN	B & B	-	-

LARGE SHRUBS							
KL	MOUNTAIN LAUREL	KALMIA LATIFOLIA	2' HT.	AS SHOWN	3 GALLON CONTAINER	-	-
VD	ARROW-WOOD	VIBURNUM DENTATUM	3-4' HT.	AS SHOWN	B & B	-	-
CA	SWEET PEPPER BUSH	CLETHRA ALNIFOLIA	18-24" HT.	AS SHOWN	1 GALLON CONTAINER	-	-
IV	WINTERBERRY	ILEX VERTICILLATA	2-3' HT.	AS SHOWN	B & B	-	-

SMALL SHRUBS							
AA	RED CHOKEBERRY	ARONIA ARBUTIFOLIA	2-3' HT.	AS SHOWN	B & B	-	-
VA	MAPLE-LEAVED VIBURNUM	VIBURNUM ACERIFOLIUM	HT.	AS SHOWN	B & B	-	-
RV	SWAMP AZALEA	RHOODODENDRON VISCOSUM	HT.	AS SHOWN	B & B	-	-



**AND SHRUB PLANTING**

NOT TO SCALE

18

90% PHASE SUBMISSION

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES				
CONTRACTOR			PROJECT COORDINATOR	
NAME	SIGNATURE		NAME	SIGNATURE
TITLE	DATE		TITLE	DATE
WESTCHESTER COUNTY			NEW YORK	
DEPARTMENT OF PUBLIC WORKS				
DIVISION OF ENGINEERING				
PROJECT NUMBER	DRAWING NUMBER	WAPC JOB NO.	SHEET NO.	
03-519-G	L-2	200203-00	41 of 55	
SCALE: AS NOTED				
DATE: JANUARY 21, 2004				
ATHLETIC FIELD COMPLEX AT TIBBETTS BROOK PARK-NORTH			PLANT SCHEDULE & PLANTING DETAILS	
DRW DRAWING NUMBER	REVISION NUMBER		REVISION NUMBER	
00-000	0		0	

**WAP ASSOCIATES, P.C.**  
 LANDSCAPE ARCHITECTS  
 ARCHITECTS & ENGINEERS  
 1800 Lakeland Avenue  
 80Aemid, New York 11720  
 Phone (485) 863-4800  
 Fax (927) 563-4807

# WETLAND PLANT SCHEDULE

SYMBOL	COMMON NAME	BOTANICAL NAME	SIZE	SPACING	CONDITION	QTY.	ITEM NO.
<b>SHRUBS</b>							<b>450 TOTAL</b>
20	SWEET PEPPER BUSH	CLETHRA ALNIFOLIA	24-30 IN.	AS SHOWN	2 GALLON CONTAINER	30	-
21	WINTERBERRY	ILEX VERTICILLATA	30-36 IN.	AS SHOWN	2 GALLON CONTAINER	50	-
22	HIGHBUSH BLUEBERRY	MYRICA PENNSYLVANICA	24-30 IN.	AS SHOWN	2 GALLON CONTAINER	190	-
23	RED OSIER DOGWOOD	CORNUS SERICEA	24-30 IN.	AS SHOWN	2 GALLON CONTAINER	100	-
24	SILKY DOGWOOD	CORNUS AMOMUM	24-30 IN.	AS SHOWN	2 GALLON CONTAINER	50	-
<b>HERBACEOUS</b>							<b>1,470 TOTAL</b>
1	WOOL-GRASS	SCIRPUS CYPERINUS	N/A	AS SHOWN	PLUG	75	-
2	REED CANARY GRASS	PHALARIS ARUNDINACEA	N/A	AS SHOWN	PLUG	165	-
3	SWEETFLAG	ACORUS CALAMUS	N/A	AS SHOWN	PLUG	105	-
4	SOFT RUSH	JUNCUS EFFUSUS	N/A	AS SHOWN	PLUG	195	-
5	BUR-REED	SPARGANIUM AMERICANUM	N/A	AS SHOWN	PLUG	105	-
6	TUSSOCK SEDGE	CAREX STRICTA	N/A	AS SHOWN	PLUG	180	-
7	UMBRELLA SEDGE	CYPERUS STRIGOSUS	N/A	AS SHOWN	PLUG	105	-
8	BLUE VERVAIN	VERBANA HASTATA	N/A	AS SHOWN	PLUG	210	-
9	BLUE FLAG	IRIS VERSICOLOR	N/A	AS SHOWN	PLUG	150	-
10	MARSH FERN	THELYPTERIS PALUSTRIS	N/A	AS SHOWN	PLUG	90	-
11	SENSITIVE FERN	ONOCLEA SENSIBILIS	N/A	AS SHOWN	PLUG	75	-
12	ARROW-ARUM	PELTRANDBRA VIRGINICA	N/A	AS SHOWN	PLUG	15	-

GROUND COVER FOR WETLAND PLANTING AREAS SHALL BE A WETLAND DIVERSITY SEED MIX CONTAINING THE FOLLOWING SEEDS:

COMMON NAME	BOTANICAL NAME	PERCENTAGE
GREEN BULLRUSH	SCIRPUS ATROVIRENS	29.52%
SOFT RUSH	JUNCUS EFFUSUS	13.05%
MONKEY FLOWER	MIMULUS RINGENS	12.01%
FOX SEDGE	CAREX VULPINOIDEA	8.15%
DITCH STONE CROP	PENTHORUM SEDOIDES	7.83%
REED MEADOWGRASS	GLYCERIA GRANDIS	6.68%
WOOL GRASS	SCIRPUS CYPERINUS	5.22%
BLUE VERVAIN	VERBENA HASTATA	4.18%
BONESET	EPATORIUM PERFORLUTUM	2.09%
RICE CUT GRASS	LEERSIA ORYZOIDES	1.57%
COMMON SNEEZE WEED	HELENIUM AUTUMNALE	1.48%
CANADA MANNAGRASS	GLYCERIA CANADENSIS	1.36%
JOE PYE WEED	EUPATORIUM MACULATUM	0.86%
NEW ENGLAND ASTER	ASTER NOVAE-ANGLIAE	0.73%
WATER PLANTAIN	ALISMA PLANTAGO-AQUATICA	0.52%
GRASS-LEAVED GOLDENROD	EUTHAMIA GRAMMIFOLIA	0.47%
WRINKLED GOLDENROD	SOLIDAGO RUGOSA	0.47%
STRAW COLORED FLATSEED	CYPERUS STRIGOSUS	0.47%
PURPLE STEMMED ASTER	ASTER PUNICEUS	0.42%
BURTONBUSH	CEPHALANTHUS OCCIDENTALIS	0.38%
SOFT STEM BULLRUSH	SCIRPUS VALIDUS	0.36%
FLAT-TOP ASTER	ASTER UNBELLATUS	0.35%
BRISTLY SEDGE	CAREX COMOSA	0.31%
FRINGED SEDGE	CAREX CRINITA	0.26%
GIANT GOLDENROD	SOLIDAGO GIGANTEA	0.24%
DEERTONGUE	PANICUM CLANDESTINUM	0.24%
NODDING BURMARIGOLD	BIDENS CERNUA	0.22%
WATER PARSNIP	SILVA SLAVE	0.21%
SMALL FRUITED BULLRUSH	SCIRPUS MICROCARPUS	0.18%
WATER HEMLOCK	CICUTA MACULATA	0.15%
WILD RYE	ELYMUS CANADENSIS	0.10%
DEVIL'S BEGGAR TICK	BIDENS FRONDOSA	0.08%
PURPLE STEM ANGELICA	ANGELICA ATROPURPUREA	0.08%
WATER DOCK	RUMEX VERTICILLATUS	0.05%
LURID SEDGE	CAREX LURIDA	0.05%
PENNSYLVANIA SMARTWEED	POLYGONUM PENNSYLVANICA	0.04%
SWAMP MILKWEED	ASCLEPIUS INCARNATA	0.04%
HOPSEDE	CAREX LUPULINA	0.02%
BLUE FLAG	IRIS VERSICOLOR	0.01%

NORTHERN AREAS SHALL RECEIVE A TOTAL OF 10 LBS. OF SEED MIX. SOUTHERN AREAS (SOUTH OF POOL BUILDING) SHALL RECEIVE A TOTAL OF 4 LBS. OF SEED MIX. (1+ LBS. TOTAL WETLAND DIVERSITY SEED MIX) ALL DISTURBED AREAS SHALL RECEIVE 1/2" MIN. STRAW MULCH- 100 CY.

GROUND COVER FOR NON-WETLAND PLANTING AREAS SHALL BE A NON-WETLAND GRASS SEED AND WILDFLOWER MIX CONTAINING THE FOLLOWING SEEDS:

COMMON NAME	BOTANICAL NAME	PERCENTAGE
<b>GRASSES</b>		
RED TOP	AGOSTIS ALBA	60.8%
RED FESCUE	FESTUCA RUBRA	27.5%
ANNUAL RYEGRASS	LOLIUM MULTIFLORUM	11.7%
<b>WILDFLOWERS</b>		
COMMON YARROW	ACHILLEA MILLEFOLIUM	46.9%
BLACK-EYED SUSAN	RUBICEKIA HIRTA	27.4%
OX-EYED DAISY	CHRYSANTHEMUM LEUCANTHEM	11.2%
NEW ENGLAND ASTER	ASTER-NOVAE ANGLIAE	10.2%
PENNSYLVANIA SMARTWEED	POLYGONUM PENNSYLVANICUM	4.3%

NORTHERN AREAS SHALL RECEIVE A TOTAL OF 30 LBS. OF SEED MIX. SOUTHERN AREAS (SOUTH OF POOL BUILDING) SHALL RECEIVE A TOTAL OF 15 LBS. OF SEED MIX. (45 LBS. TOTAL GRASS & WILDFLOWER SEED) ALL DISTURBED AREAS SHALL RECEIVE 1/2" MIN. STRAW MULCH- 30 CY.

## GENERAL NOTES FOR LAYOUT, GRADING & PLANTING OF WETLAND MITIGATION

INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON DRAWING OF GRADING OPERATIONS. MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES ESTABLISHED AND ALL AREAS ARE STABILIZED. REFER TO DRAWING 7 AND PLAN FOR ADDITIONAL REQUIREMENTS.

MARK OUT ALL UNDERGROUND UTILITIES PRIOR TO COMMENCEMENT OF GRAV DRAWINGS 9 & 10.

MARK OUT PERIMETER OF WETLAND MITIGATION AREAS FOR APPROVAL OF U OF WORK. INSTALL TEMPORARY FENCE TO KEEP PUBLIC OUT OF WORK AREA.

THE CONTRACTOR SHALL CHECK ALL WETLAND BOUNDARIES FOR WETLAND PHASE. WHEREVER FLAGS HAVE BEEN REMOVED OR ARE MISSING, WETLAND AND FLAGGED BY A NYS CERTIFIED WETLANDS SCIENTIST EMPLOYED BY THE ORIGINALLY MARKED DURING THE SPRING AND SUMMER OF 2003 BY PAUL CONSULTING (203-438-9993). EXISTING WETLAND AREAS SHALL MAINTAIN THROUGHOUT THE CONSTRUCTION PROCESS.

STRIP EXISTING TOPSOIL IN ALL AREAS TO BE GRADED AND STOCKPILE FOR IS 4-6" OF TOPSOIL PRESENT IN THE WETLAND MITIGATION AREAS.

ROUGH GRADE AREAS, BEGINNING WITH AREAS CLOSEST TO THE BROOK AND THE PARK. AS IS PRACTICAL, SUSPEND EXCAVATION AND GRADING OPERATIONS WHEN THE GROUND SURFACE IS SATURATED. RESUME WORK WHEN GROUND DRY AND STABLE.

STABILIZE TOPSOIL STOCKPILES AND INSTALL SEDIMENT AND EROSION CONTROL STOCKPILE TO CONTROL EROSION AND SEDIMENT AT ALL TIMES.

GRADE AREAS FOR WETLAND PLANTING AS SHOWN ON THE GRADING PLANS. HYDROLOGIC CONDITIONS, THE FINISHED GRADE OF THE WETLAND PLANTING TO THE AVERAGE GROUND WATER TABLE. ADJUSTMENTS MAY BE NECESSARY PROPER GRADES. THE FINAL GRADES SHALL BE APPROVED BY THE LANDS SPREADING OF TOPSOIL.

REMOVE MAN-MADE DEBRIS, ROOTS, AND STUMPS IN PLANTING AREA. REMOVED SO THAT THE TOTAL COVERAGE OF BOULDERS AND STONES ON TOP NOT EXCEED 10%.

ONCE FINAL SUBGRADE IS COMPLETED AND APPROVED, AMEND TOPSOIL MIX AND RESPREAD OVER WETLAND MITIGATION AND WETLAND BUFFER AREAS.

PLUGS AND PLUG PLANTS SHALL BE INSTALLED BETWEEN APRIL 1 TO JUNE 15, WITH PROMOTION TO EXTEND TO OCTOBER 31 IF WEATHER WARRANTS. EXCAVATION AND GRADING WORK ACCORDINGLY TO AVOID LEAVING AREAS OPEN.

PLANTS SHALL BE INSTALLED AS DEPICTED ON THE PLANTING PLANS. LIMIT OF PLANTS SHALL BE MARKED FOR THE APPROVAL OF THE LANDSCAPE ARCHITECT.

HOLES FOR SHRUB PLANTINGS SHALL BE EXCAVATED SO AS TO HAVE 12" ABOVE AND BELOW ROOT SYSTEM. THE SOIL IN THE BOTTOM OF THE HOLE SHALL BE TOPSOIL MIX TO GRADE.

A RIDGE OF SOIL SHALL 3-4" SHALL BE CONSTRUCTED AROUND EACH SHRUB FORM A SAUCER.

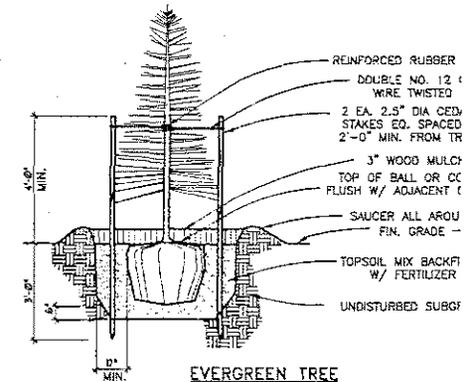
ALL PLANTS SHALL BE THOROUGHLY WATERED ON THE DAY OF PLANTING AND ALL REMAINING DISTURBED AREAS IN WETLAND AND WETLAND BUFFER AREA DEBRIS, AND RAKED SMOOTH FOR INSTALLATION OF GROUNDCOVERS.

WETLAND MITIGATION AREAS AS SHOWN ON THE PLANTING PLAN AND FINE F SURFACE. INSTALL GRASS SEED & WILDFLOWER MIX IN WETLAND BUFFER 1 PLAN AND FINE BARE APPROXIMATELY 1" INTO SOIL SURFACE. SPREAD 1/2" EXPOSED SOIL AREAS AND PUNCH MULCH INTO SOIL SURFACE.

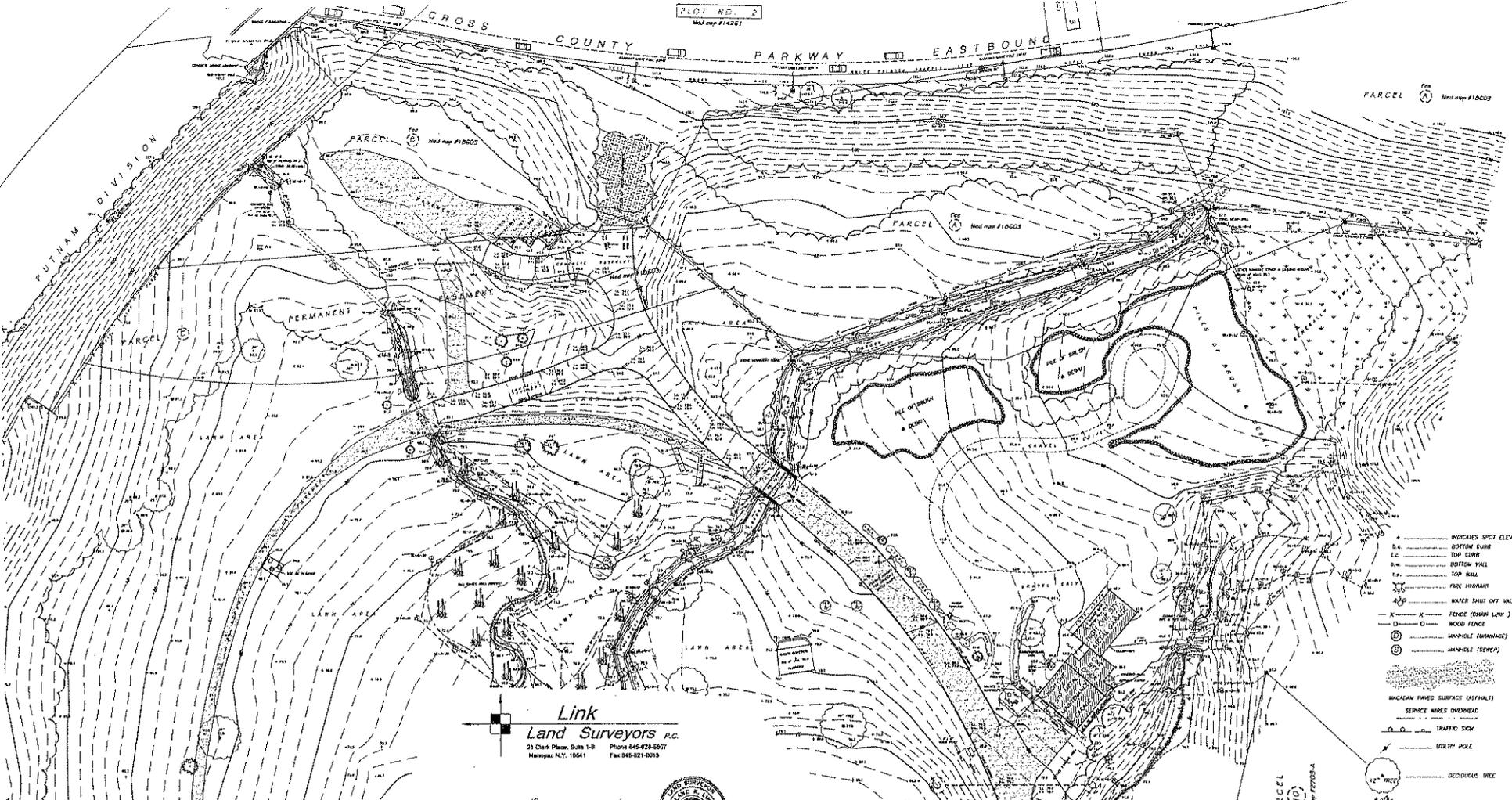
WATER ALL PLANTINGS DAILY FOR TWO WEEKS AFTER PLANTING AS REQUIRE RESPONSIBLE FOR WATERING ALL PLANTINGS FOR A PERIOD OF ONE YEAR, DRY PERIODS THAT EXCEED THREE WEEKS WITHOUT SUBSTANTIAL RAIN.

TEMPORARY CONSTRUCTION FENCING SHALL BE LEFT IN PLACE AROUND ALL PLANT GROWTH IS FIRMLY ESTABLISHED.

CONTRACTOR SHALL MONITOR PLANT GROWTH, REMOVE DEAD BRANCHES AND REQUIRED, AND KEEP NATURAL SHAPE OF PLANTS FOR A PERIOD OF ONE YEAR. WETLAND MITIGATION AREAS. GROUNDCOVER AREAS SHALL BE KEPT FREE OF INVASIVE PERIOD OF PLANT ESTABLISHMENT.



1 TREE AND SHRUB PLANTING  
41



**Link**  
**Land Surveyors P.C.**  
 21 Dark Place, Suite 1-8 Phone 945-628-8967  
 Mahwah N.Y. 10941 Fax 945-621-0013

*Roland K. Link*  
**ROLAND K. LINK**  
 NEW YORK STATE LICENSED  
 LAND SURVEYOR NO. 044226



- INDICATES SPOT ELEVATION
- o.c. BOTTOM CURVE
- t.c. TOP CURVE
- b.w. BOTTOM WALL
- t.w. TOP WALL
- FENCE
- FENCE (CHAIN LINK)
- WOOD FENCE
- MANHOLE (SEWERAGE)
- MANHOLE (SEWER)
- MANHOLE PAVED SURFACE (ASPHALT)
- SERVICE WIRES OVERHEAD
- TRAFFIC SIGN
- UTILITY POLE
- DECIDUOUS TREE
- EVERGREEN TREE

**TOPOGRAPHIC SURVEY OF PROPERTY**  
**TIBBETTS BROOK PARK NORTH**  
 DEPARTMENT OF PARKS, RECREATION, AND CONSERVATION  
 SITUATE IN THE  
**CITY of YONKERS**  
 WESTCHESTER COUNTY  
 NEW YORK

SCALE: 1" = 40'  
 SURVEYED: APRIL 16, 2003  
 ADDITIONAL TOPOGRAPHY LOCATED SEPT. 2, 2003

- WETLAND FLAGGING BY PAUL J. JARWIG - WETLAND AND SOIL CORRECTING, MAY 23, 2003. WETLAND FLAGS LOCATED BY THE OFFICE OF LINK LAND SURVEYORS COMPLETED JUNE 4, 2003. ADDITIONAL WETLAND FLAGS LOCATED SEPTEMBER 12, 2003.
- ELEVATIONS SHOWN HEREON REFERS DATUM OBTAINED FROM THE WESTCHESTER COUNTY DEPARTMENT OF PUBLIC WORKS.
- ENCROACHMENTS BELOW GRADE AND/OR SUBSURFACE FEATURES, IF ANY, NOT LOCATED OR SHOWN HEREON.
- UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7206, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAWS.
- ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S SEAL SHALL BE CONSIDERED TO BE TRUE YALD COPIES.
- THE LOCATION OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON ABOVE SHOWN STRUCTURES ONLY. LOCATION OF UNDERGROUND UTILITY STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BORED UTILITIES STRUCTURES MAY BE ENCOUNTERED. NO ESCAVATION WORKS MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BORED UTILITIES BEFORE EXCAVATION IS TO BE DONE. CONTRACTOR SHALL CALL GDDDE 95 (1-800-248-2878).

NO.	DATE	DESCRIPTION	BY
1	9/26/03	ADDITIONAL TOPO & WETLAND FLAGS	E.A.

DRAWN BY: E.J.L.	DATE: 6/04/03
CHECKED BY: R.K.L.	WETLAND FLAG LOCATION DRAWING NAME:
JOB NO.: 4486	SHEET 1 OF 1



**WAR**  
**WARD ASSOCIATES P.C.**  
 LANDSCAPE ARCHITECTS  
 ARCHITECTS, INCORPORATED  
 1800 Colchester Avenue  
 Bohemia, New York 11716  
 Phone (631) 848-0229  
 Fax (631) 848-8881

WESTCHESTER COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING		NEW YORK
PROJECT NUMBER	DRAWING NUMBER	DATE
	CA	
SCALE: P.L.P.	DRAWN BY	CHECKED BY

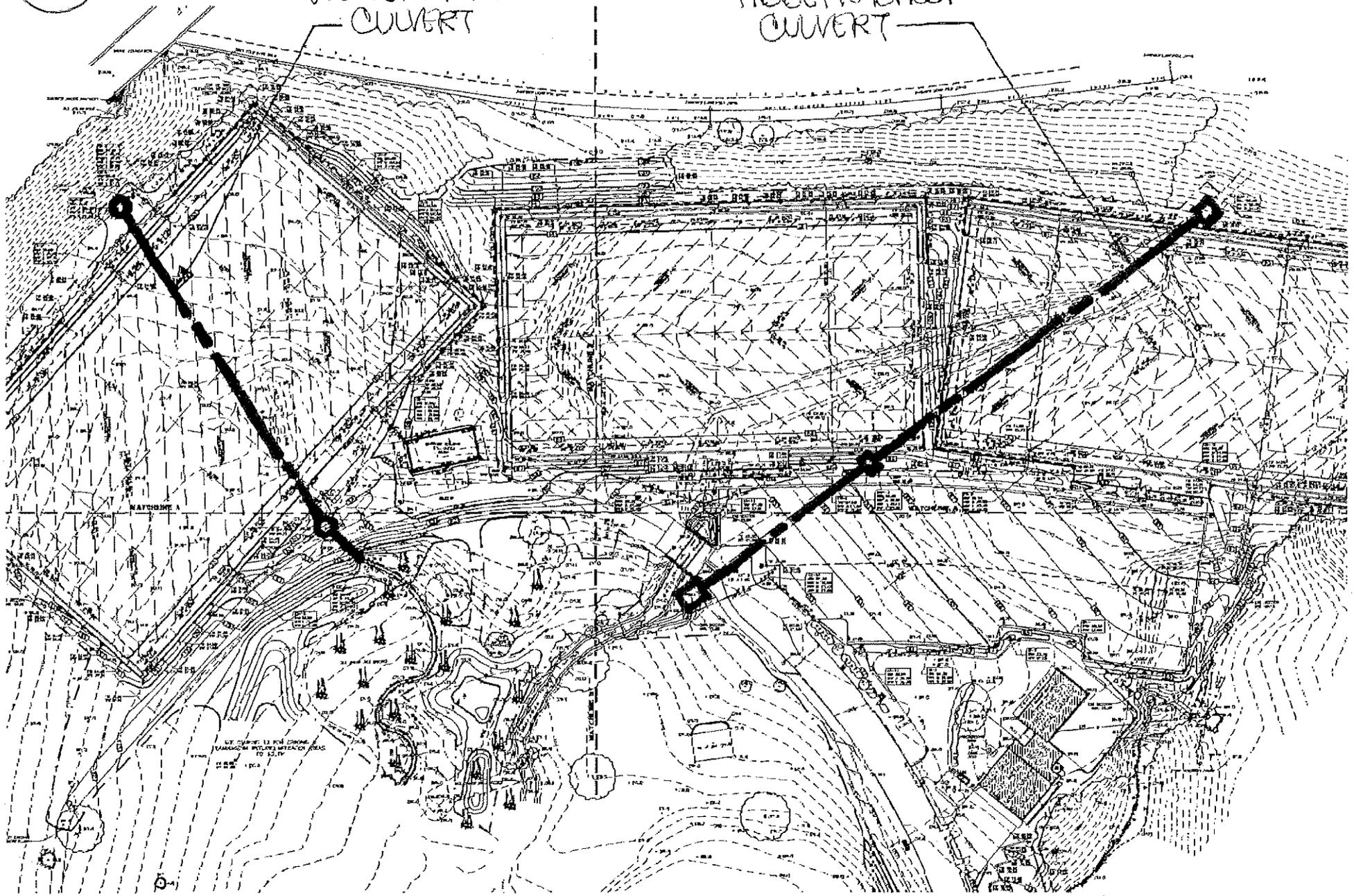
20

2

SCALE: 1" = 100'-0"

WESTERLY BROOK  
CULVERT

TIBBETTS BROOK  
CULVERT



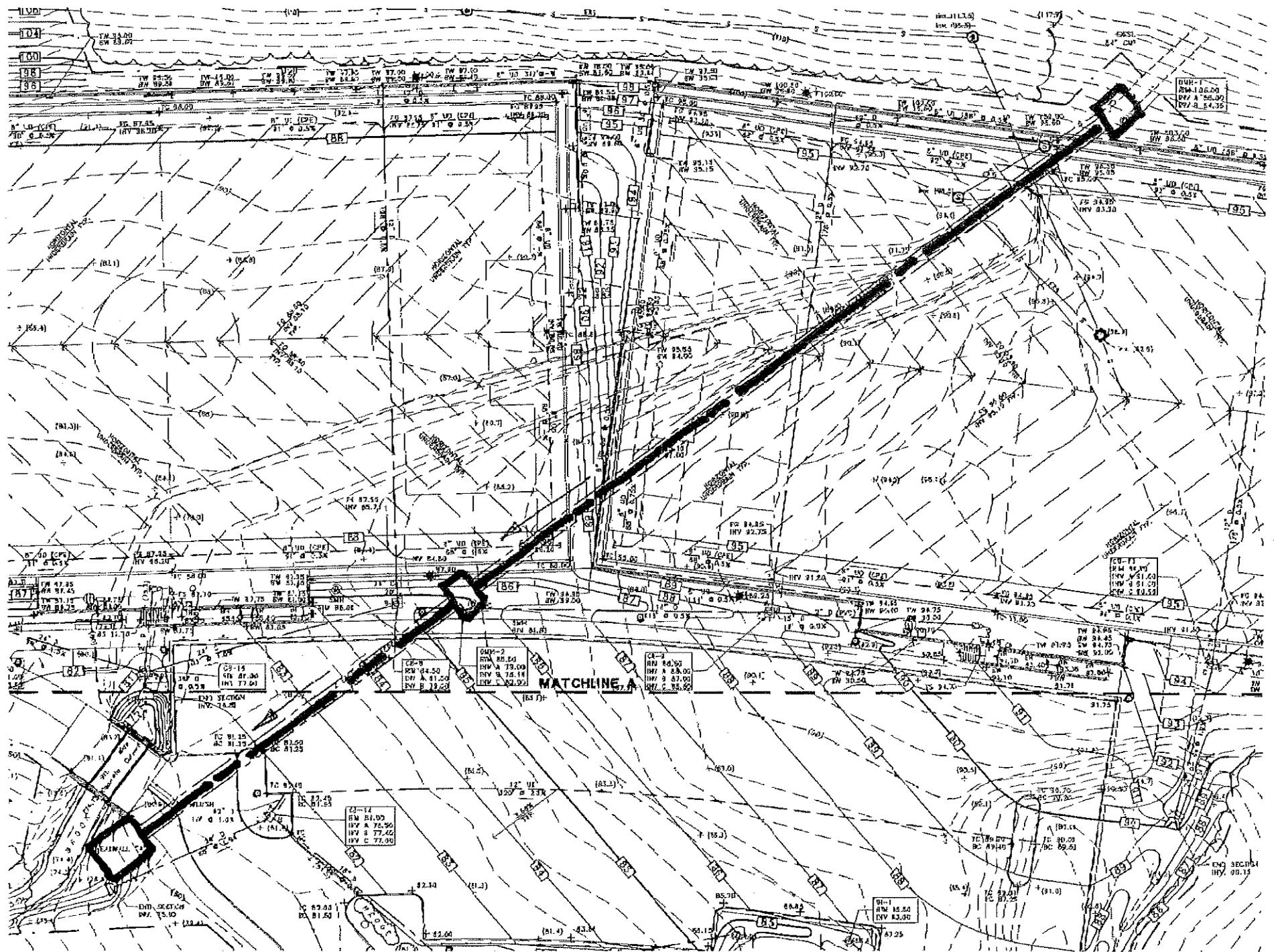
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P.2

# TIBBETTS BROOK CULVERT (2)

SCALE: 1" = 50'-0"

22



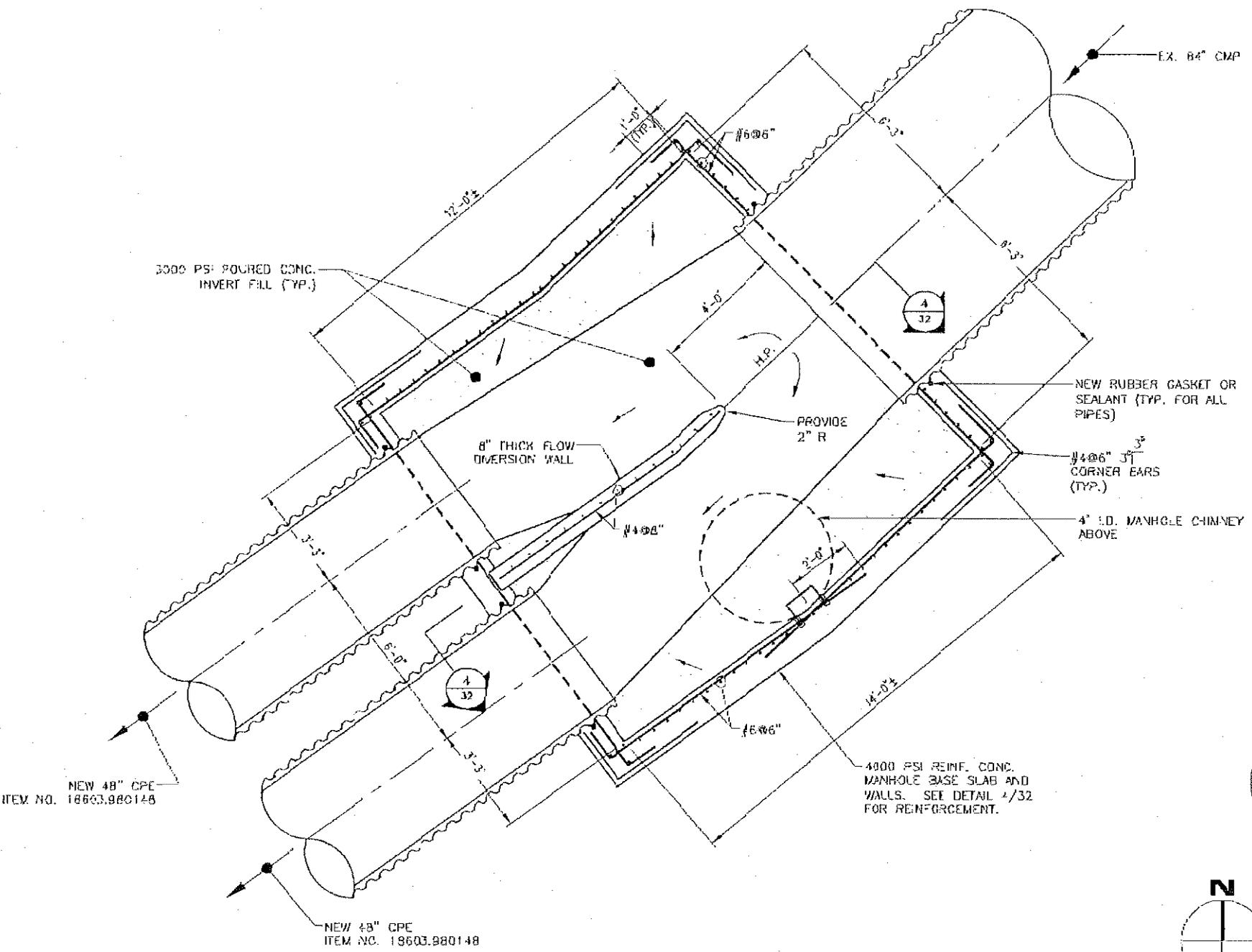
SEP 17 04 12:23P

P. 3

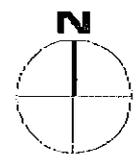








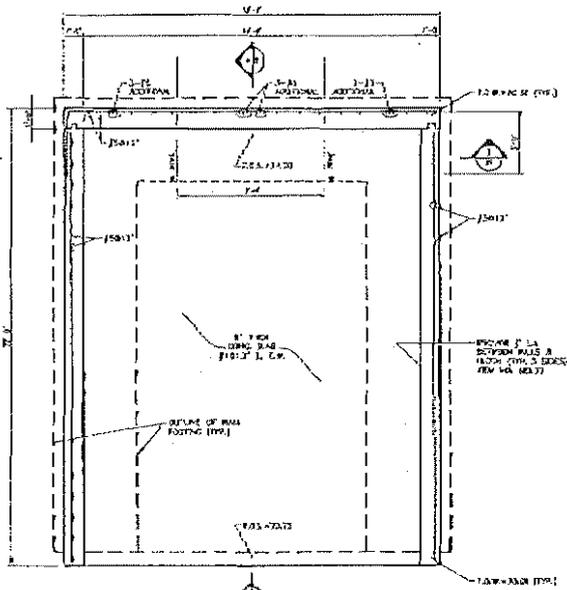
26



1

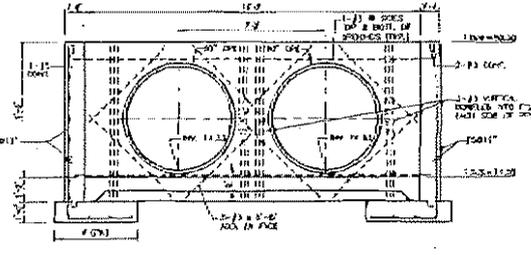
# DMH-1 - PLAN BELOW TRANSITION SLAB





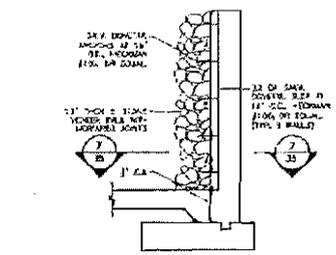
**2**  
35  
PLAN OF HEADWALL "A"  
STRUCTURE @ TIBBETTS BROOK  
REV NO. 00377  
A1" = 1'-0"

- NOTES:  
1. PROVIDE A 1" DIA. STEEL ANCHOR BOLT WITH SWAGED POINT, MOUNTED 2" IN EDGE OF FACE OF CONCRETE TO HEADWALL (SEE 3) AND 2" FROM FACE OF CURB.  
2. PROVIDE CONCRETE BESS AND ANCHORS (NOT SHOWN) AT PREL. SETBACK EYES AND 1/2".  
3. PROVIDE PROPERLY ANCHORED BOLLERS IN THE HEADWALL TO BE INSTALLED AS DIRECTED BY THE ENGINEER. SEE DETAILS 1/2" AND 3/4".

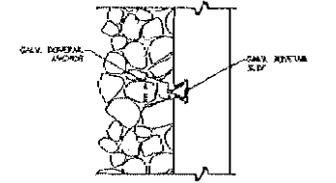


**3**  
35  
SECTION @ HEADWALL "A"  
REV NO. 00377  
A1" = 1'-0"

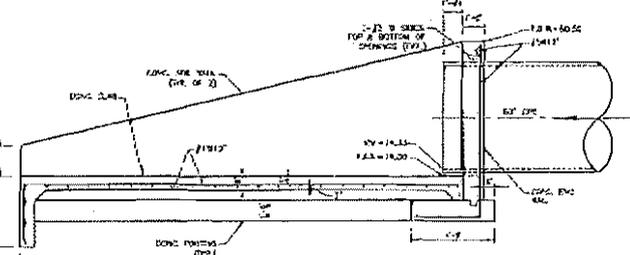
- NOTES:  
1. STEEL BOLT 1" DIA. WITH SWAGED POINT.



**6**  
35  
SECTION @ STONE  
VENEER WALL  
REV NO. 00377  
1/2" = 1'-0"

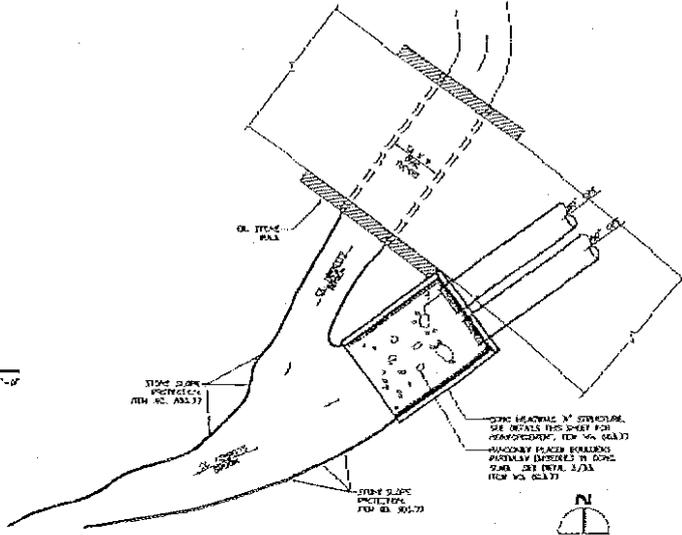


**7**  
35  
PLAN @ DOVETAIL  
ANCHOR  
REV NO. 00377  
1" = 1'-0"

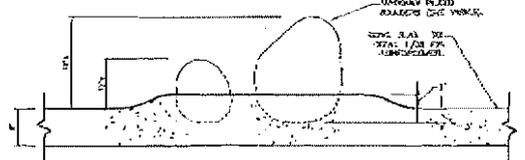


**4**  
35  
SECTION @ HEADWALL "A"  
REV NO. 00377  
A1" = 1'-0"

- NOTES:  
1. STEEL BOLT 1" DIA. WITH SWAGED POINT.



**1**  
35  
PART PLAN OF NEW HEADWALL "A"  
STRUCTURE @ TIBBETTS BROOK  
REV NO. 00377  
1" = 10'

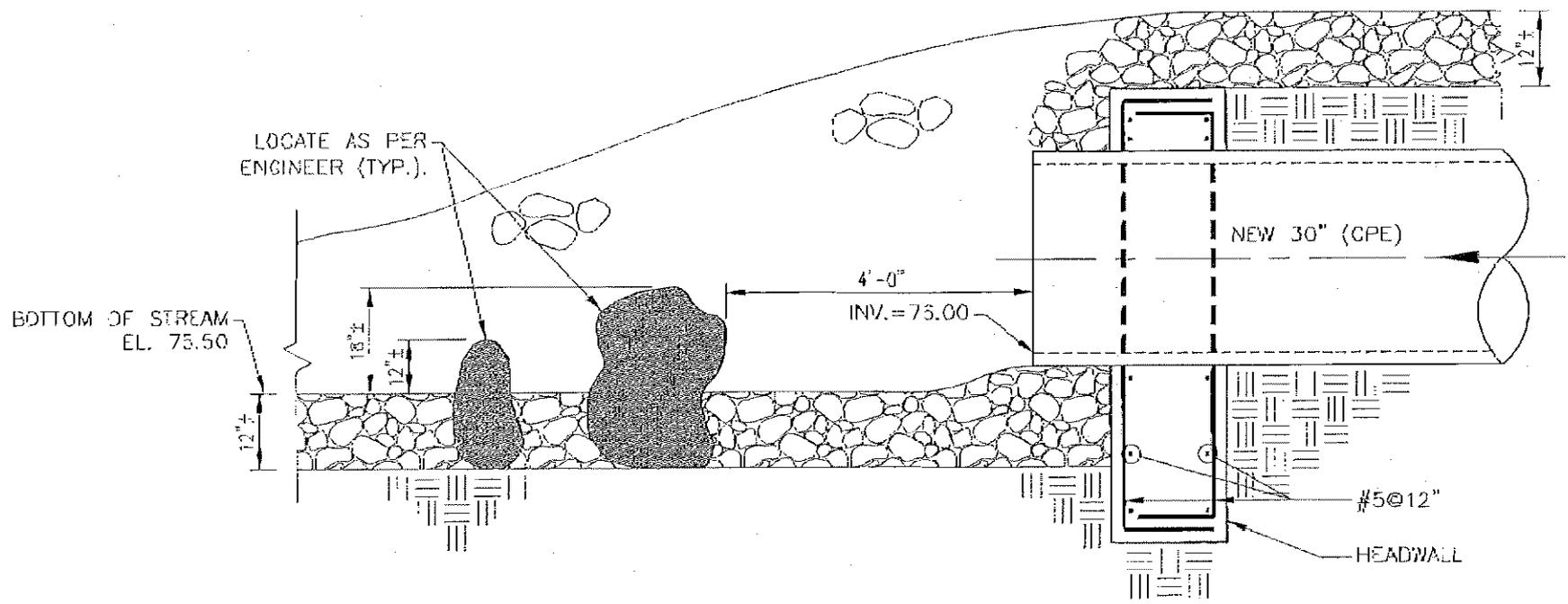


**5**  
35  
TYP. INSTALLATION OF EMBEDDED BOULDERS  
REV NO. 00377  
1" = 1'-0"

NO.	DATE	BY	CHKD.	REVISED
RECORD DRAWING CERTIFICATION				
DRAWN BY: [ ]				
CHECKED BY: [ ]				
DATE: [ ]				
PROJECT COORDINATOR: [ ]				
COMMISSIONER: [ ]				
DIVISION: [ ]				
SCALE: 3/8" = 1'-0"				
PROJECT NO.: [ ]				
SHEET NO.: [ ]				
TOTAL SHEETS: [ ]				
DRAWN BY: [ ]				
CHECKED BY: [ ]				
DATE: [ ]				

29

SEP 17 04 01:30P



SECTION OF BOULDER  
 INSTALLATION AT HEADWALL "B"

5  
 36

ITEM NO. 603.78

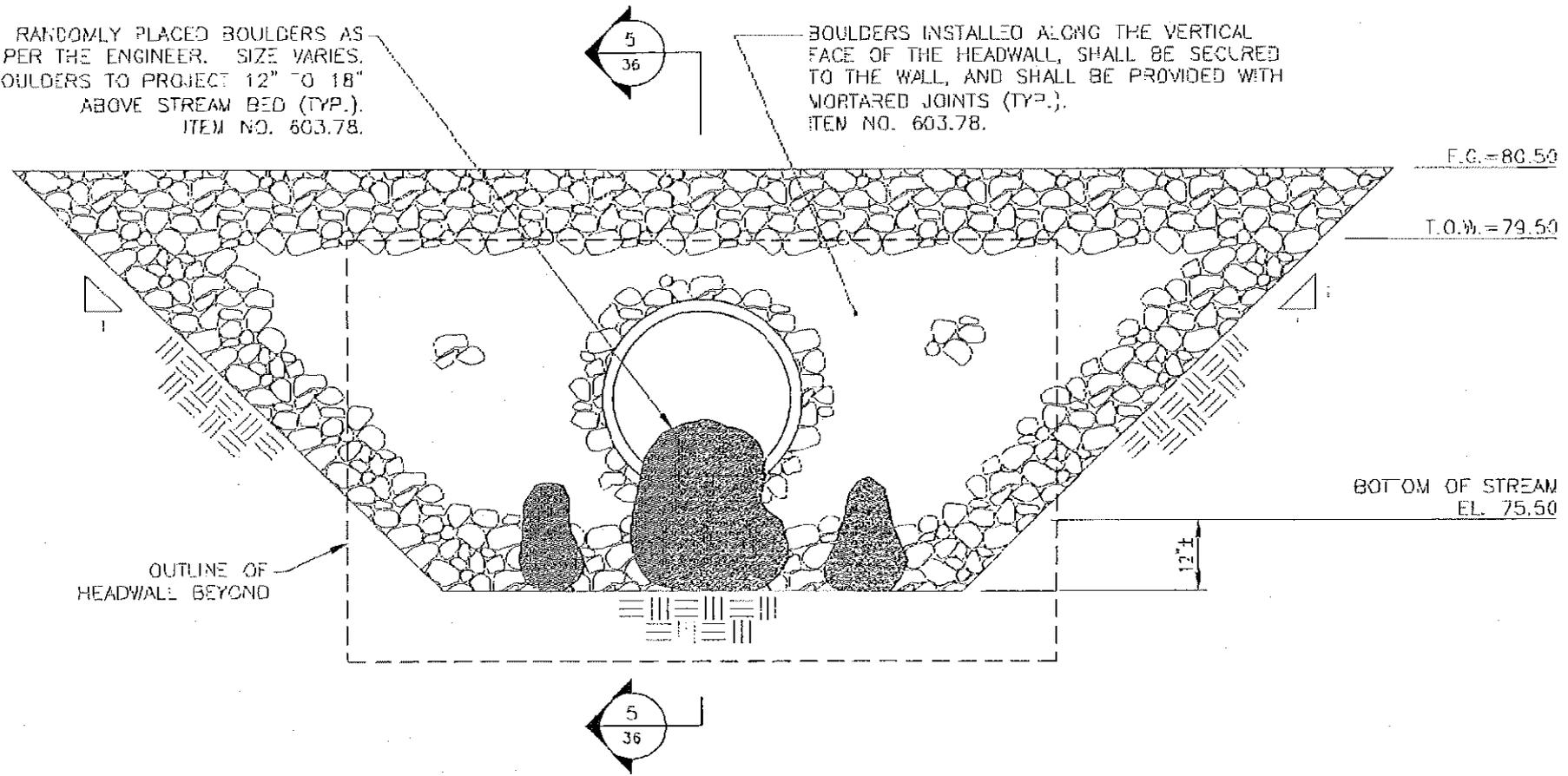
1/2" = 1'-0"

30

SEP 17 04 01:30P

RANDOMLY PLACED BOULDERS AS PER THE ENGINEER. SIZE VARIES. BOULDERS TO PROJECT 12" TO 18" ABOVE STREAM BED (TYP.). ITEM NO. 603.78.

BOULDERS INSTALLED ALONG THE VERTICAL FACE OF THE HEADWALL, SHALL BE SECURED TO THE WALL, AND SHALL BE PROVIDED WITH MORTARED JOINTS (TYP.). ITEM NO. 603.78.



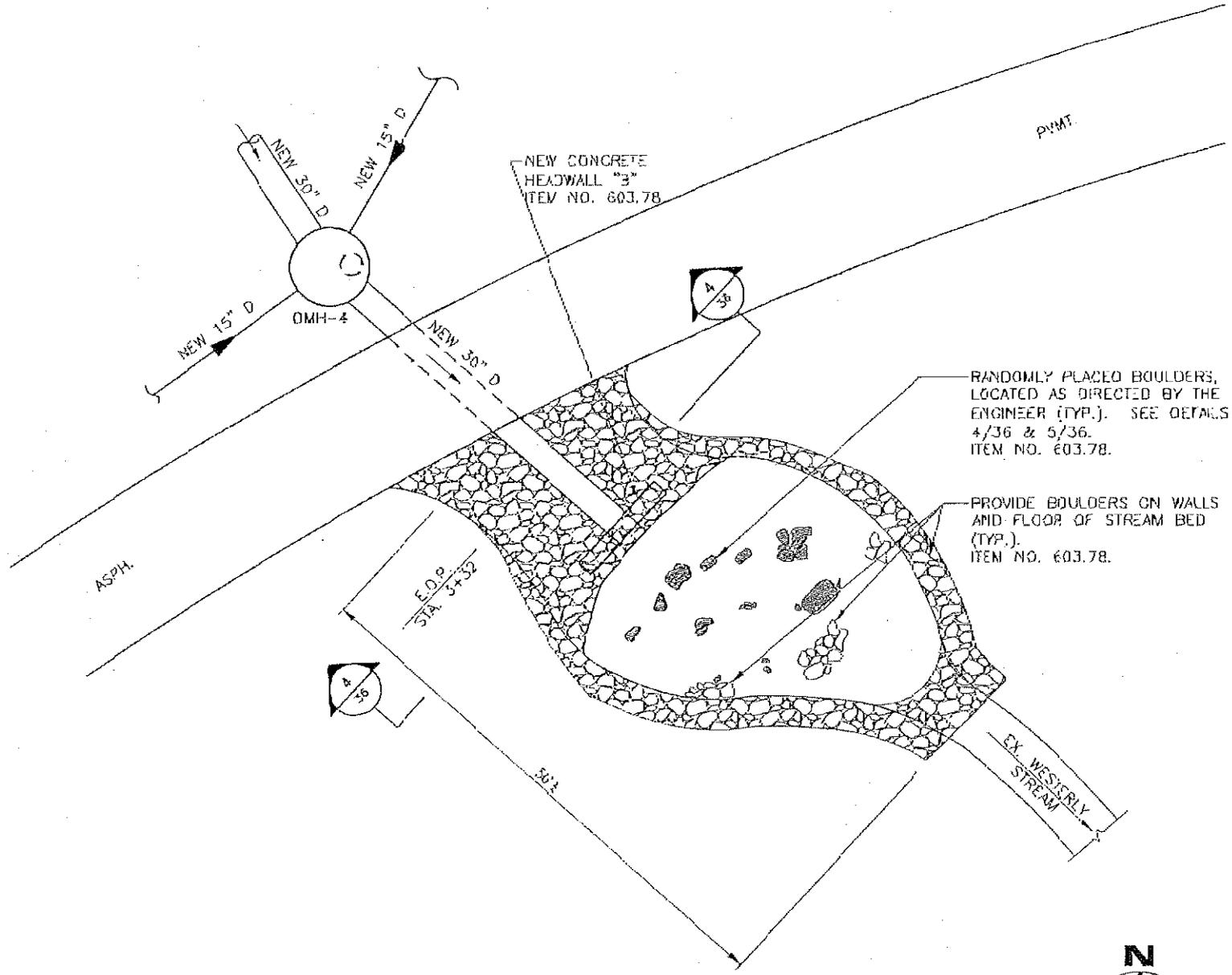
# ELEVATION OF BOULDER INSTALLATION AT HEADWALL "B"

4  
36

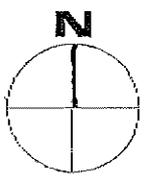
ITEM NO. 603.78

31

SEP 17 04 01:30P



PLAN OF NEW HEADWALL "B"  
 STRUCTURE @ WESTERLY STREAM



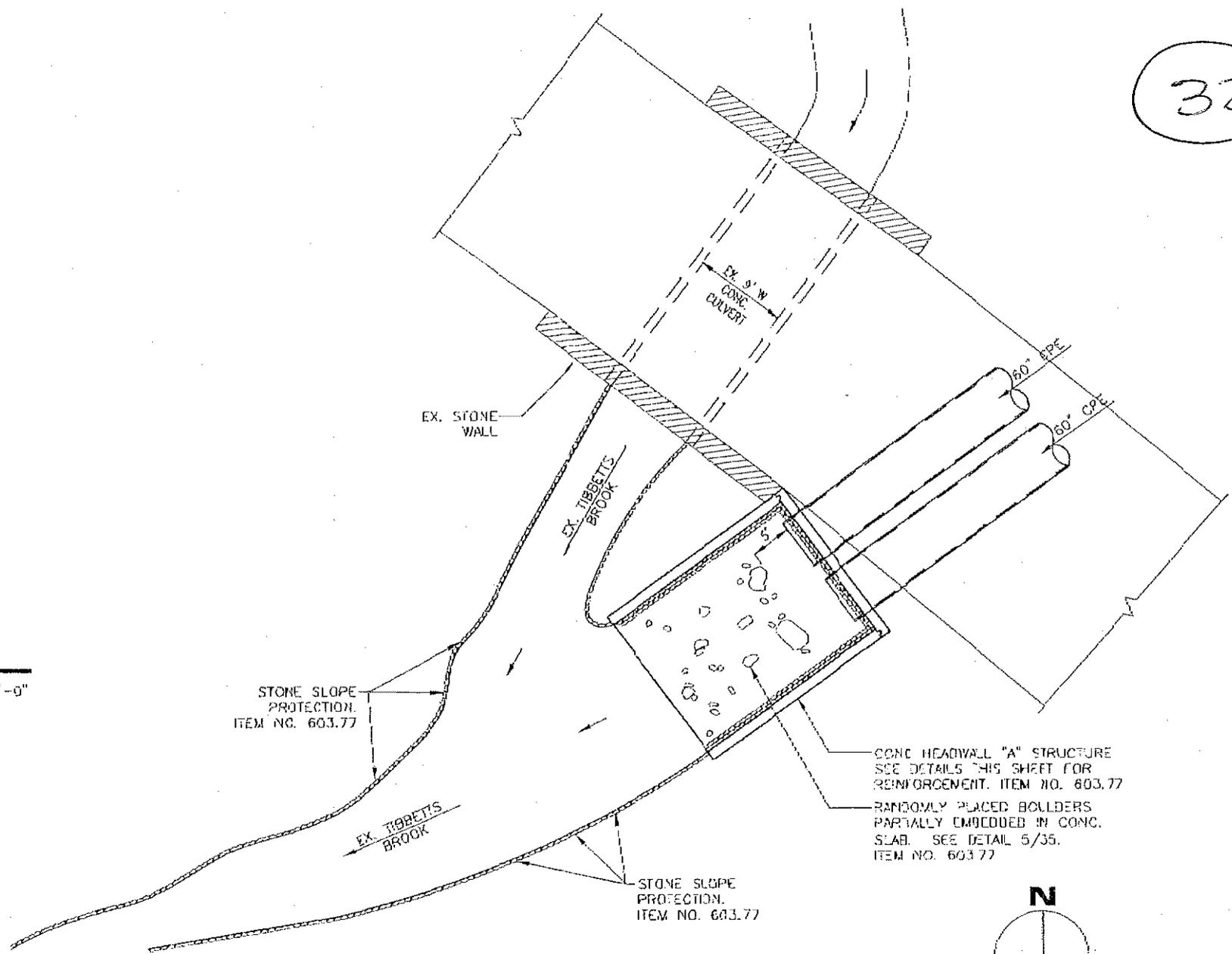
1  
 ZC

ITEM NO. 603.78

1" = 10'

32

1" = 1'-0"



# PART PLAN OF NEW HEADWALL "A" STRUCTURE @ TIBBETTS BROOK

1