



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

March 26, 2009

Mr. Bill Biddlecome
U.S. Army Corps of Engineers
Regulatory Field Office
Post Office Box 1000
Washington, NC 27889-1000

Mr. Jim Hoadley
Division of Coastal Management
N. C. Dept. of Env. & Natural Resources
1367 U. S. Highway 17
Elizabeth City, NC 27909

Dear Sirs,

Subject: **Revised Design** for the replacement of Bridge #14 over the Cashie River on US 17 in Bertie County, in Windsor. State Project No. 8.1010801. Federal Aid Project Number BRNHS-17(35). WBS 33700.1.1. TIP No. B-4434.

References: NW 23, 33, and CAMA Major Development Permit Application dated November 25, 2008
USACE Action ID SAW-2003-10021 issued December 18, 2008

The purpose of this letter is to provide plans and information for utility and hydraulic revisions. These revisions will not result in a change to the proposed impacts. Please see the attached plans for the changes described below.

Utility Revisions

Project Limits (from US-17/NC-308 intersection to ¼ mile southeast of this intersection)

Utility Owners:

Power (Town of Windsor)

Telephone/Communication (Embarq Telephone Company)

Sanitary Sewer (Town of Windsor)

Power:

Existing overhead power lines located adjacent to bridge (along southwest side) have been recently relocated (further away from bridge) to new power poles with overhead lines that cross above Cashie River southwest of bridge and run between four new poles.

Telephone:

Existing overhead telephone/communication lines and poles located adjacent to bridge (northeast side) and along NC-308 (northeast side) throughout project limits will be removed.

Proposed telephone/communication lines will be relocated underground (installed by open trench) along southwest side of NC-308 (inside existing ROW) throughout project limits except under Cashie River (60' southwest of bridge) where a directional bore will be used to install underground cable (inside proposed PUE).

Sanitary Sewer:

Existing 8" sanitary sewer line attached to bridge (along north east side) crossing over Cashie River will be removed. A new 10" sewer line installed along US-17 Bypass (West Water Street) will transmit sewage to Town's treatment plant without crossing Cashie River.

Hydraulic Revisions

During the design process the approach slab was revised. This moved the location of the sag in the radius of the curb at the Y-line intersection. Also, some utilities were called to be abandoned. This provided Hydraulics with the need and the capability to eliminate the ponding associated with the sag in the radius. An additional box was added and connected to the catch basin at the outlet of the system. No change should be experienced at the outlet from the previous design.

Regulatory Approvals

CAMA: NCDOT requests that the proposed work be authorized under a Coastal Area Management Act Major Development Permit. Authorization to debit the \$400 Permit Application Fee from WBS Element 33700.1.1 was provided with the original application.

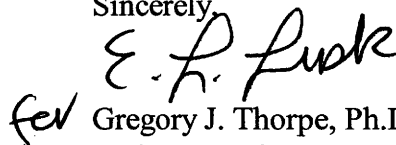
Section 404 Permit: NCDOT is not requesting a modification to the referred 404 permit.

Section 401 Permit: We anticipate 401 General Certification numbers 3701 and 3688 will apply to this project. All general conditions of the Water Quality Certification will be met. Therefore, NCDOT is not requesting written concurrence. NCDOT is providing two copies of this revision to the NCDWQ, for their review.

A copy of this revised permit application will be posted on the NCDOT website at:
<http://www.ncdot.org/doh/preconstruct/pe/neu/permit.html>

If you have any questions or need additional information, please call Mr. Chris Manley, at 919-715-1487.

Sincerely,



Gregory J. Thorpe, Ph.D. Environmental Management Director
Project Development and Environmental Analysis Branch

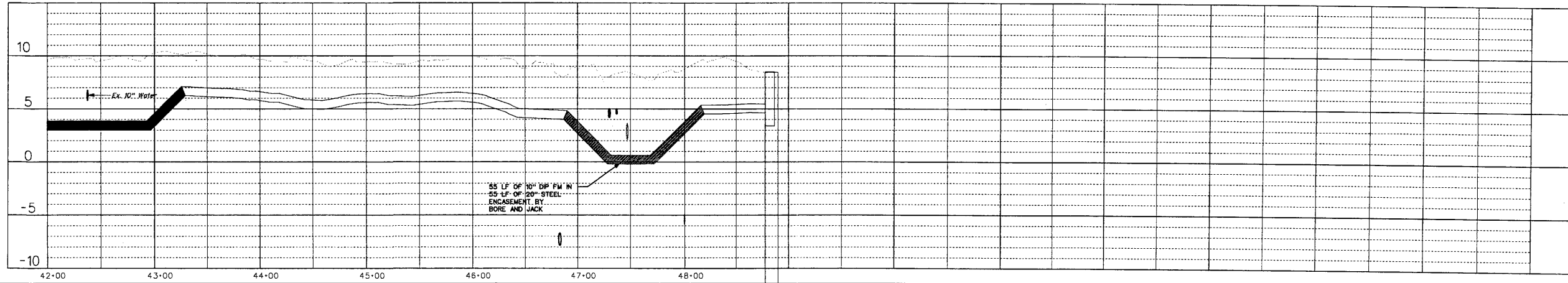
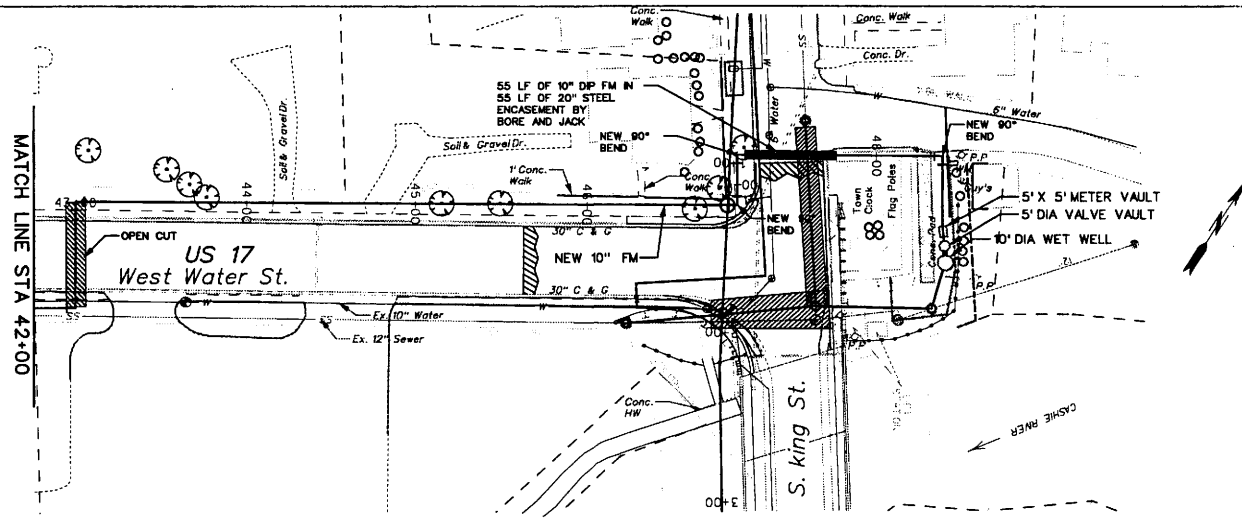
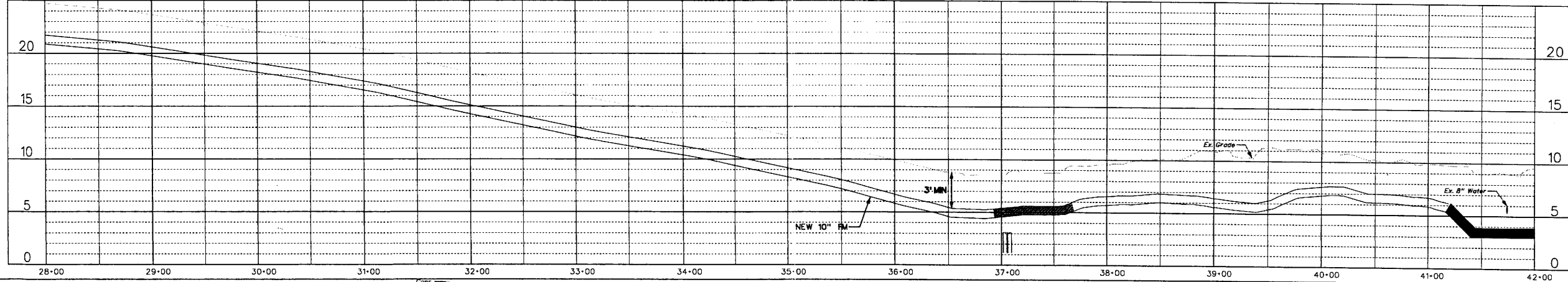
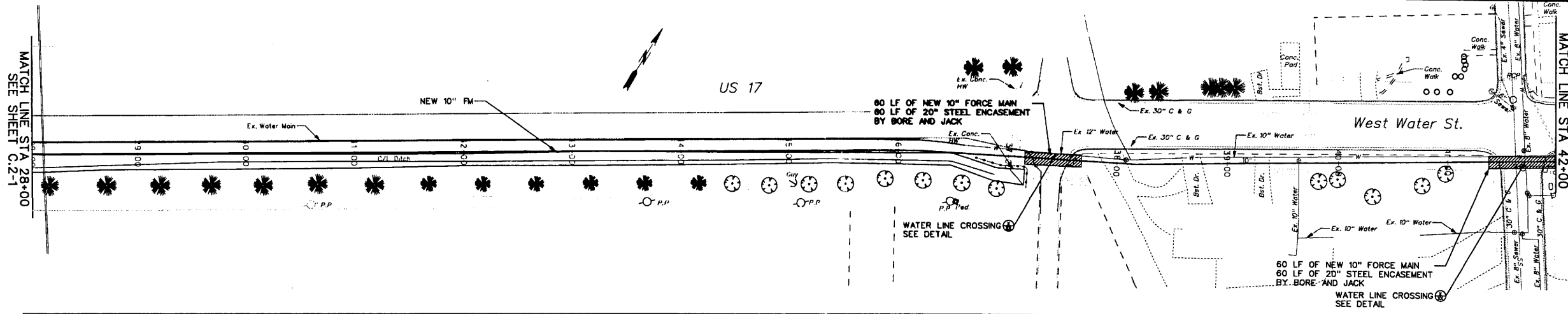
cc List:

W/attachment

Mr. Brian Wrenn, NCDWQ (2 Copies)
Ms. Cathy Brittingham, NCDCM

W/o attachment (see website for attachments)

Mr. Scott McLendon, USACE, Wilmington
Mr. Travis Wilson, NCWRC
Mr. Gary Jordan, USFWS
Mr. Ron Sechler, NMFS
Ms. Anne Deaton, NCDMF
Dr. David Chang, P.E., Hydraulics
Mr. Greg Perfetti, P.E., Structure Design
Mr. Mark Staley, Roadside Environmental
Mr. Victor Barbour, P.E., Project Services Unit
Mr. Anthony Roper, P.E., Division 1 Engineer
Mr. Clay Willis, Division 1 Environmental Officer
Mr. Jay Bennett, P.E., Roadway Design
Mr. Majed Alghandour, P. E., Programming and TIP
Mr. Art McMillan, P.E., Highway Design
Ms. Beth Harmon, EEP
Mr. Todd Jones, NCDOT External Audit Branch
Ms. Stacy Oberhausen, P.E., PDEA Project Planning Engineer



Utility
 Permit Drawing
 Sheet 9 of 9
 Revised 3/19/09

PDF: v8a.plt swhite
 50,000 1/1 IN. 8:32:24 PM
 2/19/2009
 T:\Projects\Windsor-2290\BU - Grays Landing PS Relocation\CADD\CADD Sheets\C.2 - SHEETS\Sheet.C.2-2_sew.dgn

NO.	DESCRIPTION

THE WOOTEN COMPANY
 ENGINEERING | PLANNING | ARCHITECTURE
 301 West 4th Street, Greenville, NC 27834
 252.757.1006 fax 252.757.3921

BERTIE COUNTY NORTH CAROLINA
 TOWN OF WINDSOR
 GRAYS LANDING PUMP STATION RELOCATION
 10" FORCE MAIN
 PLAN AND PROFILE

DESIGNED BY: ASH
 DRAWN BY: SW - DRS
 CHECKED BY: ASH
 PROJECT NO: 2290 - BU
 DATE: FEBRUARY 2009
 SCALE: HOR. 1" = 50'
 VER. 1" = 5'

SHEET
C.2-2

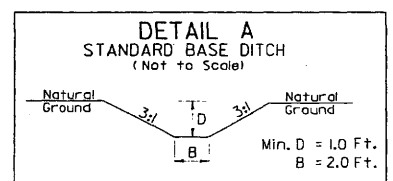
PROJECT REFERENCE NO. B-4434	SHEET NO. 5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REV JAN 2009

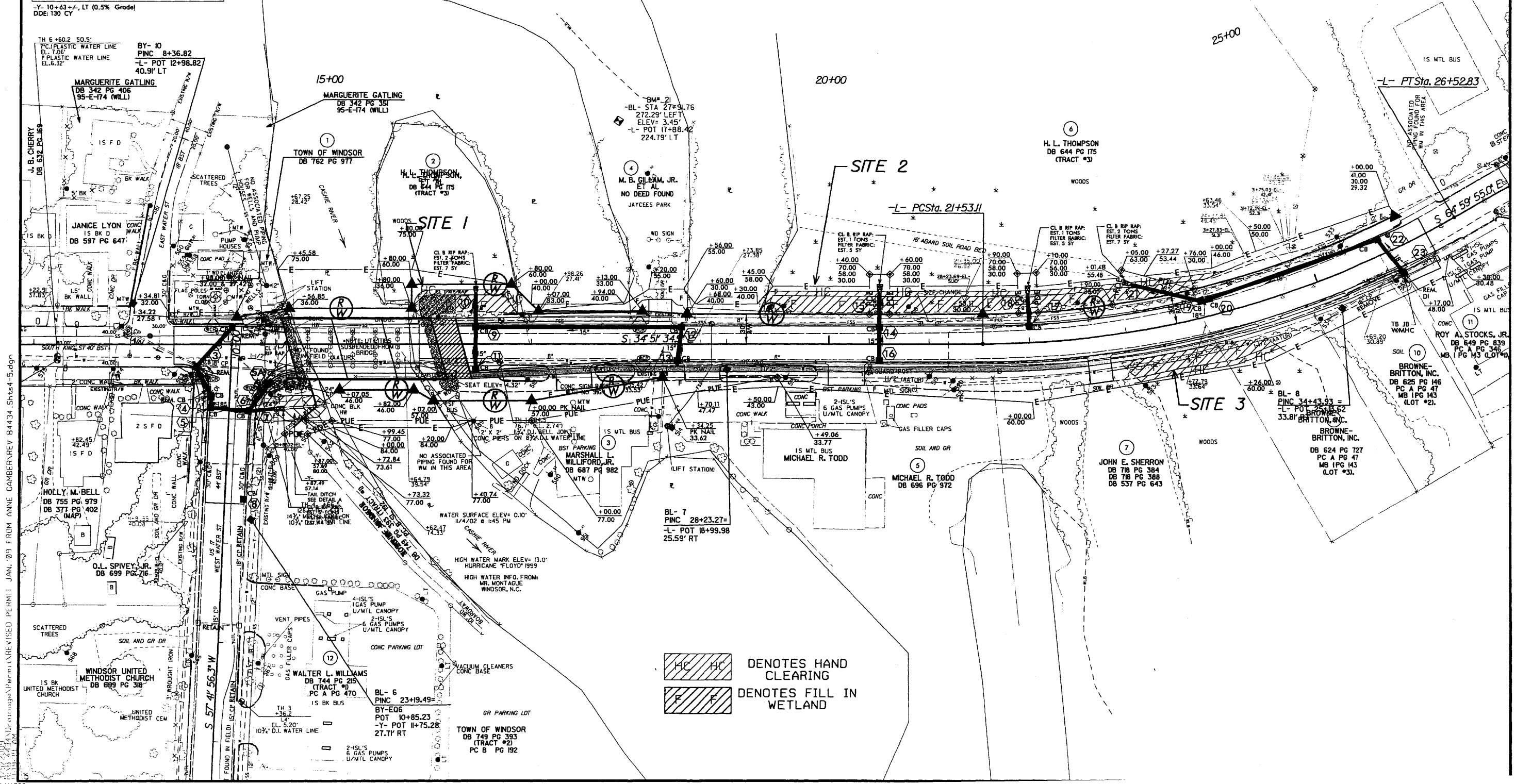
WETLANDS

-L-
 PI Sta 24+08.89
 $\Delta = 30' 08" 20" (LT)$
 $D = 6' 0" 52"$
 $L = 499.72'$
 $T = 255.79'$
 $R = 950.00'$
 $SE = 0.05$
 $Vd = 40 \text{ mph}$

Permit Drawing
 Sheet 6 of 13
 Revised 3/4/09



NOTE:
 ALL PIPES ARE RC CLASS III, UNLESS OTHERWISE INDICATED ON PLANS.



DENOTES HAND CLEARING
 DENOTES FILL IN WETLAND

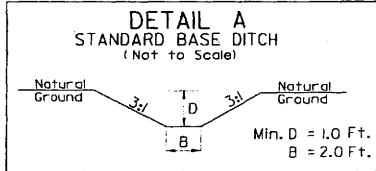
PROJECT REFERENCE NO. B-4434	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REV JAN 2009

WETLANDS

-L-
 PI Sta 24+08.89
 $\Delta = 30' 08" 20.1' (LT)$
 $D = 6' 01" 52.1'$
 $L = 499.72'$
 $T = 255.79'$
 $R = 950.00'$
 $SE = 0.05$
 $Vd = 40 \text{ mph}$

Permit Drawing
 Sheet 7 of 13
 Revised 3/6/09



NOTE:
 ALL PIPES ARE RC CLASS III, UNLESS OTHERWISE INDICATED ON PLANS.

-Y- 10+43+7.1 LT (0.5% Grade)
 DDE: 130 CY

TH 6 +50.2 50.5'
 1" PLASTIC WATER LINE
 EL. 7.06'
 1" PLASTIC WATER LINE
 EL. 6.32'

BY-10
 PINC 8+36.82
 -L- POT 12+98.82
 40.9' LT

MARGUERITE GATLING
 DB 342 PG 406
 95-E-174 (WILL)

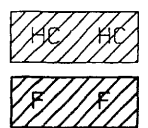
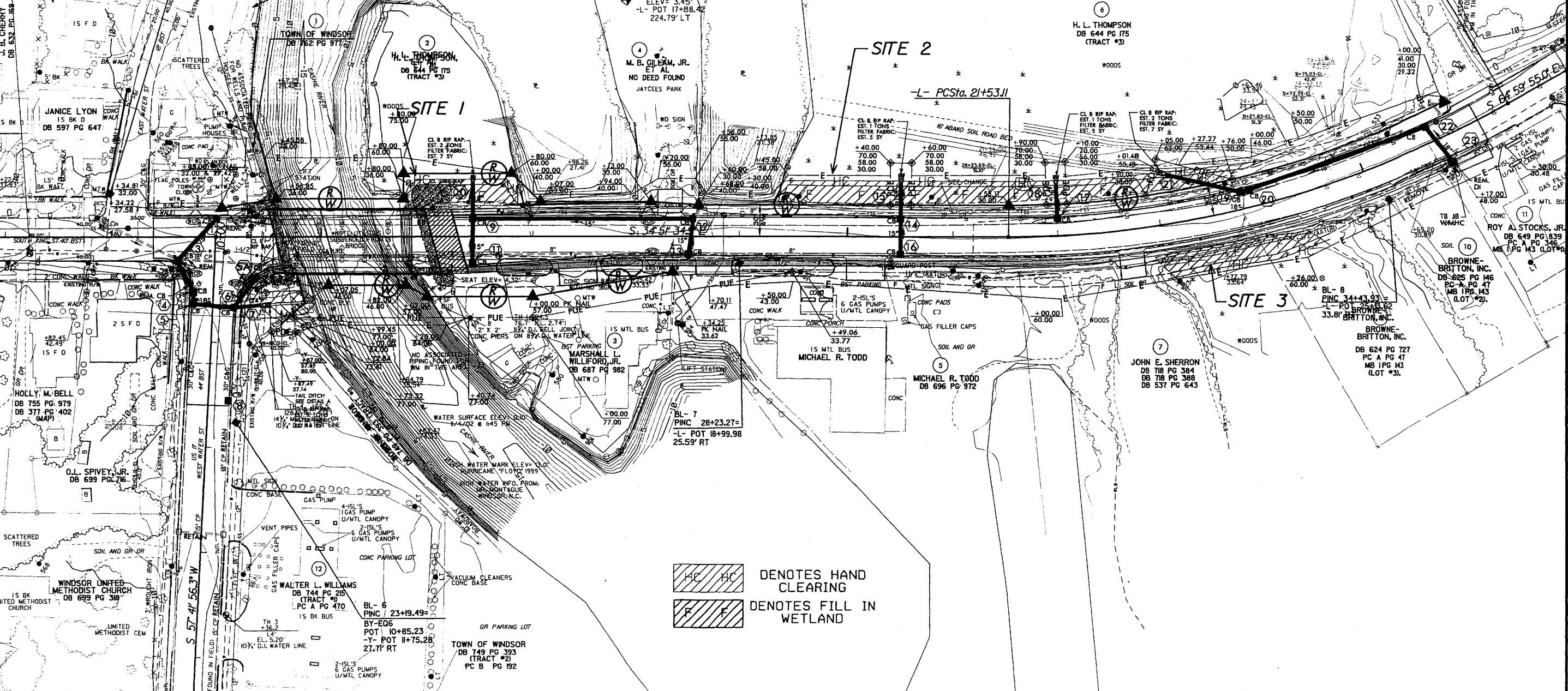
MARGUERITE GATLING
 DB 342 PG 357
 95-E-174 (WILL)

BM# 21
 BL- STA 27+9.76
 272.29' LEFT
 ELEV= 3.45'
 -L- POT 17+88.42
 224.79' LT

M. B. GILHAM, JR.
 ET AL
 NO DEED FOUND
 JAYCEES PARK

H. L. THOMPSON
 DB 644 PG 175
 (TRACT #3)

EDWARD L. LIPSCOMB
 DB 793 PG 320
 PC B PG 387



BL-6
 PINC 23+19.49
 BY-EO6
 POT 10+85.23
 -Y- POT 11+75.28
 27.7' RT

TOWN OF WINDSOR
 DB 749 PG 393
 (TRACT #2)
 PC B PG 192

BL-8
 PINC 34+43.93
 -L- POT 28+82.62
 33.8' RT

BROWNE-BRITTON, INC.
 DB 624 PG 727
 PC A PG 47
 MB 1 PG 143
 (LOT #3)

JOHN E. SHERRON
 DB 718 PG 384
 DB 718 PG 388
 DB 537 PG 643

MICHAEL R. TODD
 DB 696 PG 972

BL-7
 PINC 28+23.27=
 -L- POT 18+99.98
 25.59' RT

HOLLY M. BELL
 DB 755 PG 979
 DB 377 PG 402
 (MAP)

O.L. SPIVEY, JR.
 DB 699 PG 716

WINDSOR UNITED
 METHODIST CHURCH
 DB 699 PG 318

WALTER L. WILLIAMS
 DB 744 PG 215
 PC A PG 470

ROY A. STOCKS, JR.
 DB 649 PG 1839
 PC A PG 146
 MB 1 PG 143
 (LOT #2)

BROWNE-BRITTON, INC.
 DB 625 PG 47
 MB 1 PG 143
 (LOT #2)

BROWNE-BRITTON, INC.
 DB 624 PG 727
 PC A PG 47
 MB 1 PG 143
 (LOT #3)