

# CONTRACT NO. TW-963

# PROPOSED WATER MAIN (PHASE I)

FOR THE

# WOODSTOCK WATER DISTRICT EXTENSION

TOWN OF WOODSTOCK, ULSTER COUNTY, NEW YORK

TOWN SUPERVISOR
TRACY KELLOGG

TOWN COUNCILMEN

TOBY HEILBRUNN

DALE HUGHES

LUCILLE SCHECHTER

REBECCA WILBER

TOWN CLERK
KATHERINE ANDERSON

WATER/SEWER DISTRICT SUPERINTENDENT
MALCOLM CARNRIGHT

# SEPTEMBER 1996

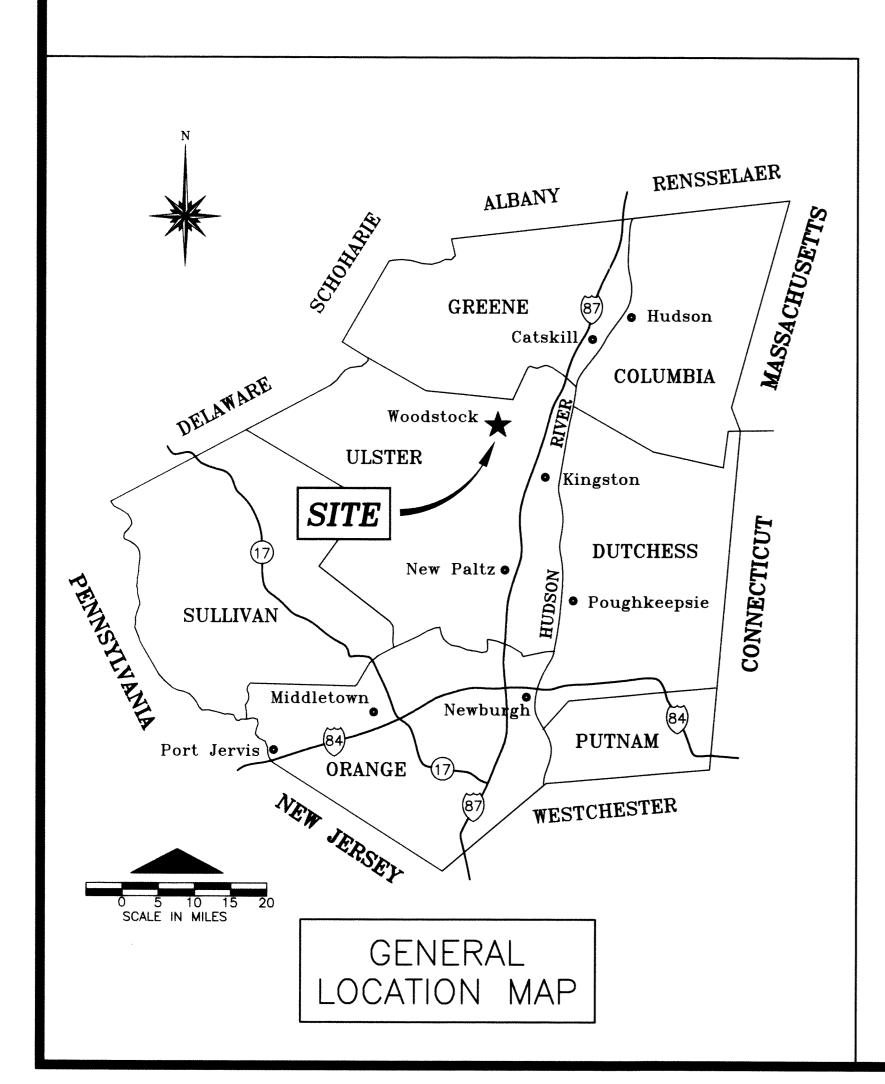
Revised October 11, 1996 Revised October 28, 1996

BRINNIER AND LARIOS, P. C.

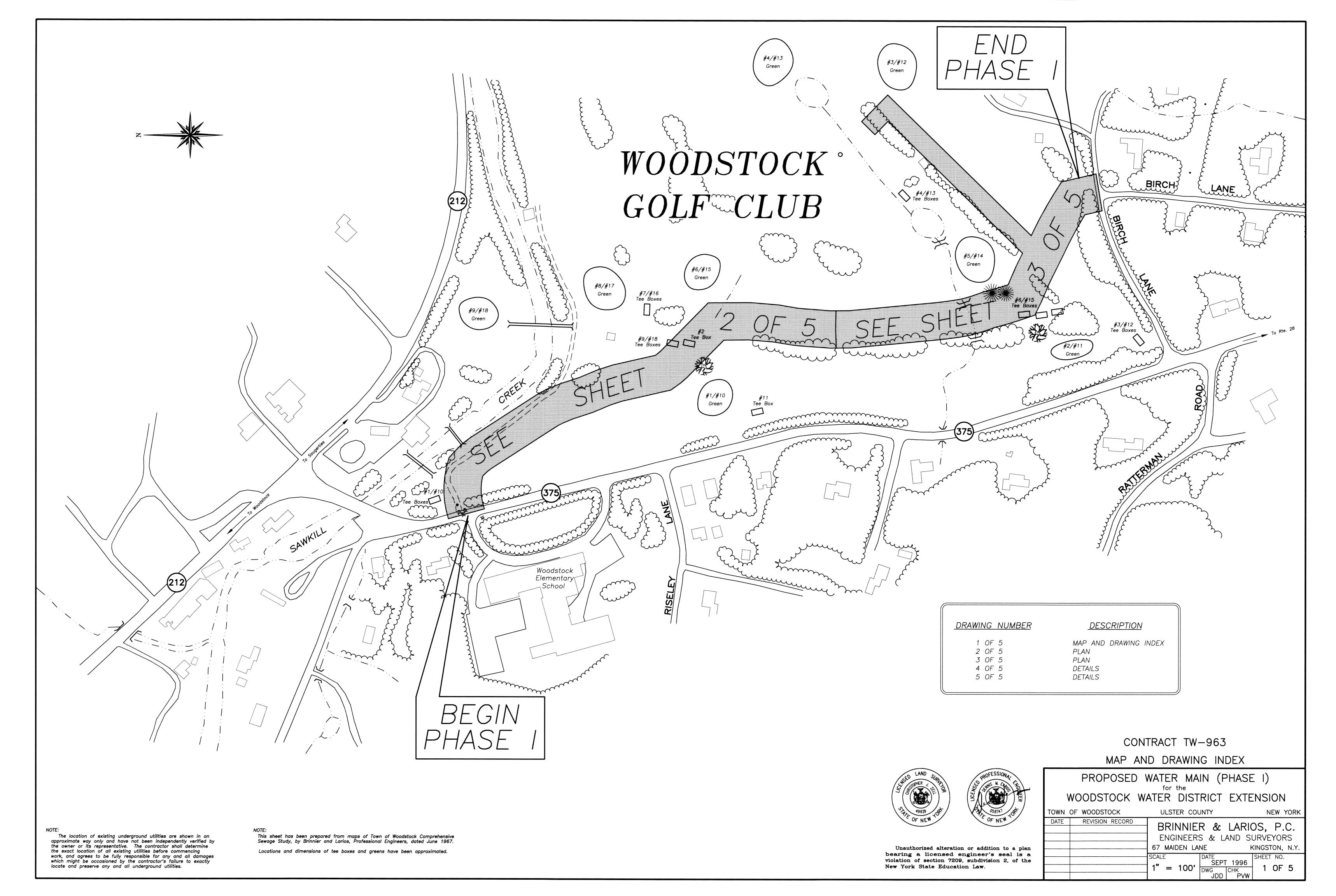
PROFESSIONAL ENGINEERS AND LAND SURVEYORS

67 MAIDEN LANE

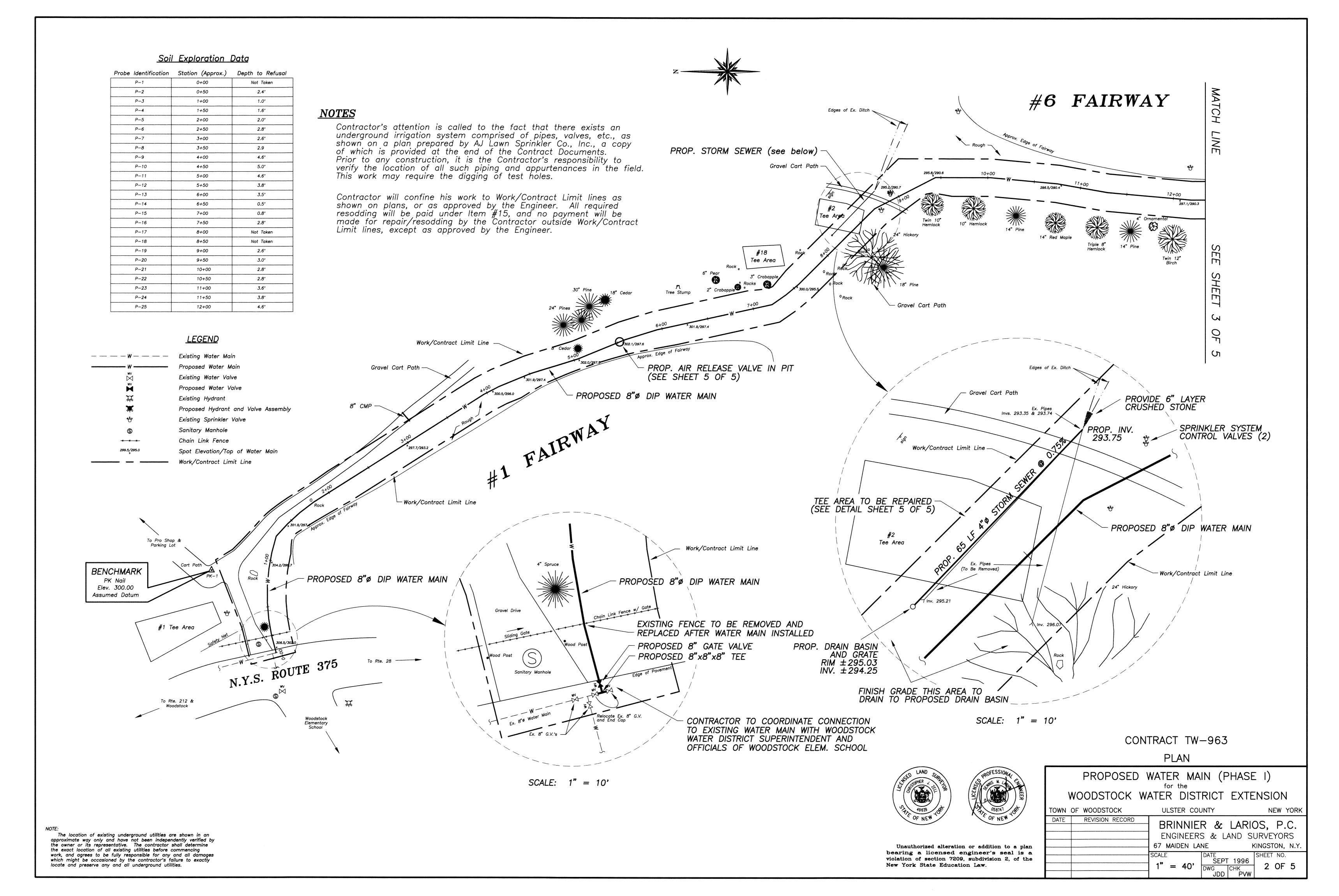
KINGSTON, NEW YORK



Unauthorized alteration or addition to a plan bearing a licensed engineer's seal is a violation of section 7209, subdivision 2, of the



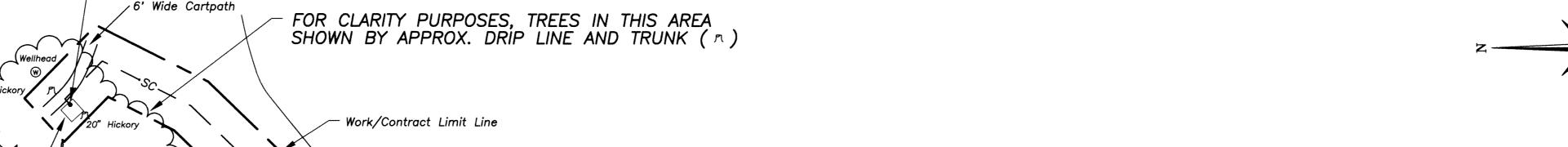
ABPISE



### Soil Exploration Data

Probe Identification	Station (Approx.)	Depth to Refusal
P-26	12+50	4.0'
P-27	13+00	3.8'
P-28	13+50	3.4'
P-29	14+00	3.6'
P-30	14+50	3.0'
P-31	15+00	2.0'
P-32	15+50	2.0'
P-33	16+00	1.0'
P-34	16+50	1.0'
P-35	17+00	1.0'
P-36	17+50	1.8' (through fill on tee)
P-37	18+00	0.0' (outcrop)
P-38	18+50	0.8'
P-39	19+00	3.0'
P- <b>4</b> 0	19+50	2.5'
P-41 <b>⊙</b>	See Plan	2.5'
P-42 <b>⊙</b>	See Plan	2.5'
P- <b>43</b> ⊙	See Plan	4.0'
P- <b>44 ⊙</b>	See Plan	4.0'

PROP. HEAVY DUTY DRINKING WATER COOLER (OASIS MODEL PLF13P, BY EBCO OR EQUAL), SET IN 17-1/2"x21" ENCLOSURE IN EX. BUILDING (FACING CART PATH).

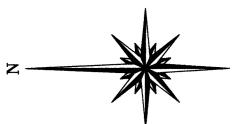


PROP. ±645 LF — 1/2"ø PE PIPE TO PROP.
WATER COOLER (INSTALLED WITH 6" MIN. COVER)
(to be furnished, installed, and paid under Item No. 12)

Work/Contract Limit Line

8"ø Steel Pipe Inv. 296.99

PROPOSED 8"Ø DIP WATER MAIN



PROPOSED HYDRANT AND VALVE ASSEMBLY

PROPOSED 8"Ø DIP WATER MAIN TO BE LAID AT MID-POINT BETWEEN TWO 30" MAPLE TREES IN THIS AREA. TERMINATE WITH 8" GATE VALVE AND END CAP.

FOR CLARITY PURPOSES, TREES IN THIS AREA SHOWN BY APPROX. DRIP LINE AND TRUNK ( ^ )

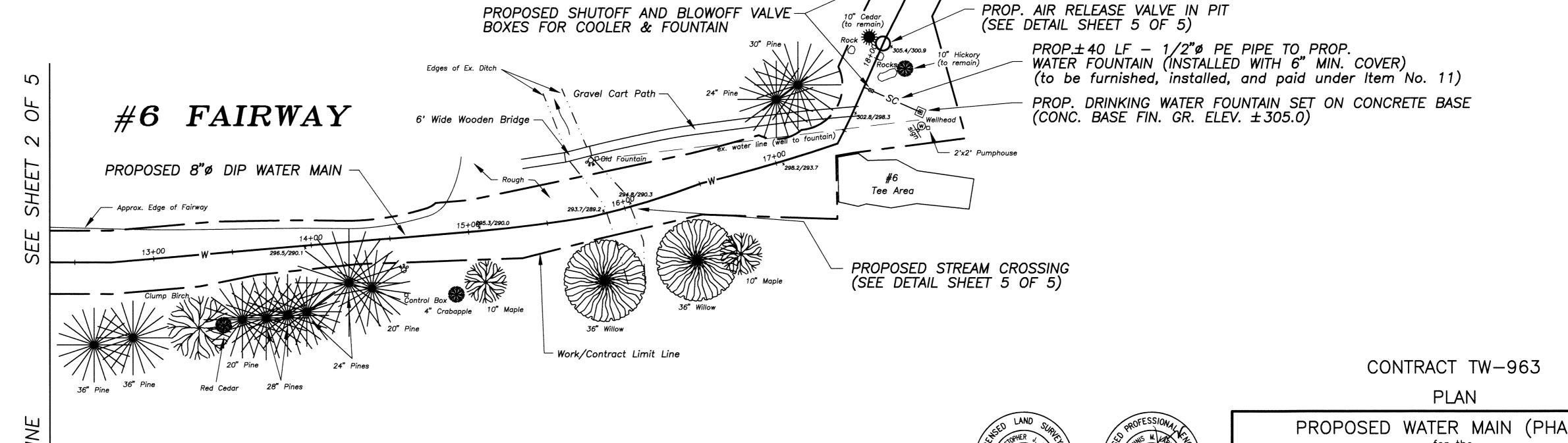
# **NOTES**

Contractor will confine his work to Work/Contract Limit lines as shown on plans, or as approved by the Engineer. All required resodding will be paid under Item #15, and no payment will be made for repair/resodding by the Contractor outside Work/Contract Limit lines, except as approved by the Engineer.

# Contractor's attention is called to the fact that there exists an underground irrigation system comprised of pipes, valves, etc., as shown on a plan prepared by AJ Lawn Sprinkler Co., Inc., a copy of which is provided at the end of the Contract Documents. Prior to any construction, it is the Contractor's responsibility to verify the location of all such piping and appurtenances in the field. This work may require the digging of test holes.

W	Proposed Water Main
—————————————————————————————————————	Proposed Service Connection (Fountain/Cooler)
₩v ⊠	Existing Water Valve
₩v ₩	Proposed Water Valve
$\Xi$	Existing Hydrant
*	Proposed Hydrant and Valve Assembly
<b>♦</b> \$0	Existing Sprinkler Valve
<b>S</b>	Sanitary Manhole
	Chain Link Fence
299.5/295.0	Spot Elevation/Top of Water Main
	Work/Contract Limit Line

**LEGEND** 



The location of existing underground utilities are shown in ar the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly

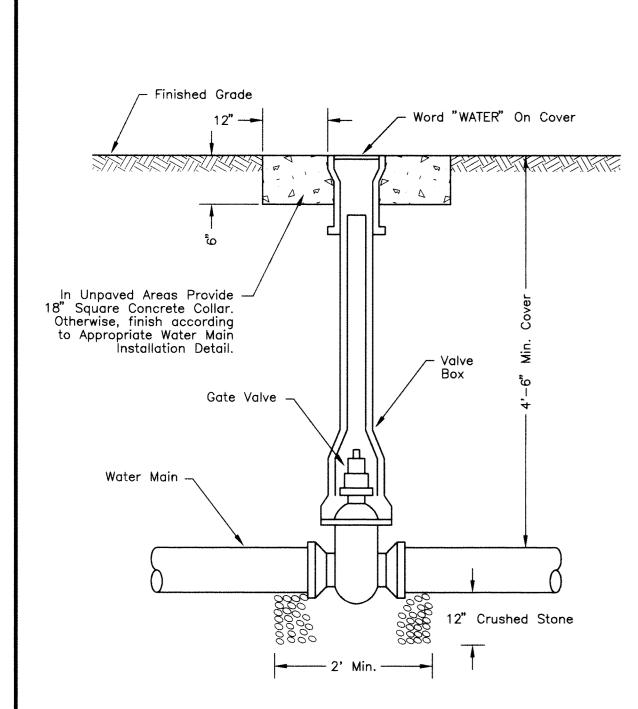
locate and preserve any and all underground utilities.



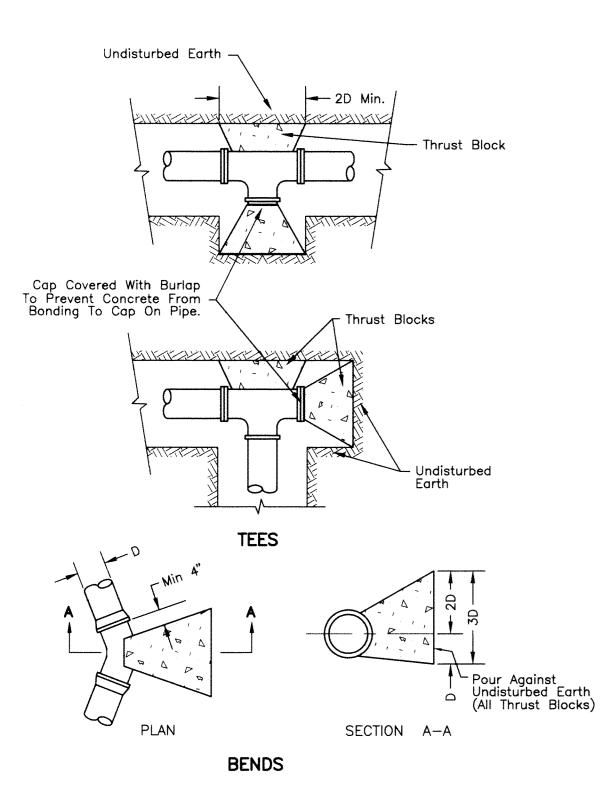
Unauthorized alteration or addition to a plan bearing a licensed engineer's seal is a violation of section 7209, subdivision 2, of the New York State Education Law.

PROPOSED WATER MAIN (PHASE I) WOODSTOCK WATER DISTRICT EXTENSION

WN	OF WOODSTOCK	ULSTER COL	YTAL	NEW YORK
ATE .	REVISION RECORD	סטואואוור		
1-96	Add Valve Boxes to Fountain/Cooler		R & LARIO	•
		ENGINEER:	S & LAND S	URVEYORS
		67 MAIDEN LA	NE F	KINGSTON, N.Y.
			DATE 1006	SHEET NO.
		1" = 40'	SEPT 1996 DWG CHK	3 OF 5
			JDD PVW	9,

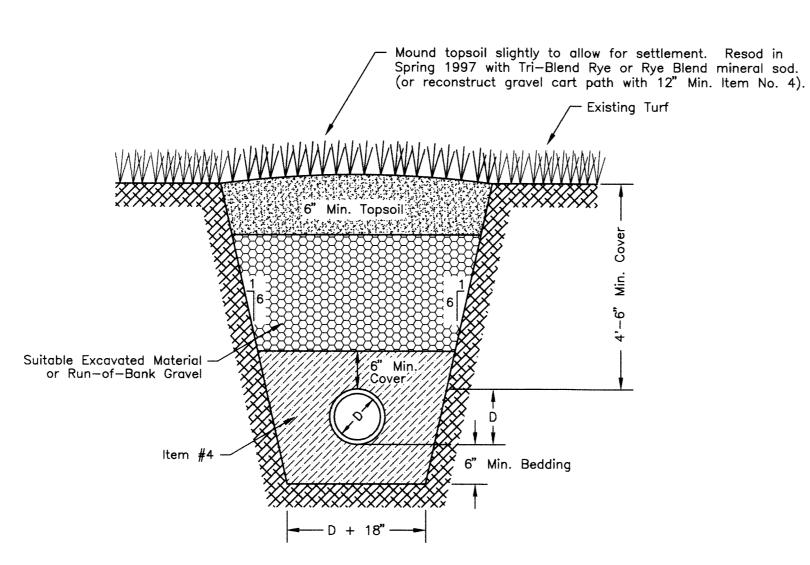


# DETAIL OF GATE VALVE ON LINE Not To Scale



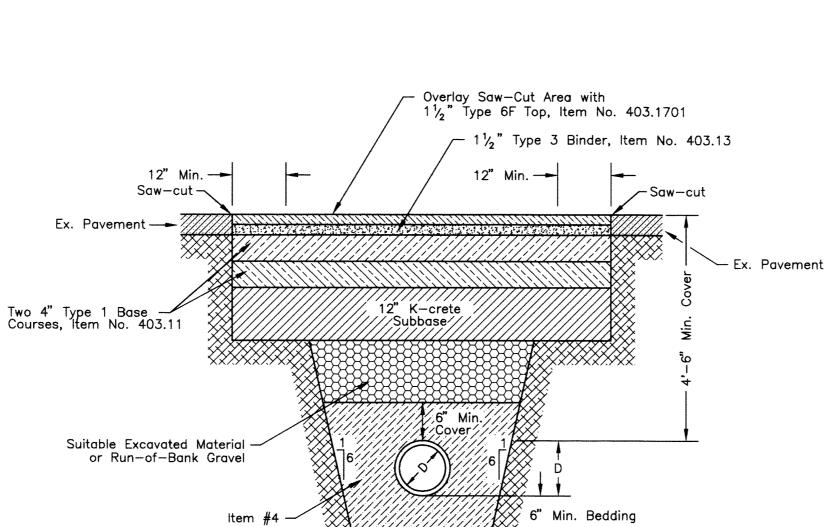
CONCRETE THRUST BLOCK DETAILS

Not To Scale



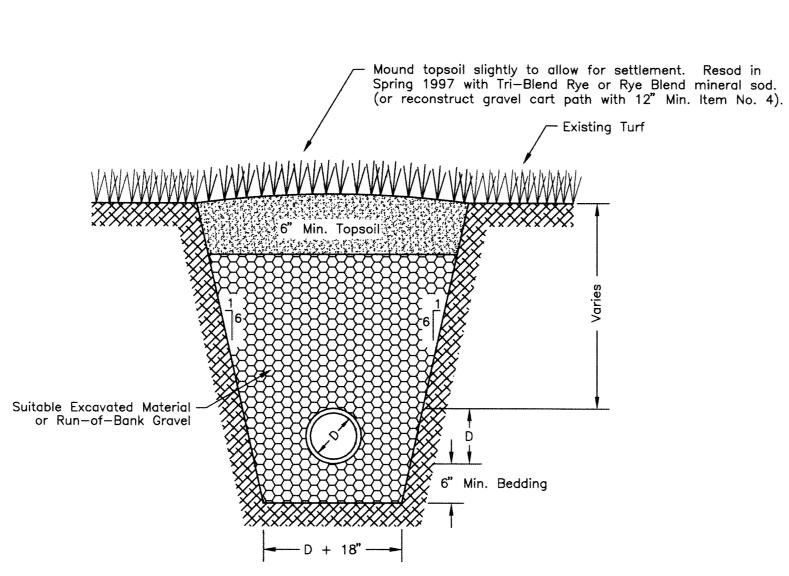
TYPICAL WATER MAIN
INSTALLED ACROSS GOLF COURSE

Not To Scale

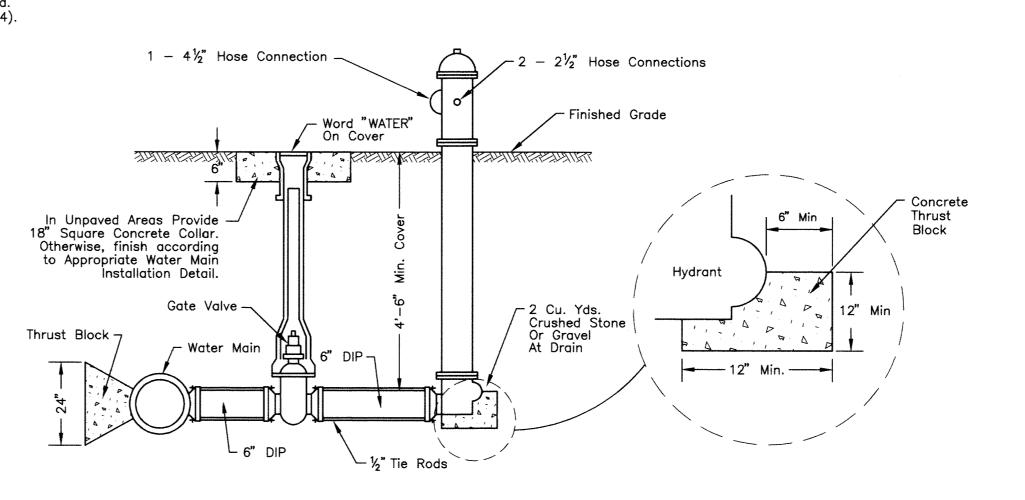


TYPICAL WATER MAIN
INSTALLED IN STATE HIGHWAY
Not To Scale

D + 18" ---

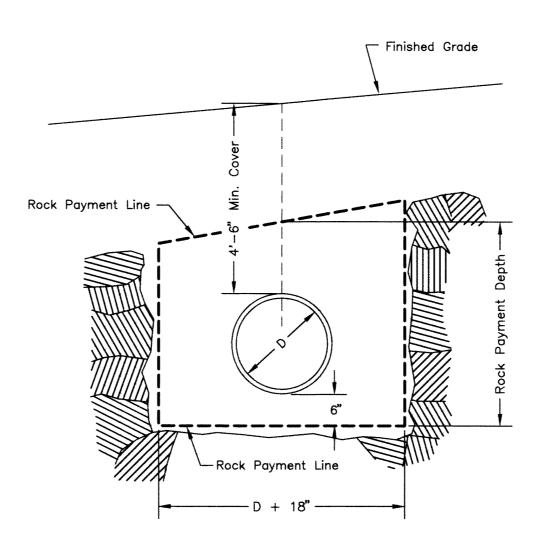


TYPICAL STORM SEWER
TRENCH DETAIL
Not To Scale



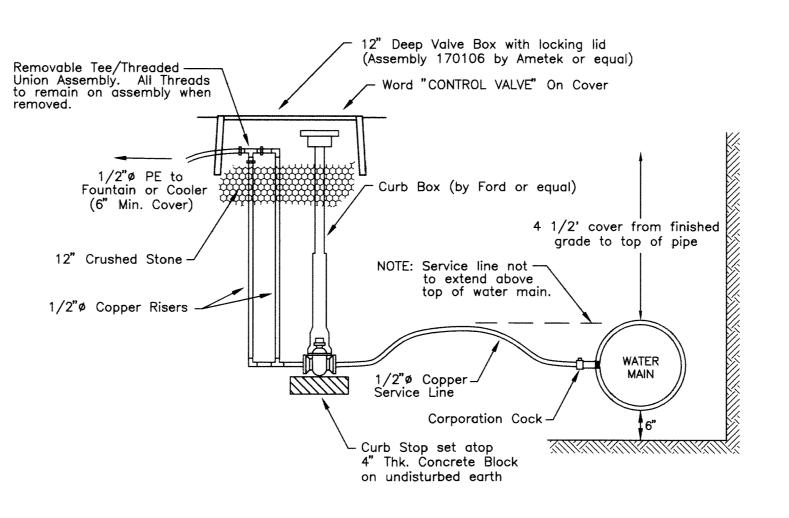
### HYDRANT AND VALVE ASSEMBLY DETAIL

Not To Scale



PAY LIMIT LINE FOR TRENCH ROCK

Not To Scale



# TYPICAL WATER FOUNTAIN/COOLER SERVICE CONNECTION

Not To Scale



Unauthorized alteration or addition to a plan bearing a licensed engineer's seal is a violation of section 7209, subdivision 2, of the New York State Education Law.

### SEPARATION OF WATER MAINS AND SEWERS

### PARALLEL INSTALLATION

Water mains shall be laid at least 10 feet horizontally from any existing or proposed sewer. The distance shall be measured edge to edge. In cases where it is not practical to maintain a 10 foot separation, the reviewing authority may allow deviation on a case—by—case basis, if supported by data from the design engineer. Such deviation may allow installation of the water main closer to a sewer, provided that the water main is laid in a separate trench or on an undisturbed earth shelf located on one side of the sewer at such an elevation that the bottom of the water main is at least 18 inches above the top of the sewer.

### CROSSINGS

Water mains crossing sewers shall be laid to provide a minimum vertical distance of 18 inches between the outside of the water main and the outside of the sewer. This shall be the case where the water main is either above or below the sewer. At crossings, one full length of water pipe shall be located so both joints will be as far from the sewer as possible. Special structural support for the water and sewer pipes may be required.

### EXCEPTION

The reviewing authority must specifically approve any variance from the requirements of the above referred sections when it is impossible to obtain the specified distance separation.

### INSPECTION AND TESTING

Upon completion of the installation and backfilling portions of the water main, the pipe shall be inspected by the methods subsequently described. This inspection and testing shall be undertaken as the work progresses. The Engineer shall be notified in advance of such inspection and testing and the Contractor shall provide all facilities, materials, equipment and labor required for such testing. Such inspection and testing shall be prerequisite for acceptance of all work.

### VISUAL INSPECTION:

An inspection of the interior of the pipe shall be made while it is suspended over the trench. Before lowering, it shall be inspected for defects and rung with a light hammer to detect cracks. Any foreign material found in the interior of the pipe, any dirt, debris, or other objects shall be removed by the Contractor.

### PRESSURE TESTING:

Pressure and leakage test should be equal to Section 13, Hydrostatic Tests, prepared by the American Water Works Association, C-600-87

### CHLORINATION

The disinfection and bacteriological analysis of the water mains shall be done in accordance with American Water Association Standards, C651—86, and shall be approved by the Ulster County Department of Health.

# CONTRACT NO. TW-963

**DETAILS** 

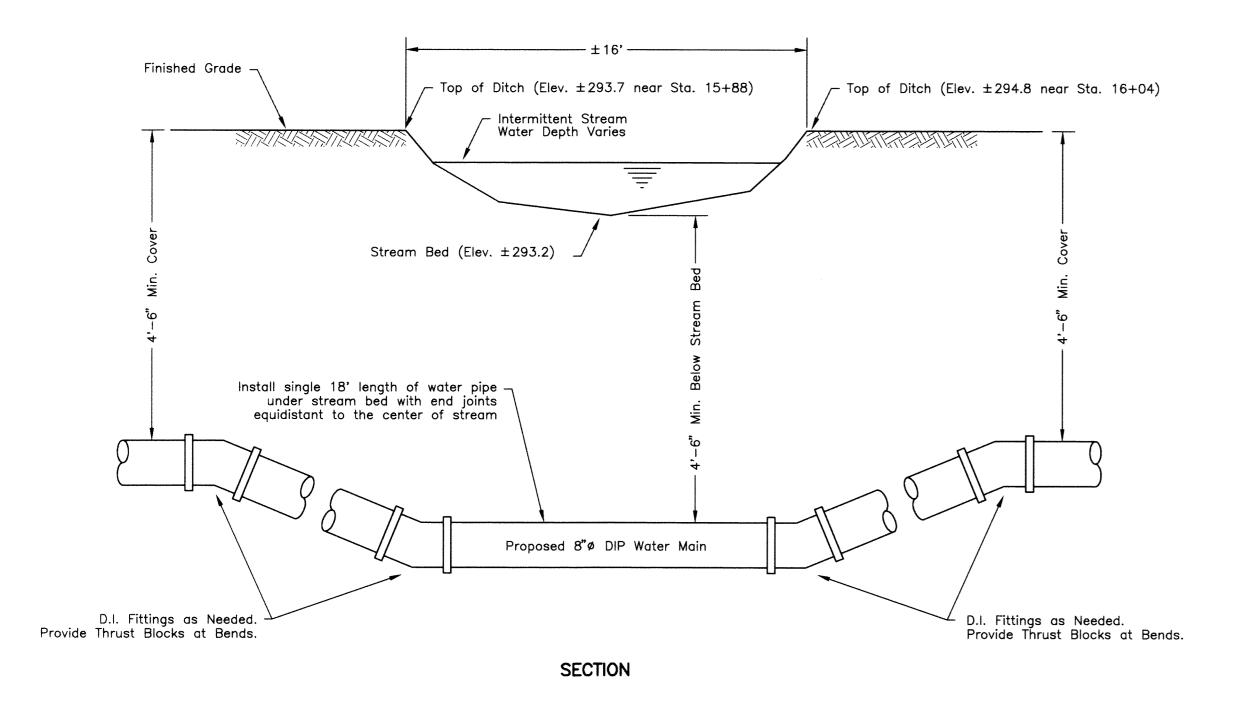
# PROPOSED WATER MAIN (PHASE I) for the WOODSTOCK WATER DISTRICT EXTENSION

TOWN	OF WOODSTOCK	ULSTER COL	JNTY	NEW YORK
DATE	REVISION RECORD	DDINIAHE	D 0. 1 A D 1/	2C D C
10-11-96	Revised Service Connection Detail	BRIMNIE	R & LARIO	JS, P.C.
10-28-96	Revised State Highway Detail	ENGINEERS & LAND SURVEYORS		
***************************************		67 MAIDEN LA	NE F	KINGSTON, N.Y.
		SCALE	DATE	SHEET NO.
		AS SHOWN	SEPT 1996 DWG CHK JDD PVW	4 OF 5

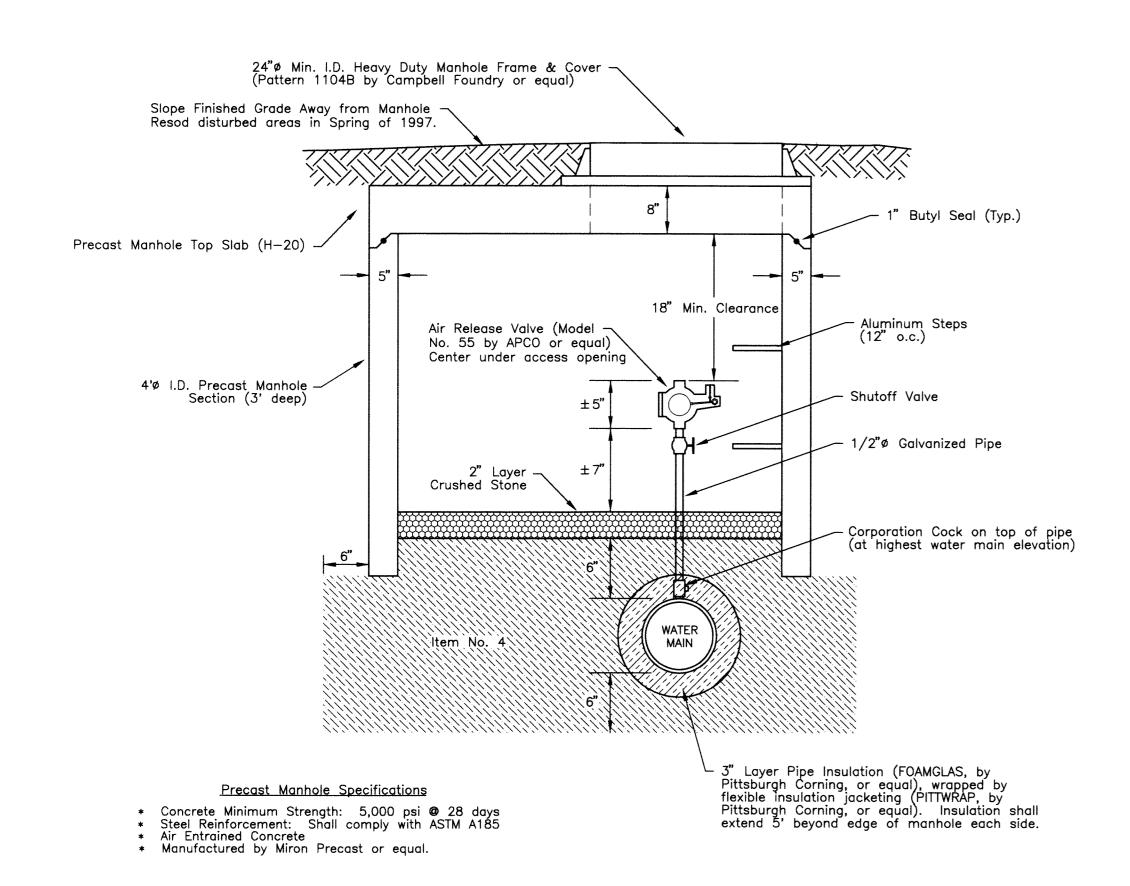
NOTE:

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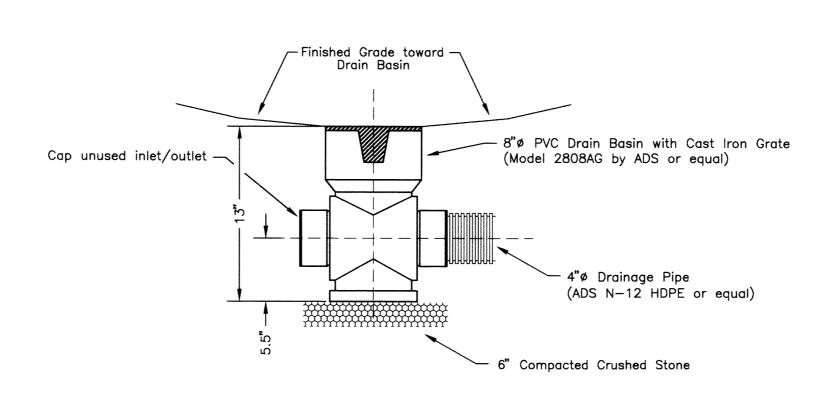


### WATER MAIN CROSSING STREAM DETAIL Not To Scale

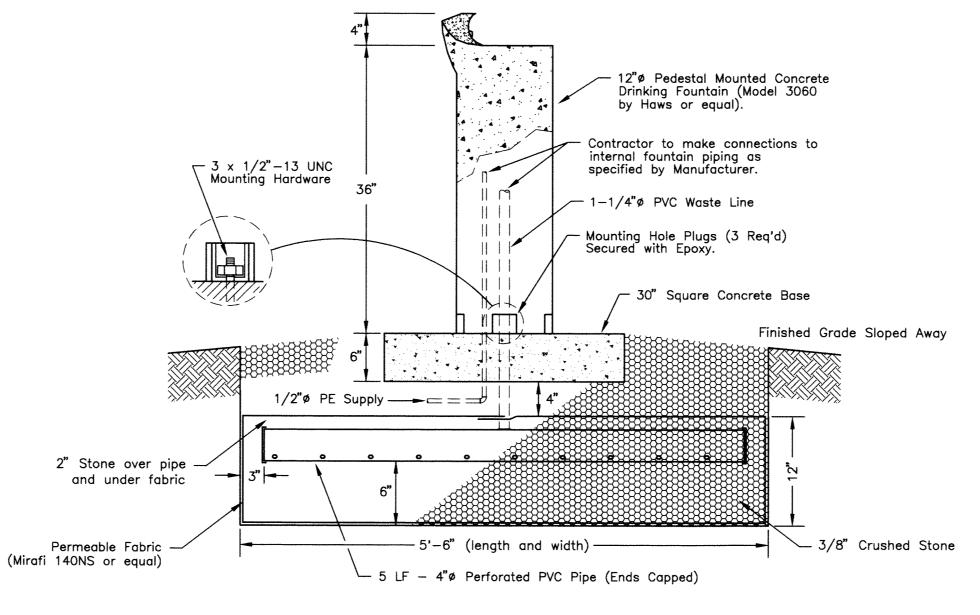


### AIR RELEASE VALVE IN PIT DETAIL

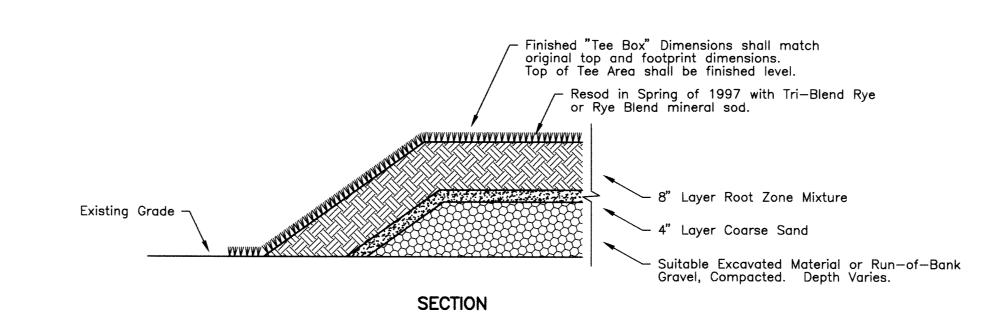
Not To Scale



### DRAIN BASIN AND GRATE DETAIL Not To Scale



TYPICAL WATER FOUNTAIN DETAIL Not To Scale

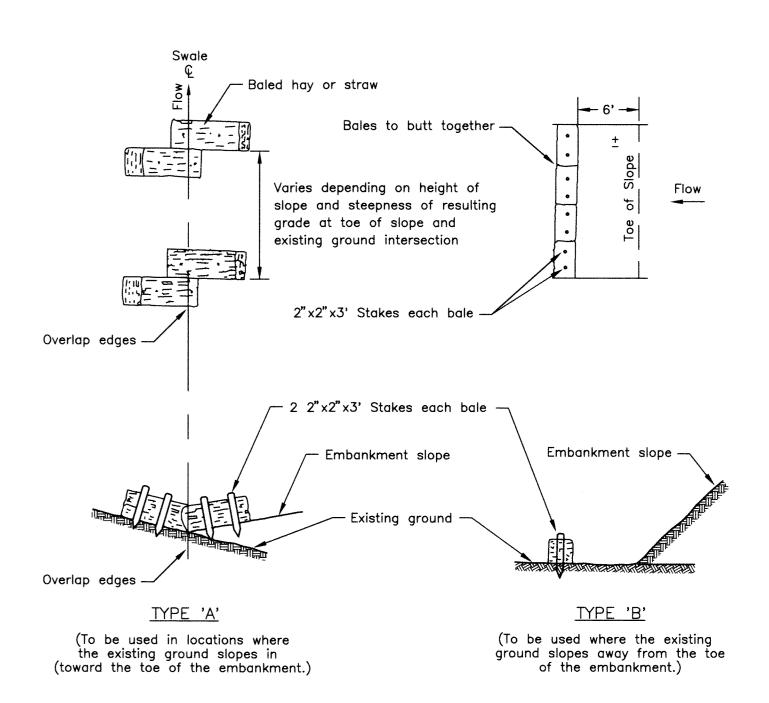


### TYPICAL TEE AREA REPAIR DETAIL Not To Scale





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### BALED HAY EROSION CHECK

Not To Scale

### EROSION CONTROL NOTES

### **GENERAL NOTES**

- 1. Site disturbance shall be limited to those areas as called for on the plan.
- 2. Temporary seeding with annual rye grass or other rapidly growing mixture and mulch shall be performed on disturbed soil remaining vacant for more than one
- 3. After grading, temporary berms and swales shall be installed as needed to divert runoff from newly graded areas to prevent erosion until ground cover has established. 4. Hay bales or silt fences shall be placed at bottom
- edge of slopes to prevent siltation and shall be maintained until vegetation is established.

### SILTATION CONTROL - HAY BALES

- Bales shall be placed at the toe of slope in a row with ends tightly abutting adjacent bales.
   Each bale shall be embedded in the soil a minimum of four (4) inches, and placed so the bindings are horizontal.
- 3. Bales shall be securely anchored in place by either two stakes driven through the bale; the first stake in each bale shall be driven toward the previously laid bale at an angle to force the bales together. Stakes shall be driven flush with the bale.
- 4. Inspection shall be frequent and repair or replacement shall be made promptly as needed. 5. Bales shall be removed when they have served their
- usefulness so as not to block or impede drainage.

### SILTATION CONTROL - SILT FENCE

- 1. If required by the Engineer silt fences shall consist of a 24" high geotextile fabric (filter cloth) installed parallel
- with the toe of slopes 2. The fabric shall be fastened securely at the top and mid section to min. 3' long fence posts placed max. 10 feet on center; the bottom 8 inches of fabric
- shall be laid into the trench to prevent undermining. 3. Adjoining sections of filter cloth shall be overlapped by six inches and folded.
- 4. Maintenance shall be performed as needed and material removed when bulges develop in the silt

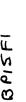
### CONTRACT NO. TW-963

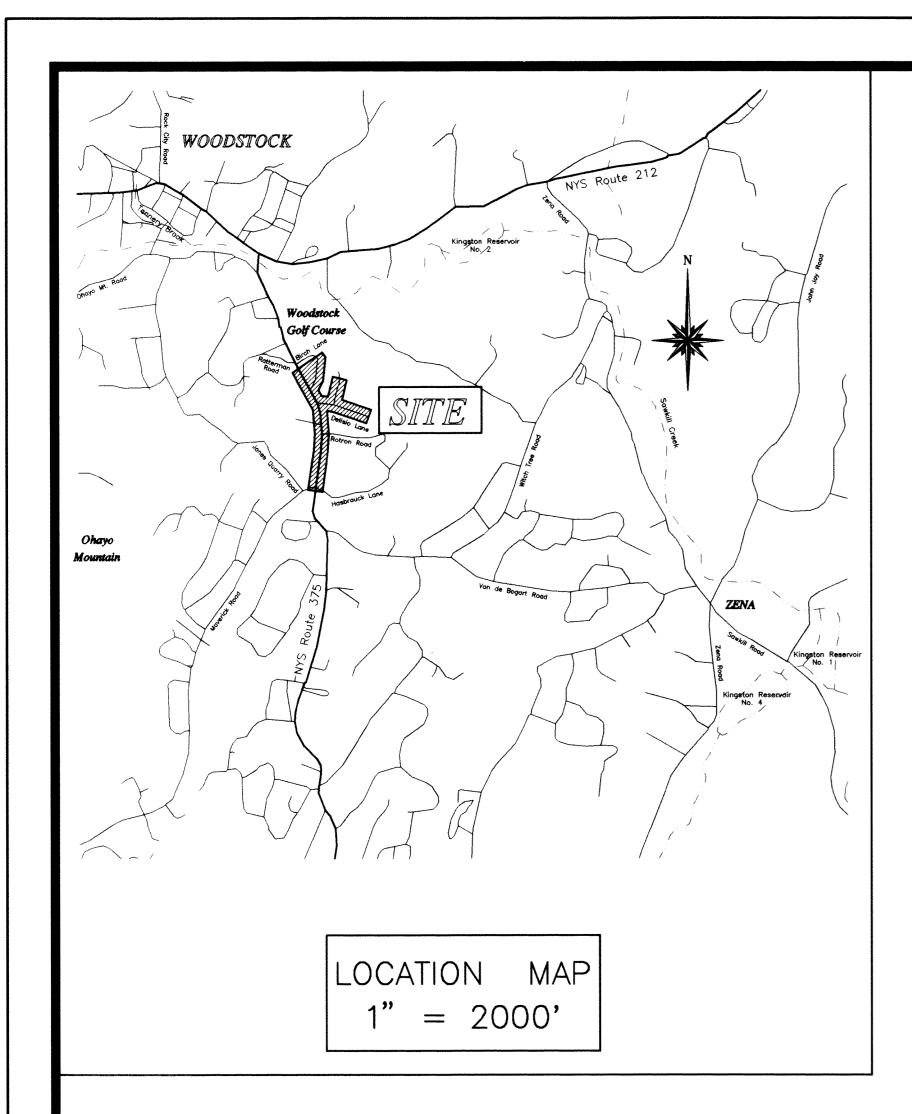
### **DETAILS**

PROPOSED	WATER	MAIN	(PHASE I)	
for the				
WOODSTOCK	WATER	<b>DISTRIC</b>	CT EXTENSION	

TOWN	OF WOODSTOCK	ULSTER CC	UNTY	NEW YORK
DATE	REVISION RECORD		D 0. 1 A D	
10-11-96	Revised Air Release Valve Pit Detail	I RKIININIE	IR & LAR	105, P.C.
		ENGINEER	RS & LAND S	SURVEYORS
		67 MAIDEN L	ANE	KINGSTON, N.Y.
ļ		SCALE	DATE 1000	SHEET NO.
		AS SHOWN	10110 10111	<b>│</b> 5 OF 5
			JDD PW	<b>V</b> ]

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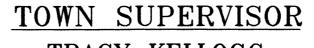
# CONTRACT NO. TW-971

PROPOSED WATER MAIN (PHASE II)

FOR THE

# WOODSTOCK WATER DISTRICT EXTENSION

TOWN OF WOODSTOCK, ULSTER COUNTY, NEW YORK



TRACY KELLOGG

TOWN COUNCILMEN

TOBY HEILBRUNN

DALE HUGHES

LUCILLE SCHECHTER

REBECCA WILBER

TOWN CLERK
KATHERINE ANDERSON

WATER/SEWER DISTRICT SUPERINTENDENT
MALCOLM CARNRIGHT

**APRIL 1997** 

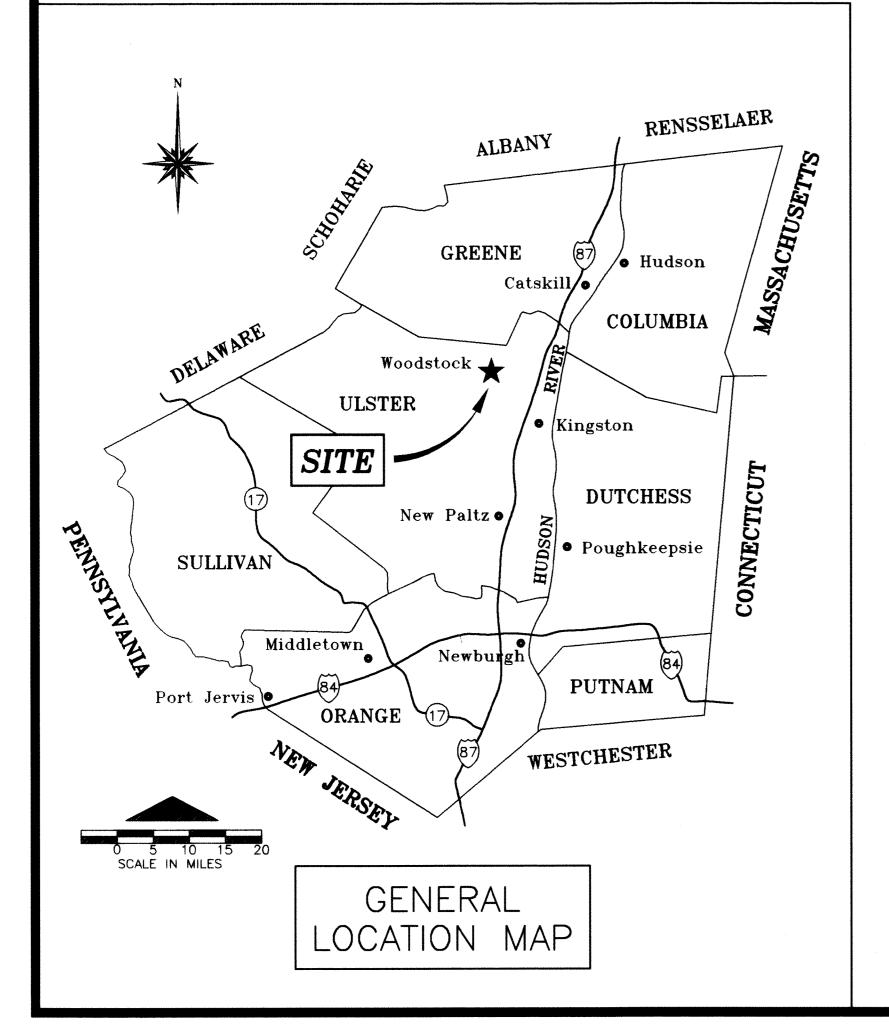
Revised June 4, 1997

BRINNIER AND LARIOS, P. C.

PROFESSIONAL ENGINEERS AND LAND SURVEYORS

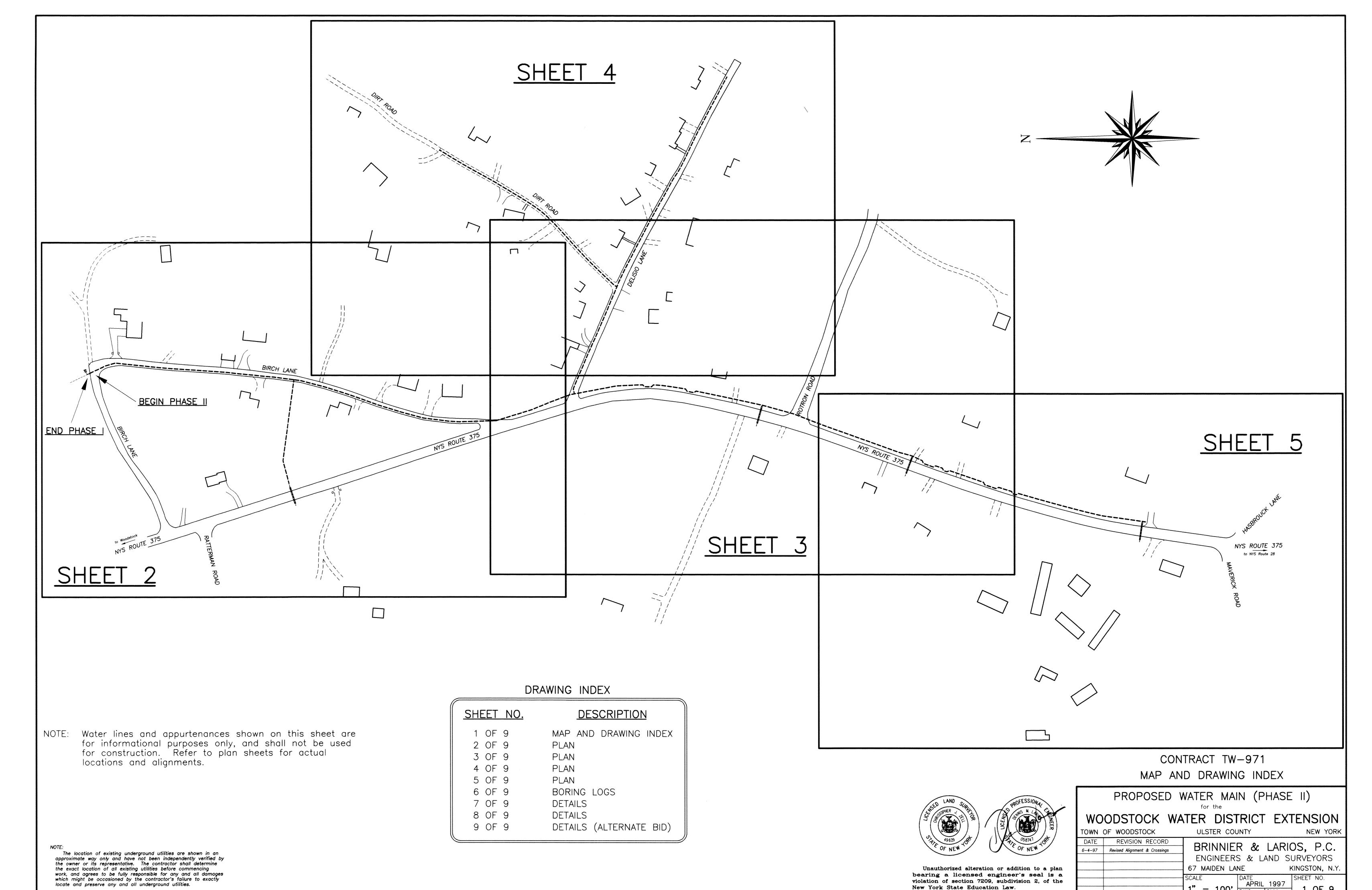
67 MAIDEN LANE

KINGSTON, NEW YORK



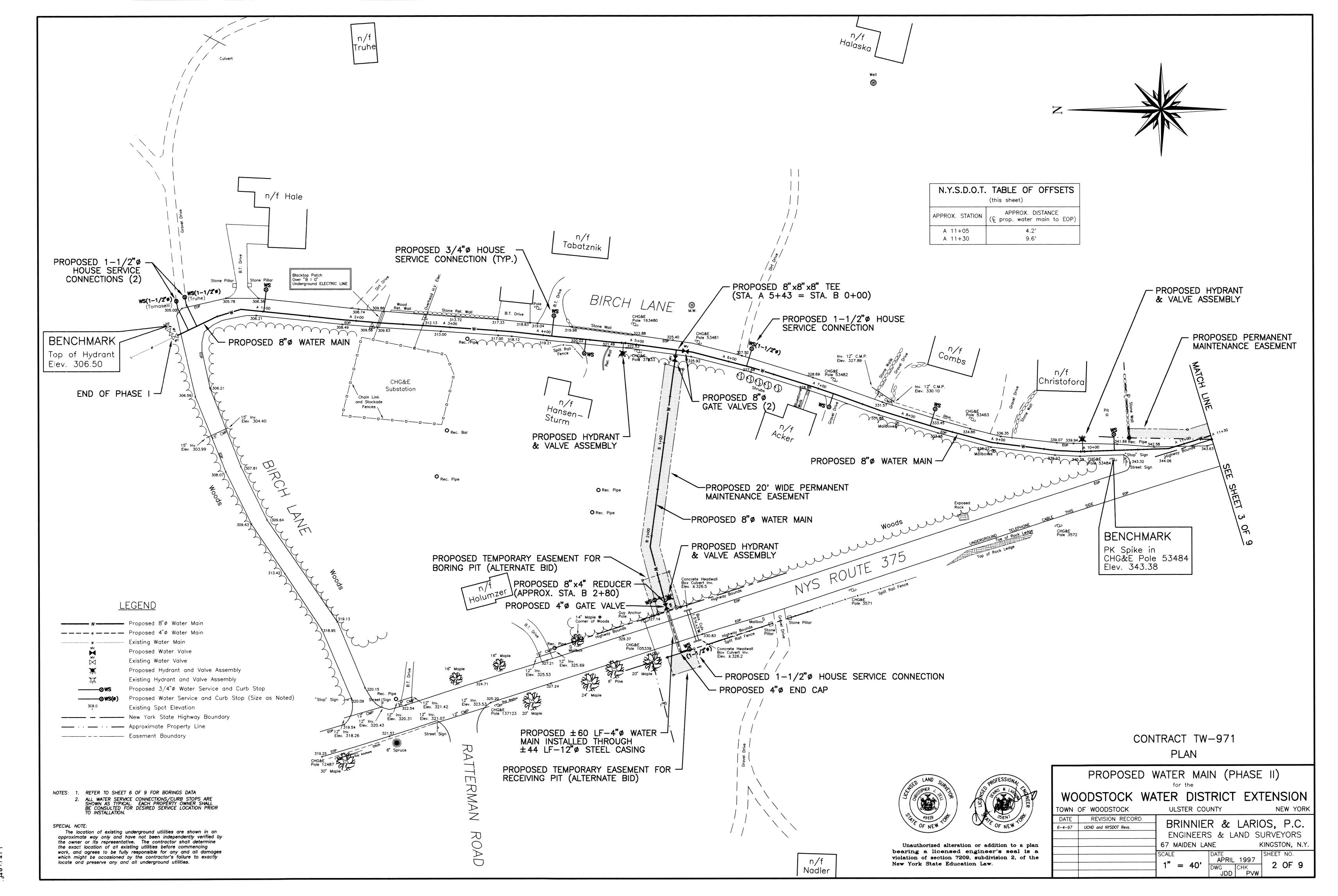


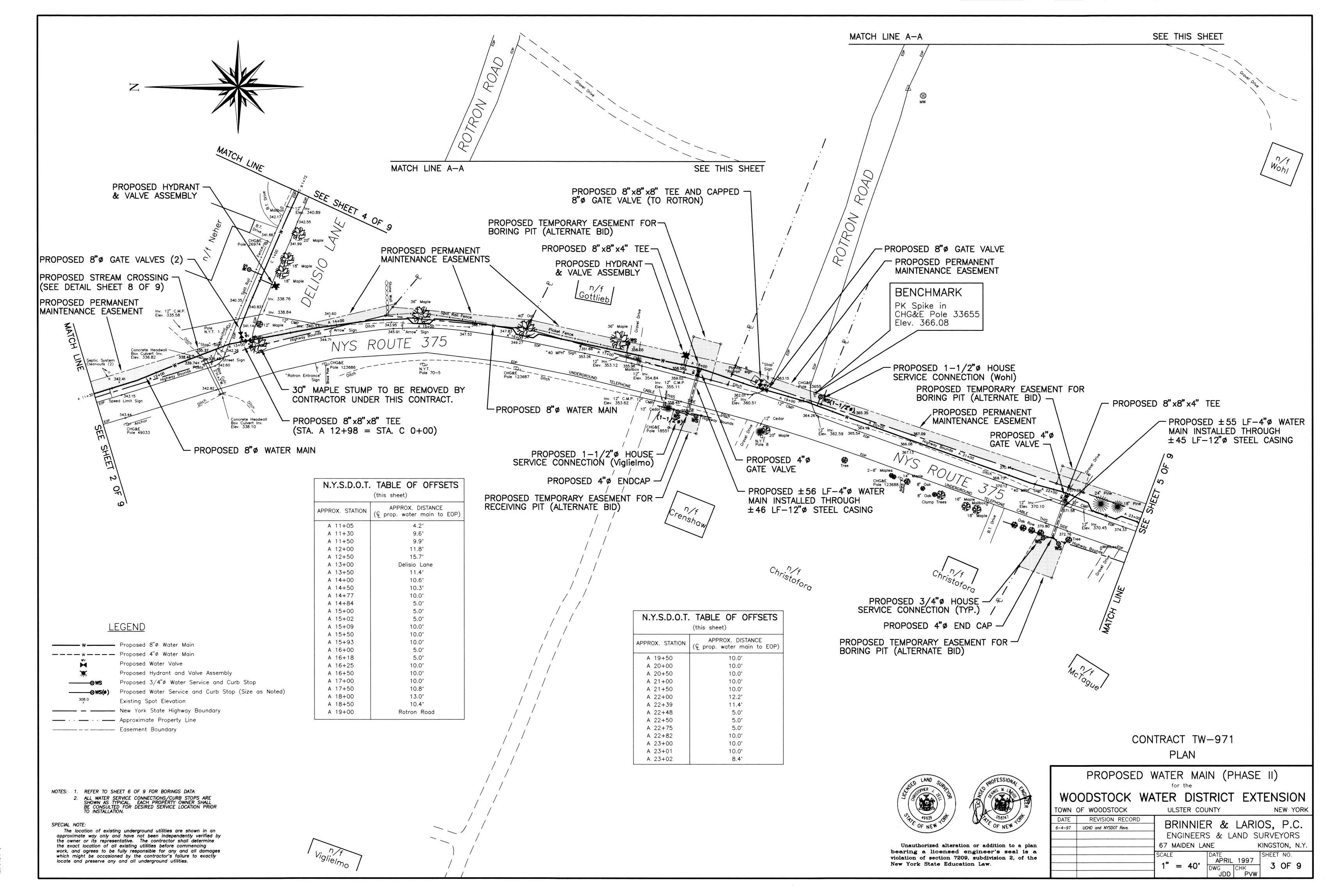
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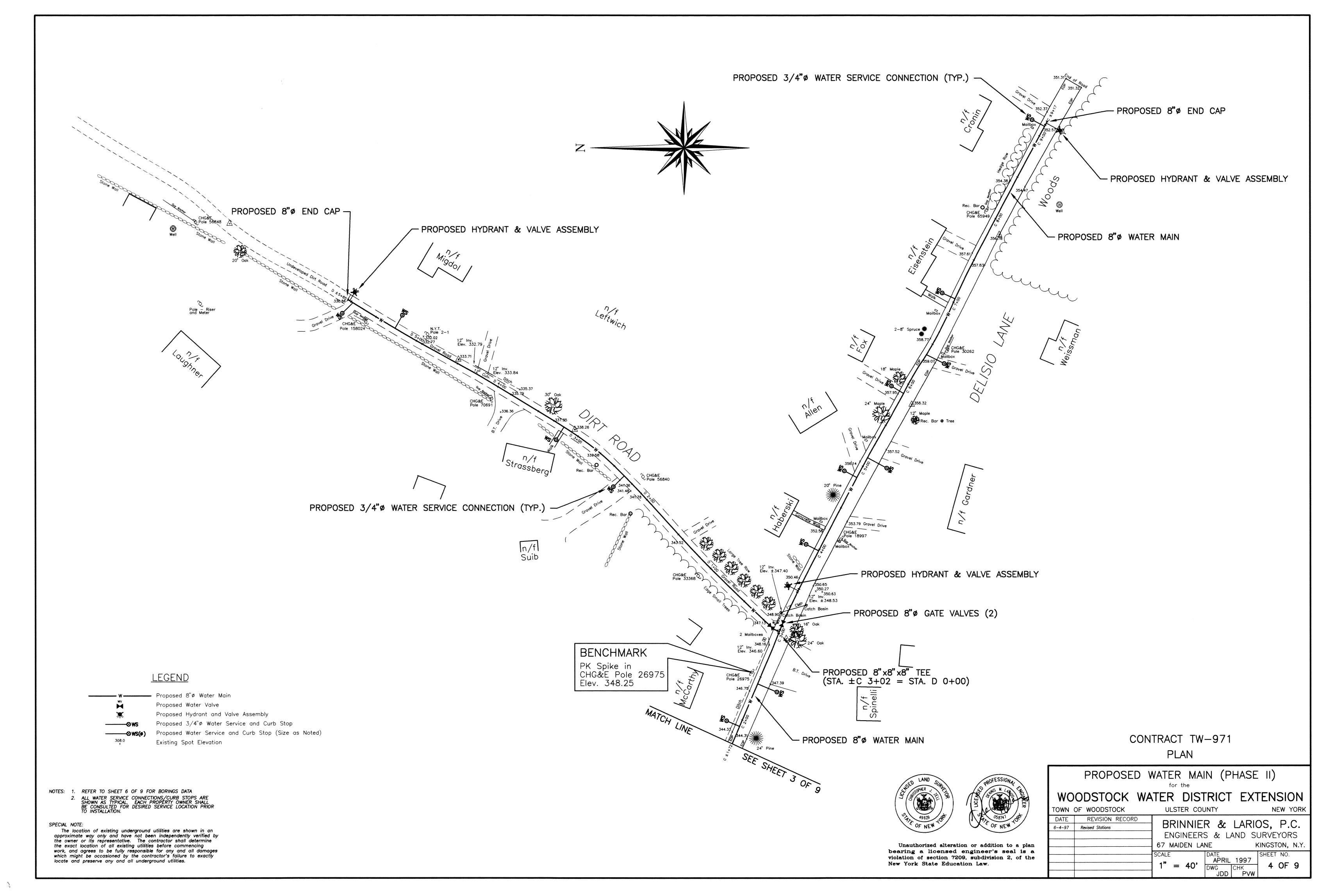
New York State Education Law.

1 OF 9

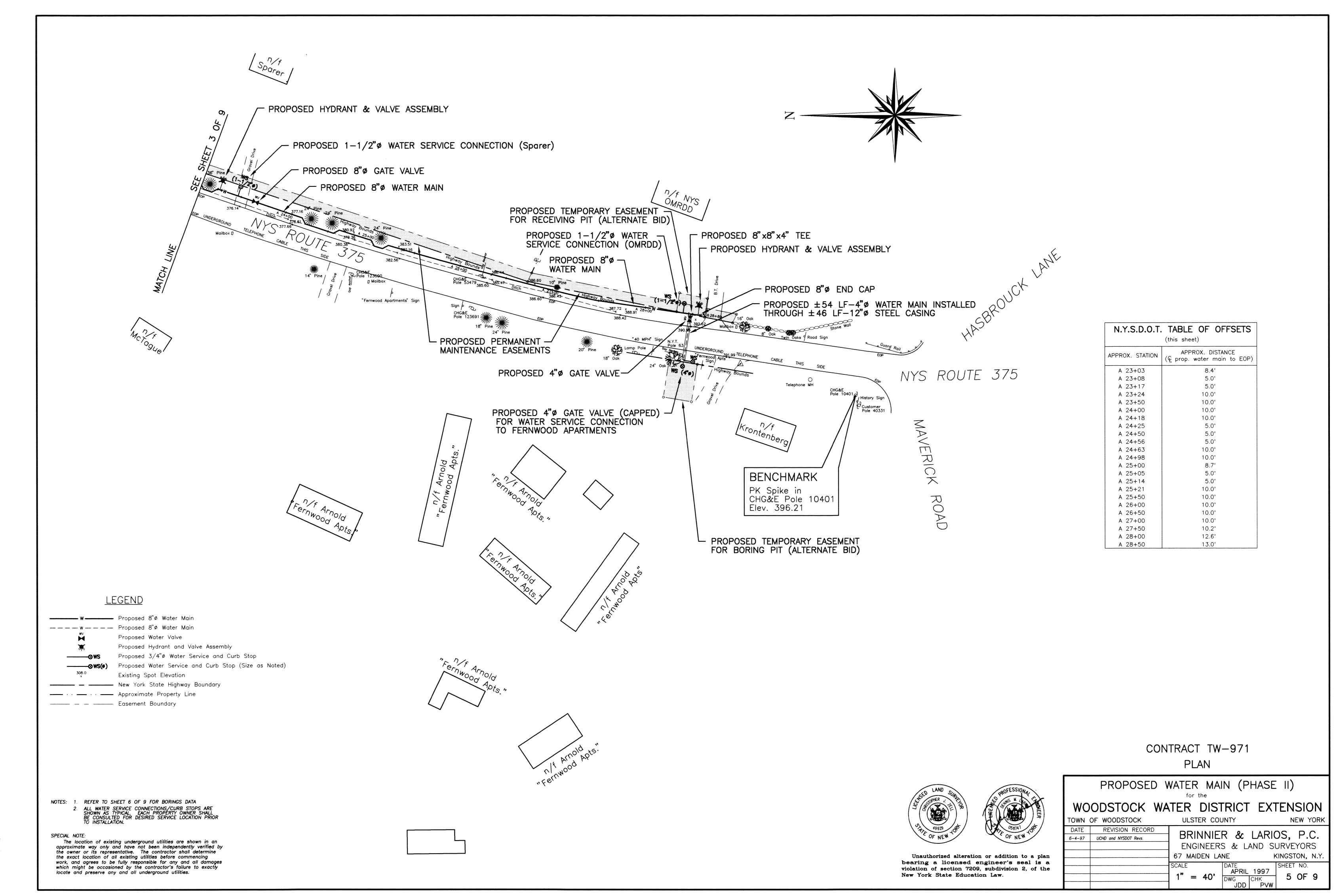




USPISFI



KBPISFI



UBPISE

# Soil Exploration Data (SHEET 2)

Station (Approx.) Depth to Refusal

Station (Approx.)	Depth to Refusal
A 0+50	4.5'
A 1+00	2.5'
A 1+50	3.5'
A 2+00	3.0'
A 2+50	3.0'
A 3+00	4.0'
A 3+50	1.0'
A 4+00	3.0'
A 4+50	1.0'
A 5+00	1.5'
A 5+50	0.5'
A 6+00	3.0'
A 6+50	2.0'
A 7+00	1.5'
A 7+50	2.0'
A 8+00	4.5'
A 8+50	1.5'
A 9+00	3.0'
A 9+50	No Rock
A 10+00	No Rock
A 10+50	No Rock
A 11+00	No Rock
B 2+90	6.0'

## Soil Exploration Data (SHEET 3)

Station (Approx.) Depth to Refusal

Station (Approx.)	Depth to Refusal
A 11+50	No Rock
A 12+00	No Rock
A 12+50	No Rock
A 13+00	No Rock
A 13+50	6.0'
A 14+00	5.5'
A 14+50	4.5'
A 15+00	6.0'
A 15+50	6.0'
A 16+00	5.0'
A 16+50	3.5'
A 17+00	3.0'
A 17+50	2.5'
A 18+00	2.0'
A 18+50	3.0'
A 19+00	2.0'
A 19+50	2.0'
A 20+00	2.0'
A 20+50	1.0'
A 21+00	1.5'
A 21+50	2.0'
A 22+00	2.5'
A 22+50	2.5'
C 0+50	4.0'
C 1+00	5.0'
C 1+50	5.0'

# Soil Exploration Data (SHEET 4)

Station (Approx.)	Depth to Refusal	
C 2+00	4.5'	
C 2+50	4.0'	
C 3+00	3.0'	
C 3+50	4.5'	
C 4+00	No Rock	
C 4+50	3.0'	
C 5+00	3.0'	
C 5+50	No Rock	
C 6+00	No Rock	
C 6+50	5.5'	
C 7+00	No Rock	
C 7+50	No Rock	
C 8+00	3.5'	
C 8+50	No Rock	
C 9+00	No Rock	
D 0+50	2.5'	
D 1+00	No Rock	
D 1+50	No Rock	
D 2+00	No Rock	
D 2+50	No Rock	
D 3+00	4.5°	
D 3+50		
	No Rock	
D 4+00	No Rock	
D 4+50	No Rock	
D 5+00	3.5'	

No Rock

D 5+50

# Soil Exploration Data (SHEET 5)

Station (Approx.)	Depth to Refusal
A 23+00	2.0'
A 23+50	3.5'
A 24+00	4.5'
A 24+50	2.0'
A 25+00	1.0'
A 25+50	1.5'
A 26+00	4.0'
A 26+50	2.5'
A 27+00	2.0'
A 27+50	3.0'
A 28+00	1.5'
A 28+50	3.0'

CONTRACT TW-971 BORING LOGS



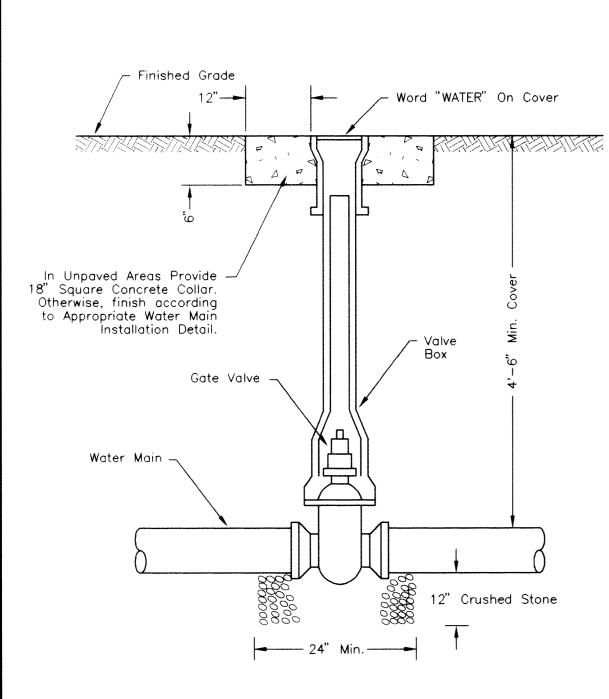


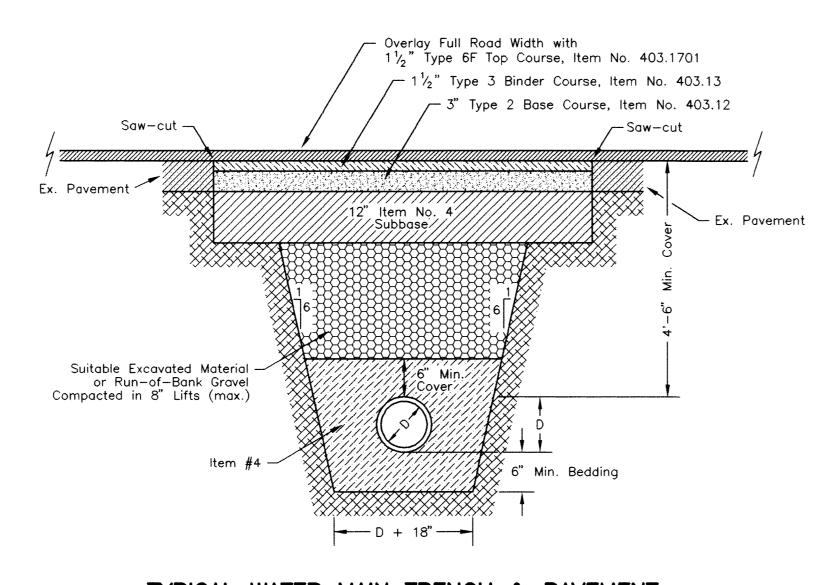
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<b>3</b>				
	PROPOSED	WATER MA	IN (PHASE	Ξ ΙΙ)
WO	ODSTOCK WA	ATER DIST	TRICT EX	TENSION
TOWN	OF WOODSTOCK	ULSTER COL	YTAL	NEW YORK
DATE	REVISION RECORD	ENGINEER: 67 MAIDEN LA		•
		SCALE	DATE 1007	SHEET NO.

NOTE:

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# Mound backfill material slightly to allow for settlement - Existing Grade Suitable Excavated Material or Run-of-Bank Gravel Compacted in 8" Lifts (max.) → D + 18" →

### 1 - 4½" Hose Connection -- $2\frac{1}{2}$ Hose Connections Finished Grade - Word "WATER" - Concrete Thrust In Unpaved Areas Provide 18" Square Concrete Collar. Otherwise, finish according to Appropriate Water Main Hydrant Installation Detail. Gate Valve -2 Cu. Yds. Crushed Stone Or Gravel At Drain Thrust Block -— Water Main

### HYDRANT AND VALVE ASSEMBLY DETAIL Not To Scale

### TYPICAL WATER MAIN TRENCH & PAVEMENT REPLACEMENT FOR TOWN ROADS Not To Scale

Overlay Saw-Cut Area with

Type 6F Top, Item No. 403.1701

Type 3 Binder, Item No. 403.13

— Ex. Pavement

Ex. Pavement ---

Suitable Excavated Material —

or Run-of-Bank Gravel

Two 4" Type 1 Base — Courses, Item No. 403.11

TYPICAL WATER MAIN TRENCH & SURFACE RESTORATION FOR UNPAVED ROADS AND DRIVEWAYS Not To Scale

12" K-crete

/Subbase/

TYPICAL WATER MAIN TRENCH & PAVEMENT

REPLACEMENT FOR NYS ROUTE 375

Not To Scale

- Overlay Saw—Cut Area with

 $1\frac{1}{6}$ " Type 6F Top, Item No. 403.1701

Finished Grade

 $1\frac{1}{6}$ " Type 3 Binder, Item No. 403.13

Ex. Pavement

# GENERAL WATER MAIN INSTALLATION NOTES

### <u>JOINTS</u>

A minimum of two (2) metal wedges shall be used at each water main joint.

### IDENTIFICATION TAPE

Metallic—lined plastic underground warning tape shall be installed during backfilling of trench for underground water mains. Tape shall be located 6 — 8 inches below finished grade, directly over water mains.

### SEPARATION OF WATER MAINS AND SEWERS

### PARALLEL INSTALLATION

Water mains shall be laid at least 10 feet horizontally from any existing or proposed sewer. The distance shall be measured edge to edge. In cases where it is not practical to maintain a 10 foot separation, the reviewing authority may allow deviation on a case-by-case basis, if supported by data from the design engineer. Such deviation may allow installation of the water main closer to a sewer, provided that the water main is laid in a separate trench or on an undisturbed earth shelf located on one side of the sewer at such an elevation that the bottom of the water main is at least 18 inches above the top of the sewer.

### **CROSSINGS**

Water mains crossing sewers shall be laid to provide a minimum vertical distance of 18 inches between the outside of the water main and the outside of the sewer. This shall be the case where the water main is either above or below the sewer. At crossings, one full length of water pipe shall be located so both joints will be as far from the sewer as possible. Special structural support for the water and sewer pipes may be required.

### **EXCEPTION**

The reviewing authority must specifically approve any variance from the requirements of the above referred sections when it is impossible to obtain the specified distance separation.

### INSPECTION AND TESTING OF WATER MAINS

### INSPECTION AND TESTING

Upon completion of the installation and backfilling portions of the water main, the pipe shall be inspected by the methods subsequently described. This inspection and testing shall be undertaken as the work progresses. The Engineer shall be notified in advance of such inspection and testing and the Contractor shall provide all facilities, materials, equipment and labor required for such testing. Such inspection and testing shall be prerequisite for acceptance

### VISUAL INSPECTION:

An inspection of the interior of the pipe shall be made while it is suspended over the trench. Before lowering, it shall be inspected for defects and rung with a light hammer to detect cracks. Any foreign material found in the interior of the pipe, any dirt, debris, or other objects shall be removed by the Contractor.

### PRESSURE TESTING:

Pressure and leakage test should be equal to Section 13, Hydrostatic Tests, prepared by the American Water Works Association, C-600-87.

### **CHLORINATION**

The disinfection and bacteriological analysis of the water mains shall be done in accordance with American Water Association Standards, C651—86, with the exception of Item 5.1, and shall be approved by the Ulster County Department of Health.

## CONTRACT TW-971 DETAILS

**NEW YORK** 

KINGSTON, N.Y

7 OF 9

SHEET NO.





# PROPOSED WATER MAIN (PHASE II) WOODSTOCK WATER DISTRICT EXTENSION DATE 6-4-97

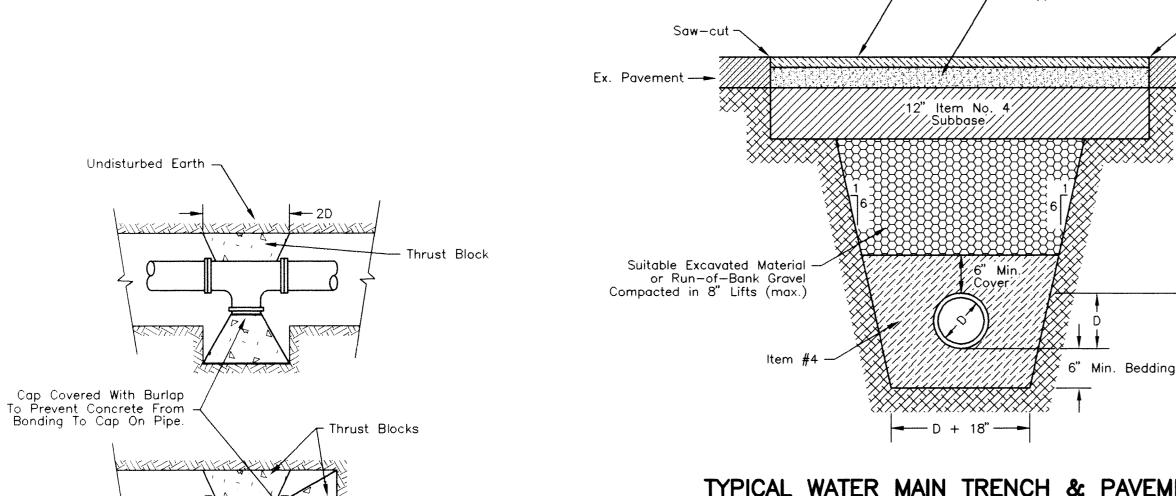
Unauthorized alteration or addition to a plan bearing a licensed engineer's seal is a violation of section 7209, subdivision 2, of the New York State Education Law.

# Rock Payment Line —

### PAY LIMIT LINE FOR TRENCH ROCK Not To Scale

TOWN OF WOODSTOCK ULSTER COUNTY REVISION RECORD BRINNIER & LARIOS, P.C. UCHD Revs. ENGINEERS & LAND SURVEYORS 67 MAIDEN LANE AS SHOWN DWG CHK

### DETAIL OF GATE VALVE ON LINE Not To Scale



Undisturbed Earth

(All Thrust Blocks)

SECTION A-A

**BENDS** 

CONCRETE THRUST BLOCK DETAILS

Not To Scale

The location of existing underground utilities are shown in an

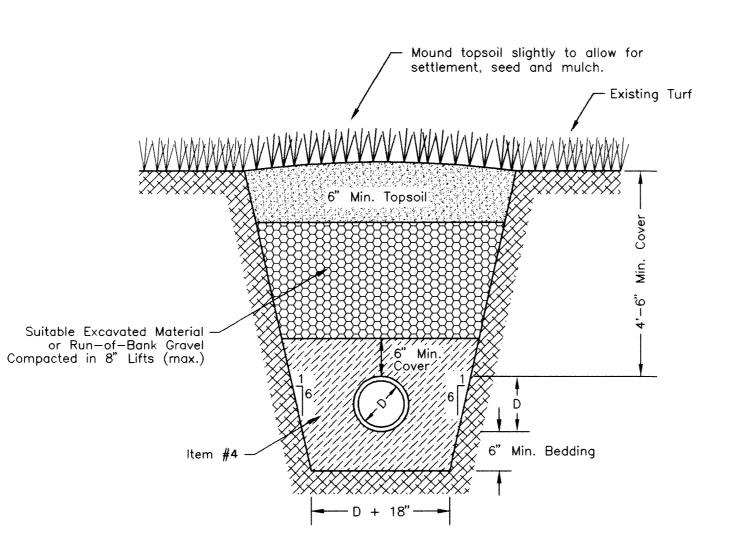
approximate way only and have not been independently verified by the owner or its representative. The contractor shall determine

the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages

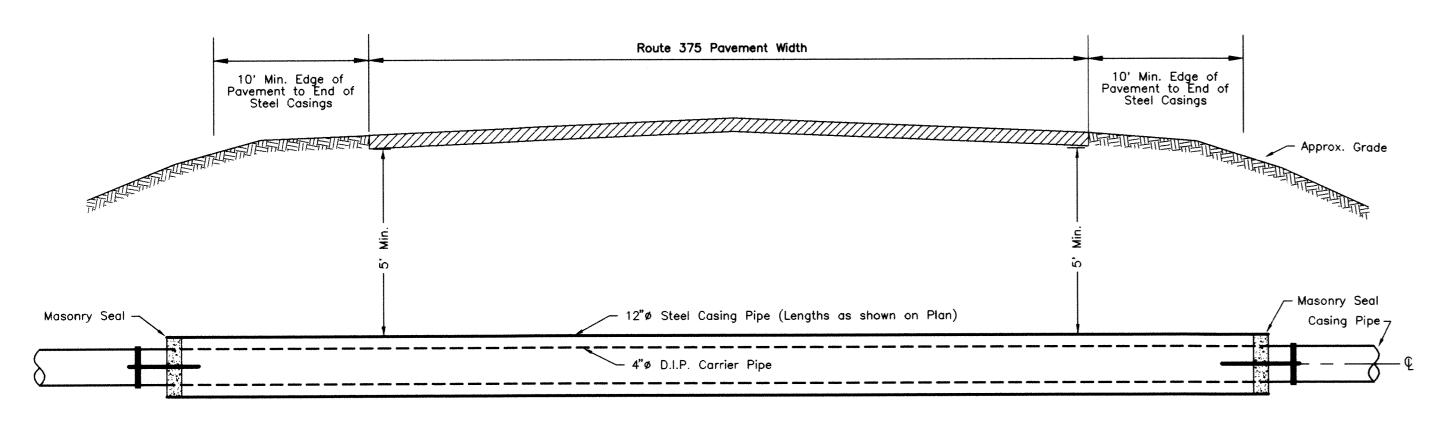
locate and preserve any and all underground utilities.

which might be occasioned by the contractor's failure to exactly





TYPICAL WATER MAIN TRENCH & SURFACE RESTORATION FOR UNPAVED AREAS Not To Scale



NOTE: PROVIDE TWO 1/2" THREADED RODS AT EACH END FOR USE WITH LOCKING FLANGES OR PIPE BANDS. WATER MAINS SHALL BE SECURELY ATTACHED TO CASING AT BOTH ENDS.

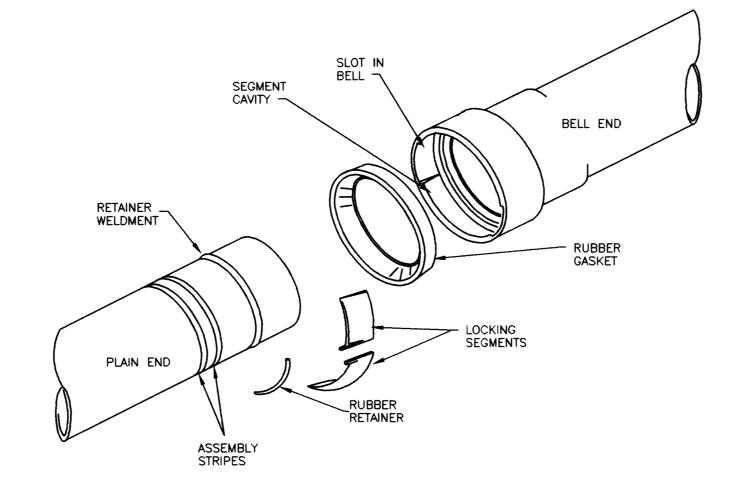
### LONGITUDINAL SECTION AT N.Y.S. ROUTE 375 CROSSINGS

Not To Scale

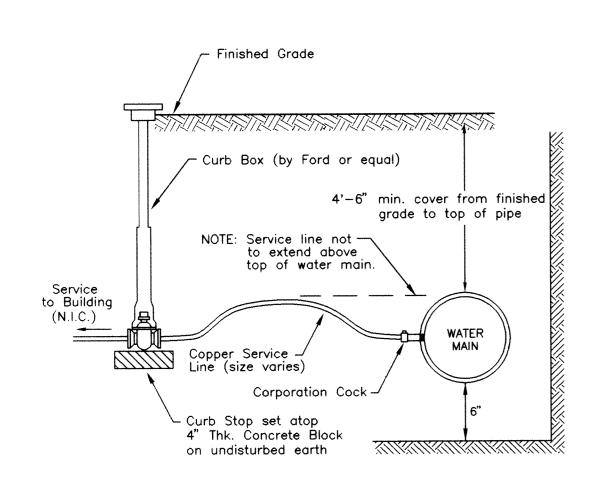
### PIPE CROSSING DATA

	<u>Carrier Pipe</u>	<u>Casing Pipe</u>
Contents to be Handled Normal Operating Pressure Nominal Size of Pipe O.D. Diameter* I.S. Diameter Wall Thickness	WATER ± 100 psi 4" 7.00"* 4" ± 0.06" 0.29"	CARRIER PIPE None 12" 12.75" 12.00" 0.375"
Weight Per Foot Material Process of Manufacture Specification Grade or Class	13.1# Ductile Iron Centrifugally Cast See Note Below Class 52 (350 psi)	49.56# Steel Elec. Welded Steel AWWA C202-64 GRADE B
Test Pressure Type of Joint Type of Coating Details of Cathodic Protection Details of Seal or Protection	350 psi Restrained (see Detail) Bituminous None	1200 psi Welded None None
at Ends of Casing Method of Installation	—— Push thru Casing	Masonry Trenching OR Boring

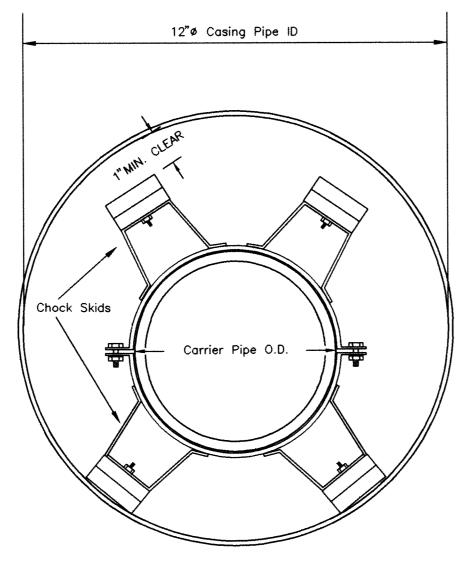
Note: ANSI/AWWA C150/A21.50 or C151/A21.51 Latest Revision \*Bell



DETAIL OF RESTRAINED JOINT PIPE AND FITTINGS

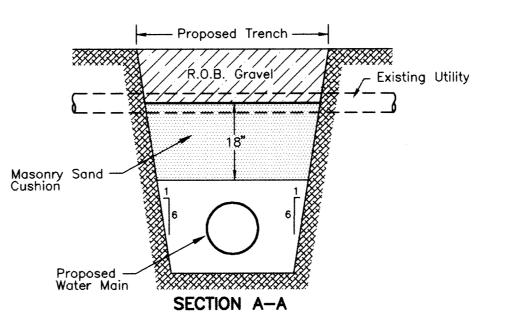


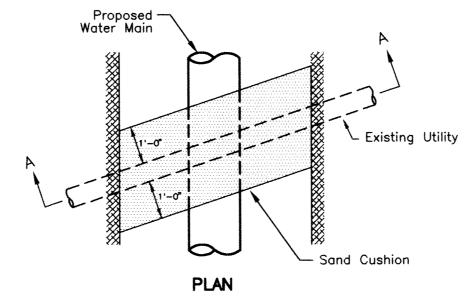
TYPICAL WATER SERVICE CONNECTION Not To Scale



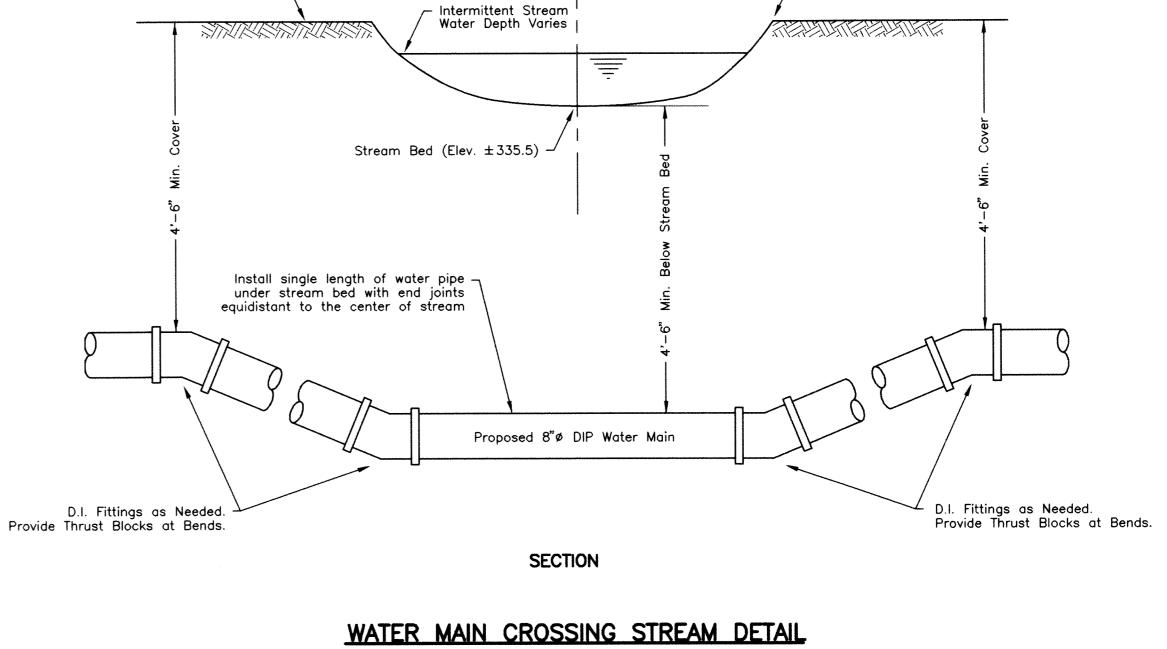
NOTE: Three (3) casing chocks per pipe length at 6' spacings.

DETAIL OF PIPE CASING CHOCK





UTILITY CROSSING DETAIL Not to Scale



CL Stream (Sta. A 12+50±)

Existing Grade

Not To Scale

### GENERAL NOTES 1. Site disturbance shall be limited to those areas as called for on the plan. 2. Temporary seeding with annual rye grass or other rapidly growing mixture and mulch shall be performed on disturbed soil remaining vacant for more than one

3. After grading, temporary berms and swales shall be installed as needed to divert runoff from newly graded areas to prevent erosion until ground cover has

EROSION CONTROL NOTES

established. 4. Hay bales or silt fences shall be placed at bottom edge of slopes to prevent siltation and shall be maintained until vegetation is established.

┌─ Top Edge Stream Bank (Elev. ±338.5)

### SILTATION CONTROL - HAY BALES

1. Bales shall be placed at the toe of slope in a row

with ends tightly abutting adjacent bales.

2. Each bale shall be embedded in the soil a minimum of four (4) inches, and placed so the bindings are

horizontal. 3. Bales shall be securely anchored in place by either two stakes driven through the bale; the first stake in each bale shall be driven toward the previously

laid bale at an angle to force the bales together. Stakes shall be driven flush with the bale. 4. Inspection shall be frequent and repair or replacement

shall be made promptly as needed.

5. Bales shall be removed when they have served their usefulness so as not to block or impede drainage.

### SILTATION CONTROL - SILT FENCE

 If required by the Engineer silt fences shall consist of a 24" high geotextile fabric (filter cloth) installed parallel with the toe of slopes

2. The fabric shall be fastened securely at the top and mid section to min. 3' long fence posts placed max. 10 feet on center; the bottom 8 inches of fabric

shall be laid into the trench to prevent undermining. 3. Adjoining sections of filter cloth shall be overlapped

by six inches and folded. 4. Maintenance shall be performed as needed and

material removed when bulges develop in the silt

Embankment slope

TYPE 'B'

(To be used where the existing

ground slopes away from the toe of the embankment.)

Not To Scale

BALED HAY EROSION CHECK

Varies depending on height of

grade at toe of slope and

existing ground intersection

Overlap edges -

TYPE 'A'

(To be used in locations where the existing ground slopes in

(toward the toe of the embankment.)

slope and steepness of resulting

2"x2"x3' Stakes each bale -

\_\_ 2 2"x2"x3' Stakes each bale -

- Embankment slope



Unauthorized alteration or addition to a plan bearing a licensed engineer's seal is a violation of section 7209, subdivision 2, of the

New York State Education Law.

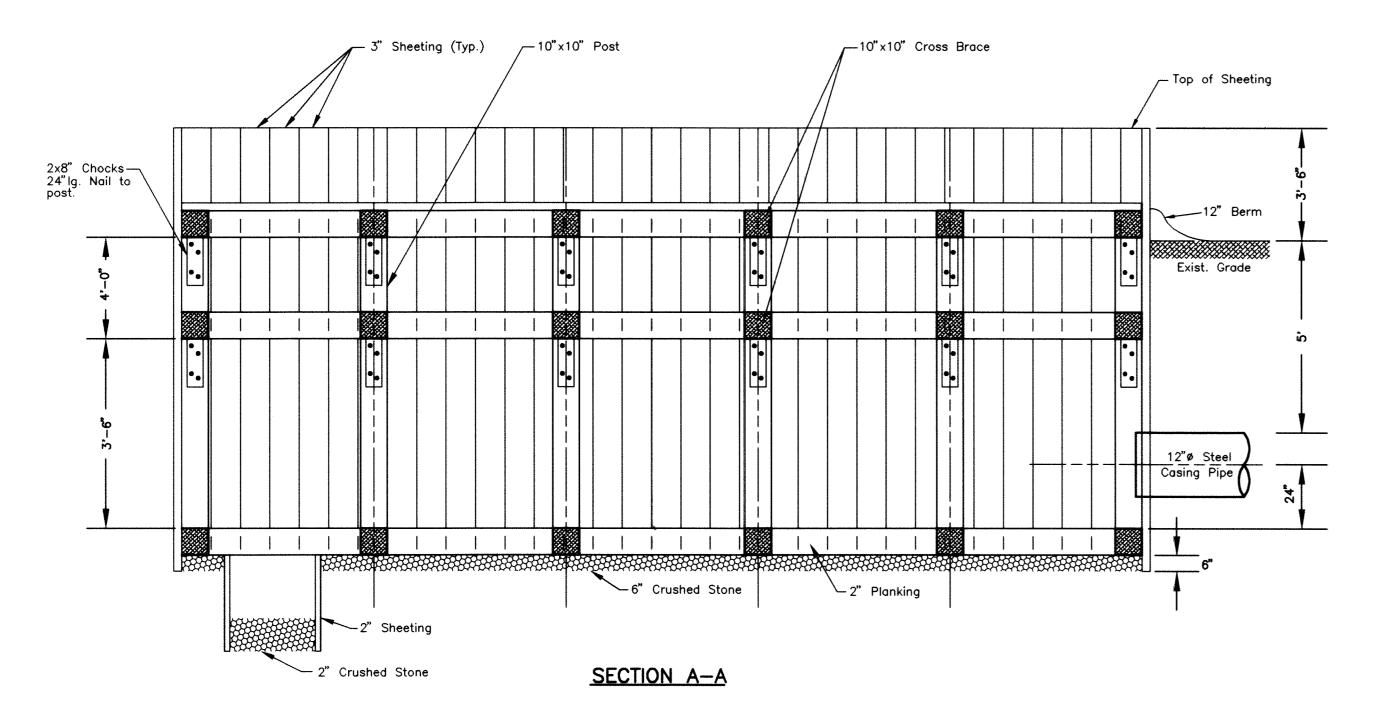
### CONTRACT TW-971 **DETAILS**

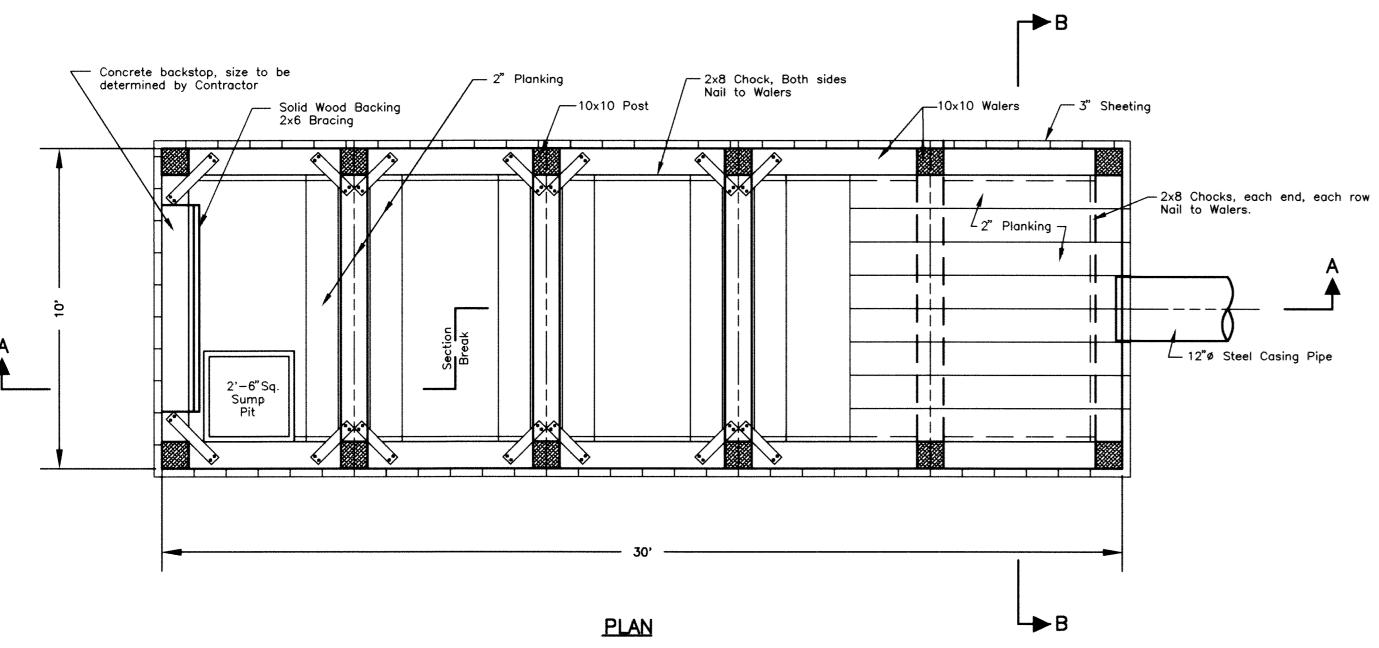
# PROPOSED WATER MAIN (PHASE II)

# WOODSTOCK WATER DISTRICT EXTENSION

TOWN	OF	WOODST	оск	UI	STER COL	INTY		NI	EW Y	/ORK
DATE		REVISION	RECORD	B	RINNIEI	R &	LARIO	OS,	Ρ.	C.
				] EI	NGINEERS	S & L	AND S	URVE	YOR	RS
	<u> </u>			67 1	MAIDEN LAI	NE	ł	KINGST	ON,	N.Y.
	<u> </u>			SCALE		DATE	1007	SHEET	NO.	
				AS	SHOWN	DWG	CHK	8	OF	9
						JDD	PVW			

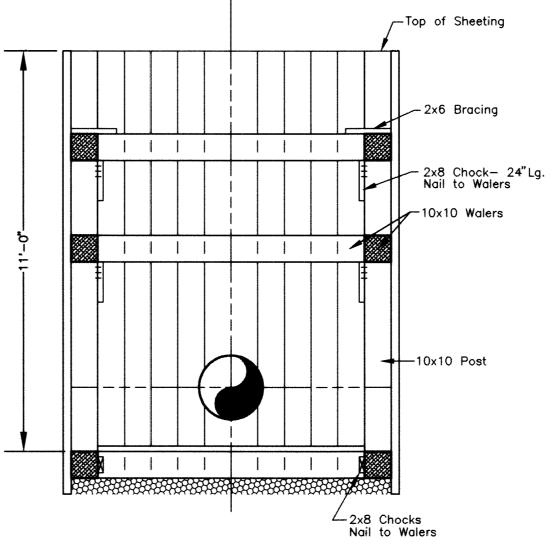
The location of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.





JACKING PIT DETAILS

Not To Scale



SECTION B-B

NOTES:

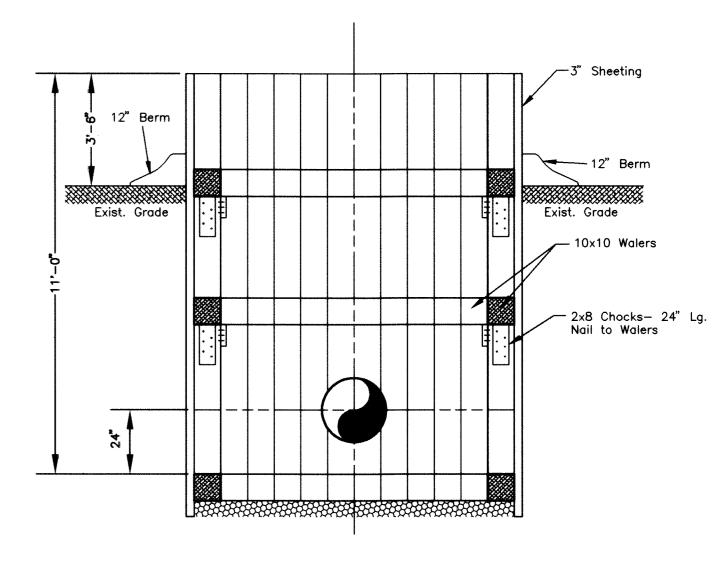
 3" Sheeting shall comply with NYSDOT Section 552. Timber and Lumber shall comply with NYSDOT Section 553.

Minumum allowable stress of 15,000 psi for all sheeting, post, walers and Cross braces.

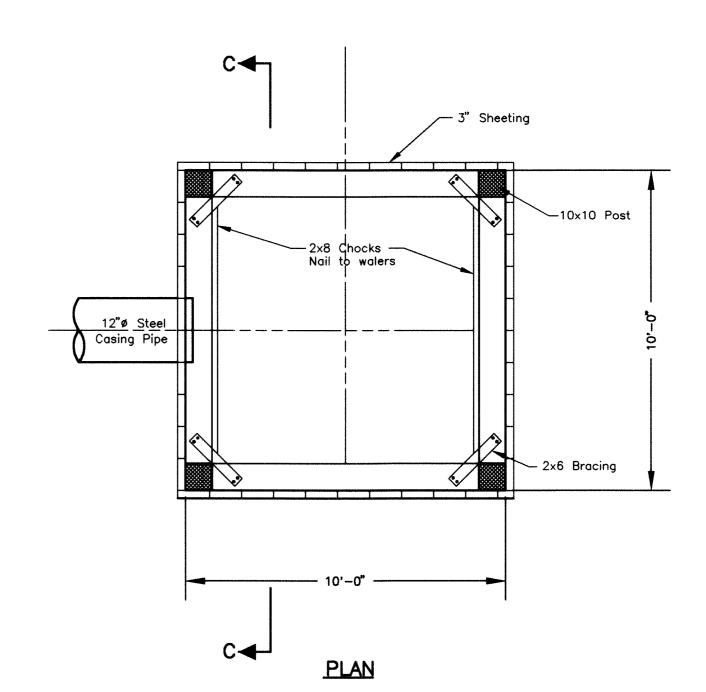
3. In the event that cross braces must be removed to install machinery or material, the contractor shall notify the Engineer as to the duration, location and number of braces to be removed.

 Elevation of casing pipe to be determined in the field. Minimum depth of 5'-0" from bottom of pavement (at lowest point) to top of casing.

 A minimum separation of 10' shall be maintained between the edge of pavement and any boring pit.



SECTION C-C



RECEIVING PIT DETAILS

ALTERNATE BID
CONTRACT TW-971
DETAILS





Unauthorized alteration or addition to a plan bearing a licensed engineer's seal is a violation of section 7209, subdivision 2, of the New York State Education Law.

A	PROPOSE	D WATER	R MAIN	(PHAS	E II)
ENGINE			the		
	WOODSTOCK	WATER	DISTR	ICT EX	<b>(TENS</b>

WOODSTOCK WATER DISTRICT EXTENSION

TOWN OF WOODSTOCK ULSTER COUNTY NEW YORK

DATE REVISION RECORD BRINNIER & LARIOS, P.C.

ENGINEERS & LAND SURVEYORS

67 MAIDEN LANE KINGSTON, N.Y.

SCALE APRIL 1997

DWG CHK PVW 9 OF 9

NOTE:

The location of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.

AUGUSTUS S. BRINNIER, P.E., L.L.S. Lic. No. 22865

CHRISTOPHER J. ZELL, L.L.S. Lic. No. 49629

BRINNIER and LARIOS, P.C.

PROFESSIONAL ENGINEERS AND LAND SURVEYORS 67 MAIDEN LANE – U.P.O. BOX 3720 KINGSTON, NEW YORK 12402

DESIGN
REPORTS
SUPERVISION
CONSULTING SERVICES

TELEPHONE (914) 338-7622 FAX (914) 338-7660 SUBDIVISIONS TITLE SURVEYS TOPOGRAPHIC SURVEYS

CHRISTUS J. LARIOS, P.E.

Lic. No. 34667

DENNIS M. LARIOS, P.E.

Lic. No. 58747

June 17, 1997

Town Board Town of Woodstock Town Offices 81 Tinker Street Woodstock, New York 12498

Re:

Proposed Water Main (Phase I)

Contract No. TW-963

### Dear Board Members:

We hereby certify that the work, as per attached Contractor's Final Payment Estimate No. 3, has been completed in substantial completion with the Contract Documents and the final amount of \$6,348.00 is now due and owing to Roehrs Construction, Inc. of Clintondale, New York.

Also enclosed are copies of Certificate of Substantial Completion, Contractor's Affidavit of Payment of Debts & Claims, and Consent of Surety Company to Final Payment for your files.

If you have any questions, please do not hesitate to contact our office.

Very truly yours,

BRINNIER AND LARIOS, P.C.

Dennis M. Larios, P.E.

cc: Roehrs Const. Inc.

Encs.

DML/je

		YUUCIILIN			1		NUMBER.	
	TOWN	OF WOODSTOCK			DATE VOUCE	HER RECEIVED		
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IMANT'S		onstruction, Inc	•	1				
AME AND DRESS	P.O. Box Clintonda	406 11e, NY 12515					TOTAL	-
L		El .			ENTERED ON	ABSTRACT NO.		
LED INVOICE FICATION BE	S MAY BE ATTACHED LOW MUST BE SIGNE	D, AND TOTAL ENTERED ON	THIS VOUCHER.	TE	RMS		PURCHASE _ ORDER NO.	
DATE	VENDOR'S INVOICE NO.	QUANTITY	DESCRIPTIO	ON OF MATER	RIALS OR SERVI	CES .	UNIT PRICE	AMOUNT
6/13/97		Return of	Retainage o	on Contra	ict TW-963			
		For The W	Water Main oodstock Wat age withheld	ter Distr	ict Extens	ion		\$6,348.00
				• /		2		
		v	z.		€ e			
	*							
			F					
			(SEE INSTRUCTIONS				TOTAL	\$6,348.00
	d Roehrs	•	CLAIMANT'S					40.00
has been ally due.		ems, services and dis ed; that taxes, from	hurramente chasa		1	unt in the amou he municipality included; and		
6/13,	/97	Dane	Stack	1		Presid	lent	
DAT	E		SIGNATURE				TITLE	
	DEPARTUE	IT ADDROVED	SPACE BELOW FO	MUNICIPAL		PROVAL FOR	DAVIENT	
furnishe	ove services or n	NT APPROVAL naterials were rendere pality on the dates sta priect.	d or oted	7	This clai	PROVAL FOR in is approved appropriations	and ordered p	
		•						

DATE

AUDITING BOARD

DATE

AUTHORIZED OFFICIAL

		PACES SIGE PACE (SIGE) PACE ON CONTROL PACE SIGE ONE OF PACES	AGE ONE OF PACIFIC
TO OW'NER: Town Roard	DECOURTED TO THE PROPERTY OF T		
Town Poard	"Will." Froposed Water Main (Phase I) Application No. 3 Final	Application and 3 Final	:
Town of Woodstock	For The Woodstock Mater District Dutonoismus,	THE TOTAL WAY TO THE THE	Distribution to:
THE CONTRACT OF THE PARTY OF TH	TOT THE HOOR HOLE DISCITLE EALE	IS TRUBUCIO IO:	OWNER
uster county, NY		PROJECT NOS.: TW-963	- ARCHITECT
FROM CONTRACTOR: Roehrs Construction, Inc.	VIA ARCHITECT: Brinier & Larios	S. C.	CONTRACTOR
P.0. Box 406		CONTINACT DATE: 10-22-96	
Clintondale, NY 12515			
CONTRACT BOB.			
Woodstock Water District Extension	nsion		
CONTRACTOR'S APPLICATION FOR DAVMENT	*	The undersigned Contractor certifies that to the best of the Contractor's knowledge infor-	r's knowledge infor-

Application is made for payment, as shown below, in connection with the Contract. Continuation Sheet, AIA Document G703, is attached.

#2 +360.00 - #3 -2,100.00	Net change by Change Orders	. CONTRACT SUM TO DATE (Line 1 ± 2) \$ 126,960.00	. TOTAL COMPLETED & STORED TO DATE \$ 126,960.00 (Column G on G703)	0 8	0	0
#2 +360.00 - #3 -2;	Net change by Change C	. CONTRACT SUM TO DAT	Column G on G703)	a % of Completed Work	(Columns D + E on G703)  b% of Stored Material	(Column F on G703)  Total Retainage (Line 5a + 5b or  Total in Column 1 of G703)

(Line 4 less Line 5 Total)

- 120,612.00 (Line 6 from prior Certificate) .....s. 7. LESS PREVIOUS CERTIFICATES FOR PAYMENT
  - 6,348.00 9. BALANCE TO FINISH, INCLUDING RETAINAGE 8. CURRENT PAYMENT DUE (Line 3 less Line 6)

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in	Change Order #2	Change Order #2 Change Order #3
previous months by Owner	360.00	2100.00
Total approved this Month		
TOTALS	360.00	2100.00
NET CHANGES by Change Order		1740.00
		00.01.4

in accordance with the Contract Documents, that all amounts have been paid by the mation and belief the Work covered by this Application for Payment has been completed Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: Roehrs Construction, Inc.

Date: 6/13/97 Irene F. Scordino Subscribed and sworn to before County of Ulster State of: New York

Notary Public, State of New York Commission Expires Sept. 3rd. In and For Ulster County # 4986027 day of June, 1997 refin

My Commission expires: September 3, 1997

Notary Publica

Cons

# ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising this application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

(Attach explanation if amount certified differs from the amount applied for. Initial all Jigures on this Application and on the Continuation Sheet that are changed to 6,348.00 conform to the amount certified.)

This CerNACate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without 6/11/97 prejudice to any rights of the Owner or Contractor under this Contract. Date:

BRINNIER AND LARIOS, P.C.

ENGINEER:

MAKANAKK

PAILTIONS VE. - LEAL STATE AND AND SELECTION OF SELECTION

### **CERTIFICATE OF SUBSTANTIAL COMPLETION**

OWNER'S Project NoTW-963	ENGINEER'S Project NoTW-963
Project _	Proposed Water Main (Phase I) Woodstock Water District Extension
CONTRACTORRoehrs Constru	ection, Inc.
Contract For General Construction	Contract Date10/22/96
he following specified parts thereof:	on applies to all Work under the Contract Documents or to
and To	- CWINCI
The Work to which this Certificate ap OWNER, CONTRACTOR and ENGINO omplete in accordance with the Contra	plies has been inspected by authorized representatives of NEER, and that work is hereby declared to be substantially ct Documents on
June 2, 1997 Date of St	ubstantial Completion
complete all the Work in accordance wi a specified part of the Work the item	d or corrected is attached hereto. This list may not be all- n in it does not alter the responsibility of CONTRACTOR the Contract Documents. When this Certificate applies is in the tentative list shall be completed or corrected by as of the above date of Substantial Completion.

	N/A
	between OWNER and CONTRACTOR for security, operation, safety tilities and insurance shall be as follows:
RESPONSIBILITIE	S:
OWNER:	All of the above
CONTRACTOR:	None
The following docum	nents are attached to and made a part of this Certificate:
Executed by ENGIN	EER onJune .2, 19.97.
By	ENGINEER  O
The CONTRACTOR	accepts this Certificate of Substantial Completion on June 4,
	CONTRACTOR  CONTRACTOR

DENNIS M. LARIOS, P.E. Lic. No. 58747 CHRISTOPHER J. ZELL, L.L.S. Lic. No. 49629

# BRINNIER and LARIOS, P.C. PROFESSIONAL ENGINEERS & LAND SURVEYORS 67 MAIDEN LANE KINGSTON, NEW YORK 12401

DESIGN REPORTS SUPERVISION CONSULTING SERVICES

TELEPHONE (914) 338-7622 FAX (914) 338-7660 SUBDIVISIONS TITLE SURVEYS TOPOGRAPHIC SURVEYS

March 6, 2000

Mr. Jeremy Wilber, Supervisor Town of Woodstock Town Offices 81 Tinker Street Woodstock, New York 12498

**RE:** Woodstock Water District Extension

Ametek/Rotron Area Contract TW-971

### **Dear Supervisor Wilber:**

Enclosed please find several items that we have received from HCS Excavating, Inc., for project close-out and final payment for the above referenced contract. Enclosures are as follows:

- 1. One (1) *Town of Woodstock Payment Voucher*, Payment Application #7, in the amount of \$7,935.00.
- One (1) Application and Certificate for Payment (AIA Document G702), with accompanying breakdown.
- 3. One (1) Contractor's Affidavit of Release of Liens (AIA Document G706A).
- 4. One (1) Consent of Surety Company to Final Payment (AIA Document G707).
- 5. Three (3) copies each of Change Orders No. 1, No. 2, and No. 3. Please sign and return two (2) copies of each Change Order to me. These Change Orders formalize the requested changes in the scope of work, as well as payment for such changes.

Brinnier and Larios, P.C., hereby certifies that the work, as per the attached Contractors Payment Application #7 (Final Payment), has been completed in substantial conformance with the Contract Plans and Specifications, and the amount of \$7,935.00 is now due and owing to HCS Excavating, Inc., of Newburgh, New York.

As you may know, the Town of Woodstock and EG&G entered into an agreement whereby the Town would be reimbursed for such payment requests. To obtain reimbursement, the approved payment application should first be submitted to

Mr. Larry Bruck of Ametek Rotron (9 Hasbrouck Lane, 679-1560), who in turn will forward the payment application to Mr. Jack Healy, Esq., Senior Attorney, PerkinElmer (formerly EG&G). The Town should receive payment from PerkinElmer within two (2) weeks of submittal to Mr. Bruck. Payment to the Contractor (HCS) can be made accordingly.

Please feel free to call me if you have any questions regarding the enclosed.

Sincerely,

BRINNIER AND LARIOS, P.C.

John D. Davidson, P.E. Senior Project Engineer

Atts.

cc: Rod Futerfas, Esq.

Jack Healy, Esq., PerkinElmer

Larry Bruck, Ametek-Rotron

Harry Serviss, HCS Excavating, Inc.

### TOWN OF WOODSTOCK

81 Tinker Street
Woodstock, N. f. 12498
VOUCHER

MENT

RMS

794CS Cheavating Inc. 319 No. Plank Rd New burgh ny 12550

DO NOT WRITE II	N THUS E	XOX	
Date Voucher Received			1
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TOTAL		1	1

5	Vendor's Invoice No.	Quantity Description of Materials or Services		Ūni	t Price	Amou	nt
		Wood stock Water District	·			7935	00
		Your of Woodstock MY Contract # TW-971					
	`	Contract # TW-971				<i>:</i>	
		Payment application 7 Final Payment					
		Dated February 9th 2000	÷				r
		See attacked					
		(See Instructions on Reverse Side)		TO	TAL	7,935	5.00

Harry L.	Servers	hi.	CERTIFICATION certify that the about	we account in the s	mount at 5 %	93500
part has been paid or s med is actually due.	atisfied; that taxes	from which the	municipality is exe	empt, are not incl	uded; and that il	he amount
DATE '		SIGNATURE	r Municipal Use)		TITLE	

### DEFARTMENT APPROVAL

: above services or materials were rendered or furnished the municipality on the dates stated and the charges are rect

### APPROVAL FOR PAYMENT

This claim is approved and ordered peid from the appropriations indicated above.

# CORD-1983

,n 2000

APPLICATION AND CERTIFICATE	CERTIFICATE	FOR PAYMEN	FOR PAYMENT AM DOCUMENT GYE	Unstructions on mesers assess	
NO (OWNER): TOWN OF WE	Woodstock	PROJECT: Woodst	PROJECT: Woodstock Water District	APPLICATION NO:	Distribution to:
		Town of V Contract	Town of Woodstock, NY Contract # TW - 971	FRIOD TO: Final	D OWNER D ARCHITECT
FROM (CONTRACTOR): HCS EX	Excavating Inc.	VM (ARCHITECT):	y	ARCHITECT'S	D CONTRACTOR
				PROJECT NO:TW - 971	<b>-</b>
			•	CONTINCT DATE:	
CONTRACTOR'S APPLICATION FOR PAYMENT	PPLICATION FC	<b>JR PAYMENT</b>	Application is made for Payms Continuation Shoet, AlA Door	Application is made for Payment, as shown below, in connection with the Contract. Confined in connection with the Contract.	n with the Contract.
CHANGE ORDER SUMMARY			1. OCCINAL CONTRACT COM	7/	130 170 70
Change Orders approved in previous months has Owner	ADDITIONS	DEDUCTIONS	2. Net change by Change Orders	r	31 175.80
NOTAL			4. POTAL COMPLETED A STO	1	7
Approved this Month			(Column G on G783)		0800660 60
Number Date Approved	A		5. RETAPHACE:	(	
	45,363.00		85. % of Completed Work	out \$	
	# 45 60.00		D. O. N. Of Stored Malerial	0	
3	831,413.80		(Column f on C703)		
W	131,175.80		Total in Column 1 of Carr	D 04	
Net change by Change Orders			6. TOTAL EARNED LESS RETAINAGE	NACE CALL	03.26C 60
The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Annie and the Person of the Annie and the Annie and belief the Work covered by this Annie and the Person of the Annie and the Person of the Annie and	es that to the best of the Conered by this Amile stand	petractor's knowledge,	Cline 4 less Line 5 lotal) 7 18% persyana Capana and		
completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Parment serves.	Contract Documents, that or which previous Certific	all amounts have been after for Personal succession	PAYMENT fline 6 from	MAMBET Give 6 from prior Certificate)	61 360.80
issued and payments received from the Owner, and that current payment shown berein is now due.	m the Owner, and that co	strent payment shown	9. EALANCE TO FRIENT PUS RETAINAGE	9. INJANCE TO FRISH, PLUS RETAINAGE	7,935.00
CONTRACTOR:			Case of		
			Subscribed and sworn'to before me this 2000	The training of the state of th	eb = 200
STONE CASE	Duc. 2/23	123100	Notary Public: My Commission expires:	BETTY J. CANFIELD	JFIELD of New York
ARCHITECT'S CERTIFICATE FOR PAYMENT in accordance with the Contract Documents, based on on-site observations.	IFFCATE FOR P	AYMENT  Propertions and the	AMOUNT CERTIFIED  Withch explanation if amount	AMOUNT CERTIFIED.  Commission Exploration if amount certified defens from the amount appared for the commission of the c	37 24 30 43 000
used comparing are above application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated the constitution of the text.	on, the Architect certifies to Montation and belief the V	o the Owner that to the Work has progressed as		į	
the Contractor is entitled to payment of the AMOUNT CERTIFIED.	IN ACCORDANCE WITH THE LO	niraci Documents, and INED.	This Certificate is not negotial Contractor named beggin beau	This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named beginn because	sayable only to the
			prejudice to any rights of the	prejudice to any rights of the Owner or Contractor under this C yet.	syment are without yet.

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AN DOC. AN CHE ON APPLICATION AND CHITHICAT FOR MEMENT - MAY 1933 EDITION - MAY - C. . AT THE AMERICAN INSTITUTE OF ANOHITCYS, 1975 MEW YORK MERCIE, N.W., YMSHINGEN, D.C. 2005.

HCS Excavating Inc. 319 No. Plank Rd. Newburgh NY 12550

Item #

Woodstock Water District

Billing Date:

| TW-971       | Balance             | to finish  | \$0.00   | \$0.00   | \$0.00  | \$0.00   | \$0.00   | \$0.00   | 80.00   | \$0.00   | 80.00   | \$0.00  | 00'0\$  | 0008   
   | \$0.00   | 80.00  | 000\$   | \$0.00  | 80.00  | \$0.00   | \$0.00  
   
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  | \$0.00   | \$0.00   |   |  
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| Contract No. | amt. This           | bill period  | \$0.00   | \$0.00   | \$0.00  | \$0.00   | \$0.00   | \$0.00   | \$0.00  | \$0.00   | \$0.00  | \$0.00  | \$0.00  | \$0.00   
   | \$0.00   | \$0.00   | \$0.00  | \$0.00  | \$0.00   | \$0.00   | \$0.00  
   
  |  
  | \$0.00   | \$0.00   |   | \$4,560.00   
   |   |  |  |
|              | \$ Comp.            | to date  | \$10,980.00  | \$24,400.00  | \$41,914.80   | \$87,145.00  | \$0.00   | \$32,400.00  | \$149,820.00  | \$93,375.00  | \$3,620.00  | \$4,800.00  | \$1,500.00  | \$8,370.00   
   | \$22,800.00  | \$27,600.00  | \$10,875.00   | \$6,786.00  | \$9,000.00   | \$6,637.50   | \$24,337.50   
   
  |  
  | \$566,360.80   | included in above  | values  | \$4,560.00   
   | included in above   | values less  |  |
|              | Project             | Price  | \$9,000.00   | \$20,000.00  | \$40,500.00   | \$18,750.00  | \$11,000.00  | \$23,000.00  | \$122,100.00  | \$78,750.00  | \$8,000,00  | \$3,600.00  | \$1,250.00  | \$11,250.00  
   | \$17,100.00  | \$27,600.00  | \$9,750.00  | \$7,470.00  | \$7,000.00   | \$2,750.00   | \$19,250.00   
   
  |  
  | \$438,120.00   | \$95,203.00  |   | \$4,560.00   
   | \$31,412.80   |  |  |
|              | Unit                | Price  | \$9,000.00   | \$20,000.00  | \$45.00   | \$250.00   | \$40.00  | \$40.00  | \$60.00   | \$45.00  | \$2,000.00  | \$400.00  | \$250.00  | \$15.00  
   | \$1,900.00   | \$6,900.00   | \$375.00  | \$18.00   | \$1,000.00   | \$25.00  | \$55.00   
   
  | THE SECOND SECOND SECOND   
  | Subtotals  | 0. 1:  |   | 0. 2:  
   | 0.3:  |  |  |
|              | Comp. To            | date   | \$10,980.00  | \$24,400.00  | 47.128  | 345.58   | 0  | 810  | 2497  | 2075   | 1.81  | 12  | 9   | 568  
   | 12   | 100%   | 83  | 377   | 0  | 265.5  | 442.5   
   
  |  
  |  | Change order n   |   | Change order n   
   | Change order n  |  |  |
|              | Comp.               | this appl.   | \$0,00   | \$0.00   | 0   | 0  | 0  | 0  | 0   | 0  | 0   | 0   | 0   | 0  
   | 0  | 0  | 0   | 0   | 0  | 0  | 0   
   
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  |  |  |   |  
   |   |  |  |
|              | Previous            | Comp.  | \$10,980.00  | \$24,400.00  | 931.44  | 345.58   | 0  | 810  | 2497  | 2075   | 1.81  | 12  | 9   | 35<br>88   
   | 12   | 100%   | 8   | 377   | Ø  | 265.5  | 442.5   
   
  |  
  |  |  |   |  
   |   |  |  |
|              | Quantity            |  | mns dmn  | uns duni   | 900cy   | 75cy   | 275lf  | 575lf  | 203511  | 17501  | 4.0 ton   | 9ea.  | Sea.  | 750cy  
   | 9ea.   | 4ea.   | 26ea.   | 415lf   | 7ea.   | 110lf  | 350 ton   
   
  |  
  |  |  |   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
   |   |  |  |
|              | Contract No. TW-971 | Contract No. TW  Previous Comp. To Unit Project \$ Comp. amt. This | Contract No. TW  Previous Comp. Comp. To Unit Project \$ Comp. amt. This Comp. this appl. date Price Price to date bill period | Previous Comp. To Unit Project \$ Comp. amt. This Comp. this appl. date Price Price to date bill period \$10,980.00 \$10,980.00 \$10,980.00 \$9,000.00 \$9,000.00 \$9,000.00 | Previous         Comp.         Comp. To         Unit         Project         \$ Comp.         amt. This           Comp.         this appl.         date         Price         Price         bill period           \$10,980.00         \$0,00         \$10,980.00         \$9,000.00         \$9,000.00         \$10,980.00           \$24,400.00         \$0.00         \$24,400.00         \$20,000         \$0.00 | Previous         Comp.         Comp. To Unit         Project         \$ Comp.         amt. This amt. 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To         Unit         Project         \$ Comp. Two           Comp.         this appl.         date         Price         to date         bill period           \$10,980.00         \$0.00         \$10,980.00         \$9,000.00         \$10,980.00         \$0.00           \$10,980.00         \$0.00         \$10,980.00         \$24,400.00         \$0.00         \$0.00           \$31.44         0         \$31,44         \$45.00         \$24,400.00         \$0.00           \$31.44         0         \$31,44         \$45.00         \$24,400.00         \$0.00           \$31.44         0         \$31,44         \$45.00         \$24,400.00         \$0.00           \$31.44         0         \$31,44         \$45.00         \$40,500.00         \$24,400.00         \$0.00           \$345.58         \$250.00         \$11,000.00         \$24,400.00         \$0.00         \$0.00           \$40.00         \$40.00         \$149,820.00         \$0.00         \$0.00         \$0.00           \$2487         0         \$245.00         \$149,820.00         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00         \$0 | Previous         Comp. 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To         Unit         Project         \$ Comp.         Contract No. TW           Comp.         this appl.         date         Price         to date         bill period           \$10,980.00         \$10,980.00         \$10,980.00         \$24,400.00         \$20,000         \$10,980.00           \$24,400.00         \$22,400.00         \$22,000.00         \$24,400.00         \$20,000         \$20,000           \$31,44         0         \$24,500         \$24,500         \$24,400.00         \$20,000         \$20,000           \$45,58         0         \$45,500         \$40,500         \$24,400.00         \$20,000         \$2 | Previous         Comp. To         Unit         Project         \$ Comp.         amt. This         Formation of the comp. To         Thick appl.         4 Comp.         Amt. This         This appl.         amt. This         Include         Price         to date         bill period         amt. This         bill period         amt. 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Comp. To         Unit         Project         \$ Comp.         This appl.         Additional and a project         \$ Comp.         \$ Comp.         This appl.         Additional and a project         \$ Comp.         \$</td><td>Compositions         Compositions         Compositions         Compositions         Compositions         Compositions         Compositions         Compositions         Compositions         Sections         \$ Compositions         <t< td=""><td>Pirevious         Comp.         Comp. To         Unit         Price         \$ Comp.         amt. This         Instant This</td></t<></td></td></th<> | Previous         Comp.         Comp. To         Unit         Project         \$ Comp.         amt. This control is appl.         Adate         Price         to date         bill period           Im         \$10,980.00 <td>Previous         Comp.         Comp. To         Unit         Project         \$ Comp.         amt. This spot         amt. This spot</td> <td>Previous         Comp. To         Unit         Price to date to date</td> <td>Previous         Comp. To date         Unit         Project         \$ Comp.         amt. This list in period           \$10,980.00         \$0.00         \$10,980.00         \$9,000.00         \$10,980.00</td> <td>Previous         Comp. To         Unit         Project         \$ Comp.         amt. 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Comp. To         Unit         Project         \$ Comp.         This appl.         Additional and a project         \$ Comp.         \$ Comp.         This appl.         Additional and a project         \$ Comp.         \$</td> <td>Compositions         Compositions         Compositions         Compositions         Compositions         Compositions         Compositions         Compositions         Compositions         Sections         \$ Compositions         <t< td=""><td>Pirevious         Comp.         Comp. To         Unit         Price         \$ Comp.         amt. This         Instant This</td></t<></td> | Previous         Comp.         Comp. To         Unit         Project         \$ Comp.         amt. This spot         amt. This spot | Previous         Comp. To         Unit         Price to date | Previous         Comp. To date         Unit         Project         \$ Comp.         amt. 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This liberiod           Comp.         this appl.         date         Price         to date         bill period           \$10,980.00         \$10,980.00         \$9,000.00         \$10,980.00         \$24,400.00         \$20,000.00           \$24,400.00         \$22,400.00         \$20,000.00         \$4,914.80         \$0.00           \$45.88         \$20,000.00         \$4,914.80         \$0.00           \$45.89         \$20,000.00         \$24,400.00         \$20,000.00           \$45.89         \$20,000.00         \$24,400.00         \$20,000.00           \$45.80         \$11,000.00         \$24,914.80         \$0.00           \$45.90         \$40.00         \$20,000.00         \$22,400.00         \$20,000           \$46.7         \$6.00         \$40.00         \$24,000.00         \$20,000         \$20,000           \$1.81         \$2,000         \$11,000.00         \$11,000.00         \$14,000.00         \$20,000         \$20,000           \$1.81         \$2,000         \$11,000.00         \$11,000.00         \$11,000.00         \$24,000.00         \$20,000           \$28         \$1,000         \$2,000         \$2,000         \$2,000         \$2, | Previous         Comp.         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\$0.00

\$2,935.00

\$1625,00 for Item 2 \$569,295.80

\$569,295.80

# CONTRACTOR'S AFFIDAVIT OF RELEASE OF LIENS

OWNER CARCHITECT CONTRACTOR SURETY COTHER

AIA DOCUMENT G706A

TO	(Owner)			ARCHITECT'S PROJECT NO:
A	Γ	TOWN OF WOODSTOCK 81 TINKER STREET WOODSTOCK, NY 12498		CONTRACT FOR;
			1	CONTRACT DATE:

State of: NEW YORK
County of: DUTCHESS

(name, address) WOODSTOCK, NEW YORK

The undersigned, pursuant to Article 9 of the General Conditions of the Contract for Construction, AIA Document A201, hereby certifies that to the best of his knowledge, information and belief, except as listed below, the Releases or Waivers of Lien attached hereto include the Contractor, all Subcontractors, all suppliers of materials and equipment, and all performers of Work, labor or services who have or may have liens against any property of the Owner arising in any manner out of the performance of the Contract referenced above.

PROPOSED WATER MAIN (PHASE II) FOR THE WOODSTOCK WATER DISTRICT EXTENSION

EXCEPTIONS: (If none, write "None". If required by the Owner, the Contractor shall furnish bond satisfactory to the Owner for each exception.)

### SUPPORTING DOCUMENTS ATTACHED HERETO:

- Contractor's Release or Waiver of Liens, conditional upon receipt of final payment.
- Separate Releases or Waivers of Liens from Subcontractors and material and equipment suppliers, to the extent required by the Owner, accompanied by a list thereof.

CONTRACTOR: HCS EXCAVATING, INC.

Address: 319 NORTH PLANK ROAD NEWBURGH, NY 12550

HARRY C. SERVISS, SR. PRESIDENT

Subscribed and sworn to before me this

23rd day of Feb.

19 2000

Notary Public:

BETTY J. CANFIELD Notary Public, State of New York Qualified in Orange Co. No. 4994037

My Commission Expire Commission Expires 23 30

AIA DOCHMENT G7864 \* CONTRACTOR'S AFFIDAVIT OF RELEASE OF LIENS \* APRIL 1978 EDITION \* AIA®

ALIC OL

### CONSENT OF SURETY COMPANY TO FINAL PAYMENT

OWNER
ARCHITECT
CONTRACTOR
SURETY
OTHER

AIA DOCUMENT G707

PROJECT: PROPOSED WATER MAIN (PHASE II) FOR THE WOODSTOCK WATER DISTRICT EXTENSION (name, address) WOODSTOCK, NEW YORK

TO (Owner)

TOWN OF WOODSTOCK 81 TINKER STREET WOODSTOCK, NY 12498 ARCHITECT'S PROJECT NO: CONTRACT FOR:

CONTRACT DATE:

CONTRACTOR:

Attest: (Seal):

HCS EXCAVATING, INC. 319 NORTH PLANK ROAD NEWBURGH, NY 12550

In accordance with the provisions of the Contract between the Owner and the Contractor as indicated above, the

NATIONAL GRANGE MUTUAL INSURANCE COMPANY P.O. BOX 4742 SYRACUSE, NY 13321-4742

, SURETY COMPANY,

on bond of there insert name and address of Contractor)

HCS EXCAVATING, INC. 319 NORTH PLANK ROAD NEWBURGH, NY 12550

, CONTRACTOR,

hereby approves of the final payment to the Contractor, and agrees that final payment to the Contractor shall not relieve the Surety Company of any of its obligations to there insert name and address of Owner)

TOWN OF WOODSTOCK 81 TINKER STREET WOODSTOCK, NY 12498

, OWNER,

as set forth in the said Surety Company's bond.

IN WITNESS WHEREOF, NATIONAL GRANGE MUTUAL INSURANCE COMPANY

the Surety Company has hereunto set its hand this

day of FEBRUARY

16 2000

NATIONAL GRANGE MUTUAL INSURANCE COMPANY
Surety Company

Signature of Authorized Representative

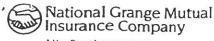
JANICE A. BALLARD

ATTORNEY-IN-FACT

Title

HT8

NOTE: This form Is to be used as a companion document to AIA DOCUMENT G706, CONTRACTOR'S AFFIDAVIT OF PAYMENT OF DEBTS AND CLAIMS, Current Edition



A Main Street America company

I certify that at the Annual Meeting of the Directors of the National Grange Mutual Insurance Company duly called and held at Keene, New Hampshire on March 12, 1999, the following officers were elected and still remain in office:

	·
PHILIP D. KOERNER	CHAIRMAN OF THE BOARD, PRESIDENT AND CHIEF EXECUTIVE OFFICER
	SENIOR VICE PRESIDENT, CORPORATE SYSTEMS & SERVICES
	SENIOR VICE PRESIDENT, INSURANCE OPERATIONS
SCOTT B. GERLACH	VICE PRESIDENT, ACTUARY
LARRY ACORD, STEPHEN CANTY JOSEPH GRAUWILER.	
SUSAN D. HAY, MARK DORCUS	VICE PRESIDENTS
WILLIAM C. MCKENNA	ASSISTANT VICE PRESIDENT, SECRETARY AND CLERK
LYN E. LANDRY, MELVIN L. ZEINER,	·
WALLACE H. SMITH	ASSISTANT VICE PRESIDENTS
EDWARD J. KUHL	TREASURER AND CONTROLLER
JEFFREY H. GRAHAM, TIMOTHY O. MUZZEY	ASSISTANT ACTUARY
JOHN M. HERRON,	ASSISTANT ACTUARY
PATRICK J. SWEENEY, DENNIS B. UHLER	ASSISTANT SECRETARIES
	. 14

I further certify that the following statement of the Company is true as taken from the records of said Company as of December

ADMITTED ASSETS

ADMITTED ASSETS							
Bonds at Amortized Values       246,180,412         Stocks at Market Value       185,023,097         First Mortgage Loans       2,231,905         Real Estate       7,000,124         Cash in Office and Banks       3,428,893         Short Term Investments       1,716,943         Agent's Balance (Less than 90 Days)       29,528,028         Accrued Interest       3,838,478         Other Assets       26,034,034         TOTAL ADMITTED ASSETS       505,031,914	Color						

Securities as deposited by law, included above = \$ 7,233,885

I further certify that the following is a true and exact exerpt from Article V, Section 2 of the By-Laws of National Grange Mutual Insurance Company which is still valid and existing.

The board of directors, the president, any vice president, secretary, or the treasurer shall have the power and authority to appoint attorneys-in-fact and to authorize them to execute on behalf of the company and affix the seal of the company thereto, bonds, recognizance or conditional undertaking and to remove any such attorneys-in-fact at any time and revoke the power and authority given to them."

Subscribed and Sworn to before me on this 12th day of March, 1999

Susan M Fortine

My Commission Expires May 13, 2003

AUSLIC HENPSHICK

IN WITNESS THEREOF, I hereunto subscribe my name and affix the seal of said company this 12th day of March, 1999

Dy C. Panley

ORPORA 1923 ON PORTING THE PROPERTY OF THE PRO

68-1191 (3/99)



A Main Street America company

KNOW ALL MEN BY THESE PRESENTS: That the National Grange Mutual Insurance Company, a New Hampshire corporation having its principal office in the City of Keene, State of New Hamsphire, pursuant to Article V, Section 2 of the By-Laws of said Company, to wit:

"Section 2. The board of directors, the president, any vice president, secretary, or the treasurer shall have the power and authority to appoint attorneys-in-fact and to authorize them to execute on behalf of the company and affix the seal of the company thereto, bonds, recognizances, contracts of indemnity or writings obligatory in the nature of a bond, recognizance or conditional undertaking and to remove any such attorneys-in-fact at any time and revoke the power and authority given to them. " Pursuant to said by-law does hereby make, constitute and appoint MARY E. BRINCKERHOFF, STERLING C GASTON -JANICE A. BALLARD, TODD BRINCKERHOFF,-

its true and lawful Attorneys-in-fact, to make, execute, seal and deliver for and on its behalf, and as its act and deed, bonds, undertakings recognizances, contracts of indemnity, or other writings obligatory in the nature of a bond subject to the following limitation:

No one bond to exceed Five Million Dollars (\$5,000,000.00). 1.

and to bind the National Grange Mutual Insurance Company thereby as fully and to the same extent as it such instruments were signed by the duly authorized officers of the National Grange Mutual Insurance Company, and all the acts of said Attorney are hereby ratified and confirmed.

This power of attorney is signed and sealed by facsimile under and by the authority of the following resolution adopted by the Directors of The National Grange Mutual Insurance Company at a meeting duly called and held on the 2nd day of December 1977.

Voted: That the signature of any officer authorized by the By-Laws and the company seal may be affixed by facsimile to any power of attorney or special power of attorney or certification of either given for the execution of any bond, undertaking, recognizance or other written obligation in the nature thereof; such signature and seal, when so used being hereby adopted by the company as the original signature of such office and the original seal of the company, to be valid and binding upon the company with the same force and effect as though manually affired.

By execution of this Power of Attorney, National Grange Mutual Insurance Company, does hereby revoke, rescind and declare null and void any previous Power of Attorney at any time previously furnished to the aforesaid individuals or agencies.

IN WITNESS WHEREOF, The National Grange Mutual Insurance Compay has caused these presents to be signed by its Comparate (6) 1998. Secretary and its corporate seal to be hereto affixed this QLST day of May THIS APPOINTMENT SHALL CHASE AND TERMINATE AUTOMATICALLY AS OF DECEMBER 31ST, 2001, unless sooner revoked as provided.

NATIONAL GRANGE MUTUAL INSURANCE COMPANY By:

THIS POWER IS INVALID IF RED DIAGONAL IMPRINT " NATIONAL GRANGE MUTUAL INSURANCE COMPANY HAMPSHIRE " IS NOT SHOWN IN ITS ENTIRETY.

State of New Hampshire, County of Cheshire

, 1998 before the subscriber a Notary Public of the State of New Hampshire in and for the County On this 01ST day of May Cheshire duly commissioned and qualified, came William C. McKenna of the National Grange Mutual Insurance Companyuto me personally known to be the officer described herein, and who executed the preceding instrument, and he acknowledged the execution of same, and being by me fully sworn, deposed and said that he is an officer of said Company, aforesaid: that the seal affixed to the preceding instrument is the corporate seal of said Company, and the said corporate seal and his signature as officer were duly affixed and subscribed to the said instrument by the authority and direction of the said Company; that Article V, Section 2 of the By-Laws of said Company is now in force.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed by official seal at Keene, New Hampshire th Susan M Fortin

01ST day of May , 1998.

My Commission Expires: May \$2, 1998 U B

Assistant Vice Presiden

I Lyn E. Landry, Assistant Vice President of the National Grange Mutual Insurance Company, do hereby certify that the above foregoing is a true and correct copy of a Power of Attorney executed by said Company which is still in force and offection IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said Company at Keene, New Hampshire this

8TH day of FEBRUARY

68-N882.001 CAB

WARNING — Any unauthorized reproduction or alteration of this document is prohibited. This power is void wheels seals are readable and the certification seal at the bottom is embossed. The diagonal imprint, warning and confirmation must be in red ink.

CONFIRMATION Of validity of attached bond, call NGM at: Keene 603-358-1339; Richmond 804-270-6611 ext. 138; Syracuse 315-434-1410.