LOCATION MAP

SITE MAP

CONTRACT DRAWINGS

(C-36-1277-02)

VILLAGE OF CONSTABLEVILLE

SEWAGE COLLECTION & TREATMENT FACILITIES

VILLAGE OF CONSTABLEVILLE
COUNTY OF LEWIS
STATE OF NEW YORK

VILLAGE of CONSTABLEVILLE

MAYOR
EDWIN G. BUCKLEY

BOARD MEMBERS
PHILIP D. BRONSON
JOSEPH P. EARL
MICHAEL J. SULLIVAN
MARY F. SEE

CLERK
KATHRYN F. GILLETT

ATTORNEY
NATHANIEL B. MERRELL, III

CONTRACT NO. 1 —— SEWAGE TREATMENT FACILITIES

CONTRACT NO. 2 —— SANITARY SEWERS & SEPTIC TANKS

CONTRACT NO. 3 —— ELECTRICAL

INDEX of CONTRACT DRAWINGS

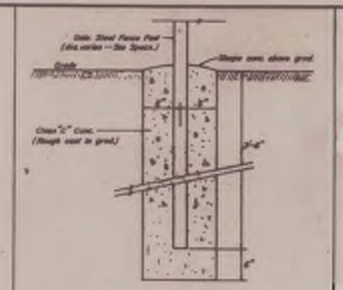
DRWG. NO.	TITLE
1	TITLE SHEET
2	SITE PLAN – TREATMENT PLANT
3	HEADWORKS – PLAN & SECTION
4	SAND FILTER – " " "
5	HIGHWAY/STREAM CROSSING & LAB BUILDING DETAILS
6	KEY MAP & MISC. DETAILS
7	POLE BARN – PLAN & DETAILS
8	PLAN & PROFILE, GENERAL NOTES & LEGEND
9	" " "
10	" " "
11	" " "
12	" " "
13	" " "
14	" " "
15	" " "
16	" " "
17	" " "
18	ELECTRICAL SCHEMATIC

SET NO.____

Prepared by ——

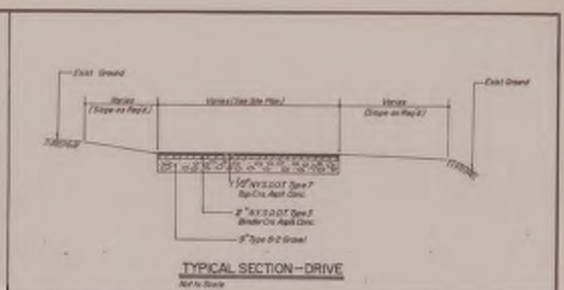
BERNIER • PECK • GOZALKOWSKI • CARR
CONSULTING ENGINEERS LAND SURVEYORS
172 CLINTON ST.
WATERTOWN NEW YORK

NOTE: The contractor shall refer to Division 1, Section 01800 for the protection of historic resources.



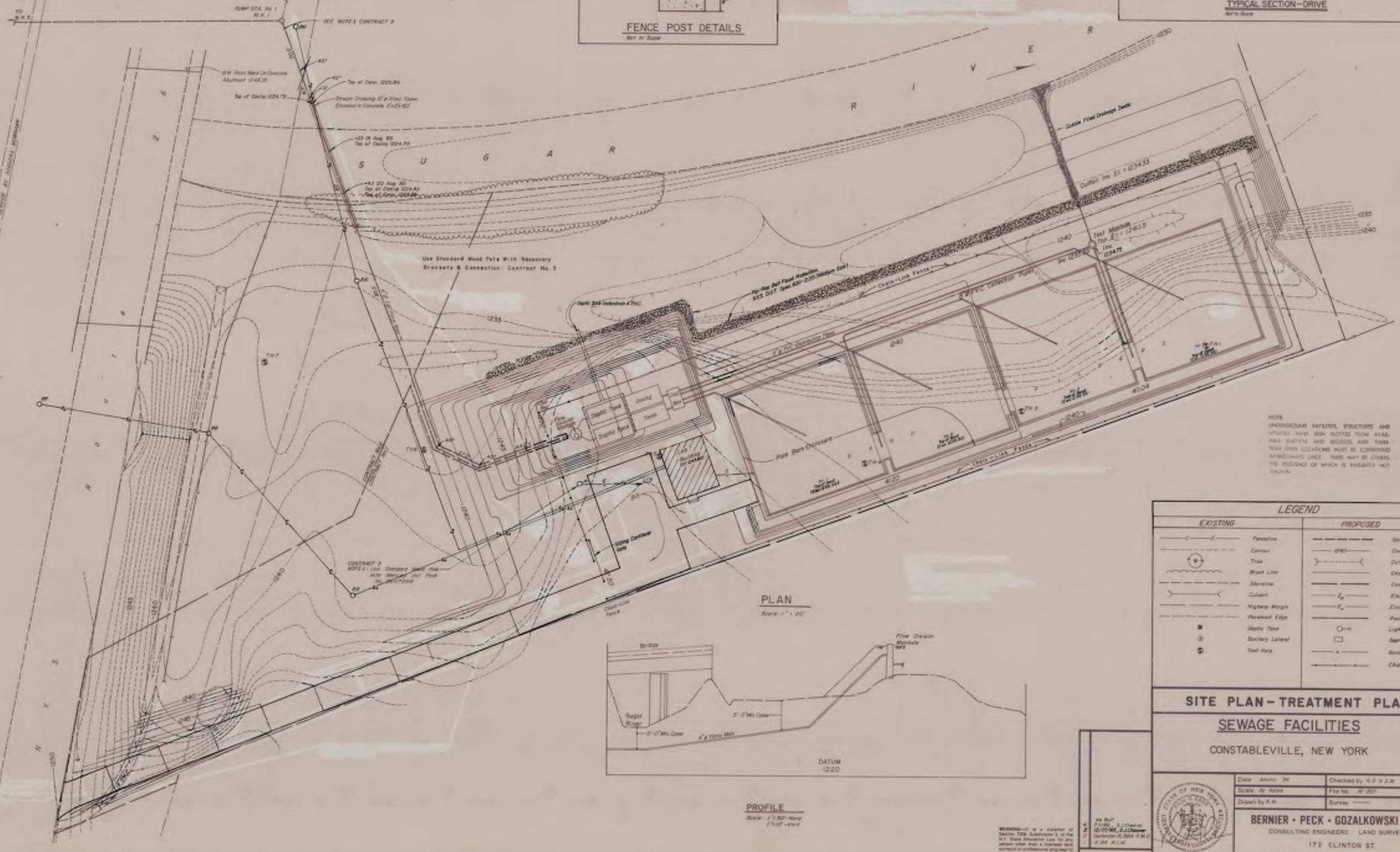
FENCE POST DETAILS

Not to Scale



TYPICAL SECTION—DRIVE

Not to Scale



PLAN

Scale: 1" = 20'

PROFILE

Scale: 1" = 50' Horiz. 1" = 10' Vert.

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

LEGEND

EXISTING		PROPOSED	
	Fenceline		Sanitary Sewer
	Contour	1240	Contour
	Tree		Culvert
	Brook Line		Chain Link Fence
	Shoreline		Control Limit Line
	Culvert	E_o	Electric Overhead
	Highway Margin	E_u	Electric Underground
	Pavement Edge		Pavement Edge
■	Septic Tank		Light Pole
S	Sanitary Lateral		Septic Tank
T	Test Hole	x	Barbed Wire F.L.
			Chain Link Fence

SITE PLAN – TREATMENT PLAN

SEWAGE FACILITIES

CONSTABLEVILLE, NEW YORK

Date: January '84	Checked by: R.F. & J.W.	Dwg. No.	2
Scale: As Noted	File No. 84-207		
Drawn by: R.W.	Survey: ——		

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CONSULTING ENGINEERS LAND SURVEYORS

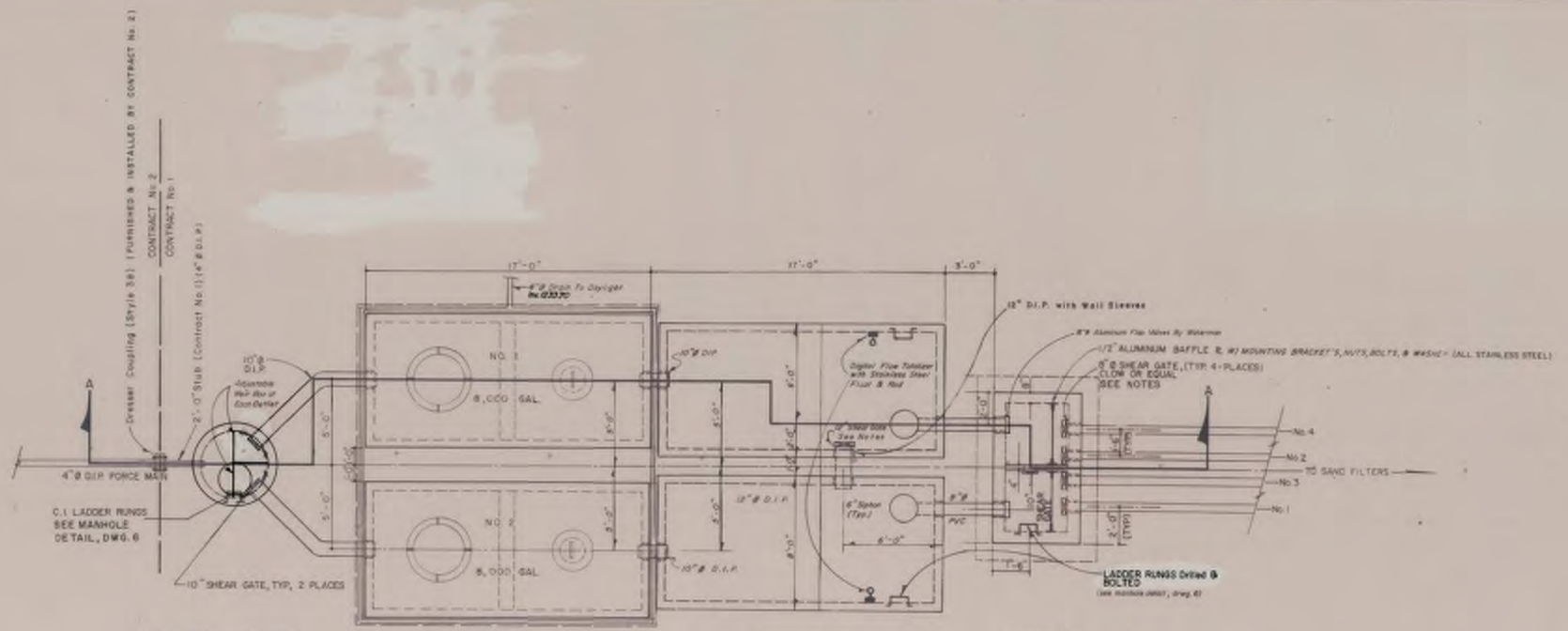
172 CLINTON ST.

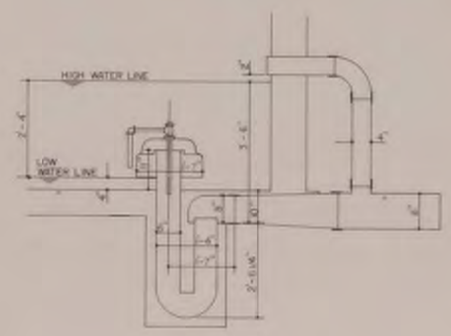
WATERTOWN NEW YORK

Revisions

3 As Built 7-1-86, 2-J Cleaver
2 12-17-85, 2-J Cleaver
1 September 25, 1984 R.M.G.
4-84 R.F.H.

WARNING: It is a violation of Section 7209, Subdivision 2, of the N.Y. State Education Law for any person other than a licensed land surveyor or professional engineer to alter this map.

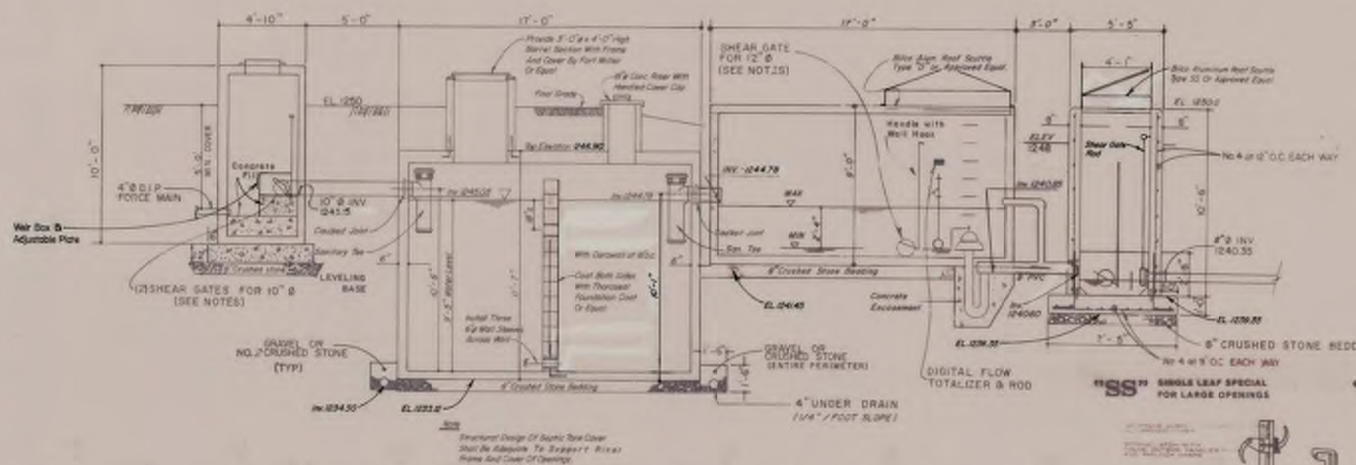




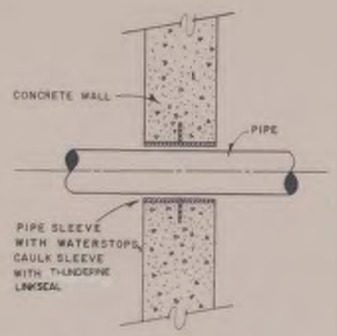
SIPHON DETAIL
NOT TO SCALE

INFLUENT HEADWORKS PLAN
SCALE: 1/4" = 1'-0"

NOTE: All concrete tanks below grade shall receive a waterproof coating of bituminastic sealer in complete accordance with manufacturer's written recommendation. Manufacturer shall be Karnack or approved equal (Contracts 1 & 2).
All Precast manholes and frames/covers shall be in accordance with Contract Specifications, Sections 20050 - 20059c.
All exposed concrete surfaces shall receive coating of THOROSEAL FOUNDATION COAT, or equal, to a point 2'-0" below grade.



SECTION A - A
SCALE: 1/4" = 1'-0"



PIPE SLEEVE DETAIL
N.T.S.

NOTES:

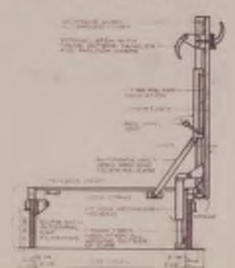
Shear Gate Installation:

1. All sheargates to be Clow Type F-3002 or equal.
2. Provide integrally cast flange and mechanical joint wall collars, Clow Type F-1431 or equal.
3. Provide 8"Ø PVC adapter to wall collars at distribution box.
4. Provide lifting handles to extend to 18" below bottomside of access door and manhole cover.

PRECAST TANK UNITS

1. All concrete shall be 4000 psi @ 28 days w/5% air.
2. Reinforcing steel shall be ASTM A 615-A497 and shall comply with ACI code for details, size and placement.
3. All tanks shall be designed for AASHTO-H-20 loading with 30% impact and 130#/cf soil pressure.

"SS" SINGLE LEAF SPECIAL FOR LARGE OPENINGS



"D" DOUBLE LEAF SPECIAL FOR EXTRA LARGE OPENINGS (TWO REQUIRED)

WARNING — It is a violation of Section 7209, Subdivision 2, of the N.Y. State Education Law for any person other than a licensed land surveyor or professional engineer to alter this map.

No.	Revisions
4	As Built 7/1/96 S.J.Cleaver
3	12/16/85 S.J.Cleaver
2	3/84 L.L.B.
1	4/84

HEADWORKS PLAN & SECTION

SEWAGE FACILITIES

CONSTABLEVILLE, NEW YORK

Date: January '84	Checked by R.E.P. & S.M.	Drwg. No.	3
Scale: As Noted	File No. 83-207		
Drawn by: K.M.	Survey: ———		

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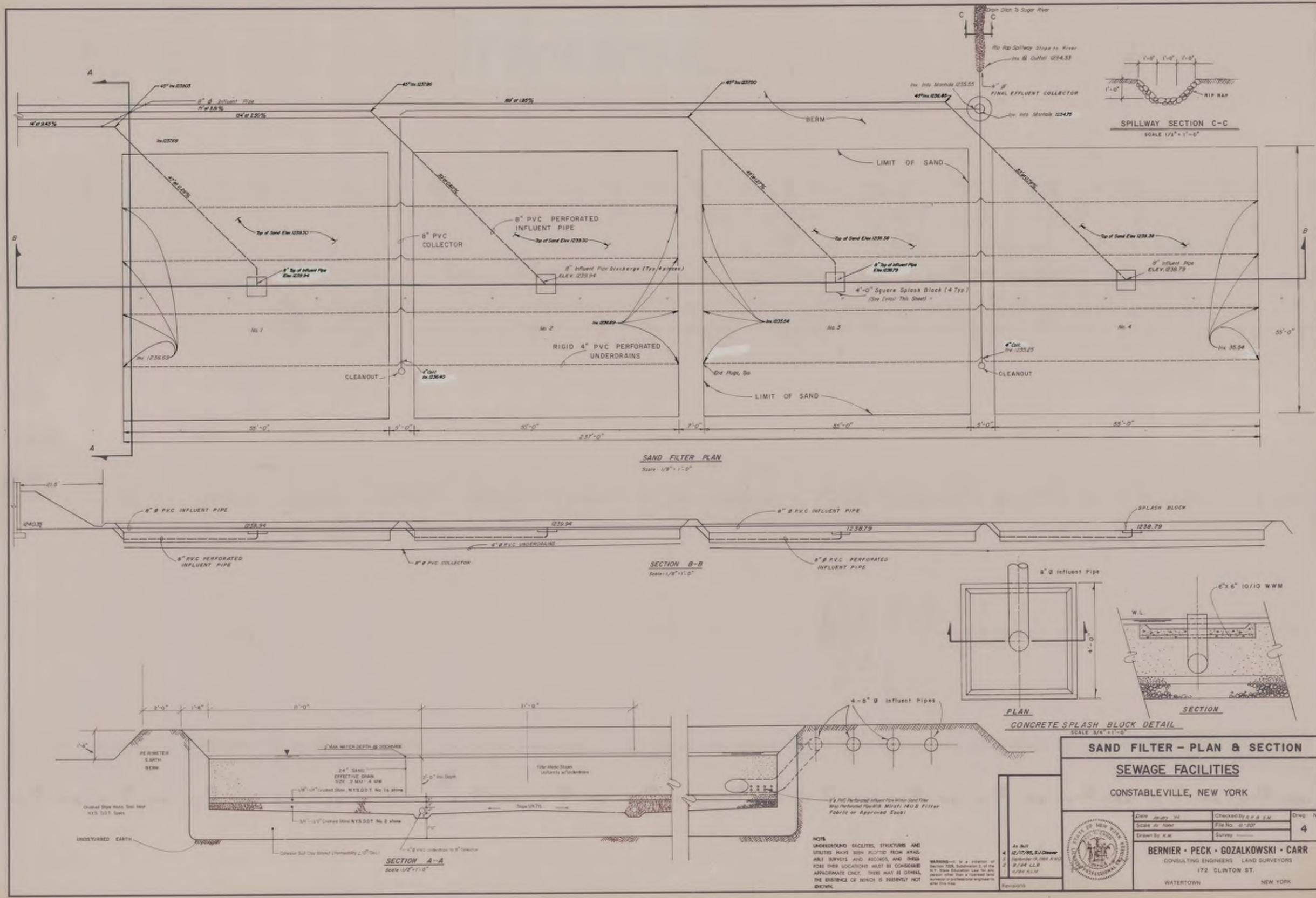
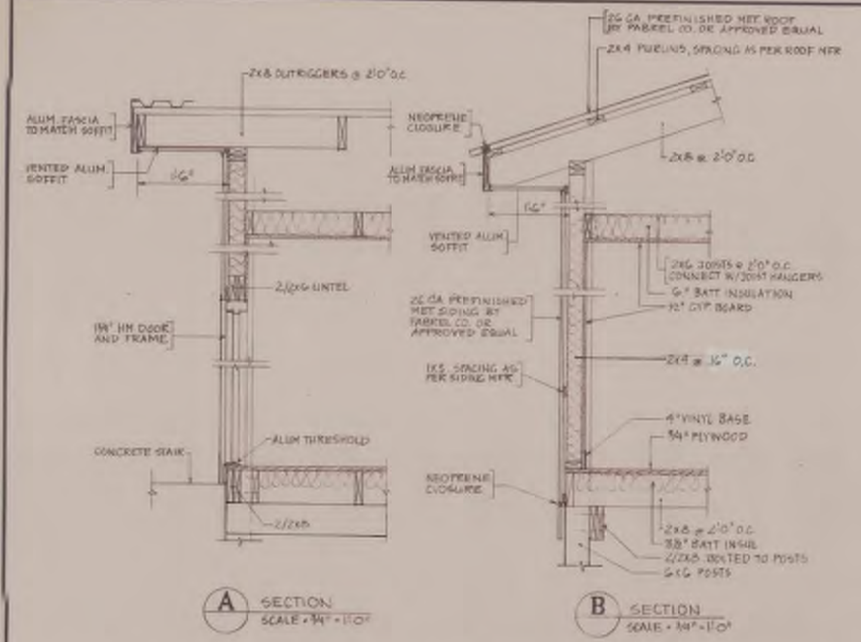
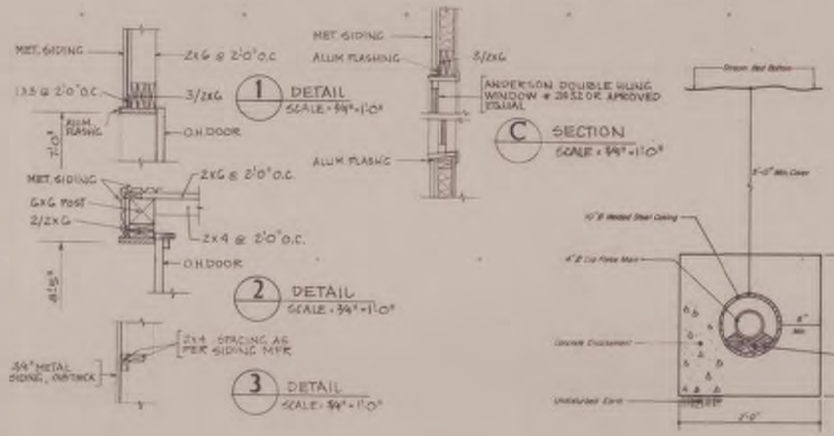
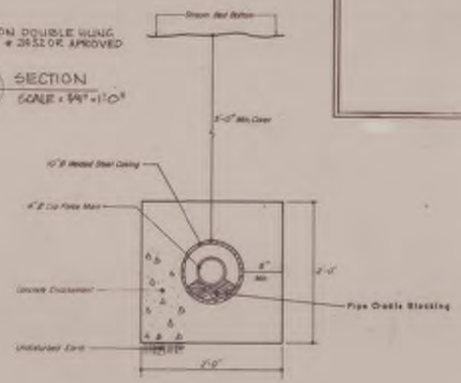
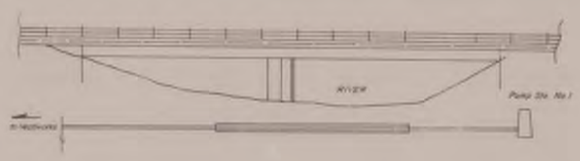

Drain Ditch To Sugar River
Rip Rap Spillway Slope to River
Inv @ Outfall 1234.33
6" Ø FINAL EFFLUENT COLLECTOR
Inv. Into Manhole 1235.55
Inv. Into Manhole 1234.75
RIP RAP
SPILLWAY SECTION C-C
SCALE 1/2" = 1'-0"
BERM
LIMIT OF SAND
8" PVC PERFORATED INFLUENT PIPE
8" PVC COLLECTOR
8" Influent Pipe Discharge (Typ 4 places) ELEV. 1239.94
4'-0" Square Splash Block (4 Typ) (See Detail This Sheet)
RIGID 4" PVC PERFORATED UNDERDRAINS
CLEANOUT
End Plugs, Typ.
No. 1
No. 2
No. 3
No. 4
55'-0"
4'-0"
7'-0"
233'-0"
SAND FILTER PLAN
Scale: 1/8" = 1'-0"
8" Ø PVC INFLUENT PIPE
8" PVC PERFORATED INFLUENT PIPE
4" Ø PVC UNDERDRAINS
8" Ø PVC COLLECTOR
SECTION B-B
Scale: 1/8" = 1'-0"
SPLASH BLOCK
8" Ø Influent Pipe
4'-0"
PLAN
6"x6" 10/10 WWM
W.L.
SECTION
CONCRETE SPLASH BLOCK DETAIL
SCALE 3/4" = 1'-0"
PERIMETER EARTH BERM
2" MAX WATER DEPTH @ DISCHARGE
24" SAND EFFECTIVE GRAIN SIZE .2 MM - .4 MM
1/8"-1 1/2" Crushed Stone, N.Y.S.D.O.T. No 1a stone
3/4"-1 1/2" Crushed Stone N.Y.S.D.O.T. No 2 stone
UNDISTURBED EARTH
4-8" Ø Influent Pipes
SECTION A-A
Scale: 1/2" = 1'-0"
SAND FILTER - PLAN & SECTION
SEWAGE FACILITIES
CONSTABLEVILLE, NEW YORK
BERNIER · PECK · GOZALKOWSKI · CARR
CONSULTING ENGINEERS LAND SURVEYORS
172 CLINTON ST.
WATERTOWN NEW YORK
Drawing No. 4



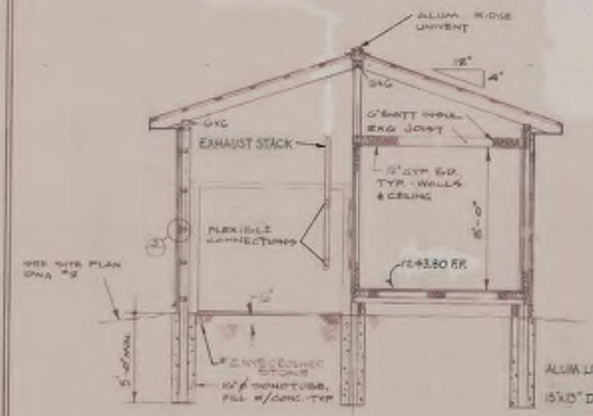




SECTION B-B
Scale 1"=1'0"



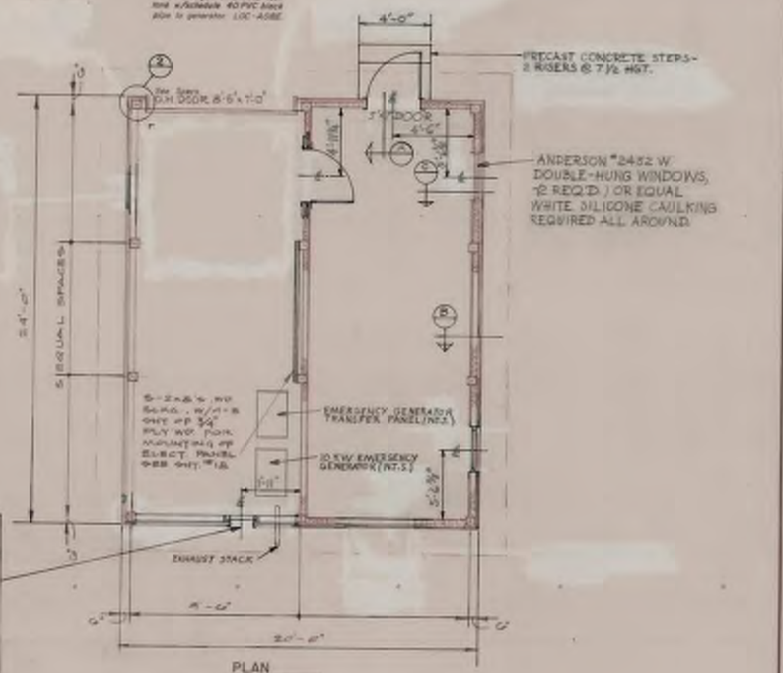
PROFILE
Scale 1"=20'



CROSS SECTION
SCALE: 1/4" = 1'0"

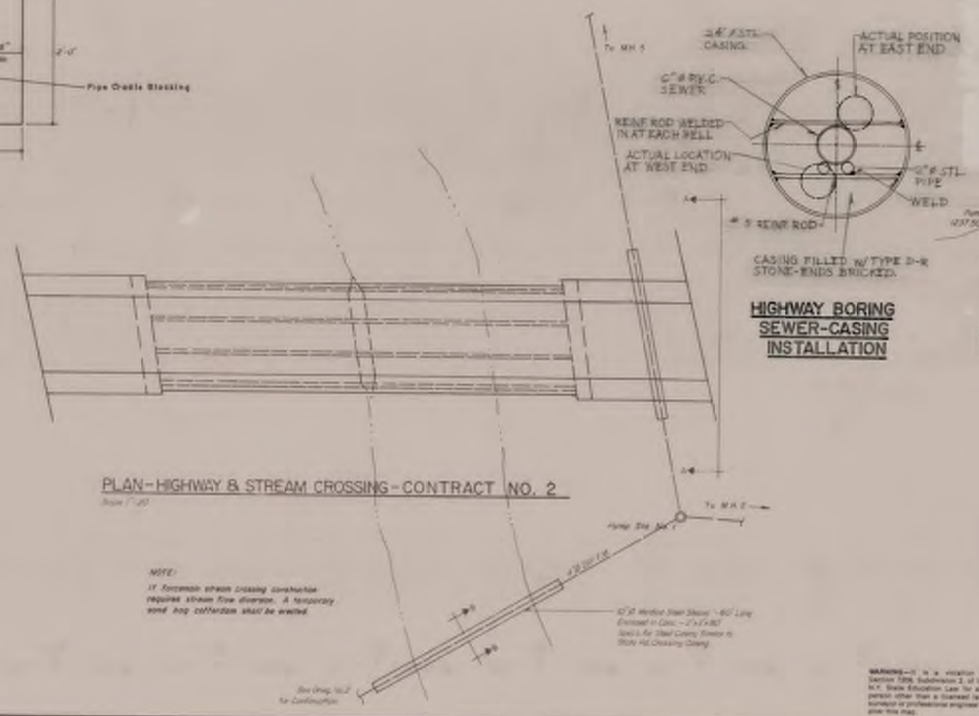
CONTRACT NO. 1

Contractor shall furnish and install a Type PROPANE fuel fired w/Schedule 40 PVC black pipe to generator. LOC.-ASBE.



PLAN
SCALE: 1/4" = 1'0"

LABORATORY BUILDING - CONTRACT No. 1



HIGHWAY BORING SEWER-CASING INSTALLATION

SECTION A-A
N.T.S.

PLAN - HIGHWAY & STREAM CROSSING - CONTRACT NO. 2
Scale 1"=20'

NOTE:
If Facemain stream crossing construction requires stream flow diversion, A temporary sand bag cofferdam shall be erected.

To MH 5
Pump Sta. No.1
12" ϕ Welded Steel Casing - 80' Long Encased in Conc. - 2'x3'x80' Specs. for Steel Casing Same as Stone Rd. Crossing Casing
See Dwg. No.2 for Continuation

WARNING — It is a violation of Section 7209, Subdivision 2, of the N.Y. State Education Law, for any person other than a licensed land surveyor or professional engineer to alter this map.

No.	Revisions
3	As Built 7/1/85 E.J.Cheever
2	12/17/82 E.J.Cheever
1	4/84 R.E.M.

H'WAY./STREAM CROSSING & LAB BUILDING DETAILS

SEWAGE FACILITIES

CONSTABLEVILLE, NEW YORK

Date January '84	Checked by R.P.B. & E.M.	Drwg. No. 5
Scale As Noted	File No. 41-207	
Drawn by A.M.	Survey ———	

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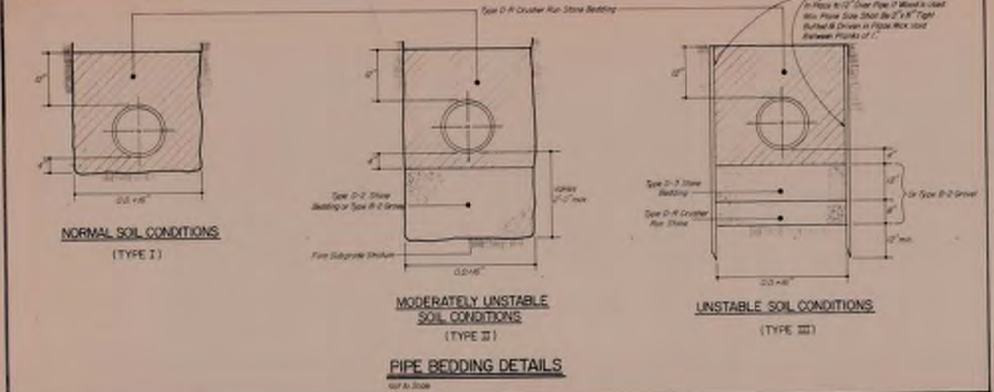
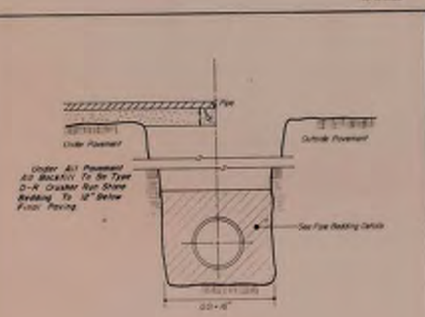
WATERTOWN NEW YORK



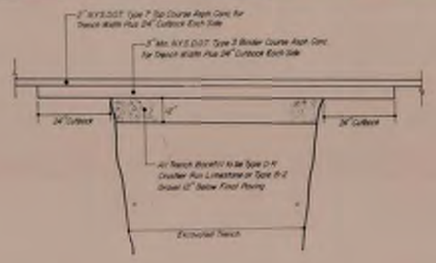
PIPE BEDDING DETAILS

Not to Scale



TRENCH DETAIL

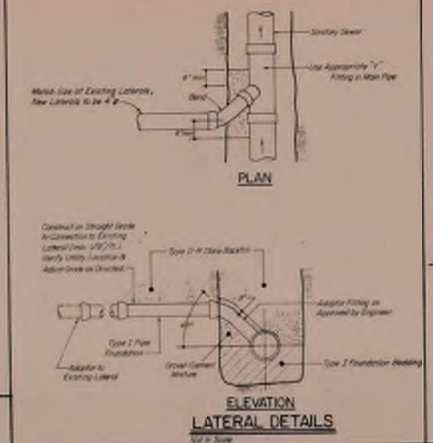
Not to Scale



STREET CROSSING

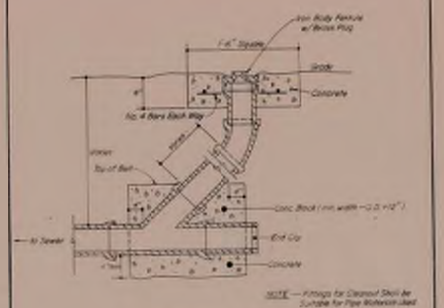
(FOR ASPHALT CONC REPLACEMENT)

Scale 1/2"=1'-0"



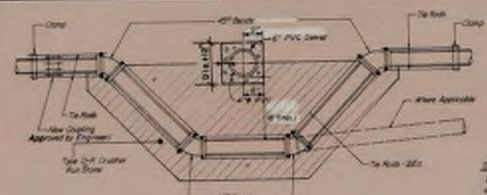
LATERAL DETAILS

Not to Scale



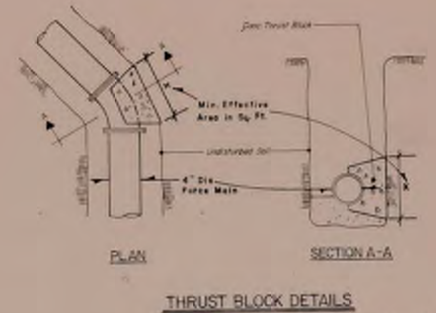
TYPICAL CLEANOUT

Not to Scale



WATER MAIN RELOCATION & MINIMUM SEPARATION DETAIL

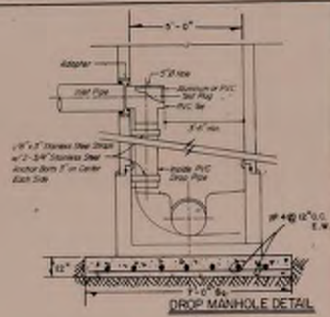
Not to Scale



THRUST BLOCK DETAILS

Not to Scale

At 45°, X = 2 Square Feet, 4" Dia. & 6" Dia.
X = 4 Square Feet, 8" Dia.
X = 6 Square Feet, 10" Dia.



DROP MANHOLE DETAIL

Not to Scale

NOTE:
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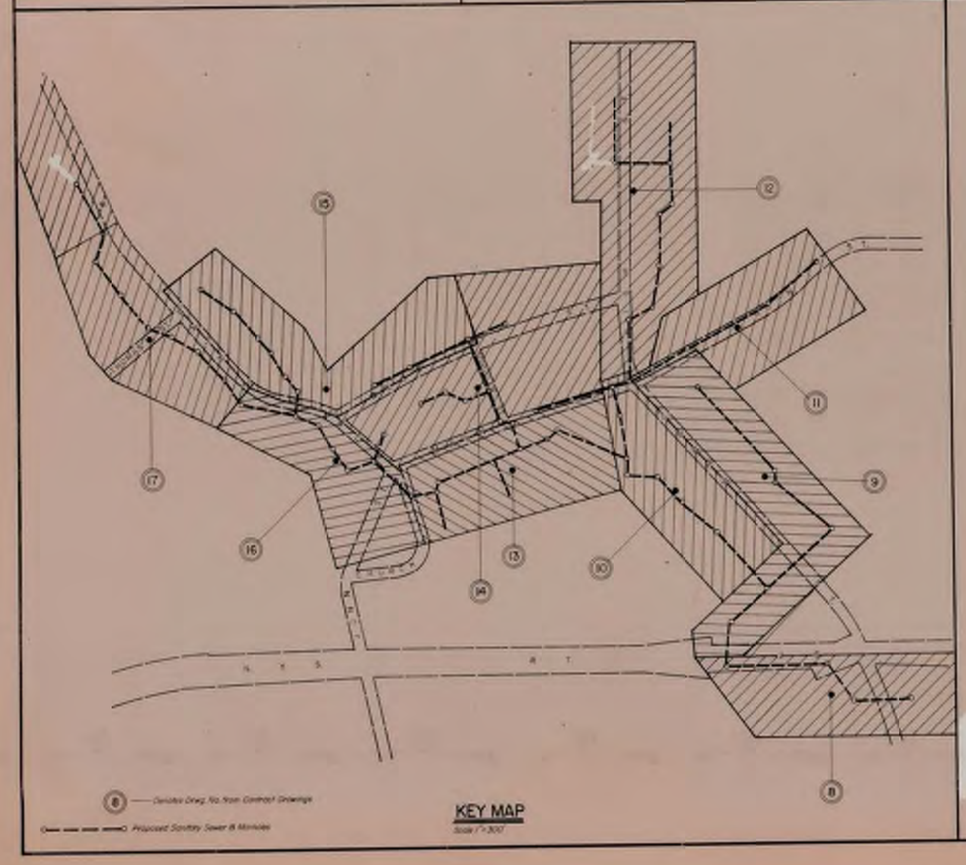
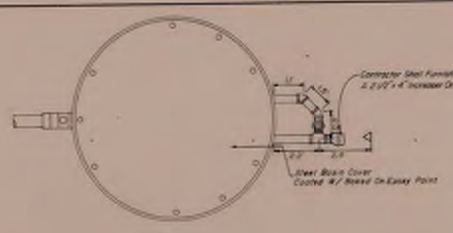
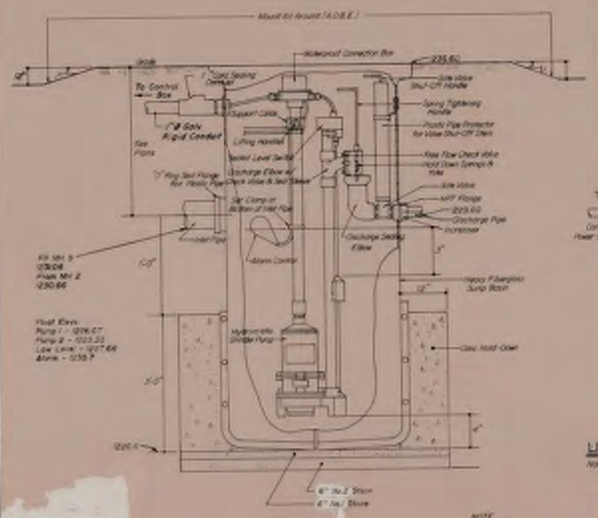


KEY MAP

Scale 1"=300'

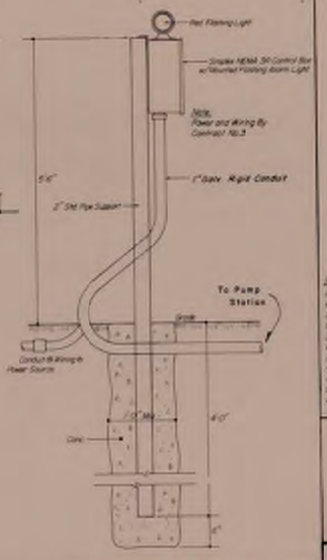




LIFT STATION DETAILS

Not to Scale

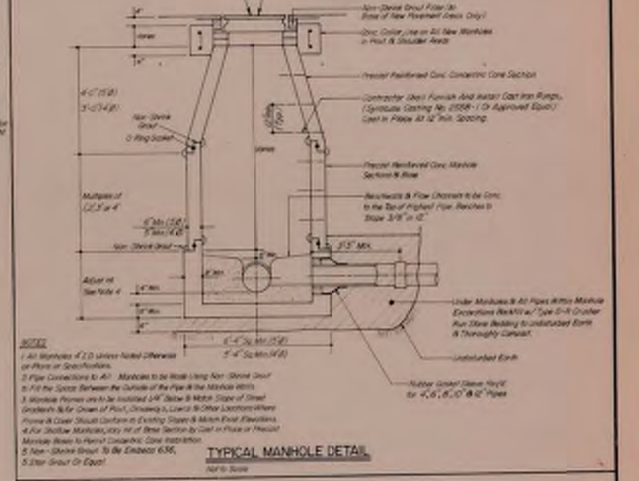
(Contract No. 2 (B.S.))



LIFT STATION CONTROL BOX INSTALLATION DETAIL

Not to Scale

NOTE
Interior of Lift Station is Class I, Division 1, Group D Hazardous Area per National Electrical Code



Not to Scale

KEY MAP & MISC. DETAILS

SEWAGE FACILITIES

CONSTABLEVILLE, NEW YORK

Date 1/84	Checked by W.P.G. & S.M.	Drawg. No. 6
Scale As Noted	File No. 81-207	
Drawn by M.P.	Survey ——	

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WATERTOWN NEW YORK

Revisions
3 Tyco S.I.D.
2 9/84 LLB
1 Add W.S.M.

GENERAL NOTES

1. All work shall comply with all local codes and ordinances, the New York State Construction Code, the National Electric Code, and all other applicable codes and ordinances.

2. Remove existing topsoil and organic material to a minimum depth of 1'-0" from an area of 5' beyond building perimeter.

POLE BARN SPECIFICATIONS & LABORATORY BUILDING (See Dwg. No. 5)

1. All wood in contact with earth, concrete, or masonry shall be treated with pentachlorophenol, or approved equal material, applied under pressure, as per the American Wood Preserver's Assoc. standard C2 "Lowore Save Pentz" used in building construction.

2. Corrugated steel roof panels, wall panels and accessories shall be 26 gauge carbon steel with a factory-applied minimum 1.25 oz. per square foot of commercial galvanized coating. Provide all necessary closure strips.

3. Fasteners for corrugated steel roof panels shall be 2" ring shanked neoprene gasketed nails. Fasteners for corrugated steel wall panels shall be 1 3/4" ring shanked neoprene gasketed nails.

4. Nails for supporting trusses at truss bearing points shall be ring shanked, case hardened nails.

5. Translucent fiberglass panels 4'-0" wide shall be installed in the locations as shown on plans. Fiberglass and galvanized steel panel materials must match for installation. Verify with manufacturer of steel panels. Fasteners for fiberglass panels shall be as recommended by manufacturer.

6. All wood structural members shall have minimum "Fb" value of 1500 PSI and minimum "E" value of 1,600,000 PSI.

7. The pole spacing shown is 8'-0". Other spacing may be submitted, providing the contractor submits the structural design data to engineer for approval.

8. Trusses. Spacing at 4'-0" O.C. The contractor shall submit four (4) copies of truss design shop drawings to the engineer for approval. Trusses shall be factory-engineered for 30 PSF live load. Dead load shall be calculated per design details. Wind load per code requirements. Alternate spacing may be used, provided that contractor submits structural design data to engineer for approval.

9. All doors shall be standard, hollow metal flush units, (18 Ga. thk.) factory prime with rust-inhibitive paint. Frames shall be standard hollow metal, (16 ga. min.) factory prime with rust inhibitive zinc chromate paint. Typical exterior door, size: 3'-0" x 7'-0" x 1 3/4". Provide hardware: 1½ pair BB79 butts, (Stanley); surface mounted holder (Glynn-Johnson 4750); weatherstripping (Zero Co.); exterior lockset w/key (Corbin 9F620); plum threshold (Reactor #387).

10. Provide four (4) overhead doors (Wide) made of metal, long x 1 3/4" thick or Crawford Co.) Series 24 Overhead Door or equal and shall include all operating hardware, galvanized & reinforced with studs (per). Counterbalanced with torsion-bar springs. Manual operation. Astragal horizontal. Perimeter vinyl seal weatherstripping. Provide locking mechanism & key.

11. Provide two (2) finish coats of paint for all hollow metal & overhead doors. Do not paint weatherstripping or plated hardware. Provide two (2) coats of stain on any exposed wood on exterior.

STRUCTURAL NOTES

1. All footings shall bear on solid, undisturbed earth, a minimum of 5'-0" below finish grade.

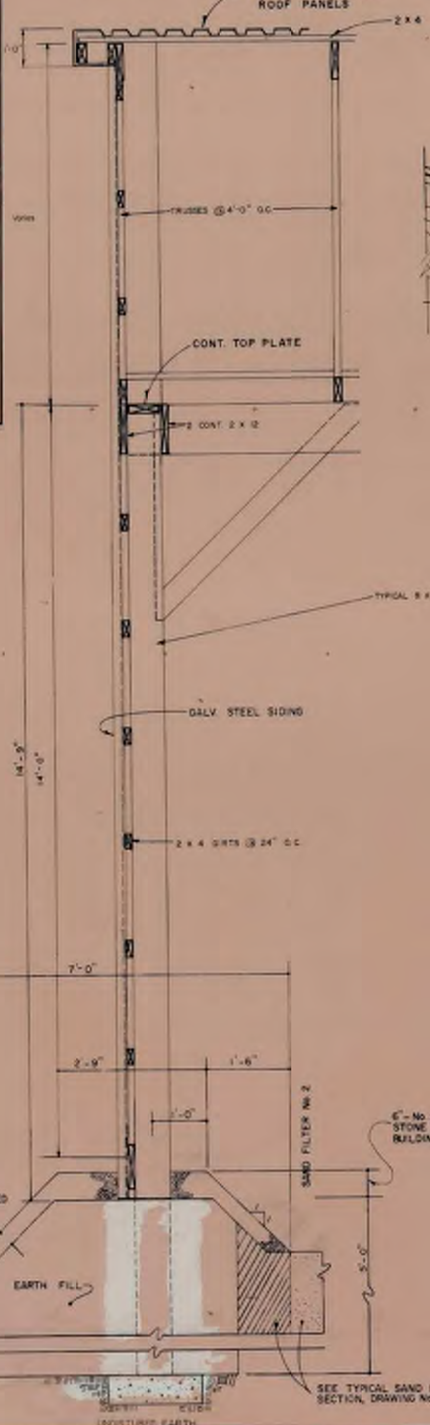
2. Design Loads: roof snowload = 10 PSF.

3. The contractor shall verify soil conditions at time of excavation and shall report any unusual conditions to the engineer.

4. All concrete used shall be 3000 psi (min.).

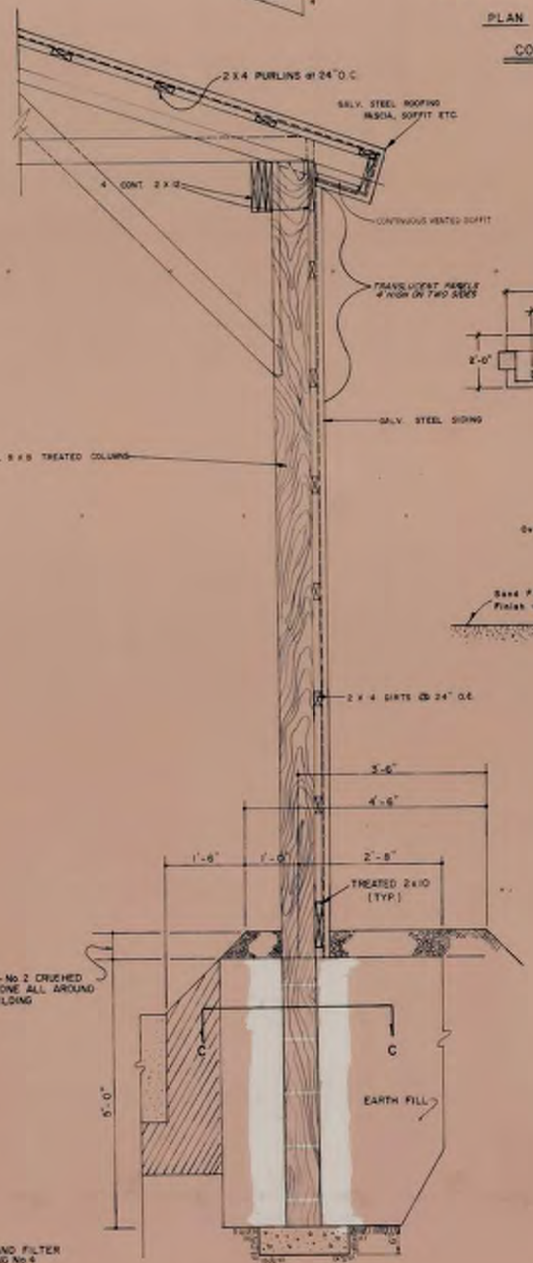
WALL SECTION A-A

SCALE: 3/4" = 1'-0"

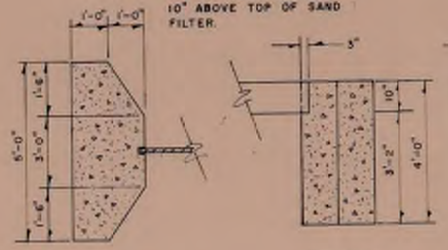


WALL SECTION B-B

SCALE: 3/4" = 1'-0"



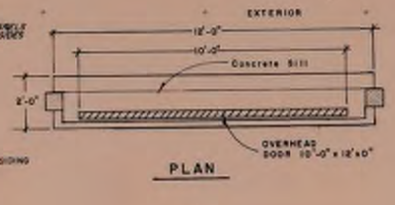
NOTE:
TOP OF ABUTMENT TO BE 10" ABOVE TOP OF SAND FILTER.



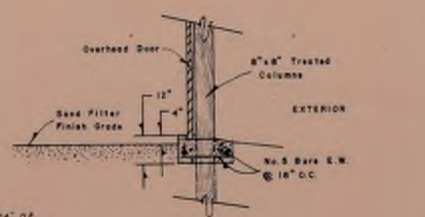
CONCRETE ABUTMENT DETAIL

SCALE 1/2" = 1'-0"

NOTE: PROVIDE CONTINUOUS RIDGE VENT WITH CAP ALONG ENTIRE LENGTH.



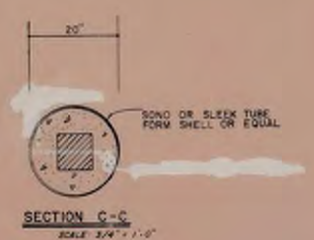
PLAN



ELEVATION

CONCRETE SILL DETAIL

SCALE 3/8" = 1'-0"



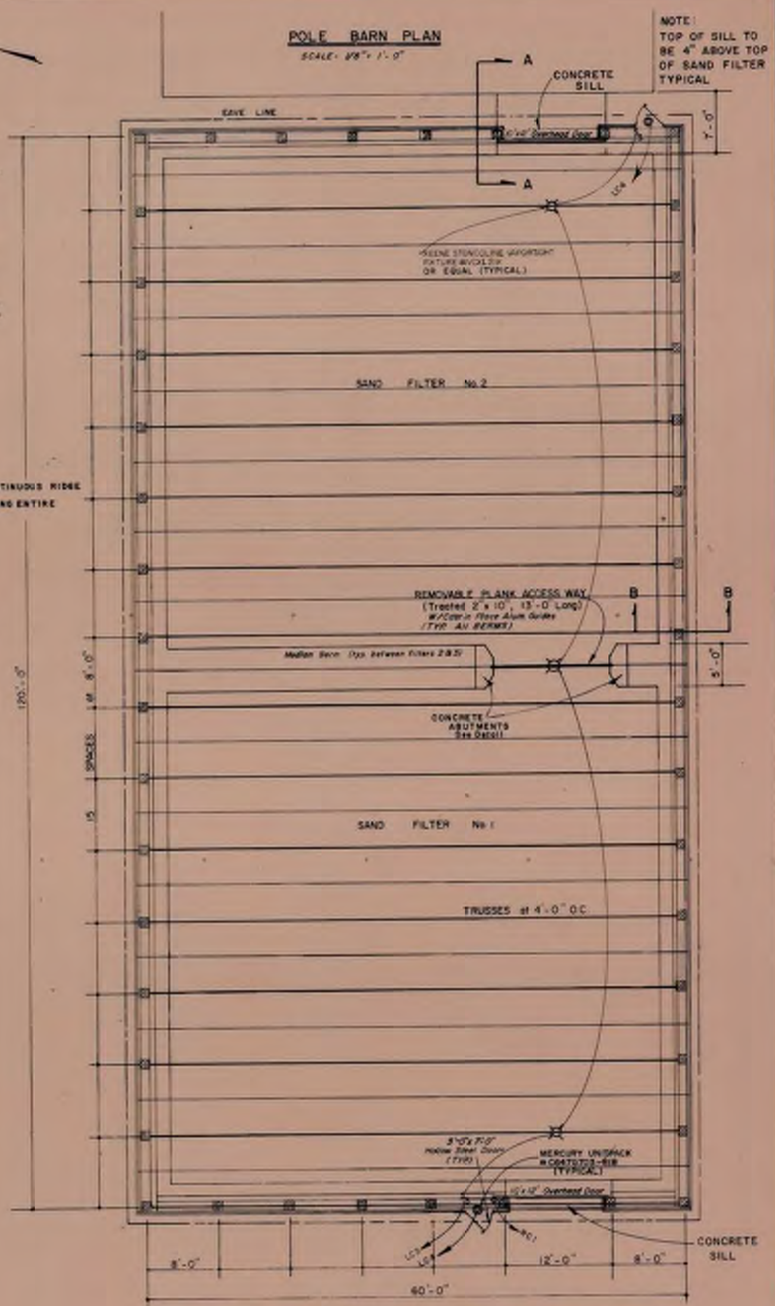
SECTION C-C

SCALE 3/4" = 1'-0"

POLE BARN PLAN

SCALE: 1/8" = 1'-0"

NOTE:
TOP OF SILL TO BE 4" ABOVE TOP OF SAND FILTER TYPICAL



HOLLOW STEEL DOORS: SEE LABORATORY BUILDING, HOLLOW METAL DOOR SPEC., DWG. 5

POLE BARN - PLAN & DETAILS

SEWAGE FACILITIES

CONSTABLEVILLE, NEW YORK

Date: January '84	Checked by: R.P.B. & J.M.	Dwg. No.	7
Scale: As Noted	File No.: 83-207		
Drawn by: K.W.	Survey: ———		

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WATERTOWN NEW YORK

Revisions
2. As Built 3/84 L.L.B.
4. Rev. 4/84 R.S.W.

WARNING: It is a violation of Section 7209 Subdivision 2, of the N.Y. State Education Law for any person other than a licensed land surveyor or professional engineer to alter this map.

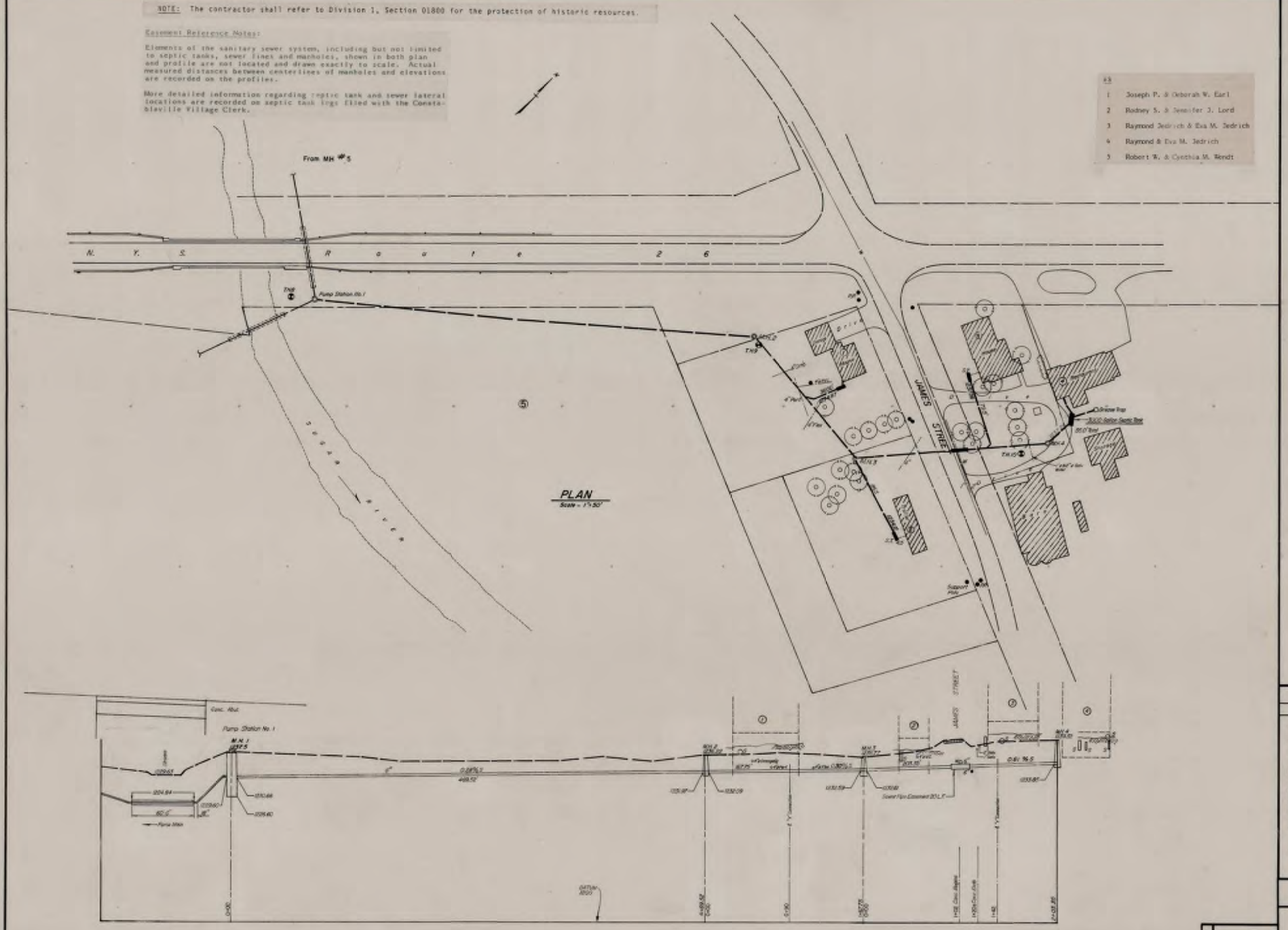
NOTE: The contractor shall refer to Division 1, Section 01800 for the protection of historic resources.

Easement Reference Notes:

Elements of the sanitary sewer system, including but not limited to septic tanks, sewer lines and manholes, shown in both plan and profile are not located and drawn exactly to scale. Actual measured distances between centerlines of manholes and elevations are recorded on the profiles.

More detailed information regarding septic tank and sewer lateral locations are recorded on septic tank logs filed with the Constableville Village Clerk.

#	
1	Joseph P. & Deborah W. Earl
2	Rodney S. & Jennifer J. Lord
3	Raymond Jedrich & Eva M. Jedrich
4	Raymond & Eva M. Jedrich
5	Robert W. & Cynthia M. Wendt



NOTE
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE ARE OTHERS, THE LOCATION OF WHICH IS PRESENTLY NOT KNOWN.

WARNING—It is a violation of Section 7209, Subdivision 2, of the N.Y. State Education Law for any person other than a licensed land surveyor or professional engineer to alter this map.

3	As Built October 26, 1981 R.M.D.Jones
2	September, 1981 R.M.D.
1	10/81 W.S.W.

Revisions

GENERAL NOTES

1. All elevations refer to USGS DATUM

2. Trees, shrubs, bushes, brushkwoods are shown only in areas of reconstruction.

3. Owners noted are reputed owners.

4. Property line locations are approx. only, as per Lewis County tax maps.

5. Invert elevations shown at manholes are of pipe inverts extended to centerline of manholes & were computed using distance between centerline of manholes & grades as shown. Slope flow channel bottom between ends of pipe. Distances shown on profiles are as measured horizontally.

6. Sewer lateral & septic tank locations, (Existing), shown are approx. Contractor shall verify septic tank & lateral location/elevations, prior to construction. The Contractor shall determine the elevation of all existing utilities.

7. Information concerning borings is issued only as a reference for bidders (see specifications)

8. All laterals to new sewers shall have a minimum slope of 1/8"/FT.

9. Any Damage caused by Contractor is to be restored as Specified in contract or as directed by the Engineer.

10. Underground stormdrains, facilities, structures & utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There are others, the location of which is presently not known. Contractor shall stake out all utility lines prior to start of construction, including performing exploratory excavations where required.

11. The Contractor is to take particular care while working in backyards of homes as shown on this sheet & other areas of this project. Existing gardens, shrubs, bushes, trees, leachfields, drainpipes, etc., are to be protected, preserved, & restored where damaged and/or removed as part of the work.

12. On all pipes a pipe joint shall be installed 3'-3" from inside manhole wall.

13. Furnish & install concrete collars on manholes in pavements.

14. Manhole steps required.

15. Details are not drawn to any scale.

16. Manhole frames are to be installed ½" below and match slope of street gradients and/or crown of pavement, walks, driveways, & parking areas.

17. All new house sewer laterals shall be 4"Ø, P.V.C. Unless noted otherwise.

LEGEND

EXISTING

- Water Main w/ Valve
- Fenceline
- Tree Line or Brush Line
- Fire Hydrant
- Tree
- Septic Tank
- Culvert
- Catch Basin
- Power Pole
- Test Hole
- Archaeologically Sensitive Area

PROPOSED

- Sanitary Sewer w/ Manhole
- Septic Tank
- Typical Trench Profiles
- Temporary Fencing
- Replanting Of Interior Soil Drain Required

PLAN & PROFILE, GEN. NOTES & LEGEND

SEWAGE FACILITIES

CONSTABLEVILLE, NEW YORK

Date January '84	Checked by R.E. & S.M.	Drwg. No. 8
Scale As Noted	File No. 81-037	
Drawn by K.H.	Survey ——	

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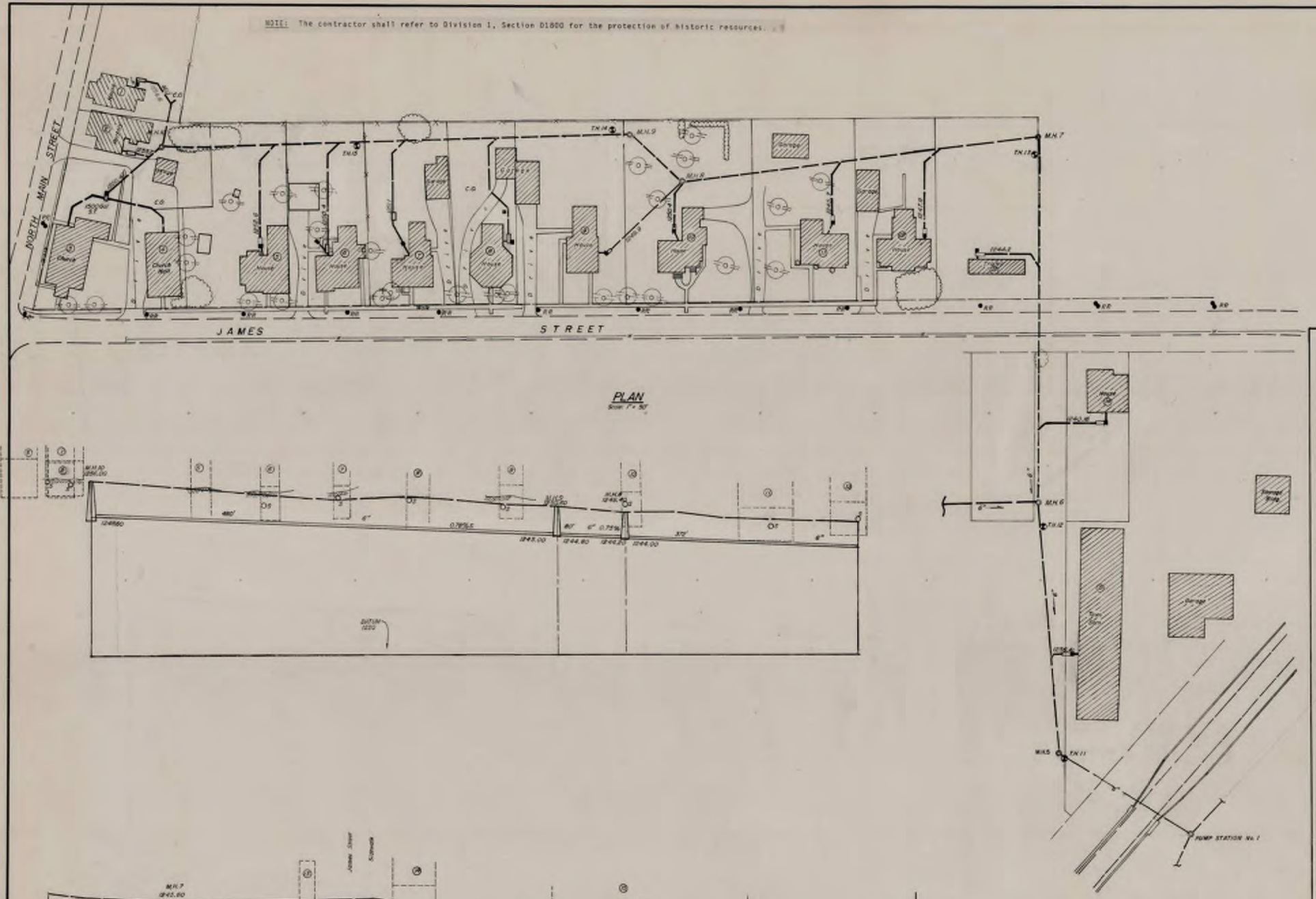
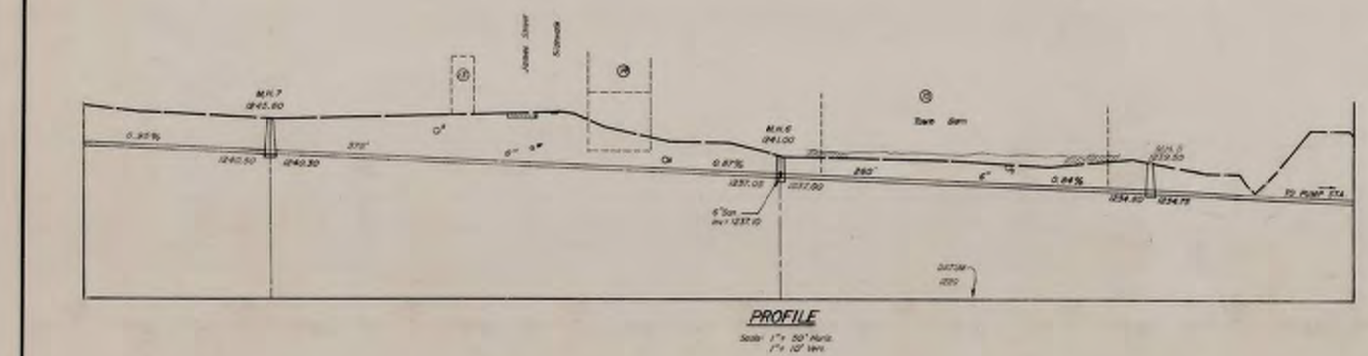
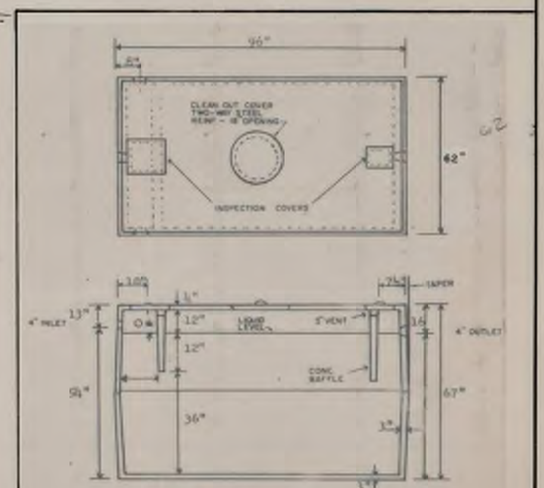
NOTE: The contractor shall refer to Division 1, Section 01800 for the protection of historic resources.



PLAN
Scale: 1" = 50'



PROFILE
Scale: 1" = 50' Horiz.
1" = 10' Vert.



TYPE "B" SEPTIC TANK
Not To Scale

SEPTIC TANK SCHEDULE

TYPE	CAPACITY
A	750 Gallons
○ B	1000 "
C	1500 "
D	2000 "
E	3000 "

○ All NEW SEPTIC TANKS TO BE TYPE "B" (1000Gal) UNLESS OTHERWISE DIRECTED.

NOTES:
1. For All Inlet And Outlet Ports In Use Provide A Watertight Neoprene Seal Around Pipe.
2. Knock-out Ports Not Used Shall Be Bulkheaded With Non-Shrink Grout.
3. Seal All Septic Tank Covers With Aquatitic Seal.

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND FROM FIELD LOCATIONS AND IS CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

WARNING — It is a violation of Section 7209, Subdivision 2, of the N.Y. State Education Law for any person other than a licensed land surveyor or professional engineer to alter this map.

No.	Revisions
1	September, 1984 R.M.S. 4-3rd R.L.S.

PLAN & PROFILE

SEWAGE FACILITIES

CONSTABLEVILLE, NEW YORK

Date	January '84	Checked by	R.E.P. & Cat.
Scale	As Noted	File No.	M-007
Drawn by	K.M.	Survey	——

Drwg. No. 9

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JAMES STREET

MAIN STREET

NOTE: Contractor To Install Temporary Fencing To Protect "No Access" Areas.

NOTE: Contractor To Verify Location Of Storm Drain Before Construction.

NOTE: See Sheet 13 For Lateral Connections.

PLAN

Scale: 1" = 50'

PROFILE

Scale: 1" = 50' Horiz.
1" = 10' Vert.

NOTE: UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THERE FORE THESE LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

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No.	Revisions
2	September, 1984 R.M.D. & B.E. R.S.M.
1	

PLAN & PROFILE

SEWAGE FACILITIES

CONSTABLEVILLE, NEW YORK

Date: January '84	Checked by: R.E. & S.M.	Dwg. No. 10
Scale: As Noted	File No.: 81-207	
Drawn by: K.M.	Survey: ——	

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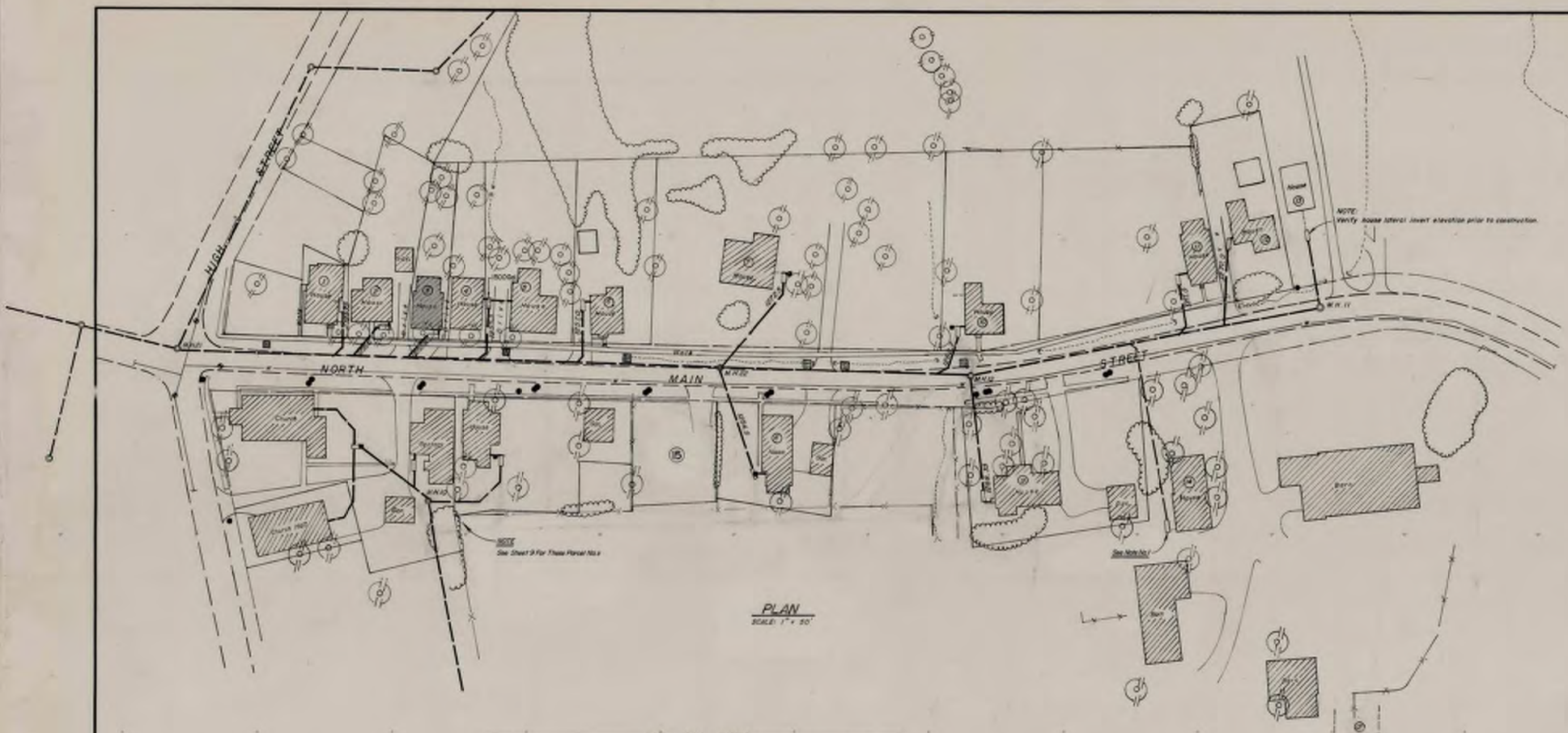

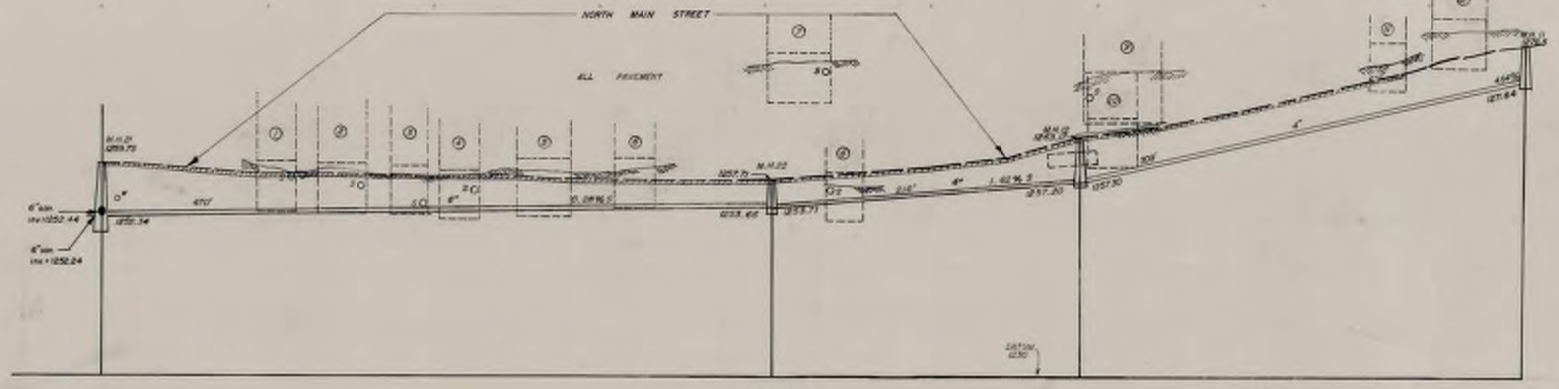

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Revisions
2 September, 1994 R.M.D. 4/94 R.S.M.

PLAN & PROFILE

SEWAGE FACILITIES

CONSTABLEVILLE, NEW YORK

Date January '94	Checked by R.S.M. & S.M.	Dwg. No.	11
Scale 1" = 50'x10'	File No. 93-207		
Drawn by K.M.	Survey ——		

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WATERTOWN NEW YORK

NOTE: The contractor shall refer to Division 1, Section 01800 for the protection of historic resources.

NORTH MAIN STREET

JAMES STREET

HIGH STREET

WEST STREET

MAIN STREET

PLAN

Scale: 1" = 50'

PROFILE

Scale: 1" = 50' Horiz.
1" = 10' Vert.

Contractor to verify water main location and elevation prior to construction.

NOTE:
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Revisions
2. September, 1984 R.W.D.
1. 6/84 R.C.M.

PLAN & PROFILE

SEWAGE FACILITIES

CONSTABLEVILLE, NEW YORK

Date January '84	Checked by R.P. & E.M.	Dwg. No.
Scale As Noted	File No. 81-207	12
Drawn by R.W.	Survey ——	

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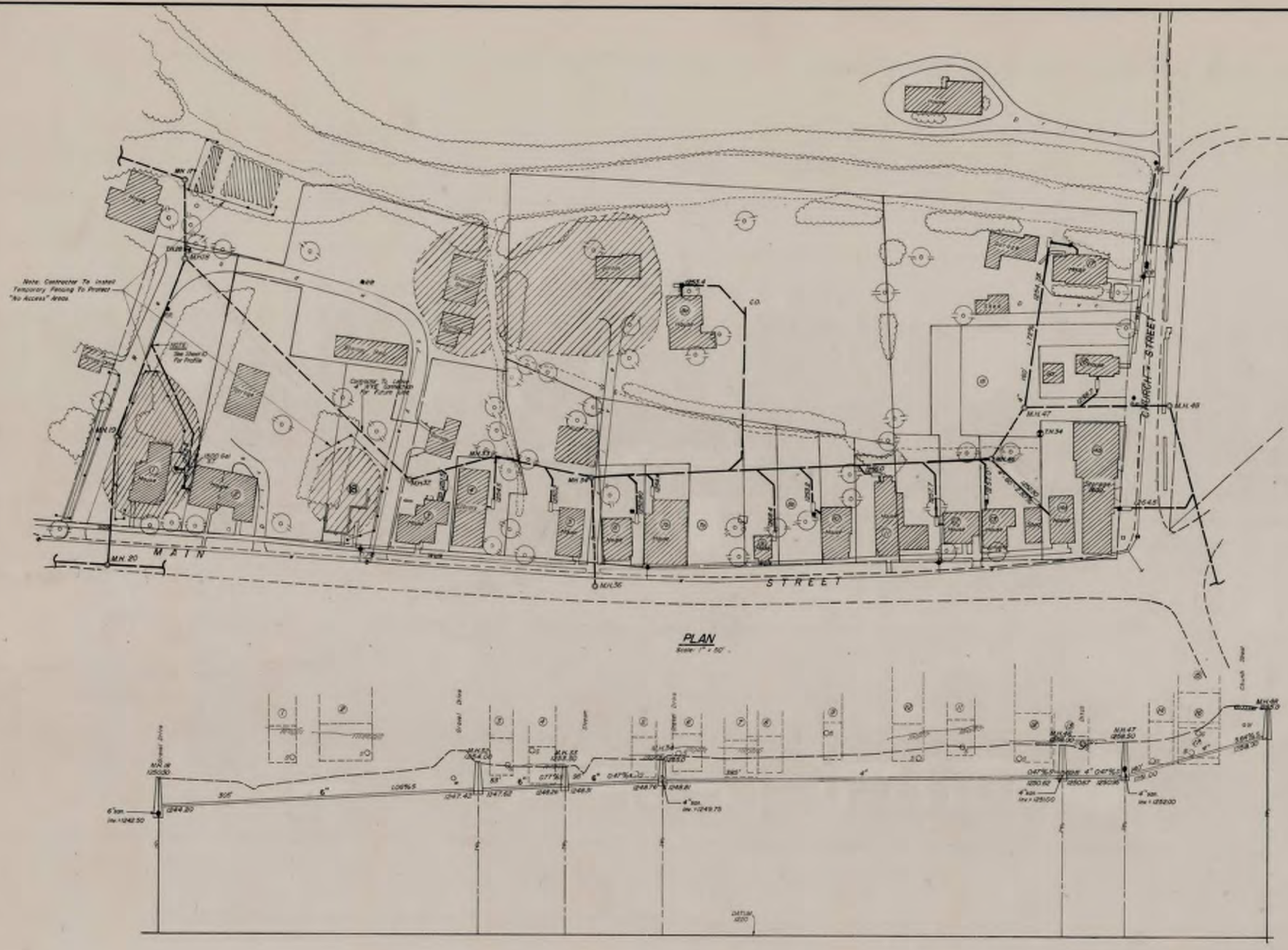
172 CLINTON ST.
WATERTOWN NEW YORK

21



PLAN

Scale: 1" = 50'

PROFILE

Scale: 1" = 50' Horiz.
1" = 10' Vert.

NOTE: The contractor shall refer to Division 1, Section 01800 for the protection of historic resources.

WARNING: It is a violation of Section 7209, Subdivision 2, of the N.Y. State Education Law for any person other than a licensed land surveyor or professional engineer to alter this map.

Revisions
2. September, 1984 R.M.S. (LOM #2.1)

PLAN & PROFILE

SEWAGE FACILITIES

CONSTABLEVILLE, NEW YORK

Date January '84	Checked by R.F.B. & M.C.	Dwg. No.	
Scale As Noted	File No. 81-207	13	
Drawn by K.M.	Survey		

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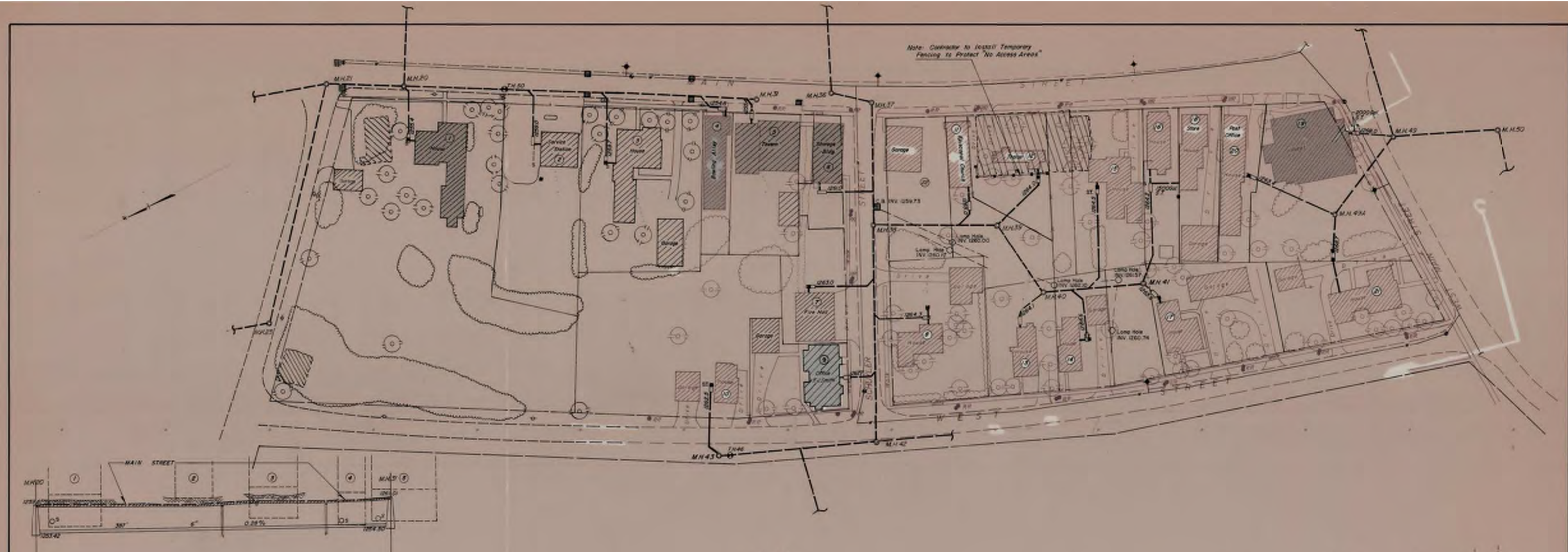
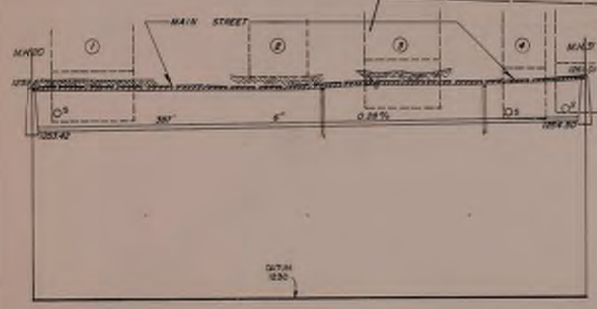
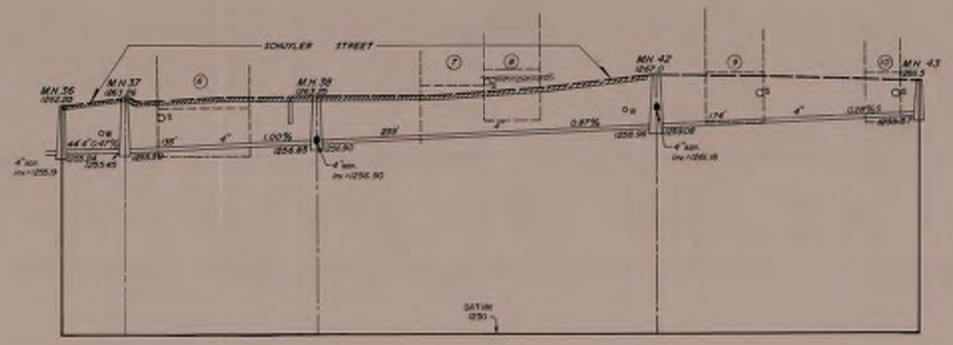


PLAN

Scale: 1"=50'





PROFILE

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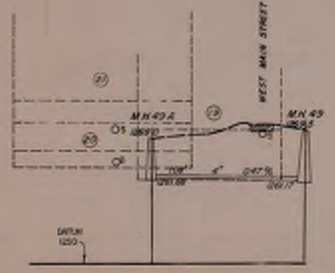
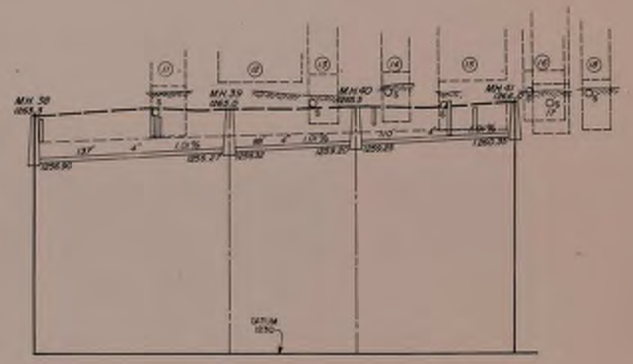
1"= 10' Vert.





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Revisions
2 September, 1994 R.M.D. 4/94 AS-M

PLAN & PROFILE

SEWAGE FACILITIES

CONSTABLEVILLE, NEW YORK

Date January '94	Checked by R.P.P. R.M.	Drwg. No.	
Scale As Noted	File No. 91-207	14	
Drawn by R.M.	Survey ——		

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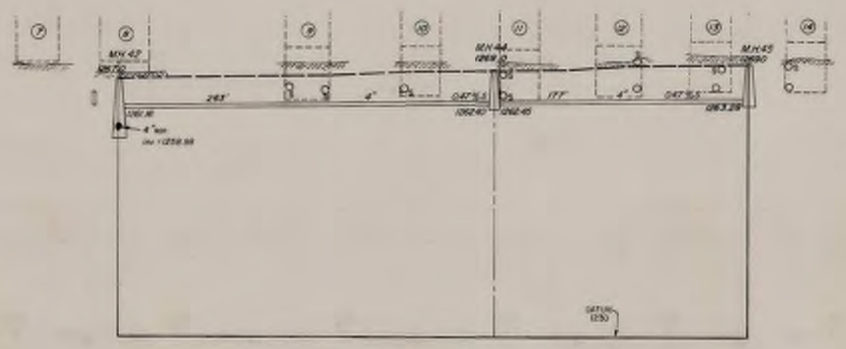

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1 4/84 RSM
Revisions

PLAN & PROFILE

SEWAGE FACILITIES

CONSTABLEVILLE, NEW YORK

Date January '84	Checked by R.E.P. & S.M.	Drwg. No.	15
Scale As Noted	File No. 81-207		
Drawn by K.M.	Survey		

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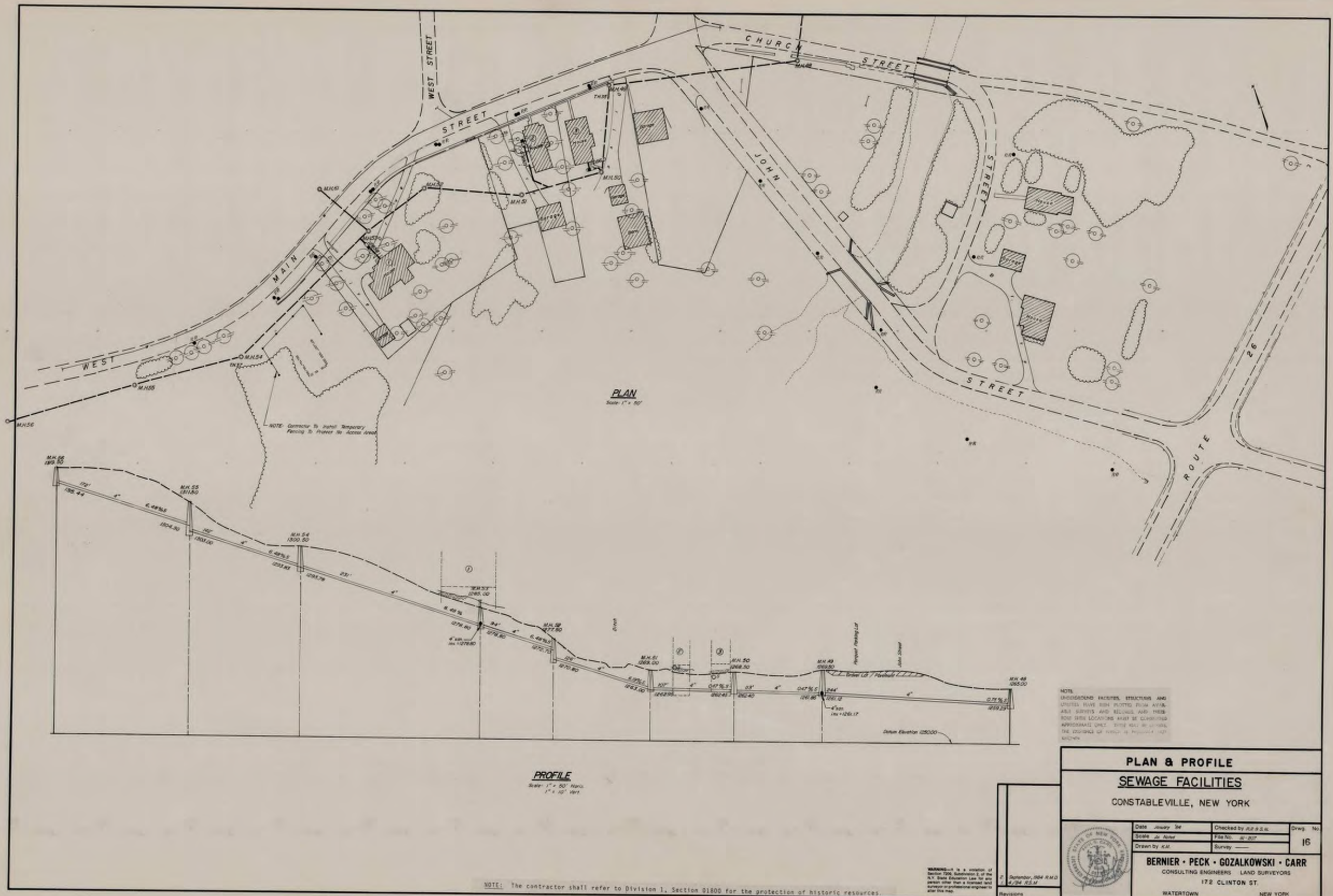
WATERTOWN NEW YORK



PLAN
Scale: 1" = 50'

PROFILE
Scale: 1" = 50' Horiz.
1" = 10' Vert.

NOTE: UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

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Revisions
7 September, 1984 R.M.D.
4/84 R.S.M.

PLAN & PROFILE

SEWAGE FACILITIES

CONSTABLEVILLE, NEW YORK

Date January '84	Checked by R.S.M.	Dwg. No.	
Scale As Noted	File No. 81-207	16	
Drawn by K.M.	Survey ——		

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WATERTOWN NEW YORK

WEST MAIN STREET

THOMAS STREET

FORCE MAIN

PUMP STA. No.2 See Detail & Specs. this Sheet

Note: Install Grinder Pump, Environment One Model Ferrali 210 Series 6 or Approved Equal

NOTE: Verify location and elevation of house lateral invert prior to construction.

MH 68 MH 67 MH 60 MH 59 MH 58 MH 57 MH 56

TH 41

PLAN

Scale: 1" = 50'

PUMP STA. No.2 & Force Main Connect 2

MH 68 1364.5

2" FORCE MAIN 5.39%

1360.40

1354.38

DATUM 1340

PROFILE

Scale

1" = 50' Horiz.

1" = 10' Vert.

MH 68 1364.5

MH 67 1364.5

MH 60 1350.80

MH 59 1339.80

MH 58 1326.0

MH 57 1311.00

MH 56 1309.80

1339.30

1350.24

1357.14

1354.65

1356.60

1352.60

1337.30

1336.57

1316.30

1316.80

1309.89

DATUM 1300

OPERATIONAL INFORMATION

Motors:
1 HP, 1725 rpm, high torque, capacitor start, thermally protected, 240 volts 60 hertz, 6 amp, 1 phase

Inlet Connections:
4" PVC sloped flange standard. Can be used with other piping sizes and materials using standard adapters

Discharge Connections:
Pump discharge tanithmase is 1¼ inch NPT male thread. Can easily be adapted to 1¼ inch PVC pipe or any other material required by local codes.

Normal Peak Design Pressure:
40 psig (92.5 Head)

Discharge:
10 gpm at 0 psig
11 gpm at 40 psig

Overload Capacity:
Able to handle temporary peak pressure to 50 psig with no noticeable drop in output. Flow does not stop or have a "shut off" as centrifugal pumps do. Maximum pressure which pump can generate is limited by motor characteristics to a value well below the rating of piping and appurtenances. Automatic reset feature does not require manual operation following overload.

4" DISCHARGE TO TYPICAL GRADE LINE

MOTOR BREATHER ASSEMBLY

ELECTRICAL JUNCTION BOX

ELECTRICAL POWER LEAD (#12 AWG THREE CONDUCTOR CABLE)

BALANCE TO RECEPTACLE PANEL BY E.C. CONTRACT No. 5

CORE MOUNTING BOLTS

GRINDER PUMP CORE

WATERTIGHT FITTING FOR 3/8" W.G. WIRE CABLE

CORE LOCATING GUIDES

GRINDER PUMP CORE LIFTING HANDLE

DISCHARGE LINE AND FITTINGS

LOCK

ENVIRONMENT ONE
Model 210 Series 6
OR APPROVED EQUAL

PUMP STATION No. 2-Detail & Specs

NOT TO SCALE

NOTE
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

NOTE: The contractor shall refer to Division 1, Section 01800 for the protection of historic resources.

WARNING — It is a violation of Section 7209, Subdivision 2, of the N.Y. State Education Law for any person other than a licensed land surveyor or professional engineer to alter this map.

Revisions	
2	September 1994 R.M.D. 4/94 R.D.M.
1	

PLAN & PROFILE

SEWAGE FACILITIES

CONSTABLEVILLE, NEW YORK

Date January 94	Checked by R.D.M. S.M.	Drwg. No.	17
Scale As Noted	File No. 93-202		
Drawn by K.M.	Survey ———		

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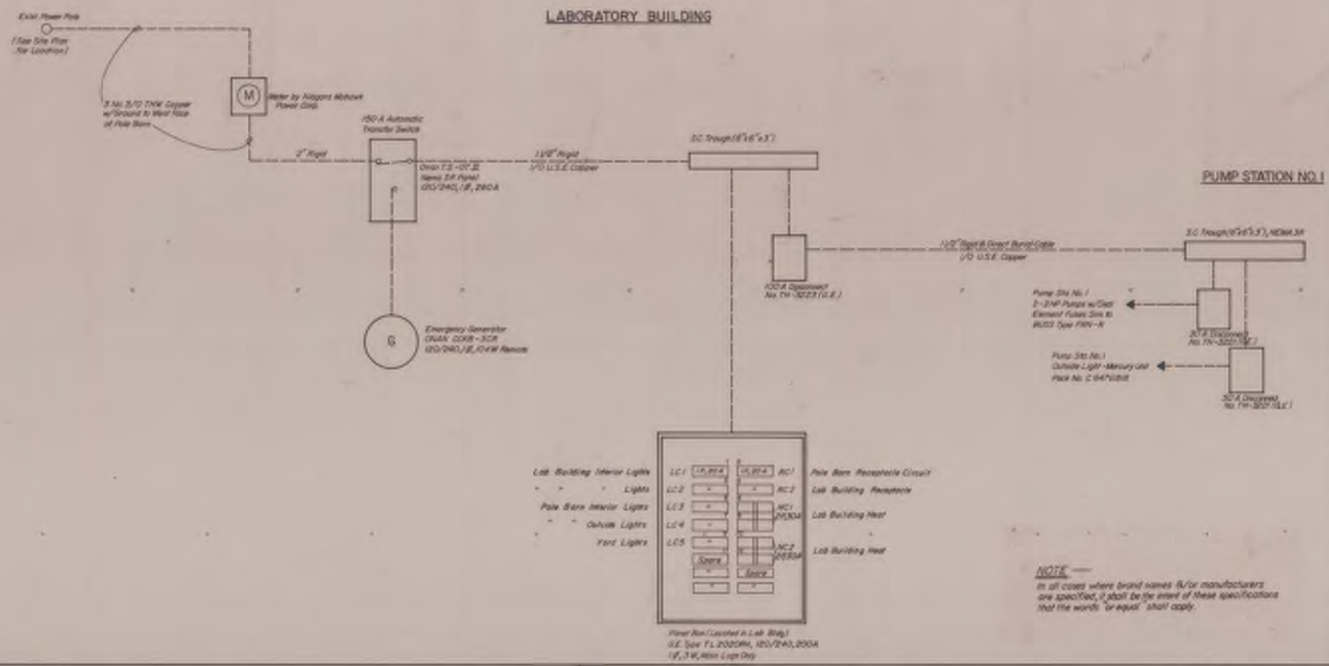
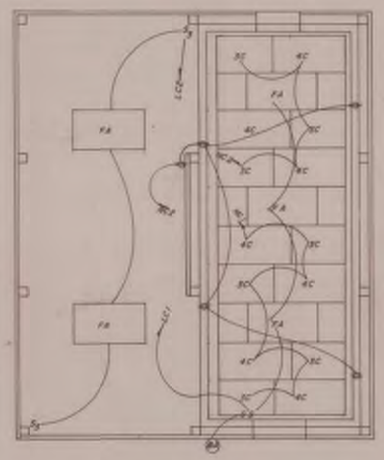
CONSULTING ENGINEERS LAND SURVEYORS
172 CLINTON ST.
WATERTOWN NEW YORK

SCHEMATIC of ELECTRICAL SERVICE

LABORATORY BUILDING



NOTE —
In all cases where brand names (&/or manufacturers are specified, it shall be the intent of these specifications that the words "or equal" shall apply.



LABORATORY BUILDING
SCALE: 1" = 1/4"

— RADIANT HEATING LAYOUT
— ELECTRICAL DIAGRAM

NOTE — Contractor To Furnish And Install Thermostat Or Interior Wall A.C.U.S.E Which Will Operate Both Heating Circuits

POLE BARN & LABORATORY SPECIFICATIONS
See Dwgs. No. 5 & 7

GENERAL NOTES:

1. All work shall be installed in strict accordance with N.E.C. 1984, local utility co. requirements and local authorities having jurisdiction.
2. Wiring: All wiring shall be installed in hot-dipped galv. rigid steel conduit run exposed. All conductors shall be copper with 600v THW or THHN insulation.
3. All grounding shall be in strict accordance with NEC & local utility co's requirements.
4. This contractor is to make all arrangements with local utility company for service drop to building and install in accordancewith their requirements; this contractor is to pay all fees and service charges.
5. NYBFU certificate approval required for all work installed by this contractor.
6. All device boxes & junction boxes to be type FS (or equal) conduit fittings with weatherproof covers or cover plates.
7. Switching & protective equipment: acceptable manufacturers General Electric, Square D, or Westinghouse. Safety or Disconnect switches shall be heavy-duty type; all panelboard branchbreakers to be bolt-on type.
8. Wiring devices: Duplex receptacles: P&S 6300 or equal
   Switches: P&S 20AC series or equal
9. Lighting Fixtures:
   Type FA - 2 lamp industrial with slotted baked white enamel reflectors with SQS up light, 120v ballas; 2 - F40CW lamps: Daybrite, Gibson, or equal
   Type BA - Incandescent exterior bracket, wall-mounted cast aluminum housing, 200A1F lamp; Holophane 408, Stonco, or equal.
10. Ground fault detector, 600 volt, 3 phase, square D, cat. #5551 or approved equal.
11. All materials shall be new, un-used, and shall bear UL label.
12. Unless specifically noted otherwise, equipment enclosures shall be NEMA 1 general purpose.
13. Radiant Heating Units: Type 3C-18"x3'-95W-7ea=665w.
    Type 4C-18"x4'-130W 7ea=910W.
14. Pole barn & yard light exterior lighting: use mercury vaitpack C6476818 or equalmounted on wood poles and over entrance doors. See (sheet 2) for location.
15. Pole barn interior lighting: Use Keene Stonco Line vaportight fixture #VCXL21K or equal.
16. Install a 10kw emergency generator 3600RPM with remote start, OnanCCKB-3CR or equal.
17. Install a concrete pad (see details this sheet) for the emergency generator.

NOTE:
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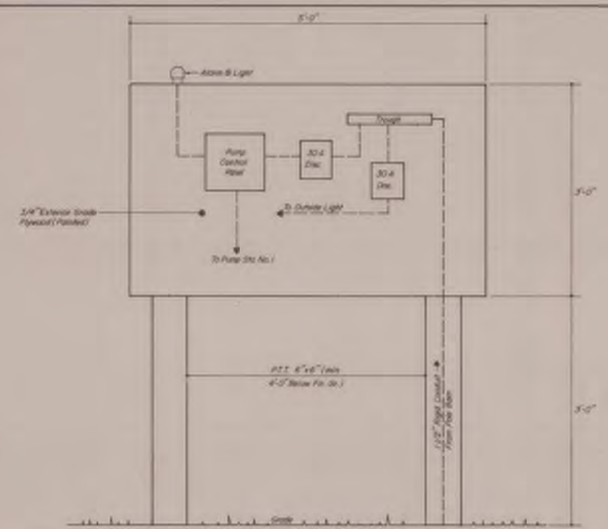
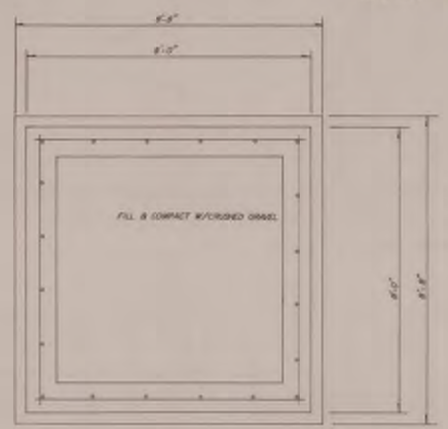
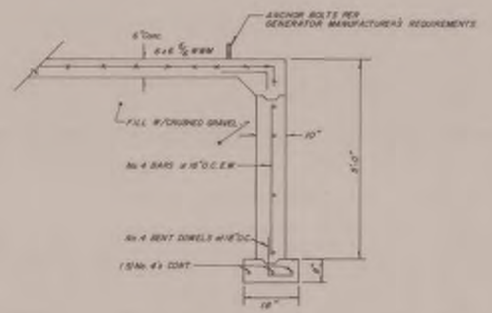


PANEL BOARD
(AT PUMP STA. NO. 1)
Not to Scale

GENERATOR FOUNDATION DETAILS
SCALE: 1" = 1/2"





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4/84 R.S.M.
Revisions

ELECTRICAL SCHEMATIC

SEWAGE FACILITIES

CONSTABLEVILLE, NEW YORK

Date Jan. '84	Checked by R.P.B.S.M.	Dwg. No.
Scale As Noted	File No. 81-207	18
Drawn by W.F.P.	Survey ———	

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