

Woodward Lake Subdivision

Woodward Lake Properties, LLC

Towns of Northampton and Mayfield

Fulton County, New York



Location Map

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No.	Description	xx/xx/xx
Revision Schedule		
Date		

APA Review Set, Project #A2018-0123 01/24/20

Drawing Set Log

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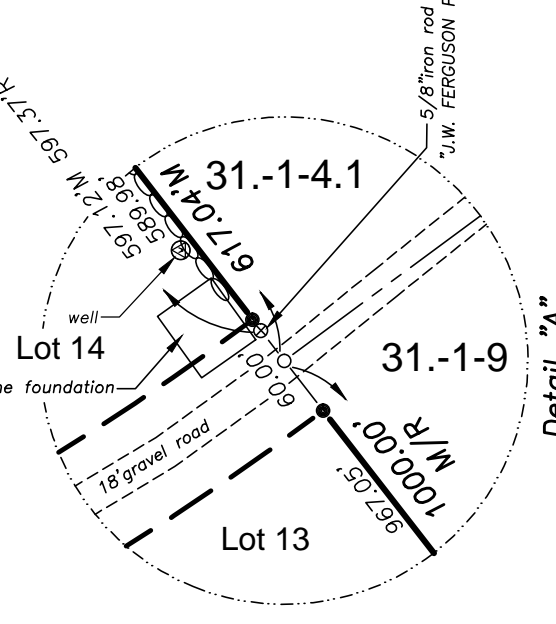
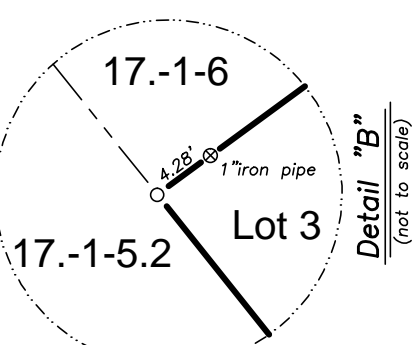
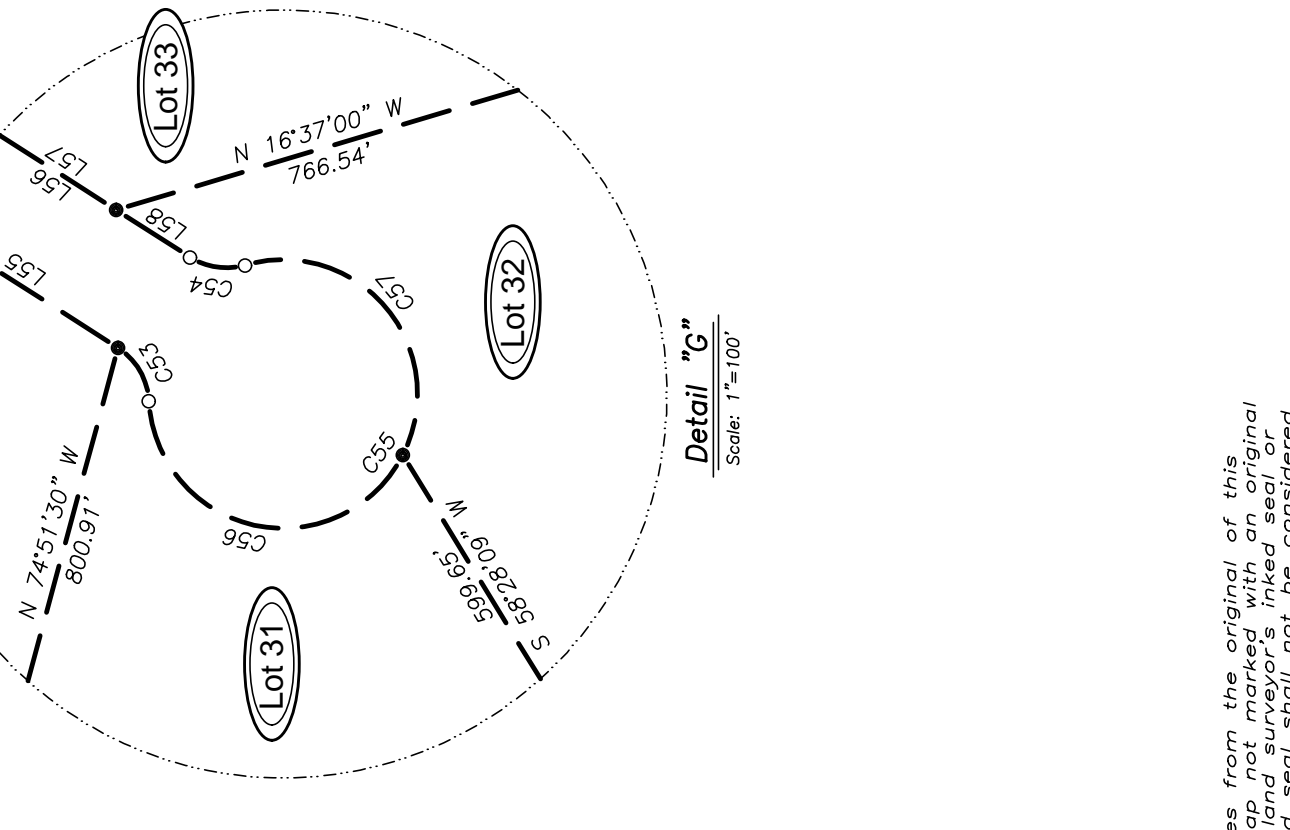
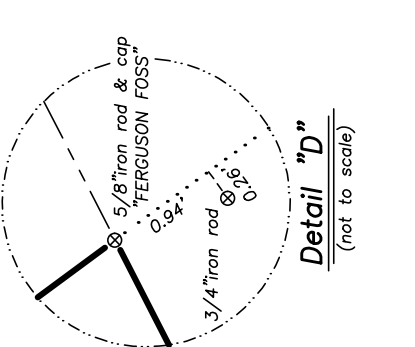
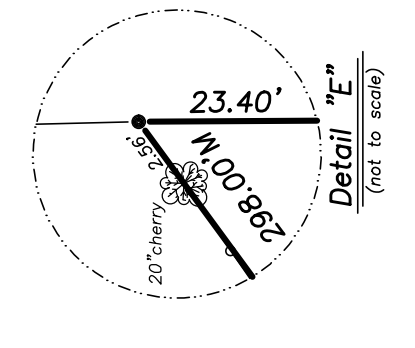
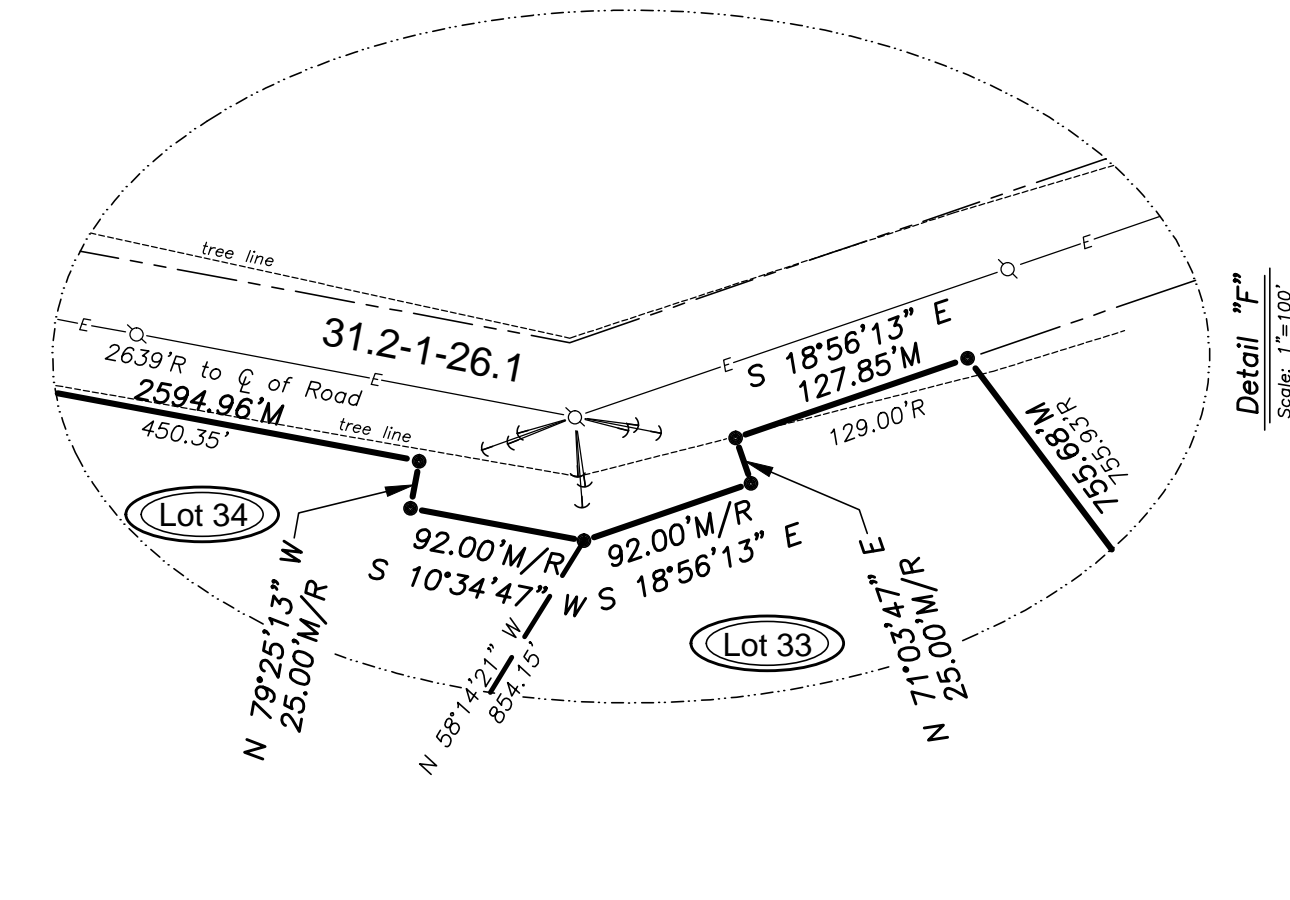
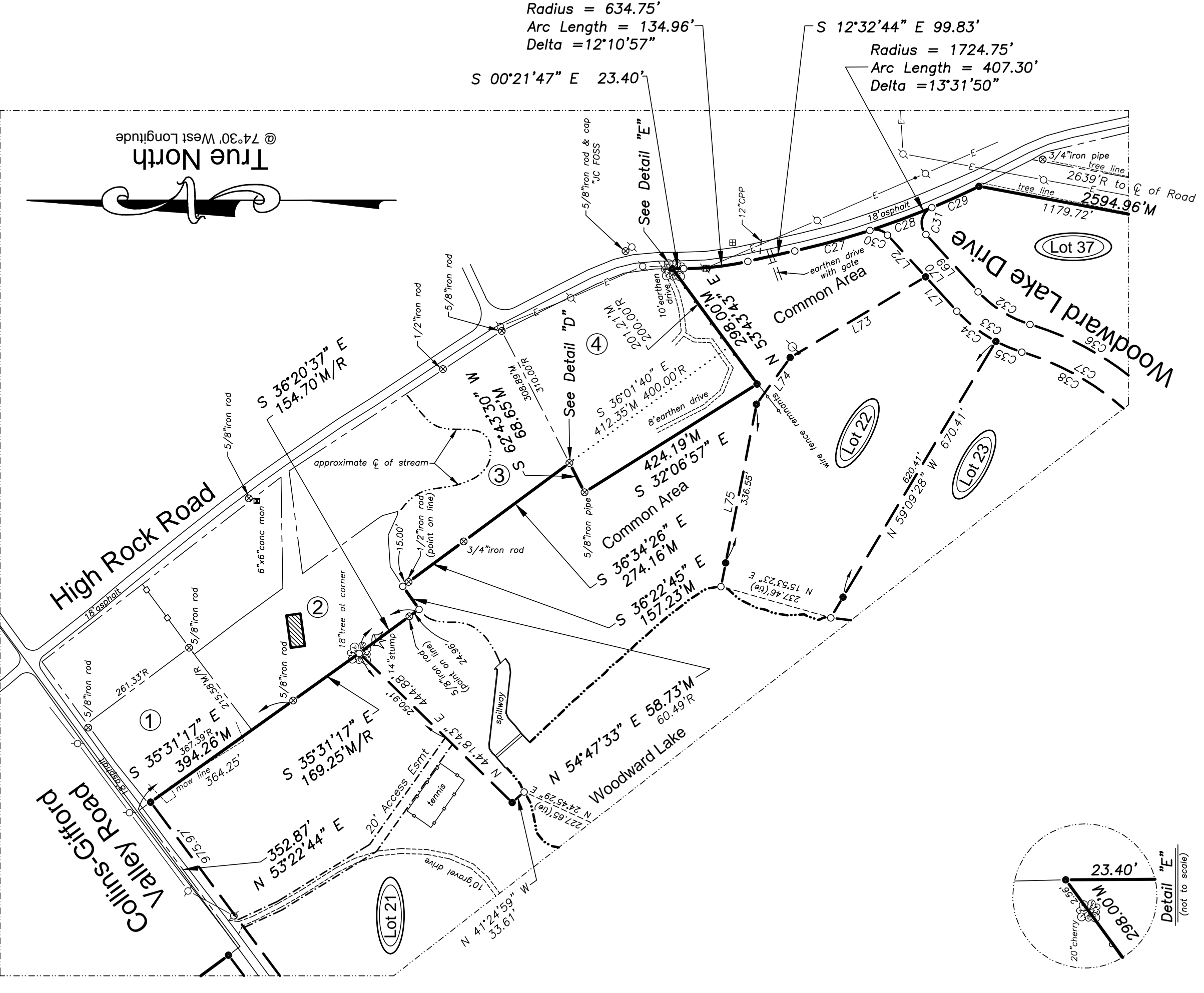
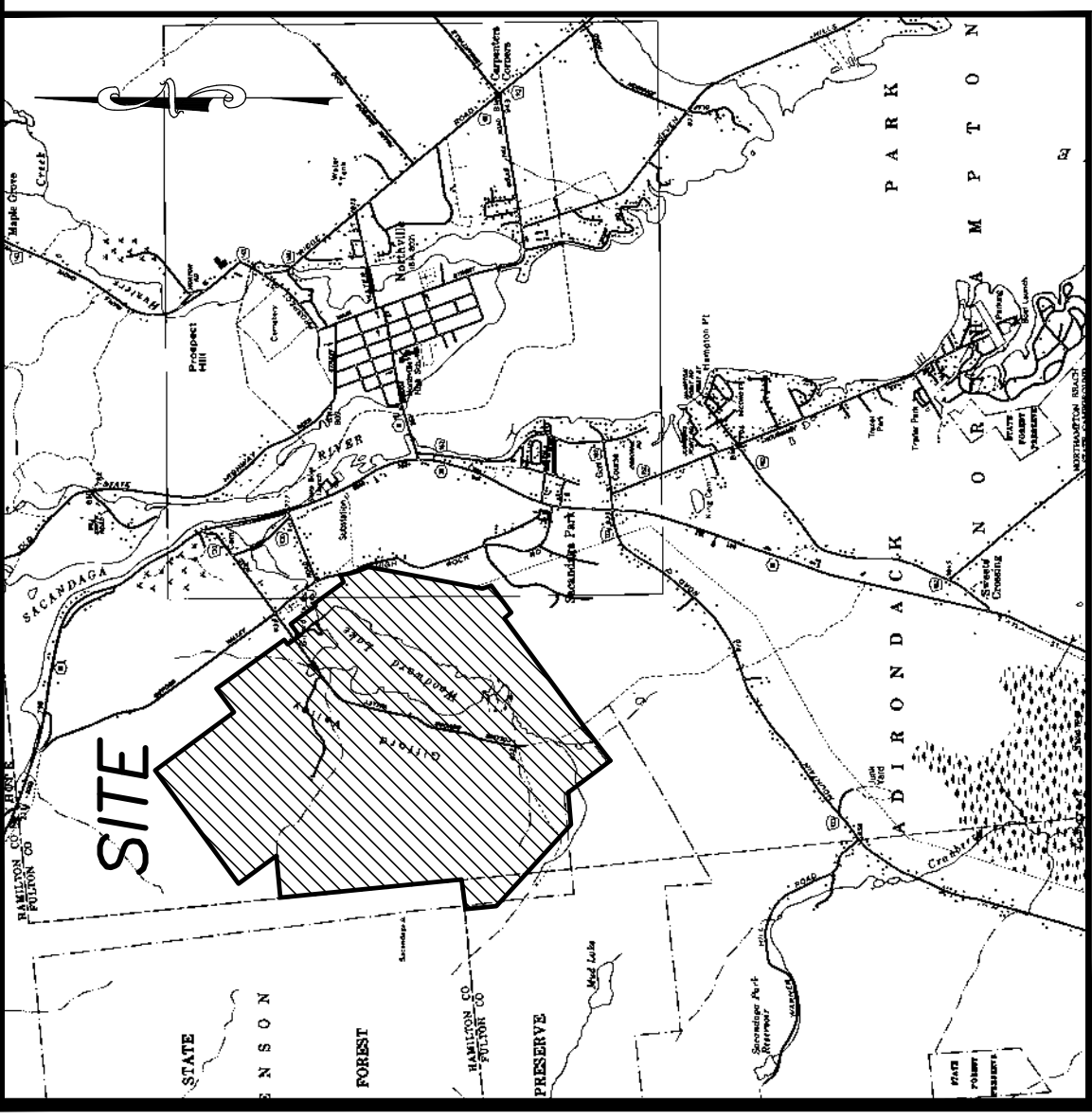
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01/24/20

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**CIVIL & ARCHITECTURAL
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LEGEND

- 5/8" Iron Rod Set, Capped "Lawson 050086"
- Evidence Found, Labeled
- Monument Found, Labeled
- Chain Link Fence
- Wire Fence Remnants
- Stream Course/Edge Pond, Lake, River, Stream, etc.
- Proposed New Division Line
- County Tax Parcel Line
- Boundary Line
- Utility Pole
- Utility Line, Electric/Telephone/Cable T.V.
- Water Well
- Underground Telephone Splice Box
- Centerline
- Corrugated Metal Pipe
- Concrete
- Liquid Propane
- Deciduous Tree (blazed and/or wire fence remnants)
- Coniferous Tree (blazed and/or wire fence remnants)
- County Tax Map Parcel I.D. Number
- Test Well/Soil Boring
- New Parcel - This Subdivision

MAP REFERENCES

- 1) "Mining Patent, Blasted" or identification map with search on Tract 450...; Fulton County Records.
- 2) "Map showing Survey of Lands to be Acquired Pursuant to Section 3-0305 of the Environmental Cons. Law, Project O-55P," by William A. Schaffer, U.S., dated Sept. 4, 1975; Fulton County Filed Map.
- 3) Survey Map of Lands of Harold W. & Madeline R. 1993; Fulton County Filed Map.
- 4) "Survey Map of a Portion of Lands of Michael & Heather Hopkins..." by John W. Ferguson, L.S., dated May 10, 2010; Fulton County Filed Map.

NOTES

- 1) Subject to any statement of fact on up to date and accurate abstract of title may disclose.
- 2) Subject to the rights of the public over Collins-Gifford Valley Road, High Rock Road and Robert Sweet Road.
- 3) Subject to any utility easements of record.
- 4) Site may contain protected wetlands. Contact appropriate governmental agencies prior to any site work.
- 5) Underground features, facilities, structures and utilities have been located from available records, field investigations and other sources. The locations and depths of any markings provided by the client. Therefore, these locations must be considered approximate. There may be other markings or utility lines that are not shown on these records and utilities, the location or existence of which is not known. Location of underground features, facilities, structures and utilities are indicated by approximate locations.
- 6) It is the intent that there is discrepancy between the contents of the signed and sealed hardcopy drawing and the corresponding digital drawing file, the shall be the controlling document. Be sure to compare the two documents before using the digital file.
- 7) State Plane Coordinate System, 3101-East Zone

AREA SUMMARY

Lots 1 through 37 = 42,857,508 s.f. = 983.873 Acres
Common Area = 7,436,967 s.f. = 170.729 Acres
Collins-Gifford Valley Road = 460,280 s.f. = 10.567 Acres
Woodward Lake Drive = 194,555 s.f. = 4.466 Acres
Total = 50,949,310 s.f. = 1,169.635 Acres

AREA SUMMARY (BY TOWN)

Town of Mayfield = 476,633 s.f. = 10.942 Acres
Town of Northampton = 50,472,677 s.f. = 1,158.693 Acres
Total = 50,949,310 s.f. = 1,169.635 Acres

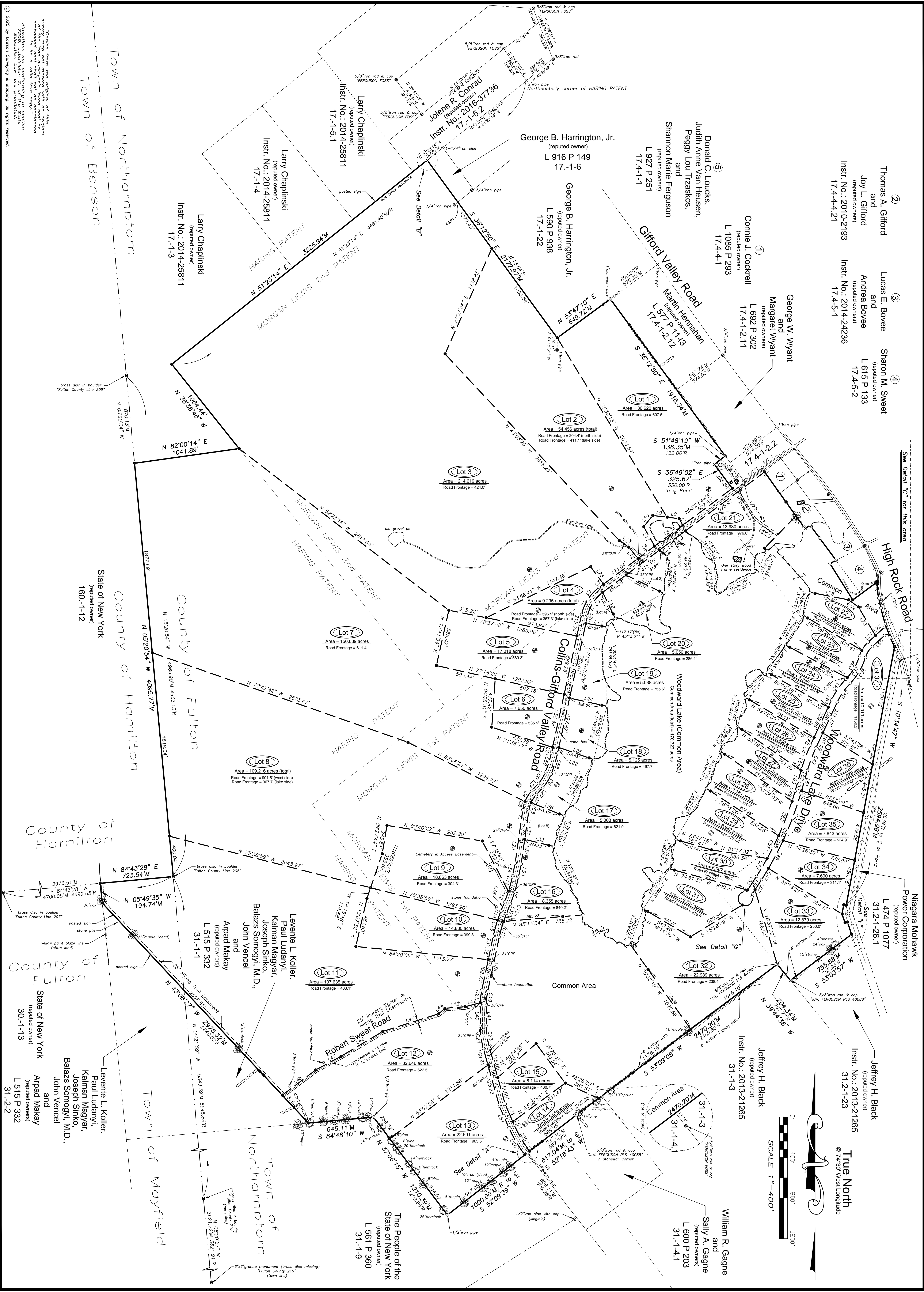
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C2	S 53.22°	44.48	157.789°
C3	S 53.22°	21.38	54.1639°
C4	S 55.00°	129.08	20.449°
C5	S 55.00°	83.58	14.7538°
C6	S 55.00°	151.89	15.2981°
C7	S 55.00°	81.50	15.2981°
C8	S 55.00°	151.89	15.2981°
C9	S 55.00°	151.89	15.2981°
C10	S 55.00°	151.89	15.2981°
C11	S 55.00°	151.89	15.2981°
C12	S 55.00°	151.89	15.2981°
C13	S 55.00°	151.89	15.2981°
C14	S 55.00°	151.89	15.2981°
C15	S 55.00°	151.89	15.2981°
C16	S 55.00°	151.89	15.2981°
C17	S 55.00°	151.89	15.2981°
C18	S 55.00°	151.89	15.2981°
C19	S 55.00°	151.89	15.2981°
C20	S 55.00°	151.89	15.2981°
C21	S 55.00°	151.89	15.2981°
C22	S 55.00°	151.89	15.2981°
C23	S 55.00°	151.89	15.2981°
C24	S 55.00°	151.89	15.2981°
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C36	S 55.00°	151.89	15.2981°
C37	S 55.00°	151.89	15.2981°
C38	S 55.00°	151.89	15.2981°
C39	S 55.00°	151.89	15.2981°
C40	S 55.00°	151.89	15.2981°
C41	S 55.00°	151.89	15.2981°
C42	S 55.00°	151.89	15.2981°
C43	S 55.00°	151.89	15.2981°
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C46	S 55.00°	151.89	15.2981°
C47	S 55.00°	151.89	15.2981°
C48	S 55.00°	151.89	15.2981°
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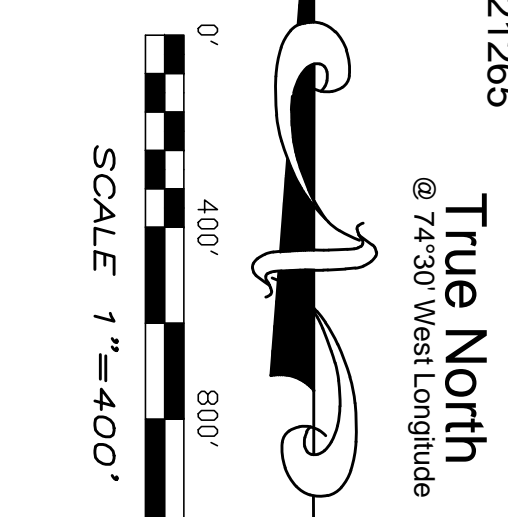
REVISED

No.	Date	Description

Preliminary Subdivision Plat
Woodward Lake
Req.: New York Land & Lakes Development, LLC
of Premises of
Woodward Lake Properties, LLC
17-1-23, 31-1-2, 31.2-1-25 & 31-2-1
L 792 P 41, L 816 P 137 & L 889 P 291
being part of
Haring Patent
and
Morgan Lewis 1st & 2nd Patent
Town of Northampton & Mayfield,
County of Fulton, State of New York



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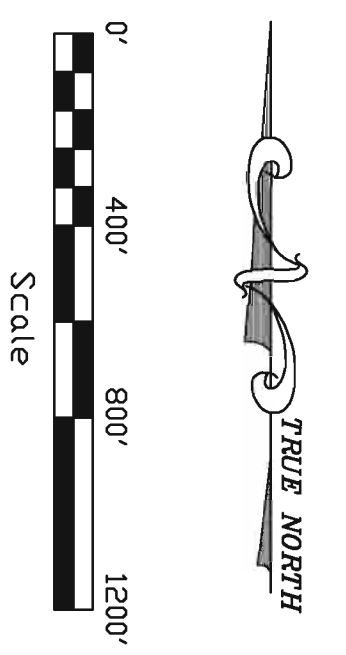
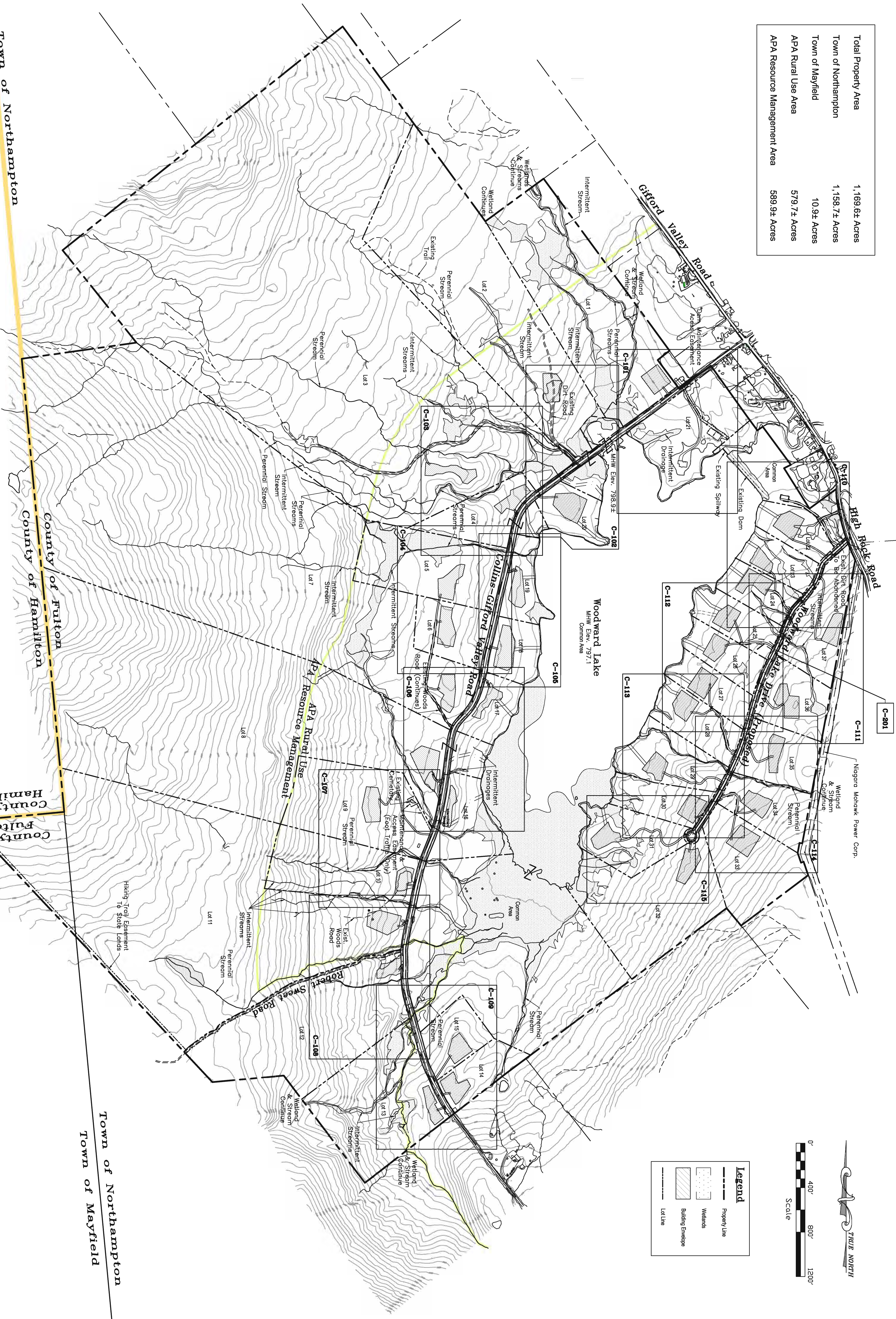
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FIELD CHECKED BY: J.A.A.	DWG FILE: 6711.DWG
M.P. No. W 24-1168	SHEET No. 2 of 2



LAWSON SURVEYING & MAPPING
 Boundary ~ Topographic ~ Control ~ Deformation ~ Construction ~ G.I.S. ~ Subdivision ~ G.P.S.
 2959 County Route 8 • Oneonta, New York 13820
 Phone: (607) 432-3300
 Facsimile: (607) 432-8313
 www.lawsonsurvey.com

REVISIONS		
No.	Date	Description

Total Property Area	1,169.64 Acres
Town of Northampton	1,158.74 Acres
Town of Mayfield	10.94 Acres
APA Rural Use Area	579.74 Acres
APA Resource Management Area	589.94 Acres



Legend	
	Property Line
	Wells
	Building Envelope
	Lot Line

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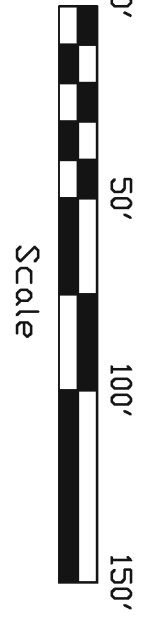
Woodward Lake
 Properties, LLC
 Woodward Lake Subdivision
 Towns of Northampton & Mayfield
 Fulton County, NY

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2	Agency Review Drawing	MM/DD/YY	
3	Drawing Log	MM/DD/YY	

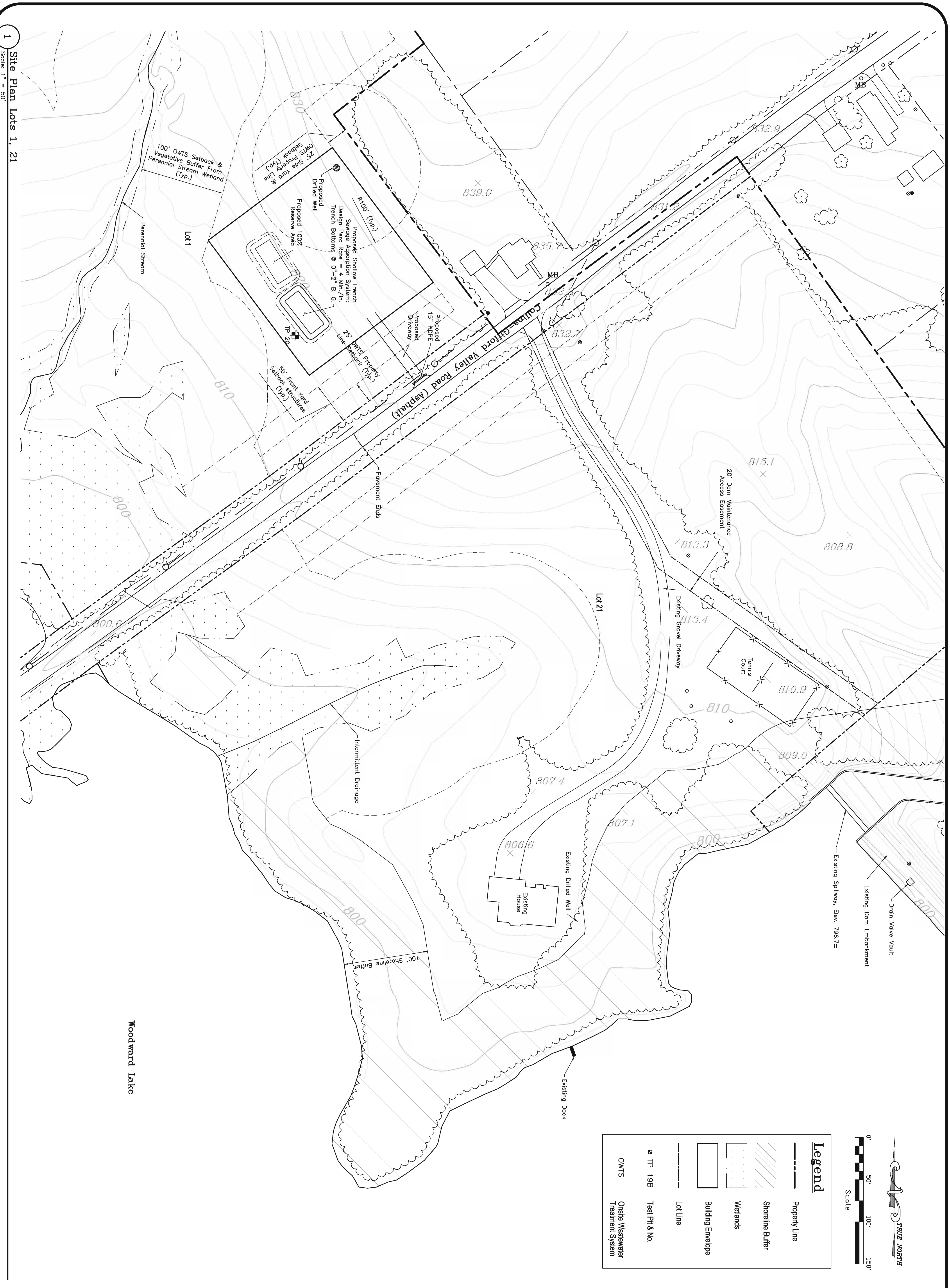
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 01/24/20

SHEET NAME:
 APA Subdivision Application
 General Subdivision Plan
 & Site Plan Sheet Index

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Legend	
	Property Line
	Shoreline Buffer
	Wetlands
	Building Envelope
	Lot Line
	TP 19B Test Pit & No.
	OWTS Onsite Wastewater Treatment System



Woodward Lake

It is a violation for any person to alter the location of an arbitrarily located person.

PRELIMINARY
01/24/20

SHEET NAME:
APA Subdivision Application
Site Plans
Lots 1, 21

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No.	Description	W/S/DO/Y/M	Date
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2	Agency Review Drawing	W/S/DO/Y/M	01/24/20
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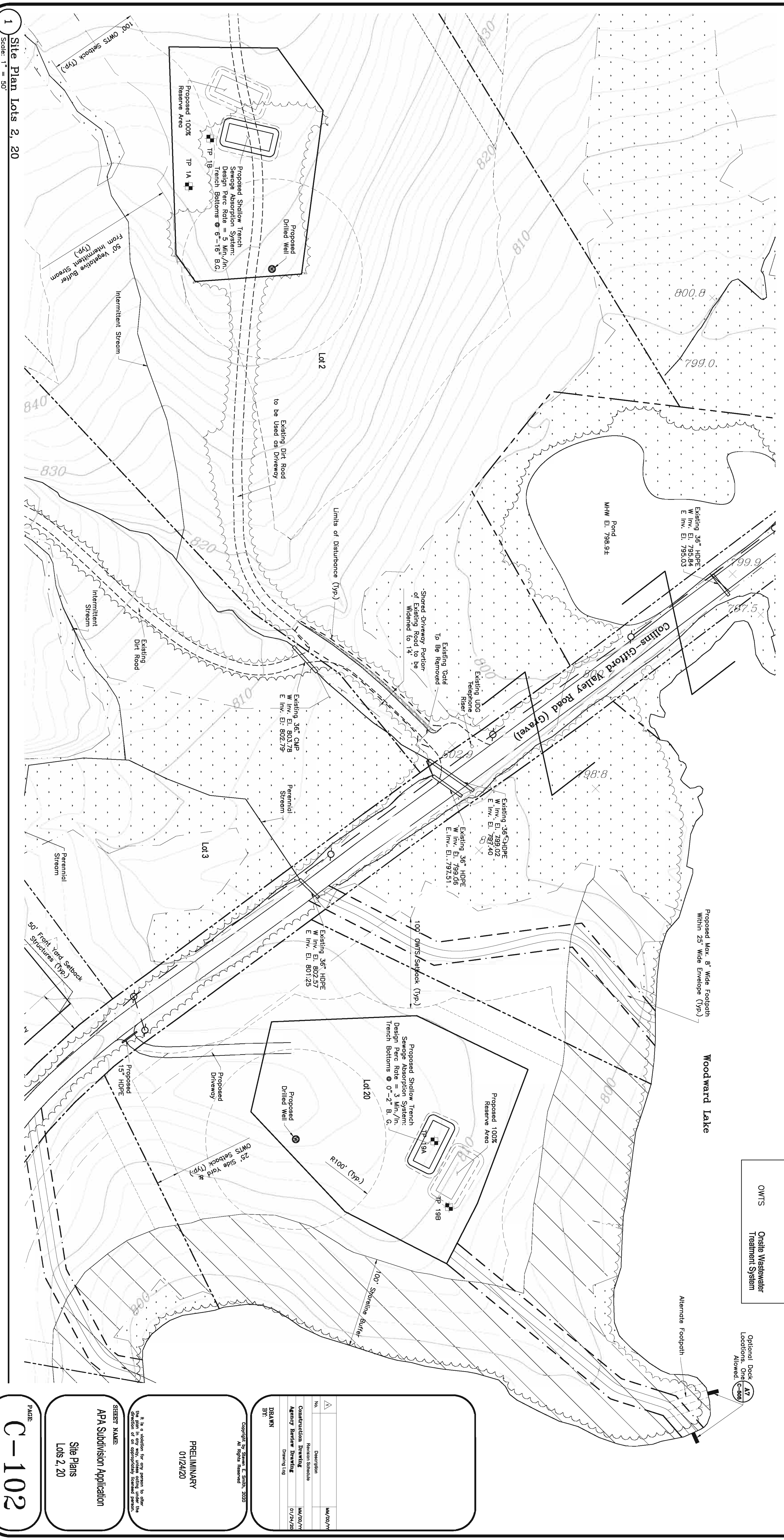


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**Woodward Lake
Properties, LLC**
Woodward Lake Subdivision
Towns of Northampton & Mayfield
Fulton County, NY

Legend	
	Property Line
	Shoreline Buffer
	Wetlands
	Building Envelope
	Lot Line
	Test Pit & No.
	Onsite Wastewater Treatment System
	OWTS

Optional Dock A7
Locations, One C-505
Allowed.



1 Site Plan Lots 2, 20
Scale: 1" = 50'

No.	Description	MM/DD/YY
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2	Agency Review Drawing	MM/DD/YY
3	DRAWN	MM/DD/YY

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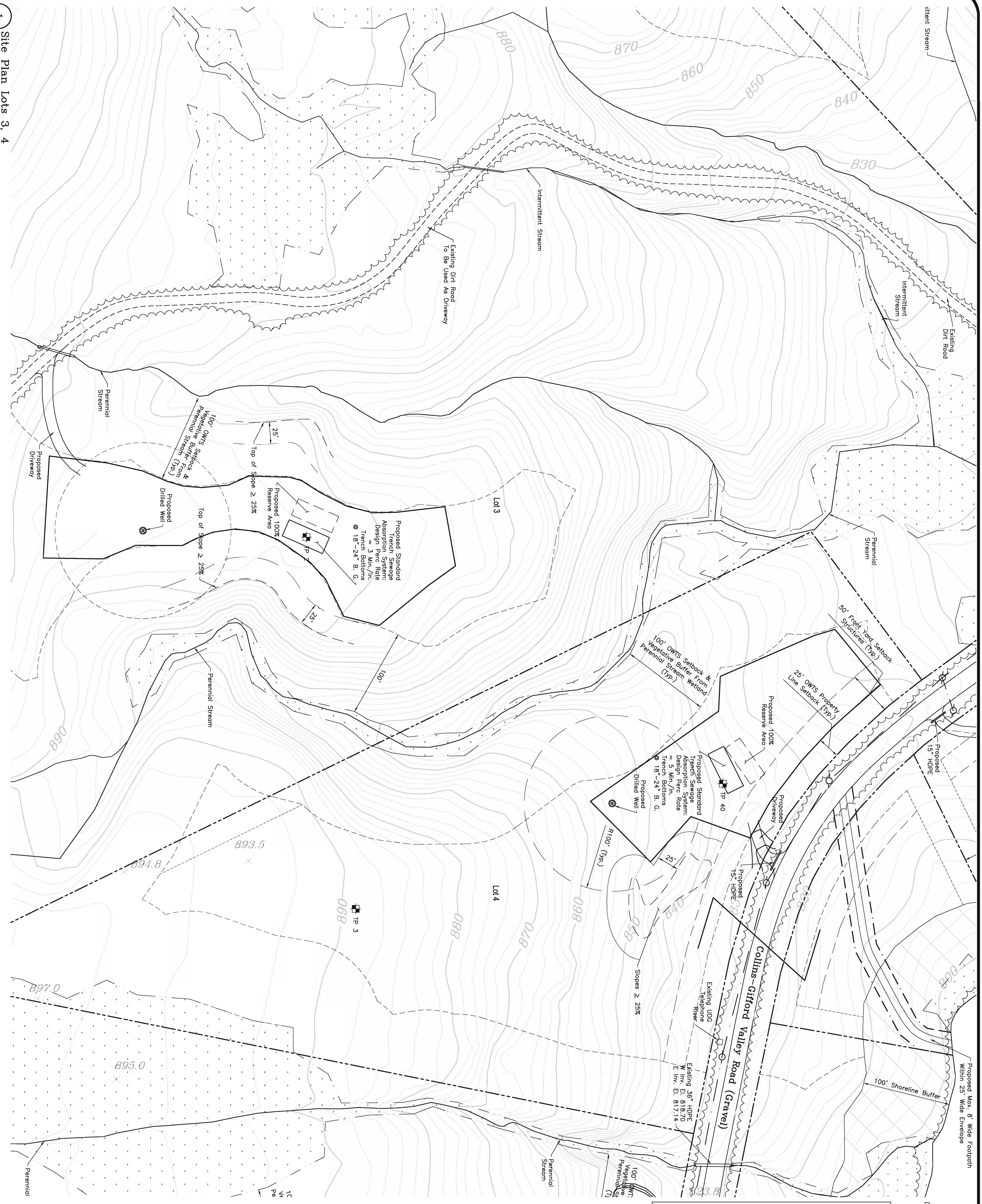
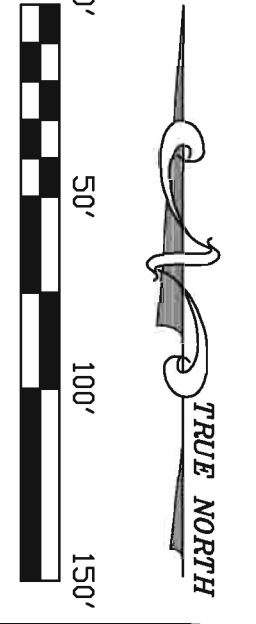
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SECRET NAME
APA Subdivision Application
Site Plans
Lots 2, 20

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Legend

- Property Line
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- Wetlands
- Building Envelope
- Lot Line
- TP 19B Test Pit & No.
- OWTS Onsite Wastewater Treatment System

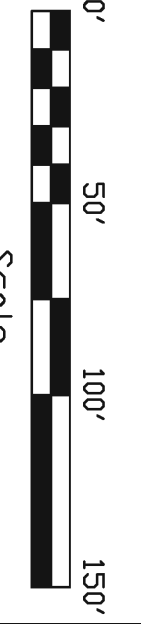


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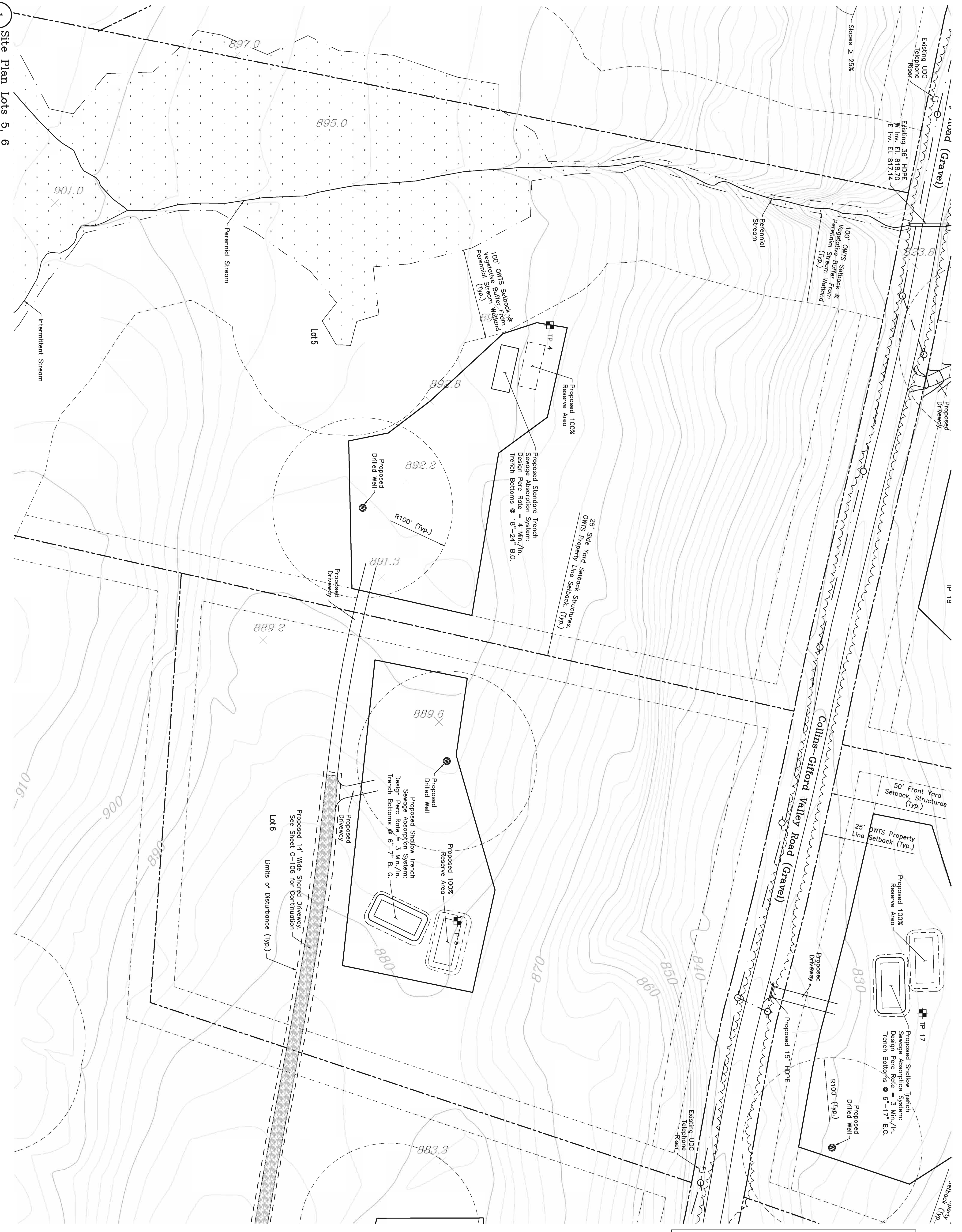
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If it is a violation for any person to alter the location of an arbitrarily located person.



Legend

- Property Line
- Shoreline Buffer
- Wetlands
- Building Envelope
- Lot Line
- # TP 19B Test Pit & No.
- OWTS Onsite Wastewater Treatment System



1 Site Plan Lots 5, 6
Scale: 1" = 50'

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APA Subdivision Application
Site Plans
Lots 5, 6

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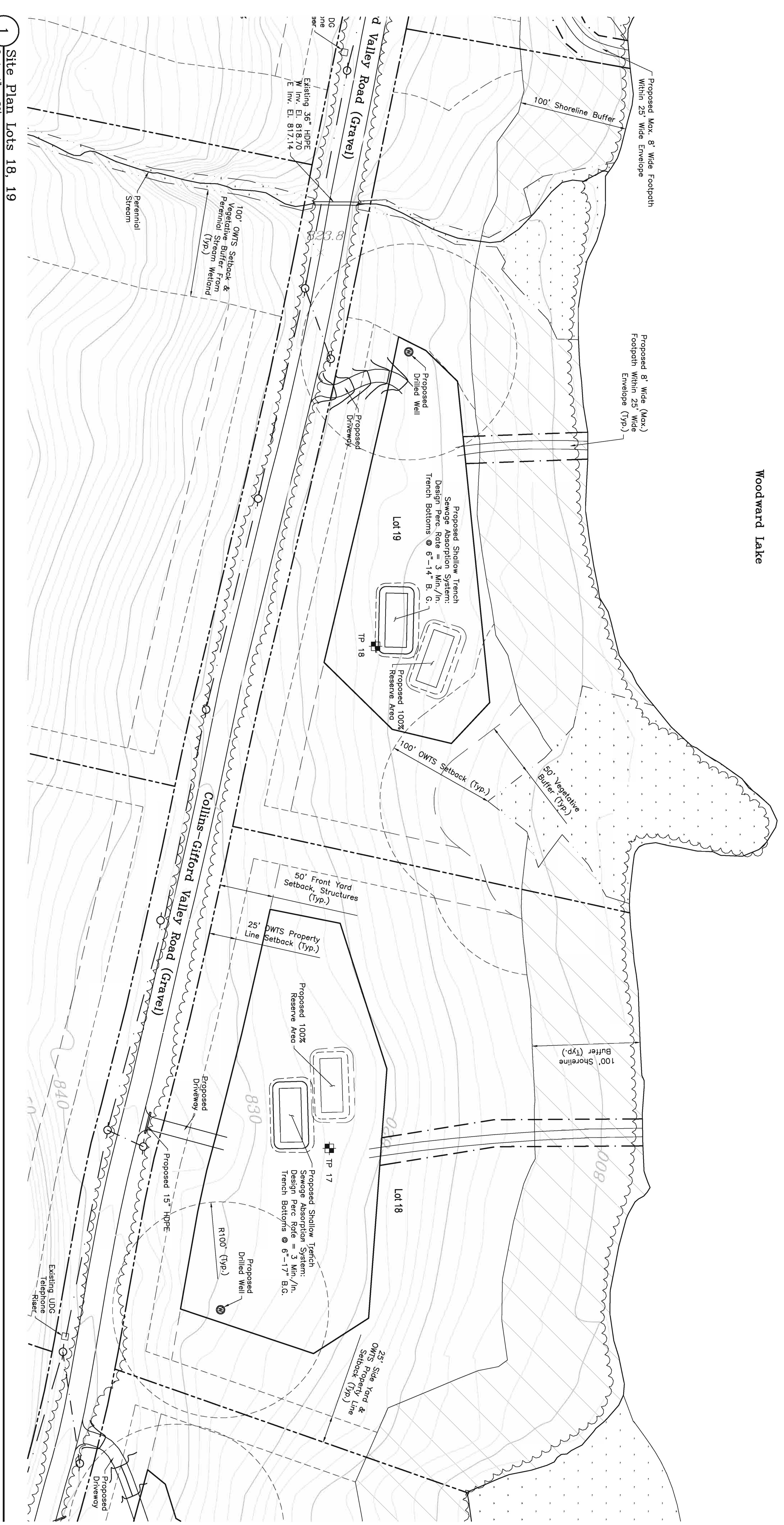
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- Property Line
- Shoreline Buffer
- Wetlands
- Building Envelope
- Lot Line
- TP 19B Test Pit & No.
- OWTS Onsite Wastewater Treatment System

TRUE NORTH

0' 50' 100' 150'

Scale



1 Site Plan Lots 18, 19
Scale: 1" = 50'

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Woodward Lake Subdivision
Towns of Northampton & Mayfield
Fulton County, NY

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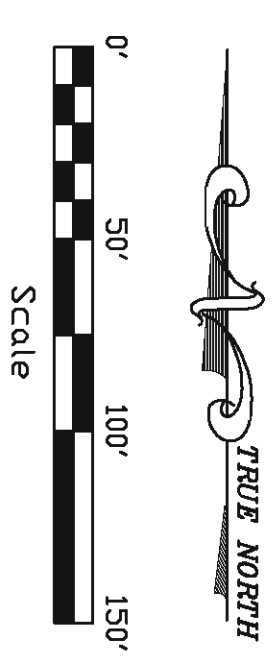
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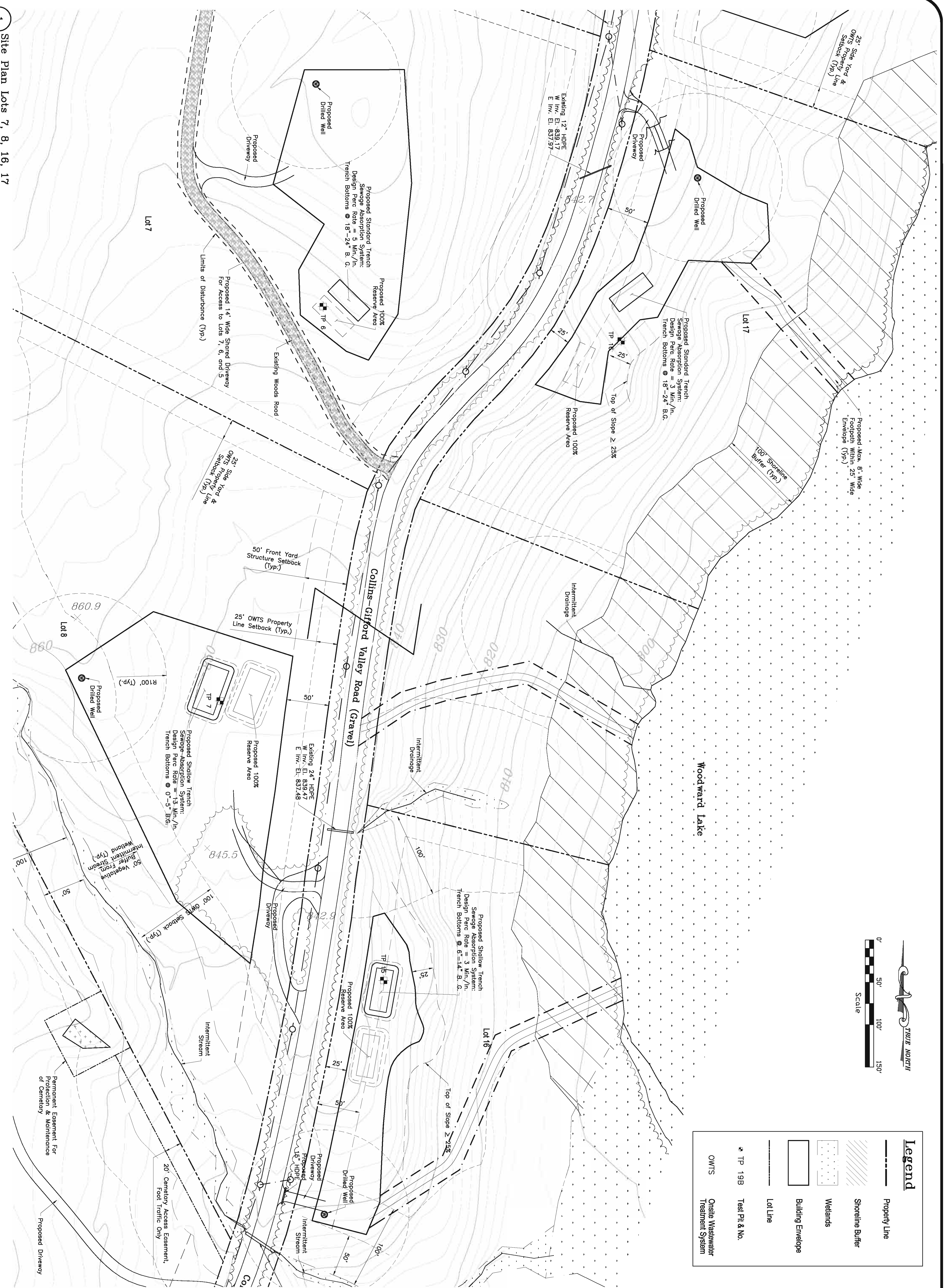
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APA Subdivision Application
Site Plans
Lots 18, 19

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Legend	
	Property Line
	Shoreline Buffer
	Wetlands
	Building Envelope
	Lot Line
	Test Pit & No.
	OWTS
	Onsite Wastewater Treatment System



1 Site Plan Lots 7, 8, 16, 17
Scale: 1" = 50'

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Woodward Lake Properties, LLC
 Woodward Lake Subdivision
 Towns of Northampton & Mayfield
 Fulton County, NY

No.	Description	MM/DD/YY	Date
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2	Agency Review Drawing	MM/DD/YY	01/24/20
3	DRAWN		

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 APA Subdivision Application
 Site Plans
 Lots 7, 8, 16, 17

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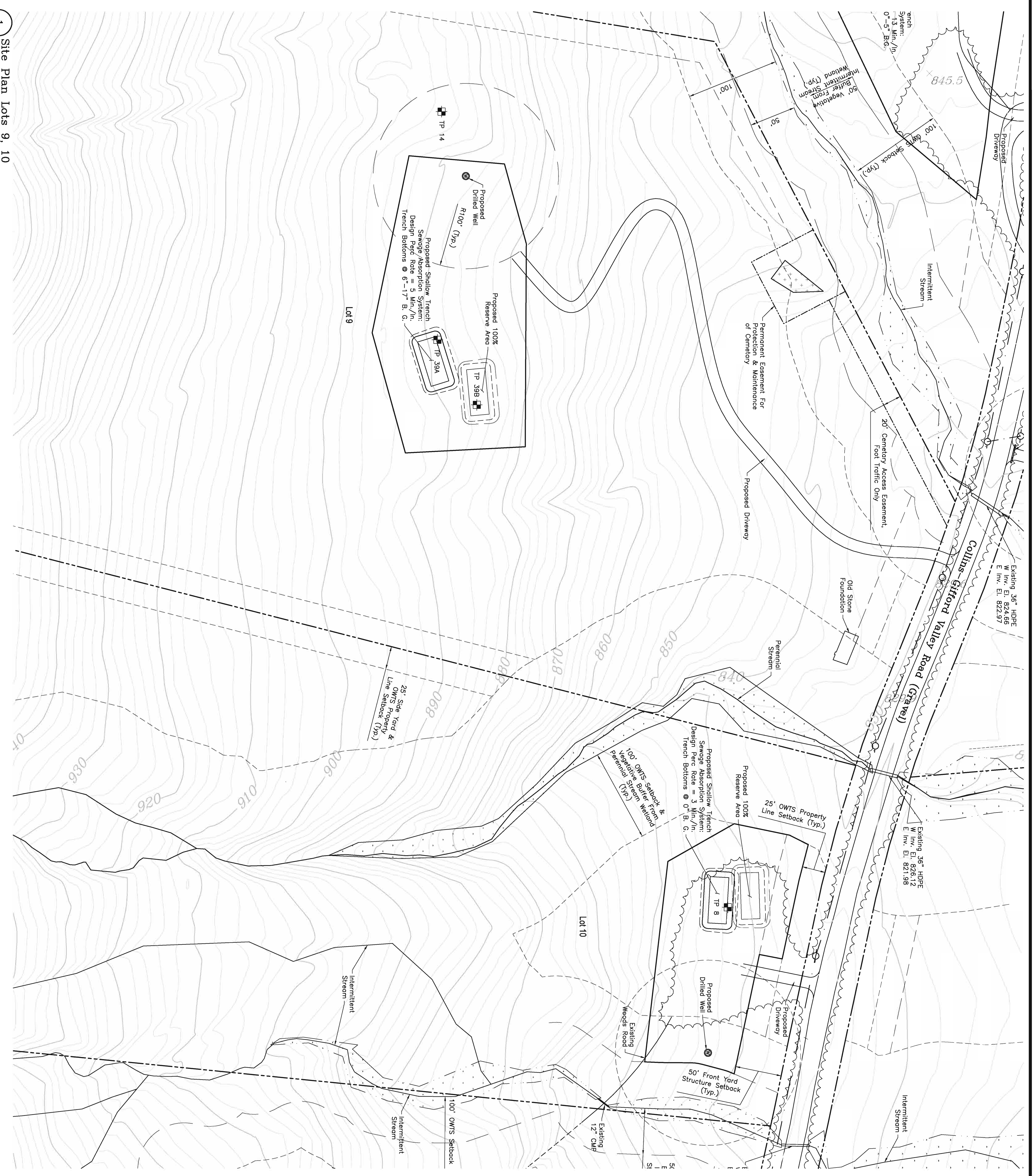
**Woodward Lake
Properties, LLC**
Woodward Lake Subdivision
Towns of Northampton & Mayfield
Fulton County, NY

0' 50' 100' 150'
Scale

TRUE NORTH

Legend

- Property Line
- Shoreline Buffer
- Wetlands
- Building Envelope
- Lot Line
- * TP 19B Test Pit & No.
- OWTS Onsite Wastewater Treatment System



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2	Agency Review Drawing	MM/DD/YY	
3	Drawing Log	MM/DD/YY	

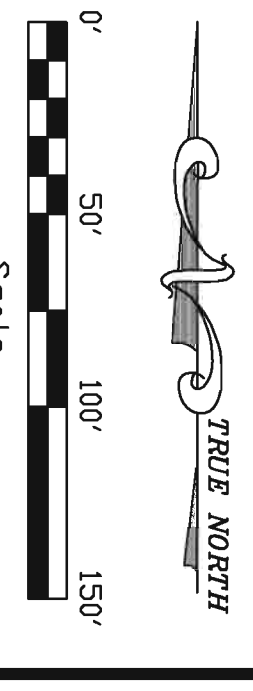
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Site Plans
Lots 9, 10

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**Woodward Lake
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Towns of Northampton & Mayfield
Fulton County, NY



Legend

- Property Line
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- Lot Line
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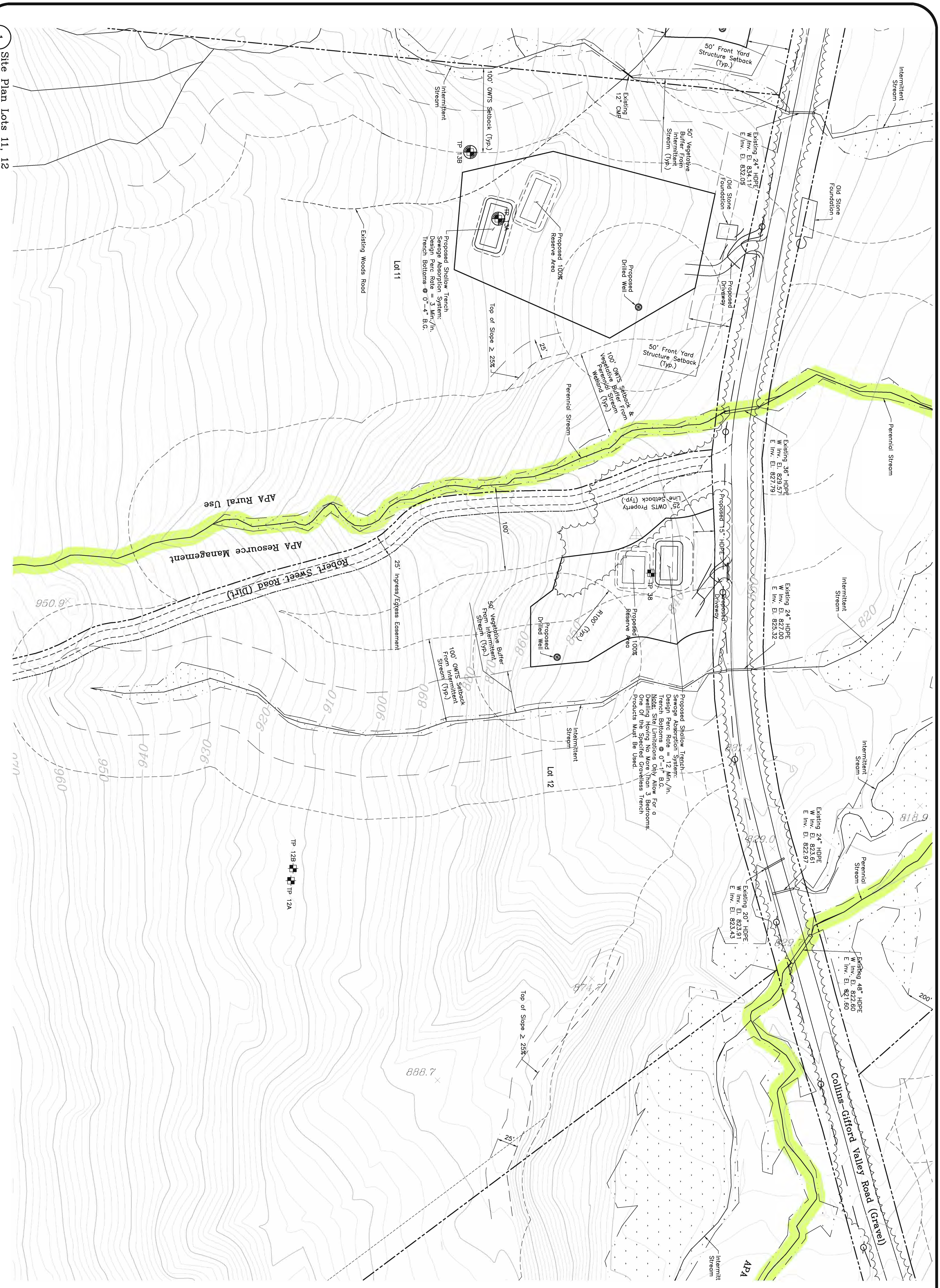
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	Agency Review Drawing	01/24/2023	
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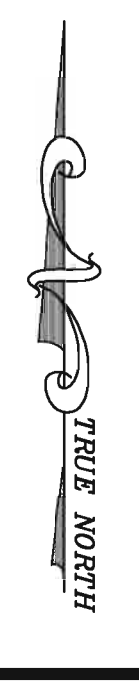
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Site Plans
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Properties, LLC
Woodward Lake Subdivision
Towns of Northampton & Mayfield
Fulton County, NY



Legend

- Property Line
- Shoreline Buffer
- Wetlands
- Building Envelope
- Lot Line
- # TP 199 Test Pit & No.
- OWTS Onsite Wastewater Treatment System

No.	Description	W/00/YR	Date
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2	Agency Review Drawing	W/05/07	01/24/23

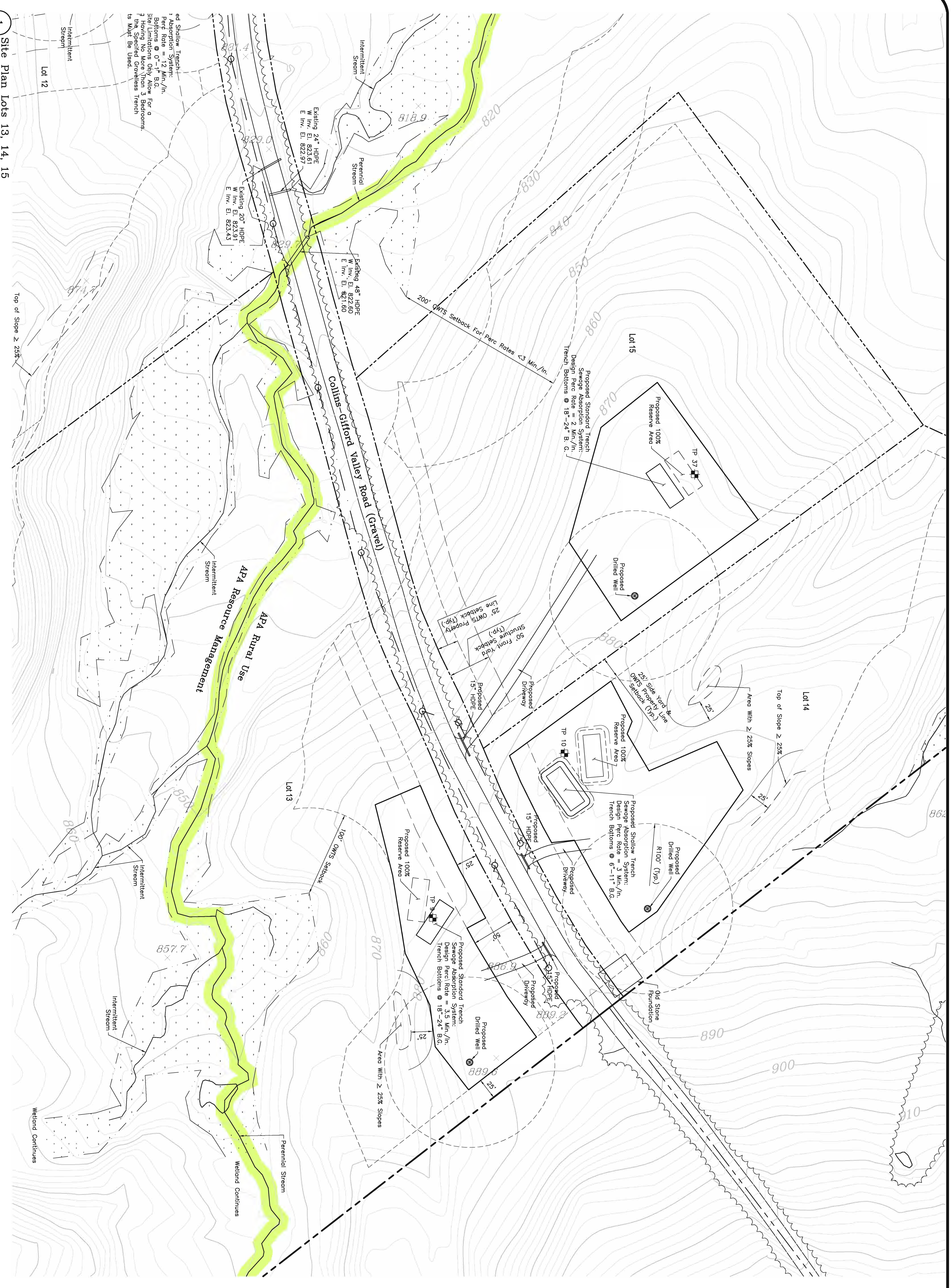
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SHEET NAME:
APA Subdivision Application
Site Plans
Lots 13, 14, 15

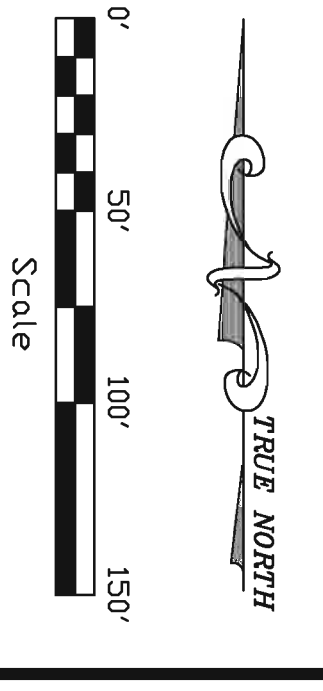
PAGE:
C-109



1 Site Plan Lots 13, 14, 15
Scale: 1" = 50'

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**Woodward Lake
Properties, LLC**
Woodward Lake Subdivision
Towns of Northampton & Mayfield
Fulton County, NY



Legend

- Property Line
- Shoreline Buffer
- Wetlands
- Building Envelope
- Lot Line
- TP 19B Test Pit & No.
- OWTS Onsite Wastewater Treatment System

No.	Description	MM/DD/YY	Date
1	Construction Drawing	MM/DD/YY	01/24/20
Agency Review Drawing			
Drawing Log			
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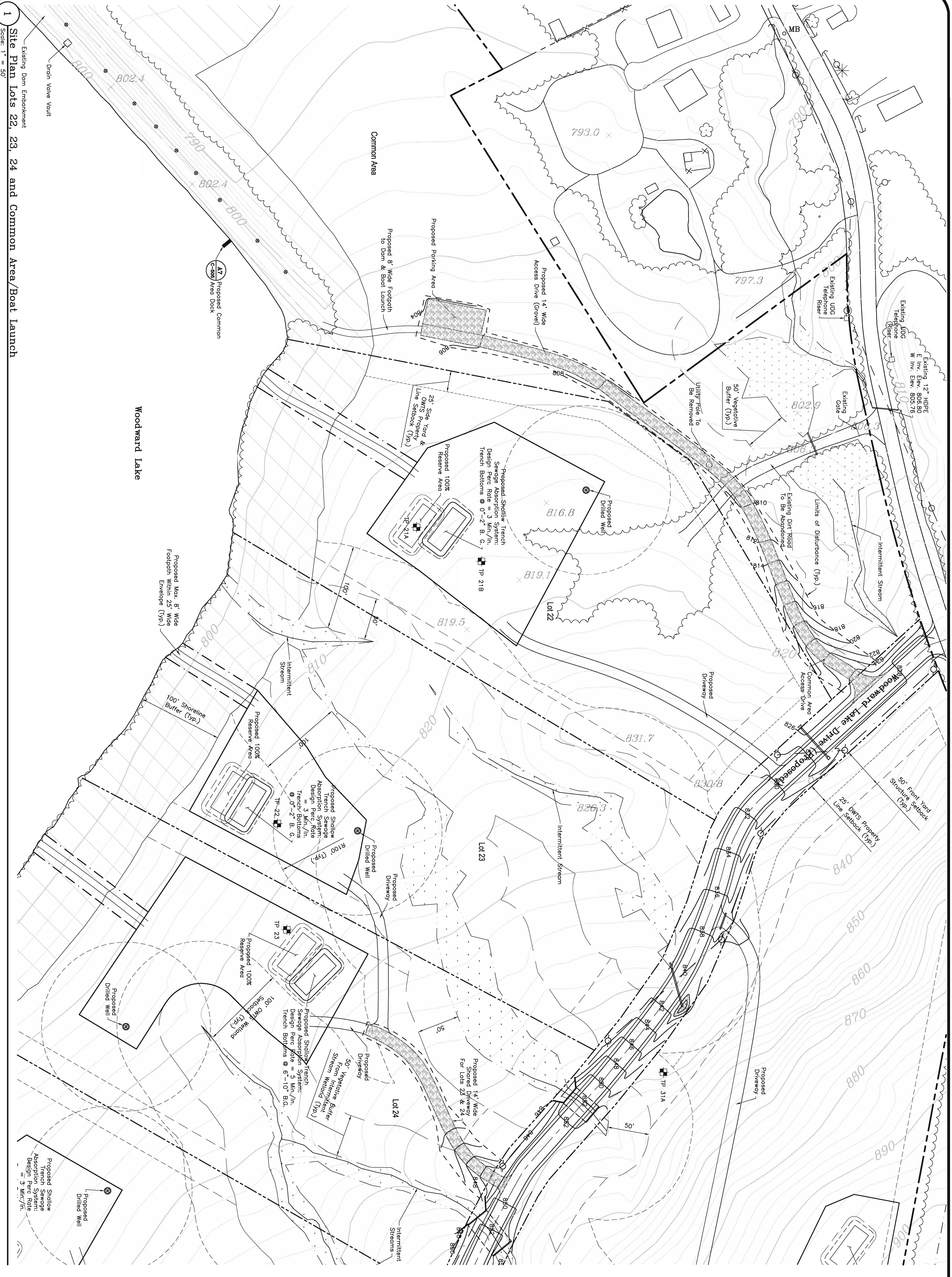
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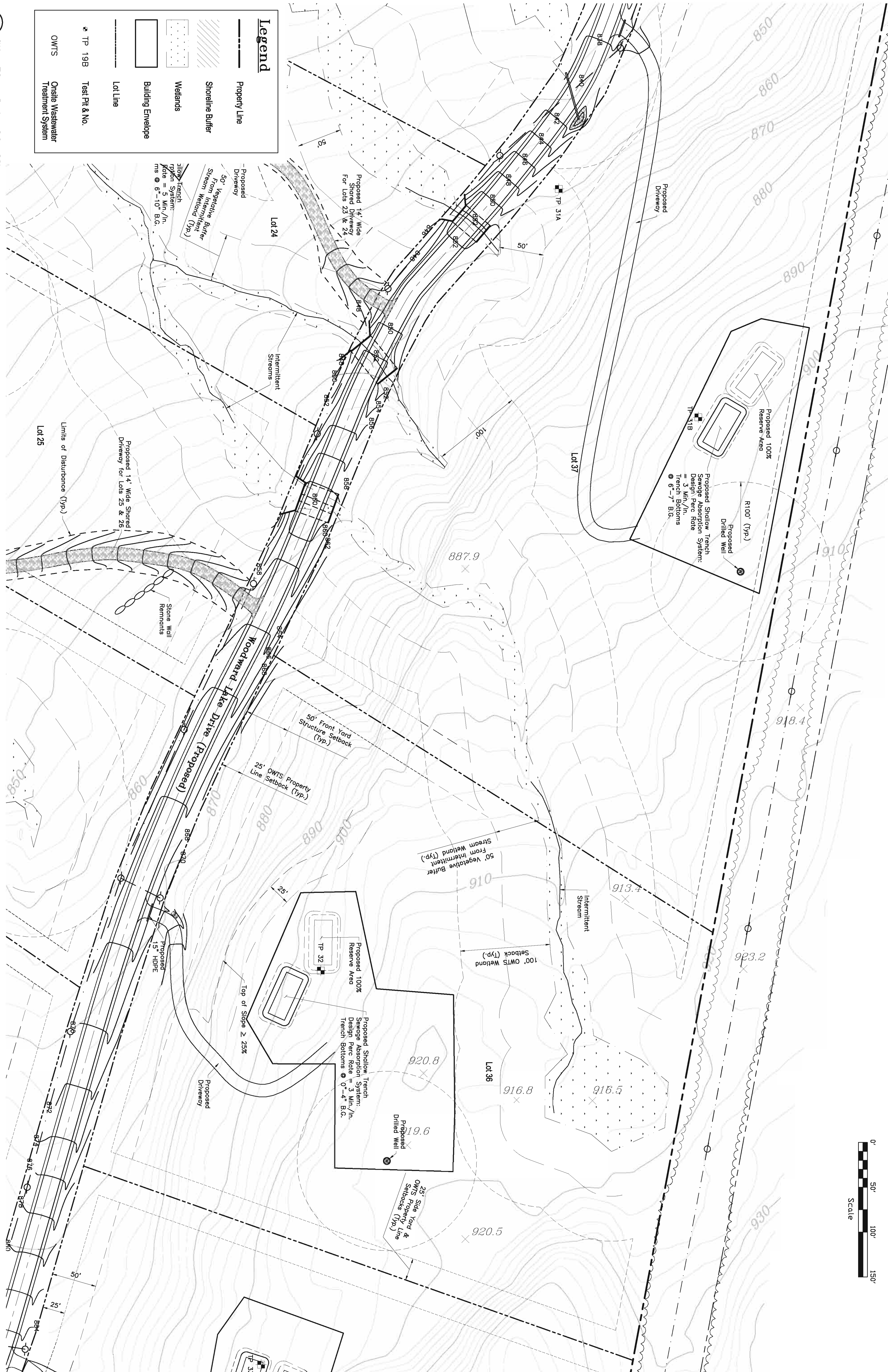
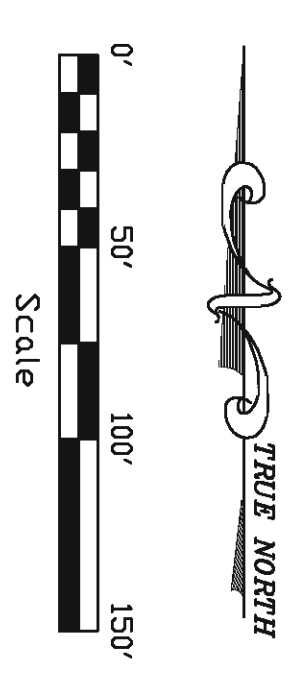
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Site Plans Lots 22, 23, 24
& Common Area/Boat Launch

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Legend

- Property Line
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- Wetlands
- Building Envelope
- Lot Line
- TP 19B Test Pit & No.
- OWTS Onsite Wastewater Treatment System

1 Site Plan Lots 36, 37
Scale: 1" = 50'

No.	Description	MM/DD/YY	Date
1	Construction Drawing	MM/DD/YY	01/24/20
2	Agency Review Drawing	MM/DD/YY	01/24/20
3	DRAWN	MM/DD/YY	

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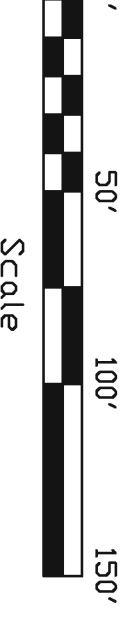
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Site Plans
Lots 36, 37

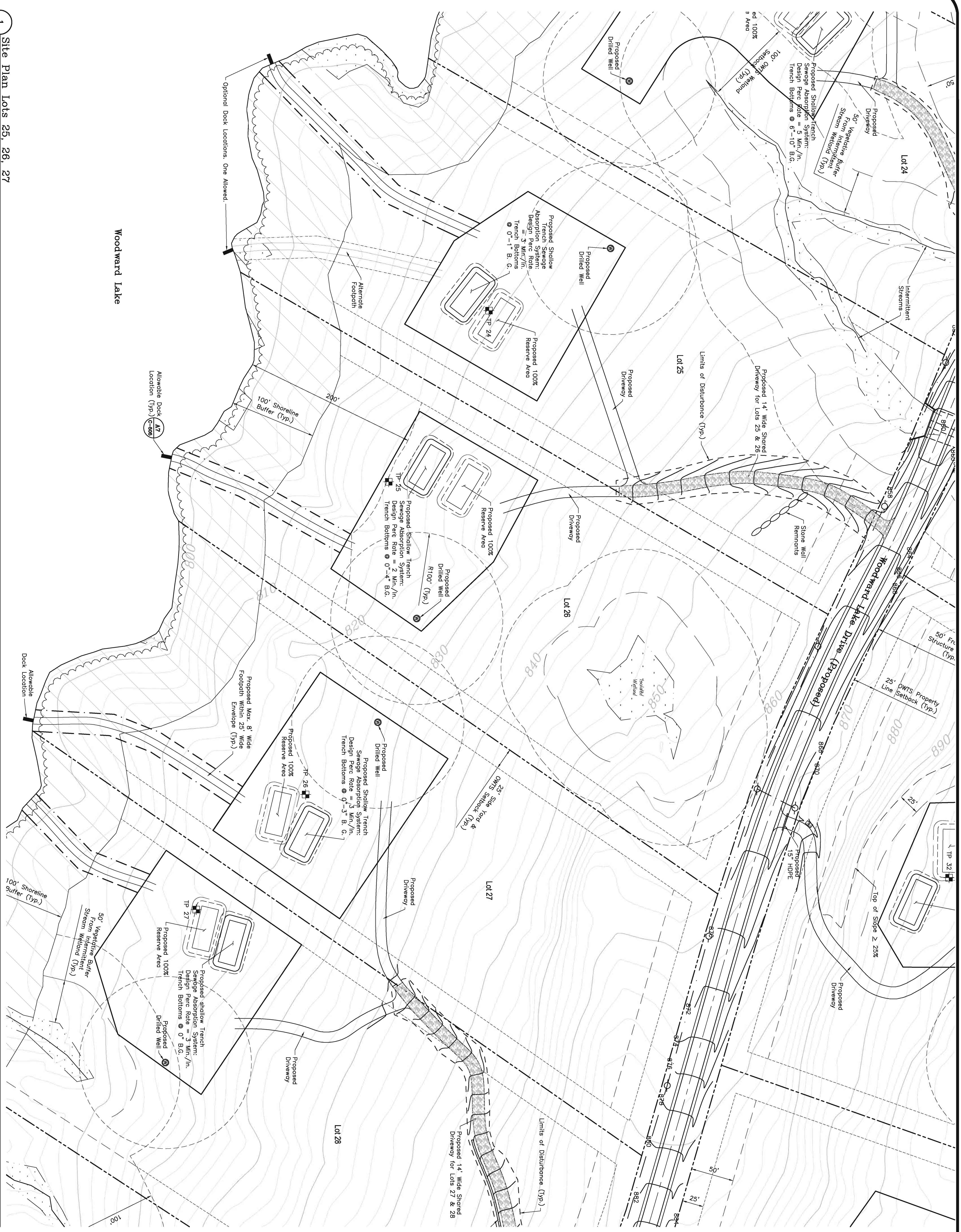
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Fulton County, NY



Legend	
	Property Line
	Shoreline Buffer
	Wetlands
	Building Envelope
	Lot Line
	* TP 19B Test Pit & No.
	OWTS Onsite Wastewater Treatment System



Woodward Lake

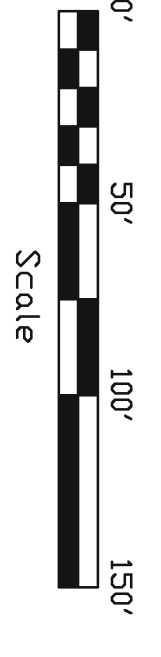
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PAGE: C-112	

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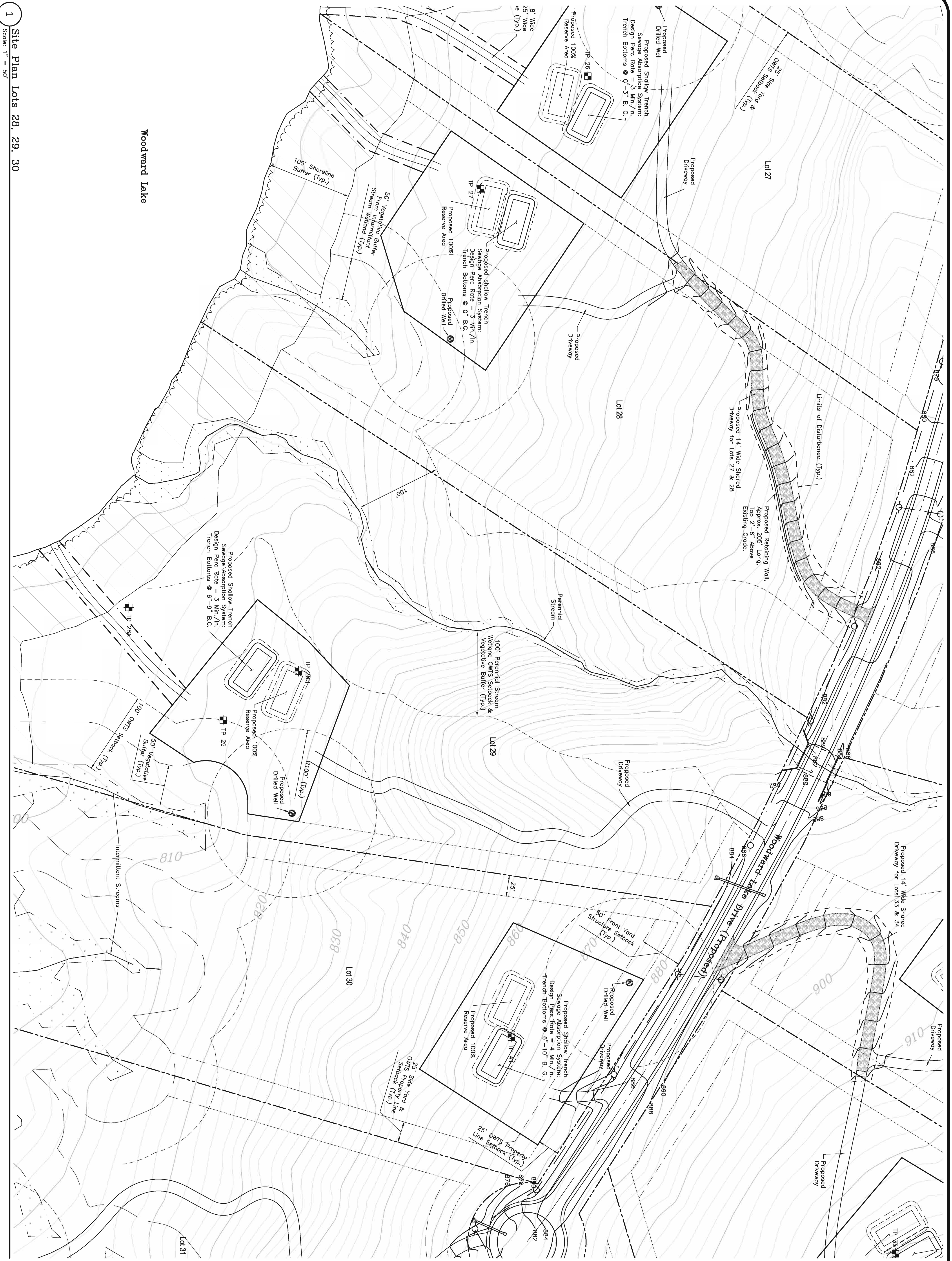
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Legend	
	Property Line
	Shoreline Buffer
	Wetlands
	Building Envelope
	Lot Line
	TP 19B Test Pit & No.
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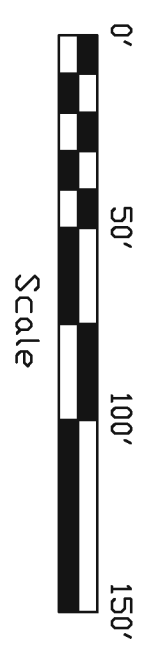
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SHEET NAME
APA Subdivision Application
Site Plans
Lots 28, 29, 30

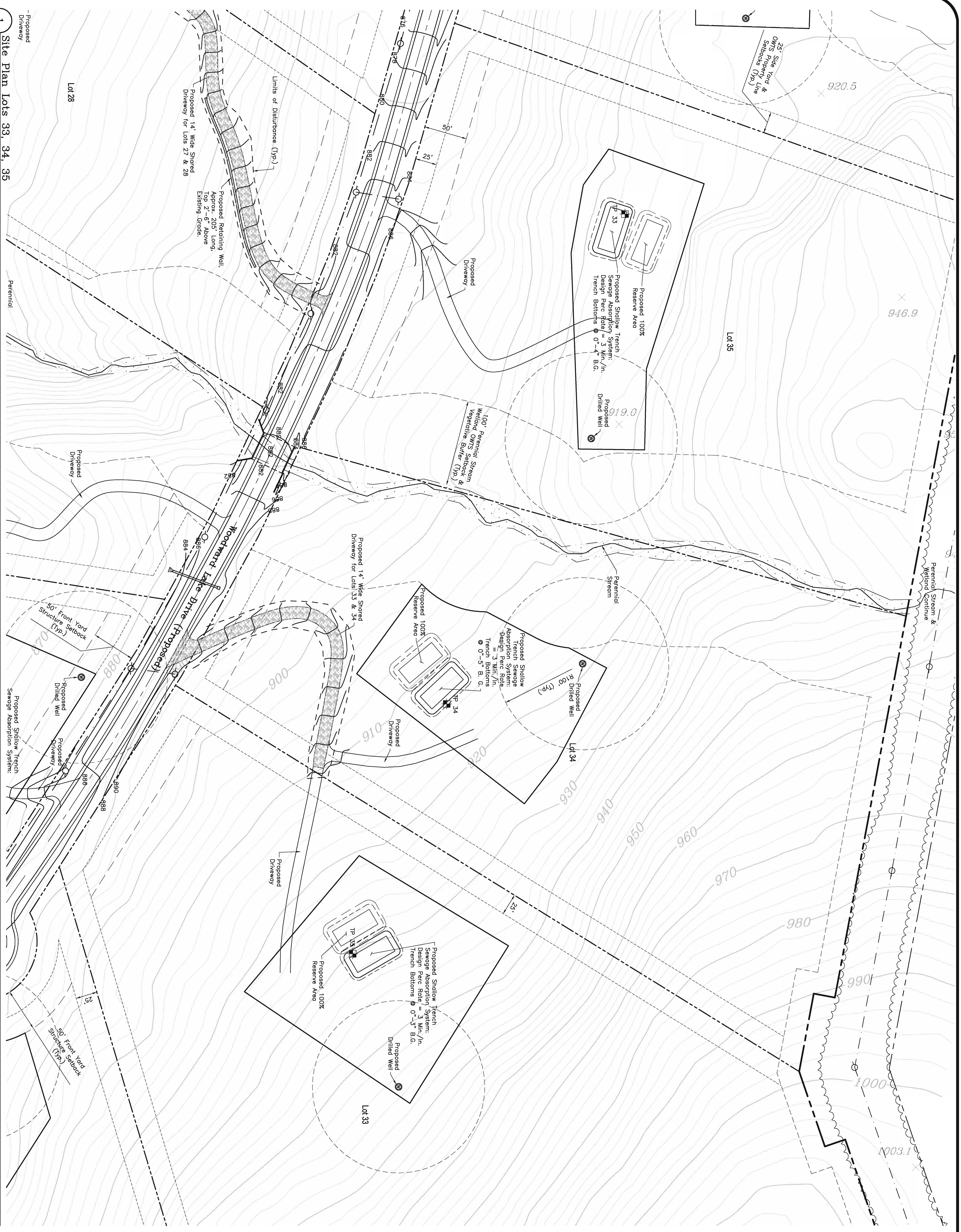
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Fulton County, NY



Legend	
	Property Line
	Shoreline Buffer
	Wetlands
	Building Envelope
	Lot Line
	# TP 19B Test Pit & No.
	OWTS Onsite Wastewater Treatment System



1 Site Plan Lots 33, 34, 35
Scale: 1" = 50'

No.	Description	MM/DD/YY	Date
1	Construction Drawing	MM/DD/YY	
Agency Review Drawing		MM/DD/YY	
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SHEET NAME
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Site Plans
Lots 33, 34, 35

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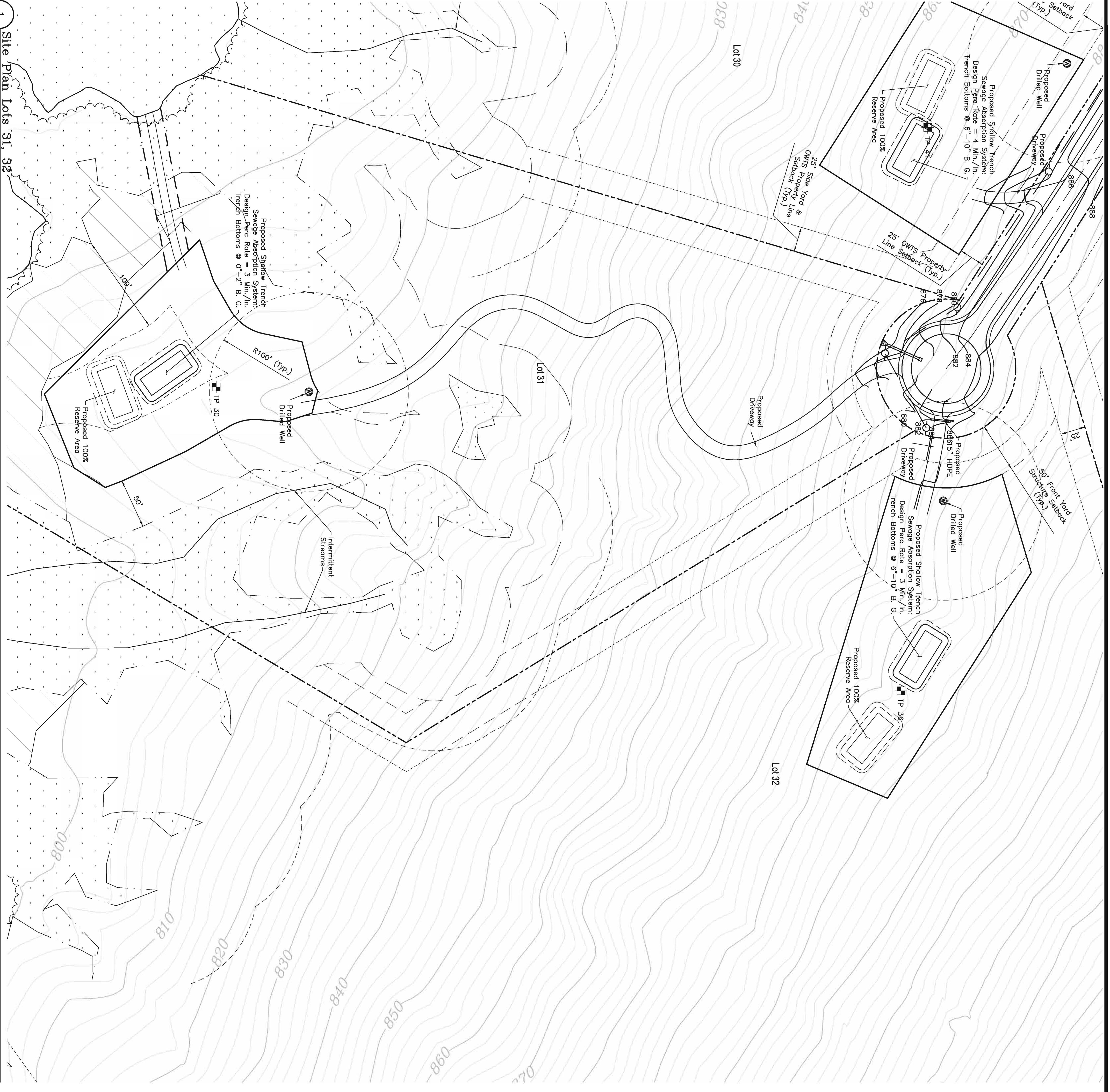
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0' 50' 100' 150'
Scale

Legend

- Property Line
- Shoreline Buffer
- Wetlands
- Building Envelope
- Lot Line
- TP 19B Test Pit & No.
- OWTS Onsite Wastewater Treatment System



1 Site Plan Lots 31, 32
Scale: 1" = 50'

No.	Description	MM/DD/YY	Date
	Revision Schedule		
	Construction Drawing	MM/DD/YY	
	Agency Review Drawing	MM/DD/YY	
	Drawing Log	MM/DD/YY	

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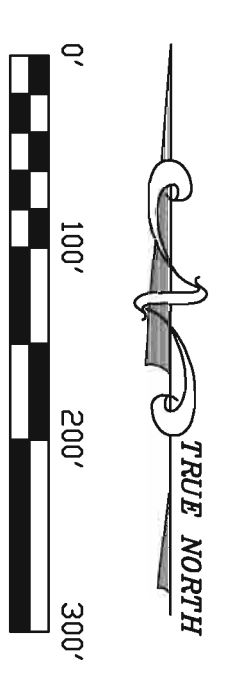
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Site Plans
Lots 31, 32

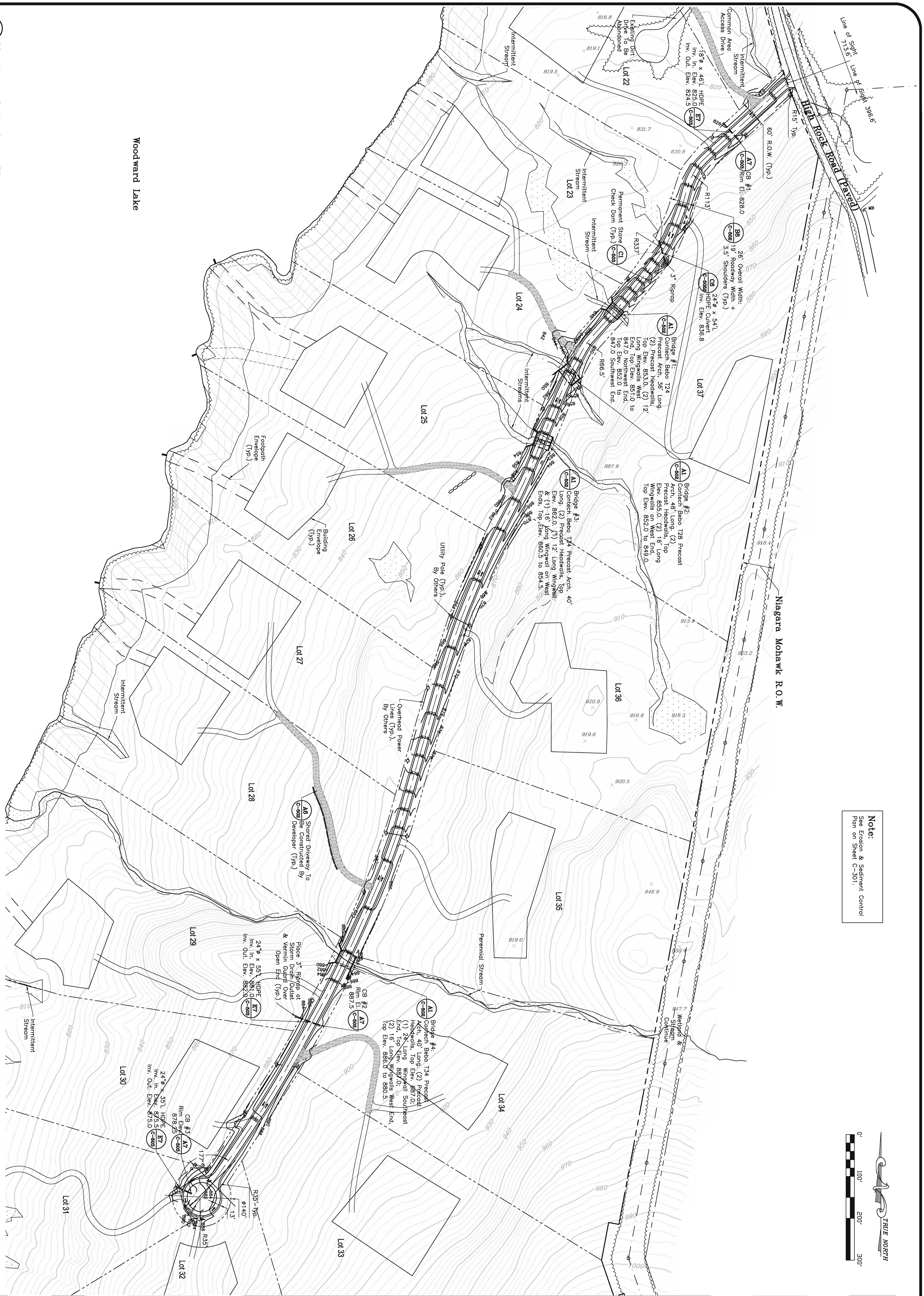
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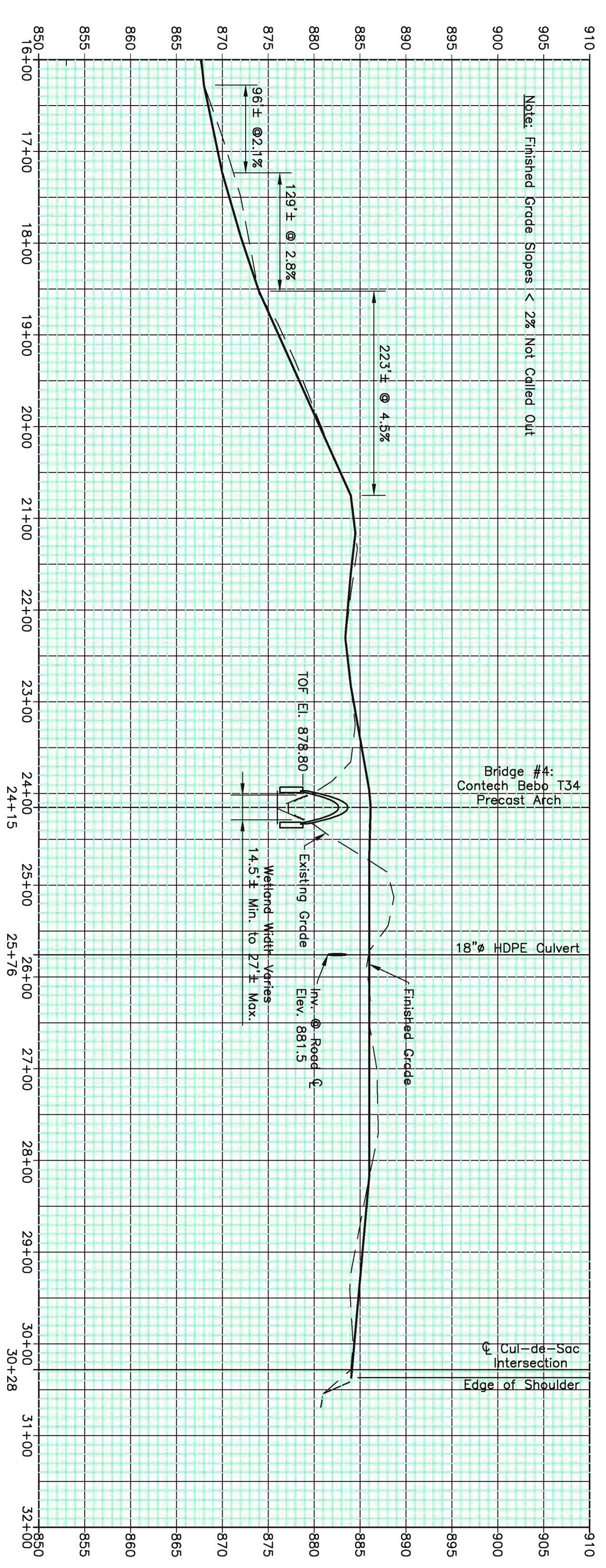


Note:
See Erosion & Sediment Control
Plan on Sheet C-301.

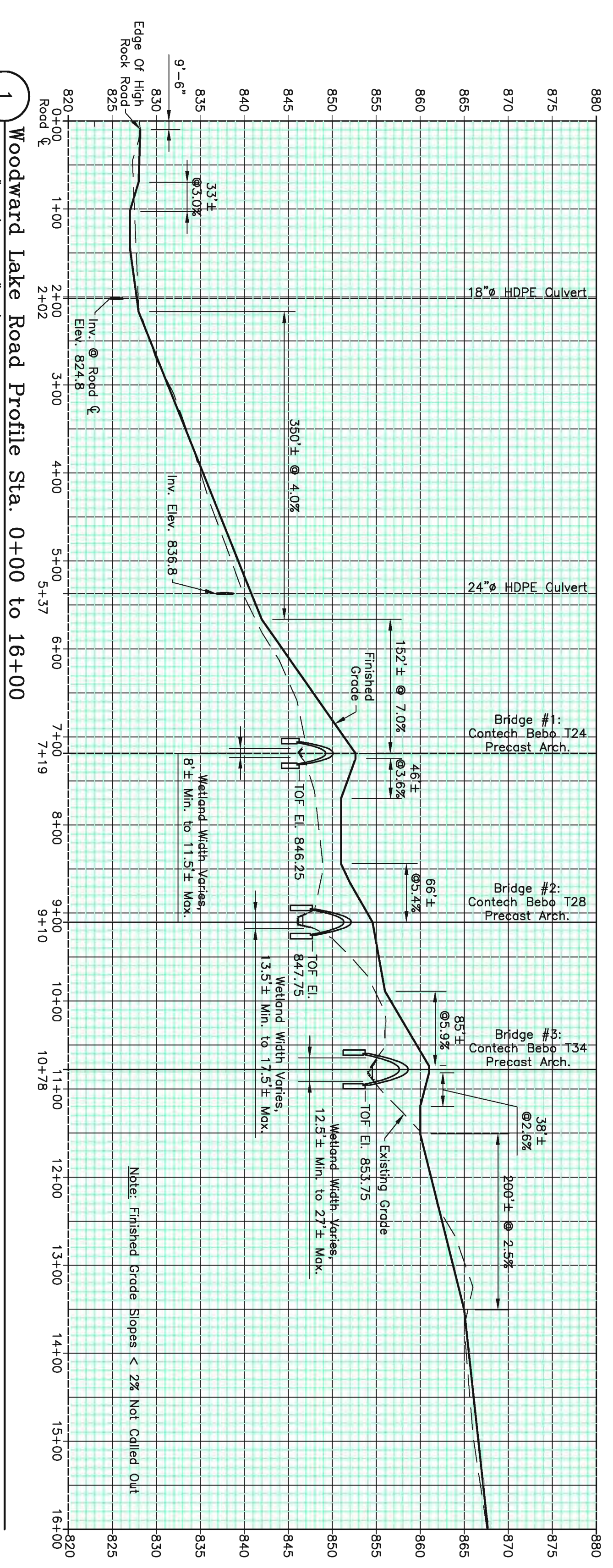


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2 Woodward Lake Road Profile Sta. 16+00 to Cul-de-Sac
 Scale: 1"=100' Horz., 1"=10' Vert.



1 Woodward Lake Road Profile Sta. 0+00 to 16+00
 Scale: 1"=100' Horz., 1"=10' Vert.

No.	Description	Date
1	Construction Drawing	10/05/22
2	Agency Review Drawing	01/24/23
Drawing Log		

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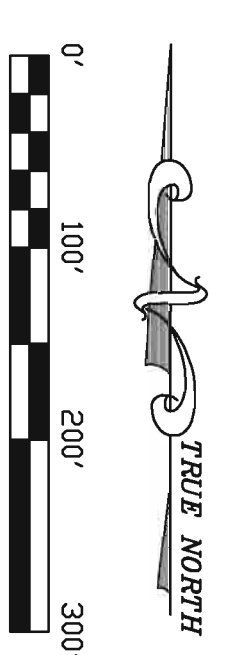
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 Woodward Lake Road
 Centerline Profile

Phase 1

Phase 2

Phase 3

Note:
Common Area Access and Shared Driveways to be
Constructed After Completion of Woodward Lake Drive.



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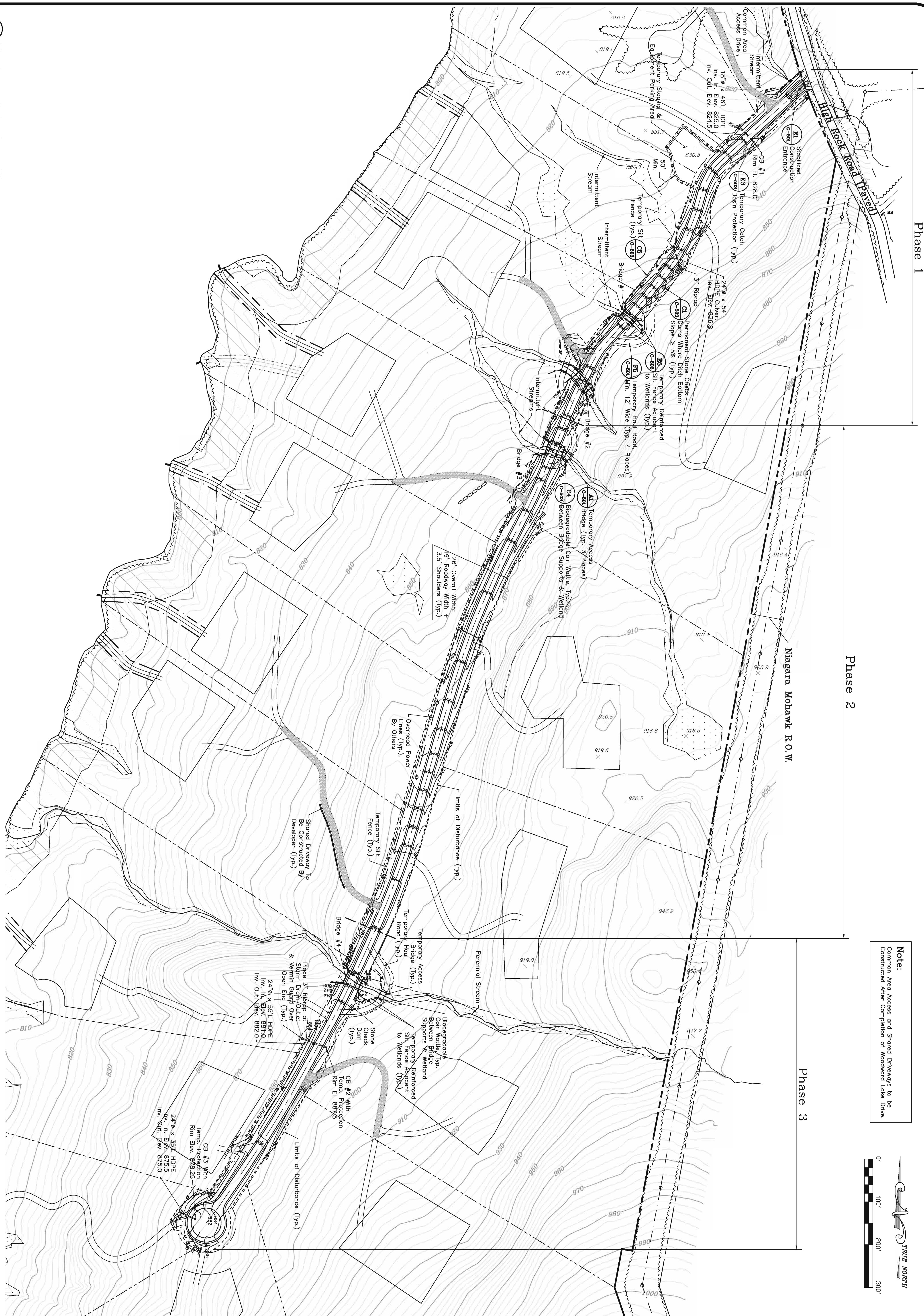
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2	Agency Review Drawing	MM/02/20	01/24/20
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SHEET NAME
APA Subdivision Application
Woodward Lake Drive
Erosion & Sediment Control Plan

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Site Plan Development Notes:

1. Typical Plans are Provided For Illustrative Purposes Only, Including the Locations, Orientations, and Footprints of Structures, Driveway Locations and Site Grading are Also Illustrative. Separation Criteria are Provided for Guidance Concerning Site Development.
2. On-Arroy Lot, All Residential and Accessory Structures, Gasline, Wastewater Systems, and Wells Shall Be Located Within the Designated Building Envelope. Outbuilding Envelopes May Only Be Located in Non-Residential Structures, Such as a Garage, Water and Wastewater Systems May Not Be Located in Outbuilding Envelopes.
3. Vegetative Clearing Shall Be Limited To Areas Required For Construction Of Structures, Driveway, Septic System, Stormwater Management Practices and Landscaping. With Exception of Driveway, Clearing Shall Be Wholly Contained Within Building Envelopes. On Shoreline Lots, Clearing For Foot Paths Up To 6' Wide Permitted And Limited To Foot Path Envelopes Within Shoreline Buffers.
4. Roof Leaders, Foundation Drains, Celler Drains, Backwash Drains, Etc. May Not Be Connected to the Sewage System and Shall Be Installed in Such a Manner That Drainage is Directed Away From the Sewage Absorption Area. No Drain Shall Be Installed To Discharge Directly Into Any Stream Or Ditch, Nor Onto An Impervious Surface. Roof Leaders and Drains Shall Discharge Onto Vegetated Ground Only.

Separation Distances

The Following Table Lists the Minimum Required Horizontal Separation Distances From Wastewater System Components. New Systems Shall Be Staked Out, and Distances Shall Be Verified for Compliance, Prior to Construction.

SYSTEM COMPONENT	To Well	To Water Service Line	To Dwelling	To Property Line	To Wellhead, Lake, or Stream	To Drainage or Ditch	To Top of Sleep Slope (>25%)
House Sewer (Raw Sewage Line)	50'	10'	3'	25'	25'	---	---
Septic Tank	50'	10'	10'	25'	50'	10'	25'
Effluent Line	50'	10'	10'	25'	50'	10'	25'
Distribution Box	100'	10'	20'	25'	100'	25'	25'
Absorption Field (See Notes Below)	100'	10'	20'	25'	100'	25'	25'

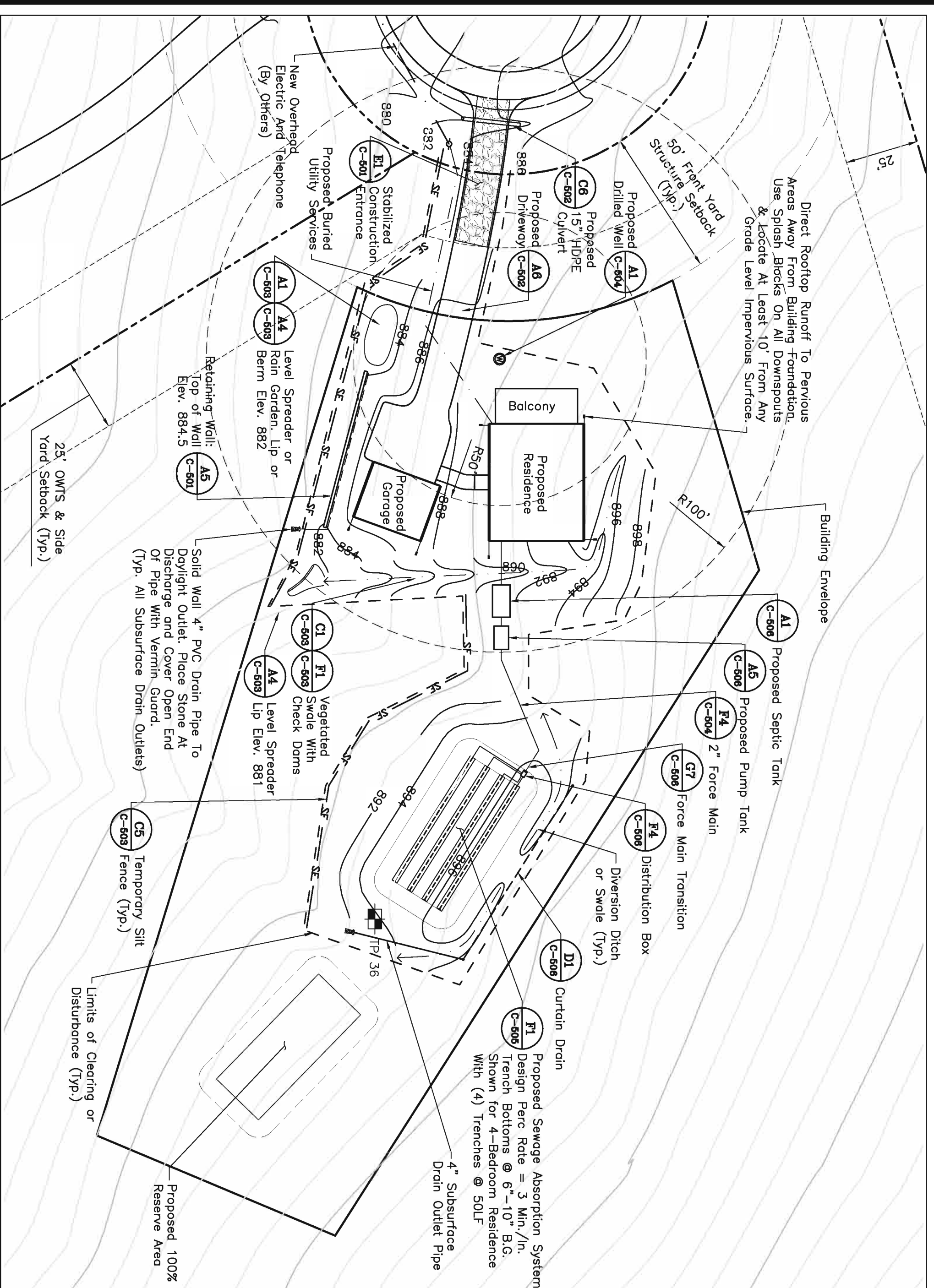
Notes:
 Measured From Nearest Trench Edge or End, Except For Systems Requiring the Placement of Fill Material Where the Trench Bottoms are Higher Than 6" Below Existing Ground Surface. In Which Case Separation Distances are Measured From the Toe of the Slope of the Fill.
 Separation Distances Shall Also Be Measured From the Designated Reserve Area.
 * 200' If Soil Percolation Rate is Less Than 3 Minutes Per Inch.

Erosion And Sediment Control

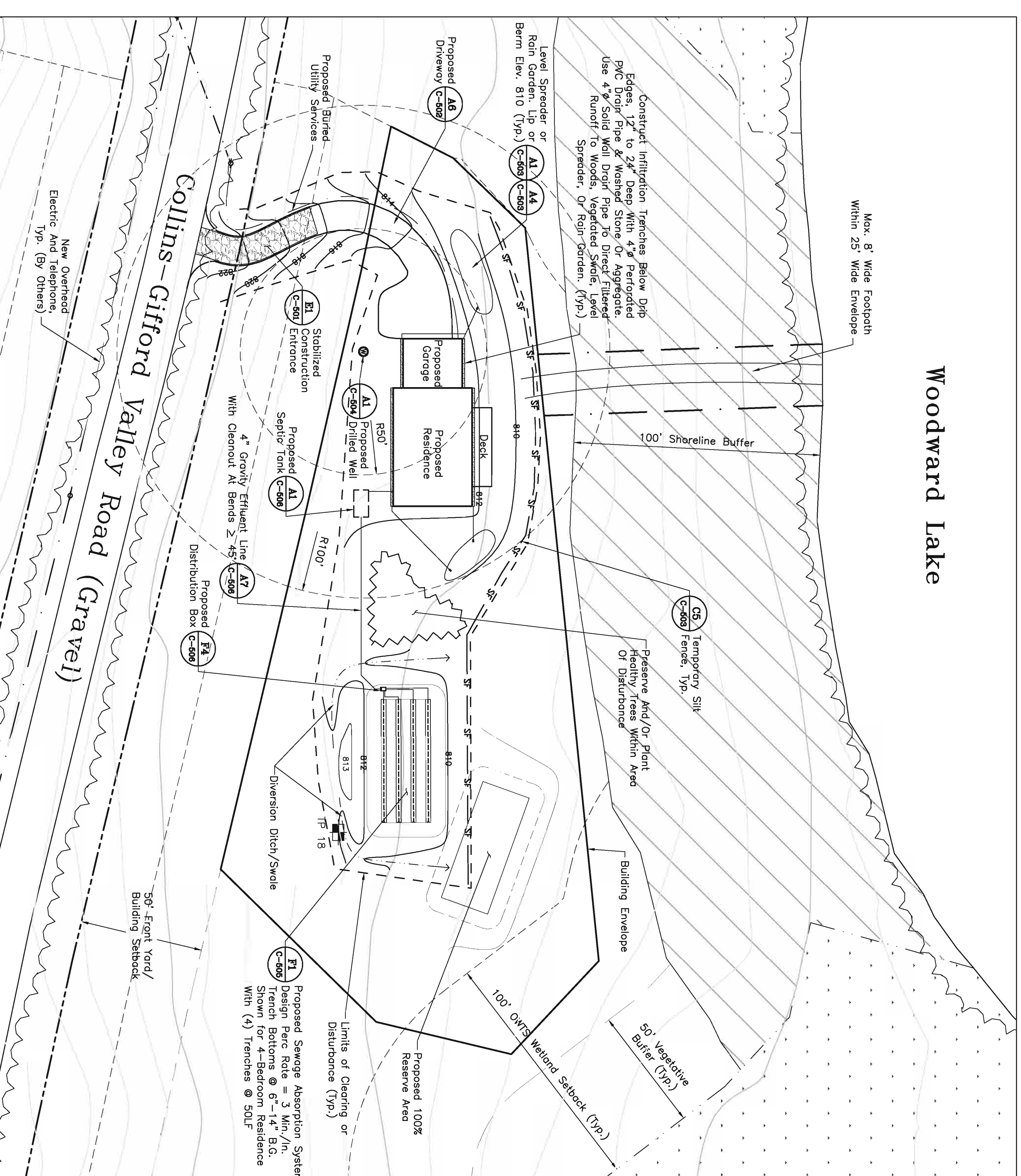
1. All Work Shall Comply With Applicable Provisions of NYS DEC "Standards and Specifications for Erosion and Sediment Control".
2. Temporary Silt Fence Shall be Placed Immediately Downgradient of Any Disturbed Area Intended to Remain Disturbed. Silt Fence shall be installed along contours to intercept runoff. Storm Drain Ditches May Be Used in Lieu of Silt Fence.
3. Temporary Storm Check Dams Shall be installed in Areas of Concentrated Flow Which are in the Path of Surface Runoff From Disturbed Work Areas.
4. Excavated Material Shall be Placed on Upslope Side of Excavation.
5. All Storm Drain Appurtenances, Ditches, Etc. Shall Remain Functional During Construction. Excavated Material May Not be Placed in Drainage Ditches. Ditches, Storm and Storm Drain Appurtenances Shall be Restored to Original Condition Immediately Following Construction.
6. Stabilize Disturbed Areas Intended to be Nonimpervious With Permanent Seeding. Use Mixtures or Geotextiles When Seeding, or Leave Temporary Controls in Place Until Dense and Vigorous Cover (60%) is Established.

Stormwater Management

Lot Owner is Responsible For Ensuring Installation And Maintenance Of Erosion & Sediment Controls During Construction On Their Lot, As Well As Installation And Long Term Maintenance Of Appropriate Stormwater Management Practices As Described in this Plan. Stormwater Management Practices Shall be Installed in Accordance With the New York State Dept. Of Environmental Conservation Prior To Construction, and A Notice Of Termination Upon Completion. Owner is Referred to The SWPPP For Instructions.

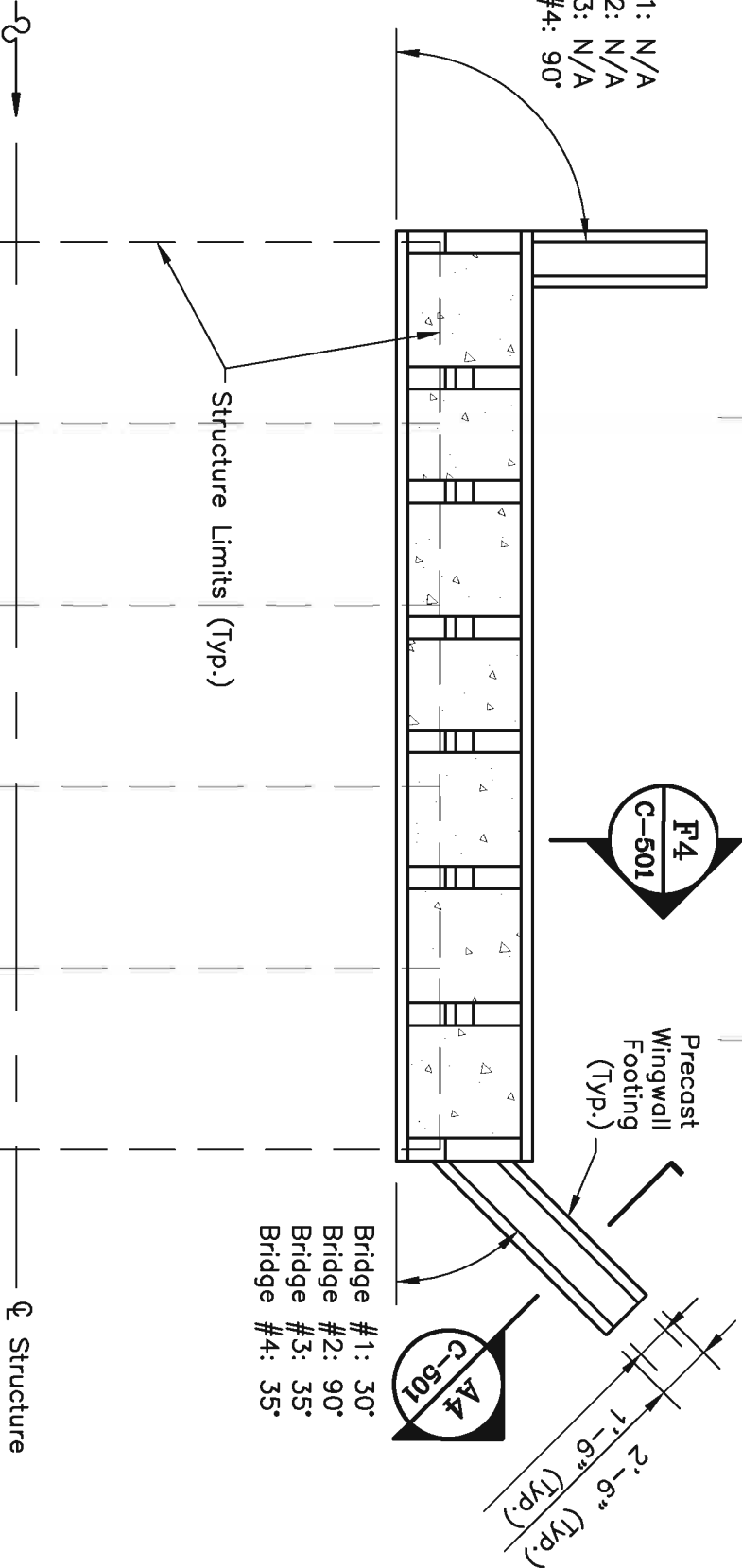


1 Typical Lot Development Plan
 Scale: 1" = 30'



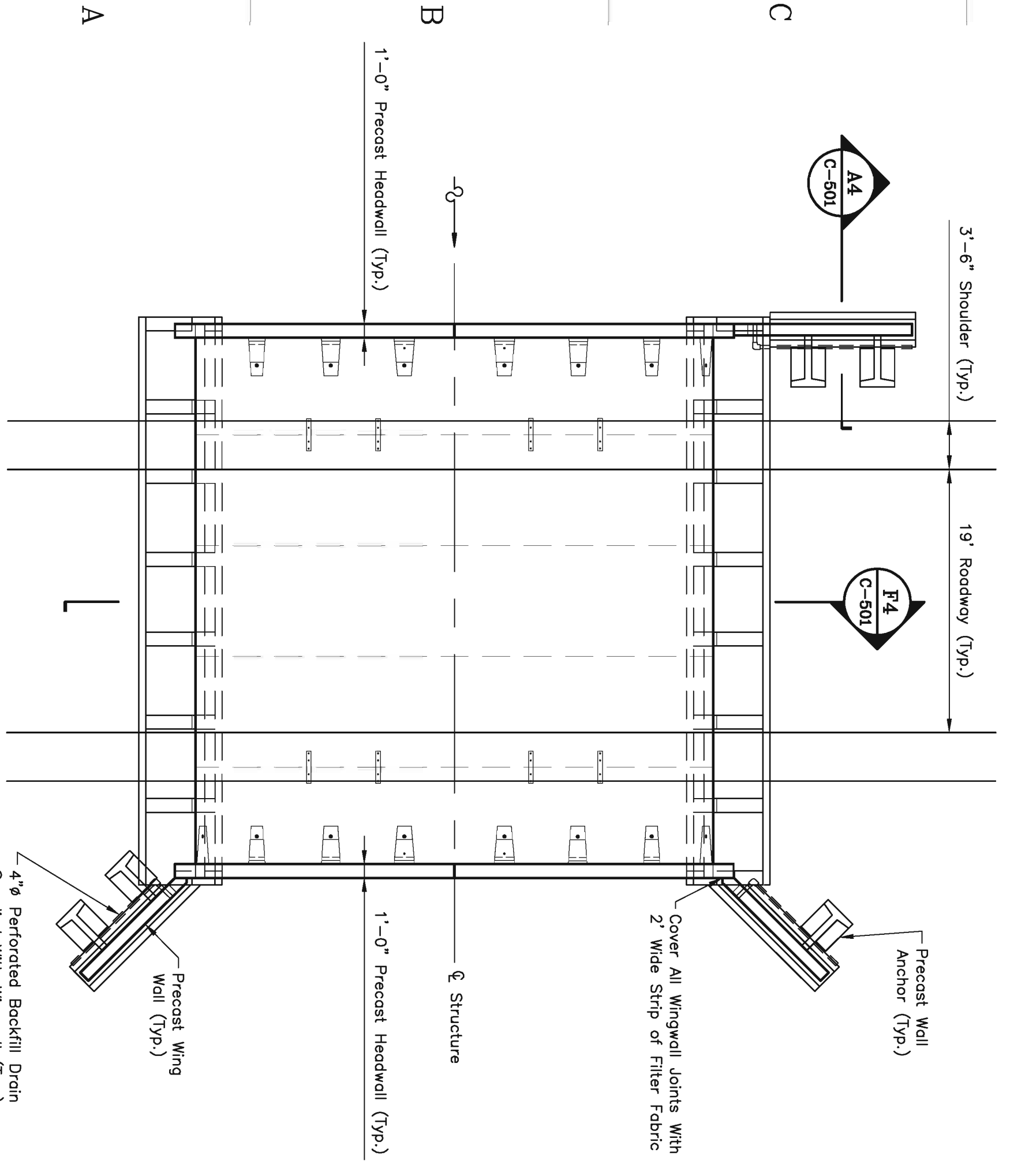
2 Typical Lot Development Plan
 Scale: 1" = 30'

Bridge #1: N/A
 Bridge #2: N/A
 Bridge #3: N/A
 Bridge #4: 30

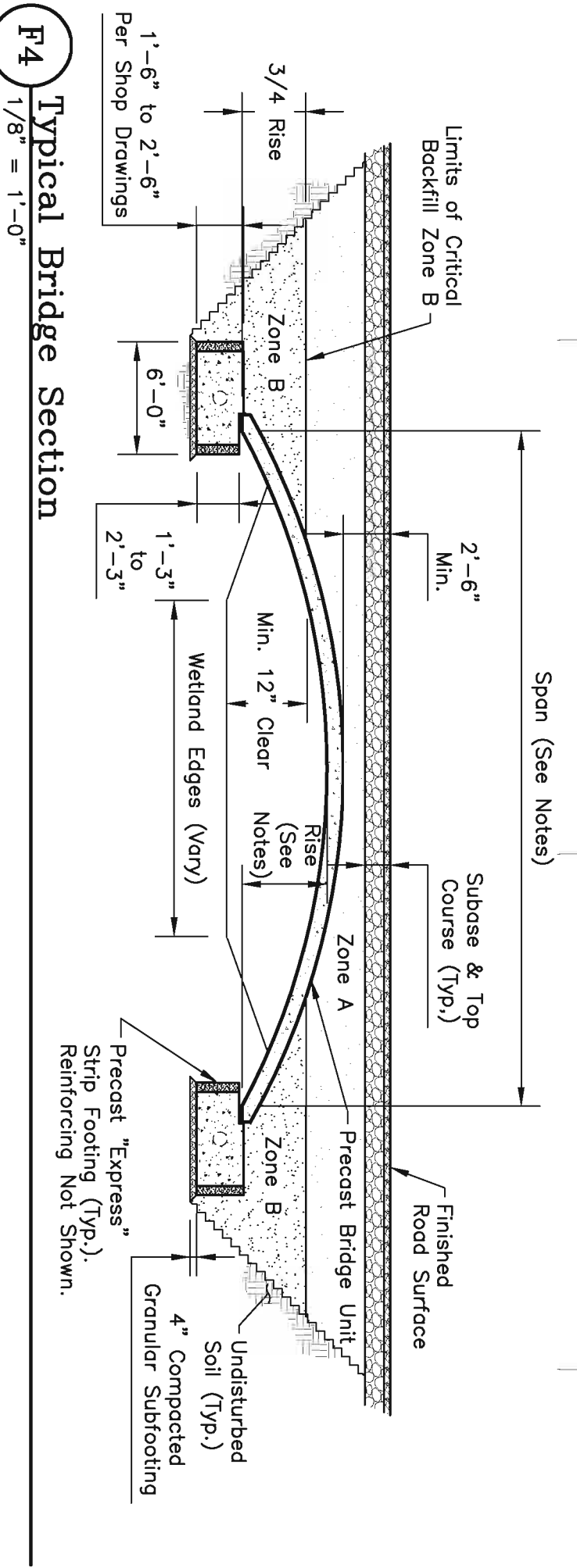


E1 Typical Bridge Foundation Plan
 Scale: 1/8" = 1'-0"

- Notes:**
1. Bridge Length and Alignment With Road May Differ From Example Shown, Refer to Plans.
 2. Wing Walls and Foundations Are Shown For Example Proposed. Manufacture and Installation of Wing Walls Differ. Refer to Plans. Refer to Profiles for Footing Elevations.
 3. Table Below Provides Span, Rise, and Bridge Length Specifications For Each Proposed Bridge. All Bridges are Precast Structures as Manufactured by Contech Engineered Solutions LLC.
- Bridge #1: Bapo 124, 24' Span, 3'-2 1/2" Rise, 6 Units @ 8L = 36'
 Bridge #2: Bapo 128, 28' Span, 3'-9" Rise, 6 Units @ 8L = 48'
 Bridge #3: Bapo 134, 34' Span, 4'-0 1/2" Rise, 5 Units @ 8L = 40'
 Bridge #4: Bapo 134, 34' Span, 4'-0 1/2" Rise, 5 Units @ 8L = 40'



A1 Typical Bridge Plan
 Scale: 1/8" = 1'-0"



F4 Typical Bridge Section
 Scale: 1/8" = 1'-0"

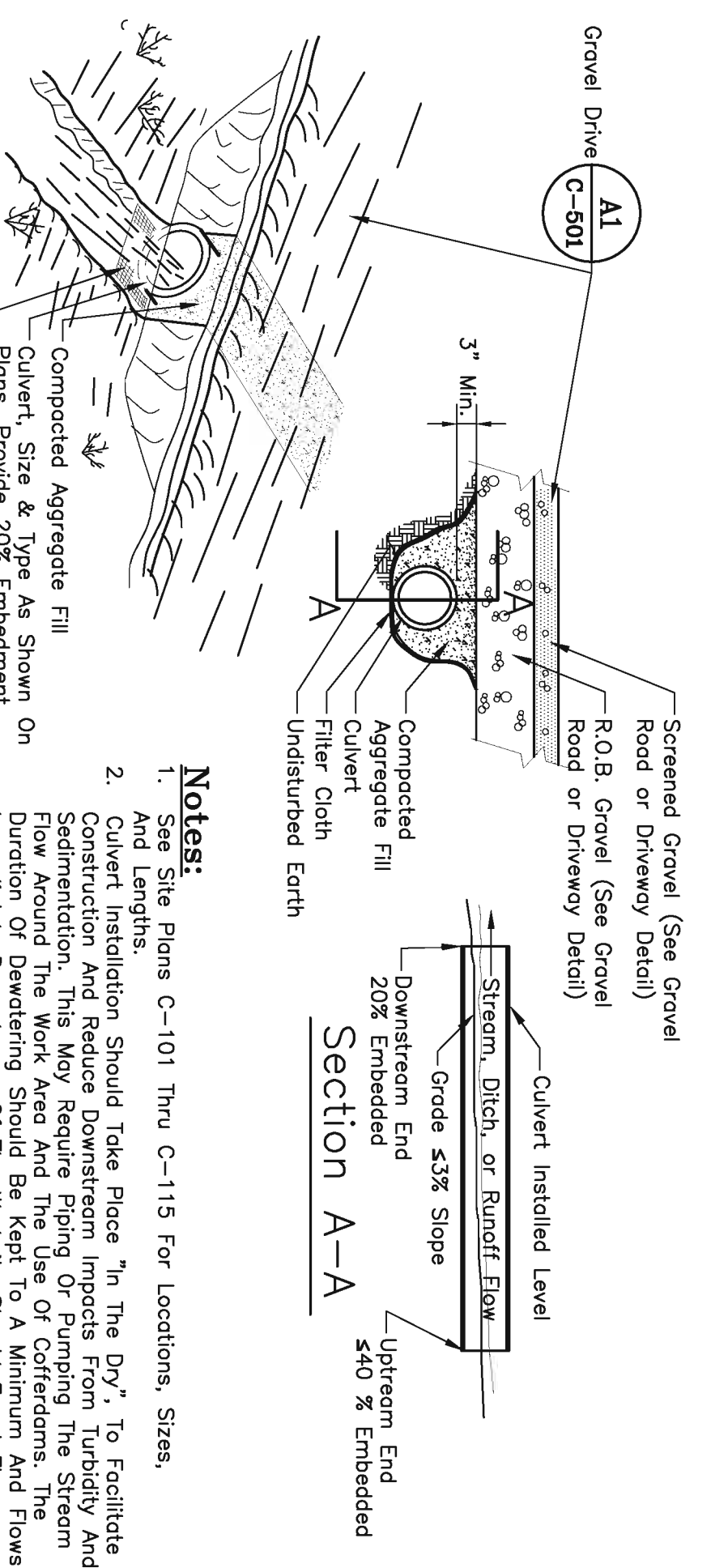
Precast Reinforced Concrete Bridge Notes:

1. Precast Arch, Wingwall, and Foundation Units Shall Be Manufactured by Contech Engineering Solutions. Installation Shall Be in Accordance with the Manufacturer's Instructions and Specifications and Wingwalls Must Be Connected by Reinforcement to Form One Monolithic Body. Expansion Joints Shall Not Be Used.
2. Precast and Cast-in-Place Concrete For Express Foundations Shall Have a Minimum 28-Day Compressive Strength of 4000 PSI.
3. Reinforcing Steel Shall Conform to ASTM A615 or A996, Grade 60. Foundation Units Shall Be Set on the Full Width of the Subgrade Layer of the Proposed Gravel/Asphalt/Concrete Subgrade. Foundation Units Shall Be Removed and Replaced With Well-Compacted Foundation Material. Compacted Backfill Material Must Be Placed Up to the Top of the Precast Foundation Units on Both Sides Prior to Placing Concrete. Steel Reinforcement Shall Be Placed in the Concrete. Cast-in-Place Concrete Form of Foundations Will Be Placed Against Shall Be Clean, Free of Lintense, Dirt, Standing Water, and Any Other Material That May Impair the Bond Between the Precast and Cast-in-Place Concrete.
4. Cast-in-Place Concrete Mix Used to Fill Foundation Shall Be Able to Undergo Each Shim Space or Other Shim Members Prior to Placement of Cast-in-Place Concrete.
5. The Bridge Units and Wingwalls Shall Be Set on Mesquite or Steel Shims Measuring 6"x6" Minimum. A Minimum Gap of 1/2" Shall Be Provided Between the Footing and the Bottom of the Bridge's Vertical Legs or the Bottom of the Wingwall. Avoid Lateral Spreading of the Bridge Elements During and After Placement. Suitable Wedges Are Placed in the Key and Smaller Shims and Wedges Added Before Complete Release of the Precast Concrete Bridge Element From the Crane.
6. Joints Between Bridge Units and Between End Bridge Units and Headwalls Shall Be Sealed in Accordance With the Manufacturer's Specifications. The Sealant Between End Bridge Units and Headwalls Shall Be Sealed With 1/2" Shim Spacing. The Sealant Between Bridge Units Shall Be Primed and Covered With a 9"x9" Square of Joint Wap.
7. GROUTING: Fill Bridge-Foundation Keyway With Cement Grout Having a Minimum 28-Day Compressive Strength of 3000 PSI. Vibrate As Required to Ensure Entire Key Around Bridge Element is Completely Filled.
8. Backfill: Do Not Perform Backfilling During Wet or Freezing Weather. Refer to Backfill Zone Notes on This Sheet For Required Backfill Properties. Dumping Is Not Allowed Any Neater Than 3:1 Through the Bridge Key. Fill Must Be Placed and Compacted in Layers Not Exceeding 8". Maximum Difference in the Surface Levels of the Fill On Opposite Sides of Bridge Must Not Exceed 2". Fill Behind Wingwalls Must Be Placed At Some Time as That of the Bridge Fill and Placed Progressively in Horizontal Layers Not Exceeding 8".
9. All concrete shall be placed in accordance with the manufacturer's specifications. All concrete shall be placed in accordance with the manufacturer's specifications. All concrete shall be placed in accordance with the manufacturer's specifications.
10. GROUTING: Fill Bridge-Foundation Keyway With Cement Grout Having a Minimum 28-Day Compressive Strength of 3000 PSI. Vibrate As Required to Ensure Entire Key Around Bridge Element is Completely Filled.
11. Backfill: Do Not Perform Backfilling During Wet or Freezing Weather. Refer to Backfill Zone Notes on This Sheet For Required Backfill Properties. Dumping Is Not Allowed Any Neater Than 3:1 Through the Bridge Key. Fill Must Be Placed and Compacted in Layers Not Exceeding 8". Maximum Difference in the Surface Levels of the Fill On Opposite Sides of Bridge Must Not Exceed 2". Fill Behind Wingwalls Must Be Placed At Some Time as That of the Bridge Fill and Placed Progressively in Horizontal Layers Not Exceeding 8".

Acceptable Soils For Use in Zone B Backfill

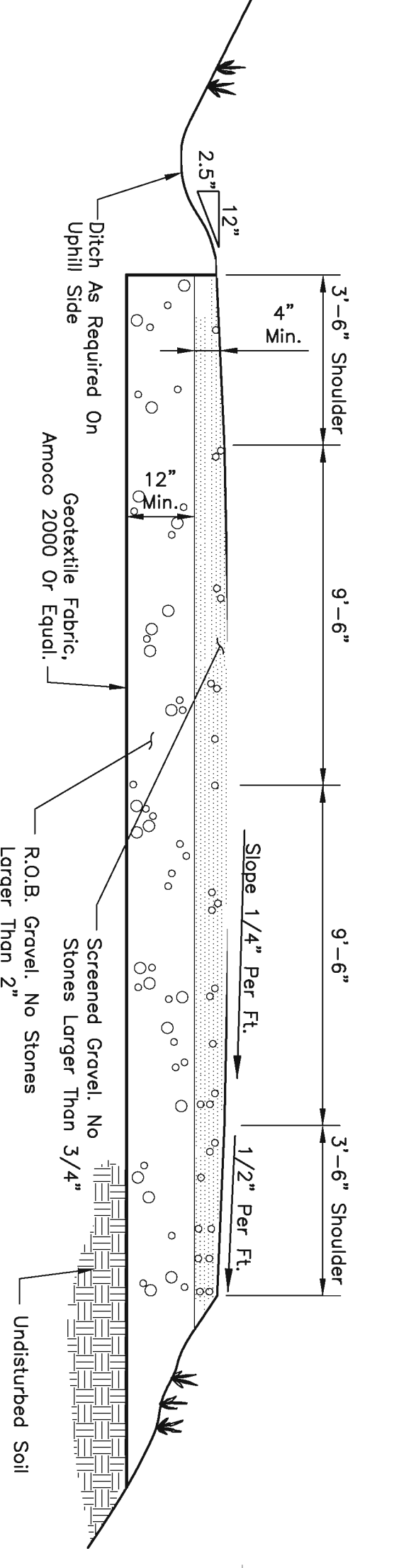
AASHTO Group	AASHTO Subgroup	Percent Passing US Sieve No. #10	Percent Passing US Sieve No. #40	Percent Passing US Sieve No. #200	Character of Fraction	Soil Description
A-1	A-1	50 max	30 max	15 max	Liquid	Largely Gravel But Can Include Sand & Fines
A-2	A-1b	50 max	30 max	25 max	Liquid	Sandy Gravel, Sand or Gravel with Plastic Fines
A-3	A-2-5	51 min	10 max	35 max	Non-Plastic	Sand Gravel with Plastic Fines
A-4			35 min	40 max	Low-Compressibility Silts	Fine Sands

- Backfill Zone Notes:**
1. Undisturbed or In-Situ Soil: Natural Ground Must Be Sufficiently Stable As Now, Effective Support to the Precast Concrete Bridge Structure. Soil Quality and Density to Zone B Material For Minimum Lateral Dimension of One Bridge Span Outside of Bridge Footing.
 2. Zone A: Fill Material With Specifications and Compacting Procedures Equal to That For Normal Road Embankments.
 3. Zone B: Critical Backfill. Generally, Soils Shall Be Reasonably Free of Organic Matter, and, Near Concrete Surfaces, Free of Stones Larger Than 3" Diameter. See Chart This Sheet For Acceptable Zone B Soils.
 4. Zone C: Road Section of Gravel, Asphalt, or Concrete. Refer to Road Details.

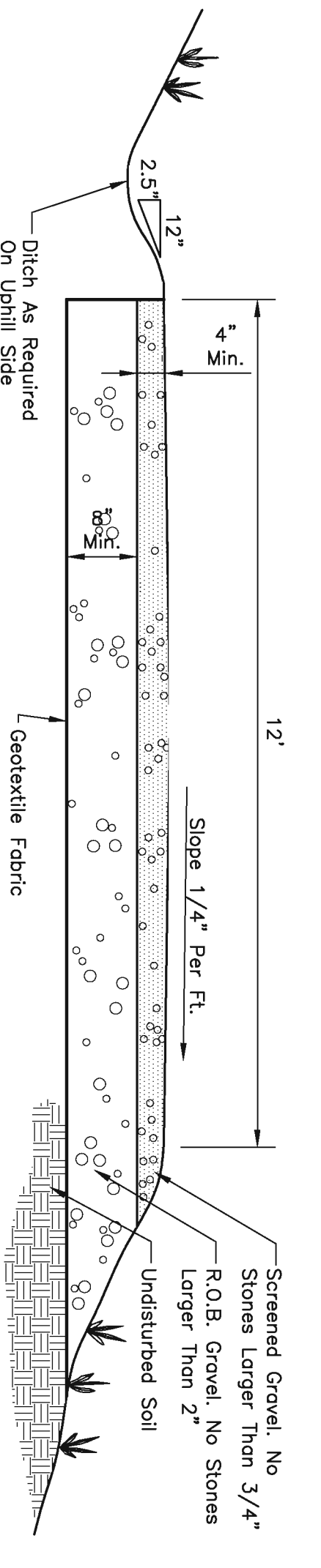


C6 Typical Culvert Detail
 Not To Scale

- Notes:**
1. Culvert Installation Should Take Place "In The Dry". To Facilitate Construction And Reduce Downstream Impacts From Turbidity And Sedimentation, This May Require Piping Or Pumping The Stream Flow Around The Work Area And The Use Of Cofferdams. The Duration Of Dewatering Should Be As Short As Possible. The Duration of Dewatering Should Be As Short As Possible. The Duration of Dewatering Should Be As Short As Possible.



B6 Typical Gravel Road Section
 Scale: N.T.S.



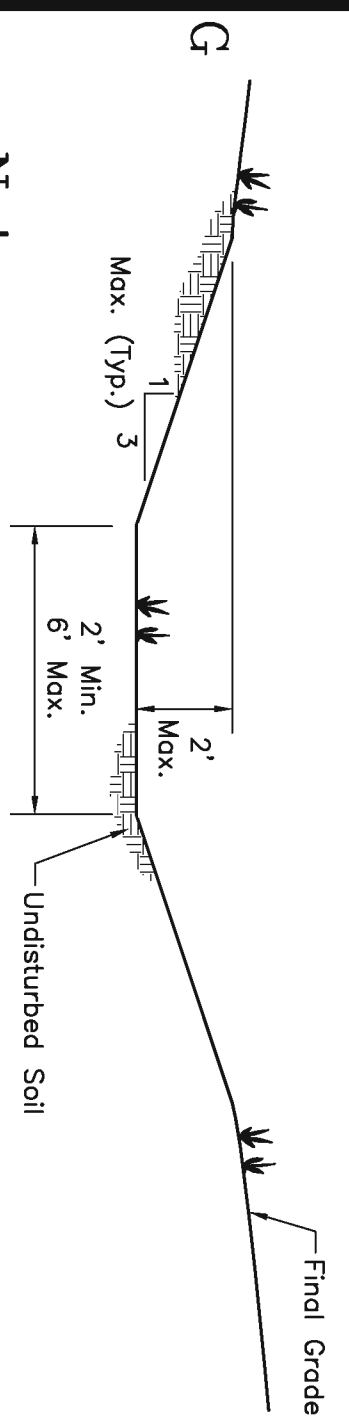
A6 Typical Gravel Driveway Section
 Scale: 1/2" = 1'-0"

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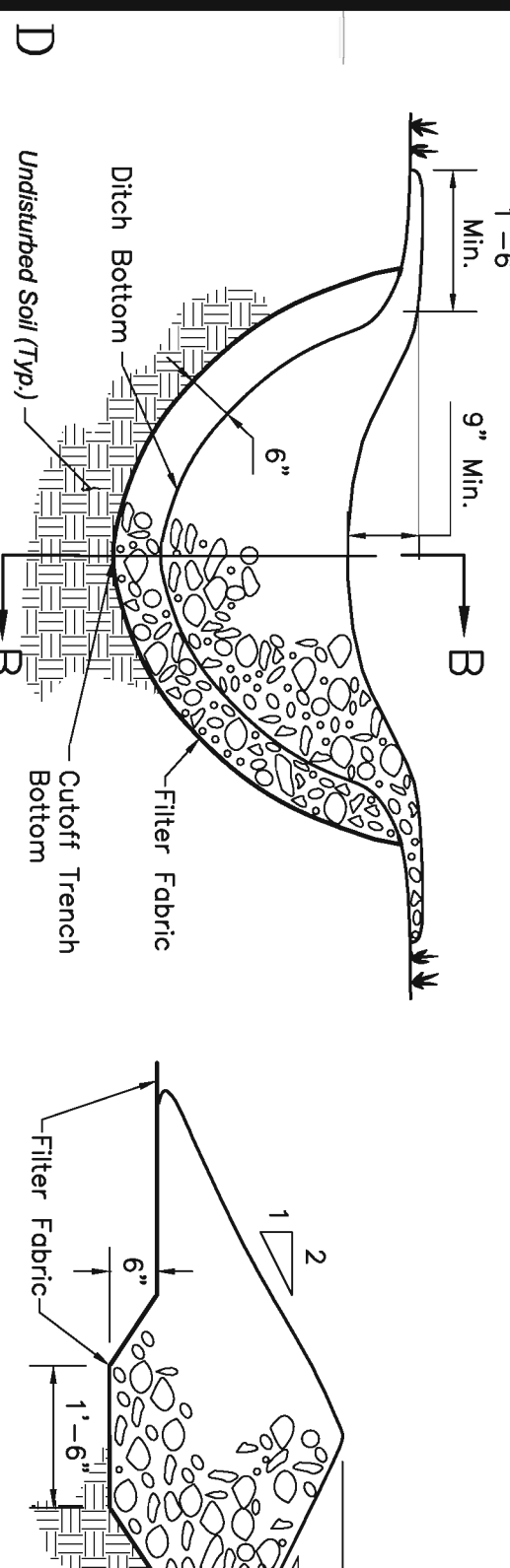
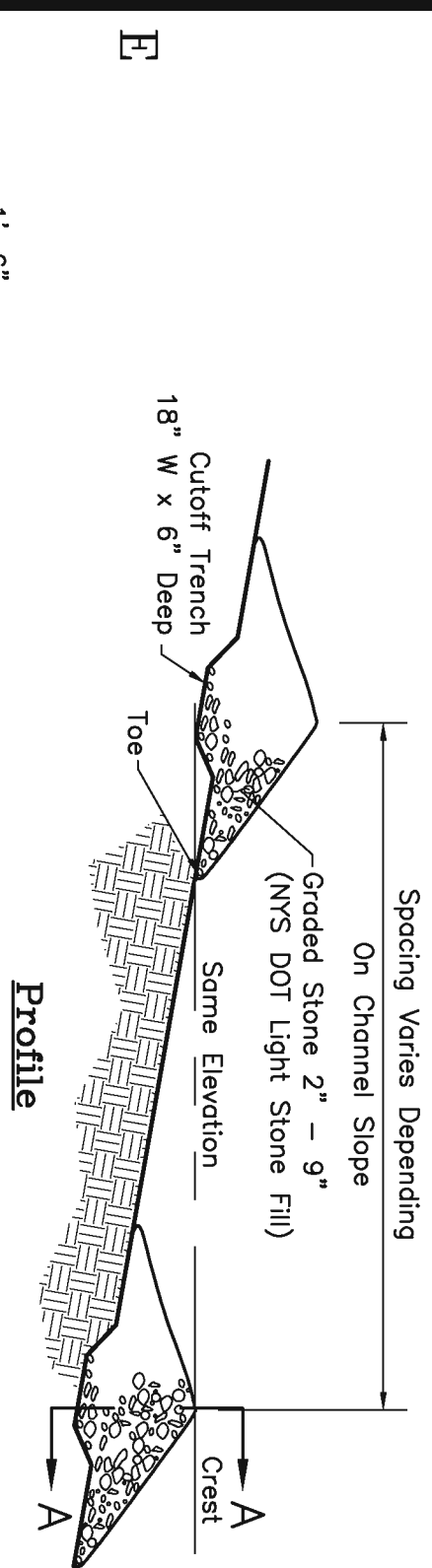
SHEET NAME
 Typical Bridge Culvert,
 Road, & Driveway Details,
 Notes, & Specifications
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Notes:
Construct Swale After Final Grading Of Contributing and Adjacent Areas Have Been Completed. Remove All Brush, Stumps, and Objectionable Material. Slope Or Excavate Swale To Smooth Line, Grade, and Cross Section. On Slopes Greater Than 4%, Install 12" High Stone Check Dams Every 50' in Bottom Elevation. Provide 4 inches Topsoil. Remove All Stones and Debris From Swale. Apply Seed Mixture, Soil Or Cult-700k Seeds and Mulch Seed Bed. Anchor Which As Needed.

Recommended Seed Mixtures:
A. 0.68 lbs/1000sf Perennial Ryegrass, 0.45 lbs/1000sf Tall Fescue or Smooth Bromegrass, 0.05 lbs/1000sf Redtop
B. 0.60 lbs/1000sf Kentucky Bluegrass, 0.50 lbs/1000sf Creeping Red Fescue, 0.20 lbs/1000sf Perennial Ryegrass

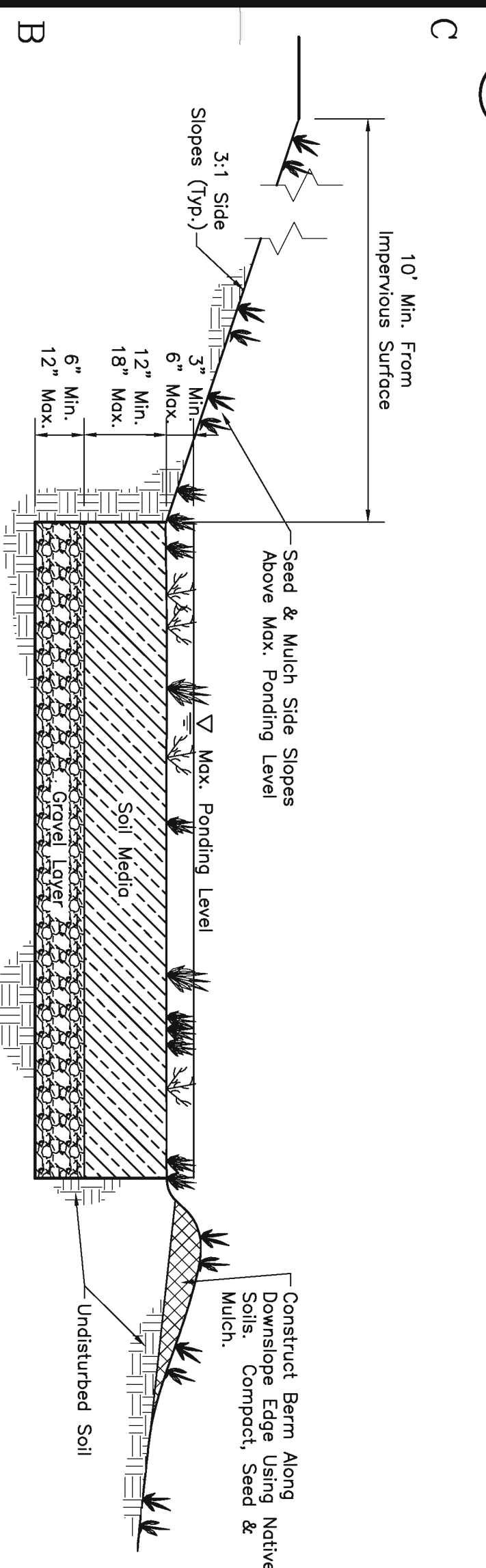
F1 Typical Vegetated Swale Section
Scale: 1/4" = 1'-0"



Construction Specifications

- Stone Will Be Placed On A Filter Fabric Foundation To The Lines, Grades, and Locations Shown. On The Pin-Elevation Of The Toe Of The Upstream Dam.
- Set Spacing Of Check Dams To Assume That The Elevations Of The Crest Of The Downstream Dam Is At The Same Elevation Of The Toe Of The Upstream Dam.
- Extend The Stone A Minimum Of 1'-6" Beyond The Ditch Banks To Prevent Cutting Around The Stone Or Protect The Channel Downstream Of The Lowest Check Dam From Scour And Erosion With The Stone Or Liner As Appropriate.
- Liner As Appropriate.
- Ensure That Channel Appearances Such As Culvert Entrances Below Check Dams Are Not Subject To Damage Or Blockage From Displaced Stones.

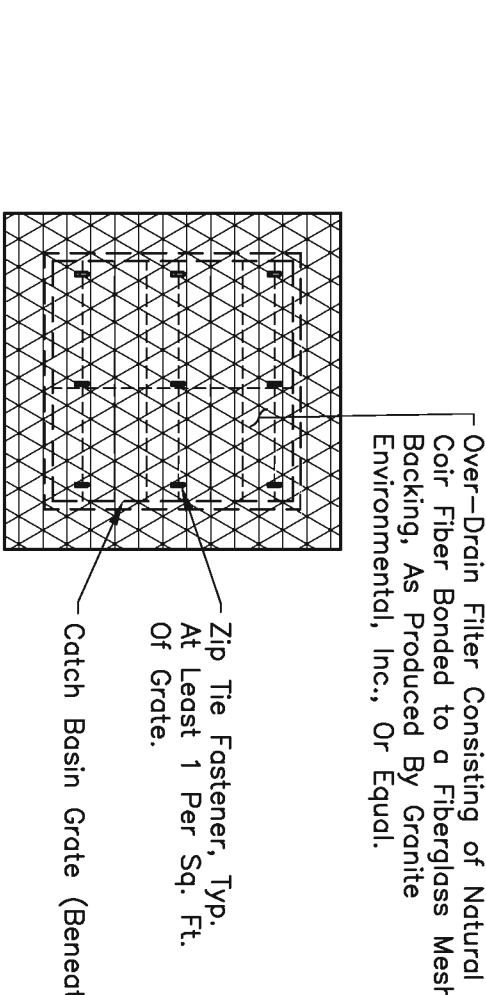
C1 Check Dam Detail
Not To Scale



Construction Notes:

- Site Rain Gardens At Least 10' From Any Basement Foundation But As Close As Possible To Impervious Areas Intended To Be Treated. Generally Within 30'. Direct Runoff From Downspouts And Other Impervious Surfaces To Rain Garden Through Shallow Swales Or Sheet Flow Across Short Distances. Rooftop Runoff May Be Directed To Area With Stone Placed At Point Of Discharge Into Rain Garden (If Possible, Direct Rooftop Runoff To Other Vegetated Or Pervious Areas Rather Than Rain Garden).
- Surface Area Of A Rain Garden Should Not Exceed Loading Ratio of 5:1 (Impervious Drainage Area To Infiltration Area). Maximum Loading Ratio Is 10:1. Length To Width Ratio Of Garden Should Be Approximately 2:1 With Long Axis Perpendicular To Slope and Flow Path.
- Excavate Proposed Garden To A Depth of 24". Then Backfill With Gravel, Followed By Soil Mix.
- Gravel Shall Consist of Clean Washed 1/2"-2" Diam. Stone.
- Soil Mixture Shall Consist of 50%-70% Sand With Less Than 5% Clay Content, 50%-30% Topsoil With An Average 5% Organic Material Such As Leaf Compost. Cover Top Layer of Sand With 2" Layer of Soil. Roots & Woody Debris, and Animal Waste. Depth of Soil Media Should Be Approximately 4" Below the Bottom of the Deepest Root Ball.
- Plant Container-Grown Plants With Well-Established Root Systems. Use Only Native Plant Species. Select a Mix Of Upright and Wetland Native Shrubs, Grasses, and Herbaceous Plant Material. Arrange in a Natural Configuration. Starting from the more upland species At the Edge of the Rain Garden to the more wetland species At the Innermost Zone. After Planting, Apply a 2" Layer of Shaded Hardwood Mulch Or Leaf Compost - Avoid Wood Chips.

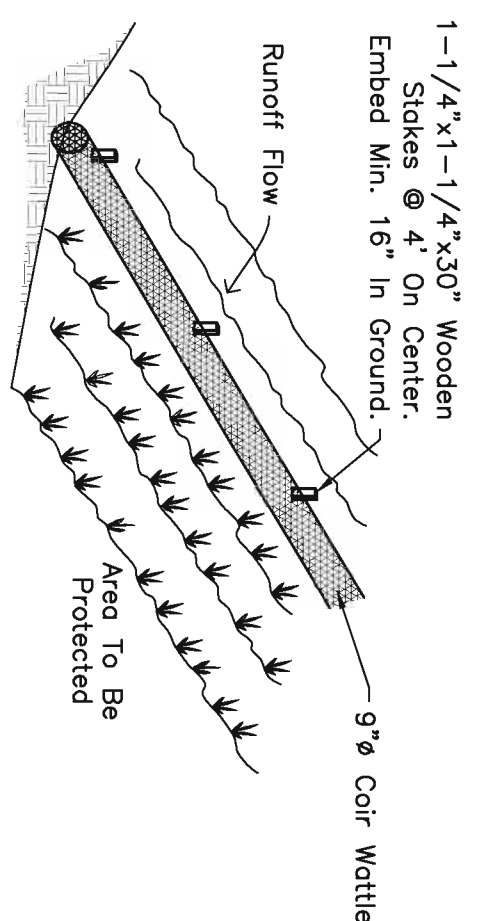
A1 Typical Rain Garden Section
Not To Scale



Specifications:

- Sweep Sediment, Ice Snow, Debris From Around Drain Area.
- Trim Mat to Fit Size of Drain/Grate. Mat Should Extend Beyond Edge of Drain Cover or Rim At Least 1" On All Sides.
- Place Mat On Grate Mesh Side Down. Position Filter So That It Completely Covers Grate With Overlap On All Sides.
- Push Zip Ties Through Grate, Around Bar, and Back Up Through Filter. Insert Pointed Ends of Zip Tie Into Receiving Ends. Pull Free Ends of Ties to Tighten Filter to Grate. Cut Off Free Ends, Leaving a 1" Tail.
- To Maintain, Sweep Debris and Sediment From Around Edges and Off the Top of the Filter As Needed.

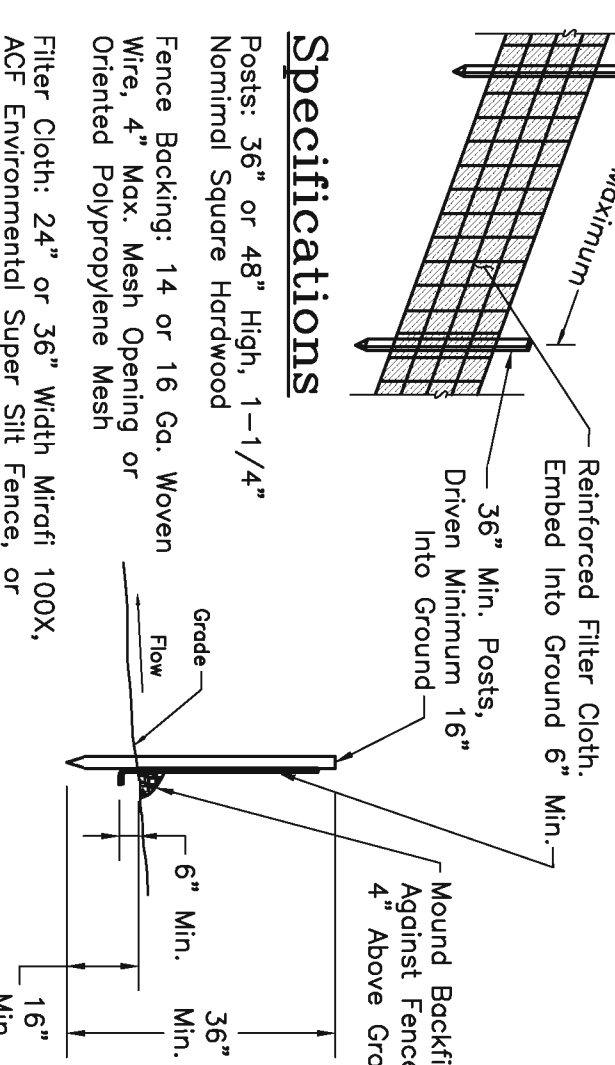
E3 Catch Basin Protection Detail
Not To Scale



Notes:

- Coir Wattles Shall Consist of Coir Twine Exterior Netting With 1/2" x 1/2" Mesh. Coir Twine Shall Be Made of Double Strand Coir Twine. Wattle Shall Be Biodegradable and As Produced by GEI Works or Equal.
- Install by Piling Wattle in a Shallow Trench At Edge of Wetland or Area to Be Protected, and Stake at 4' O.C.
- Maintenance Shall Be Performed As Needed and Material Removed When Sediment Accumulates to No More Than 3" Below the Top of the Wattle.

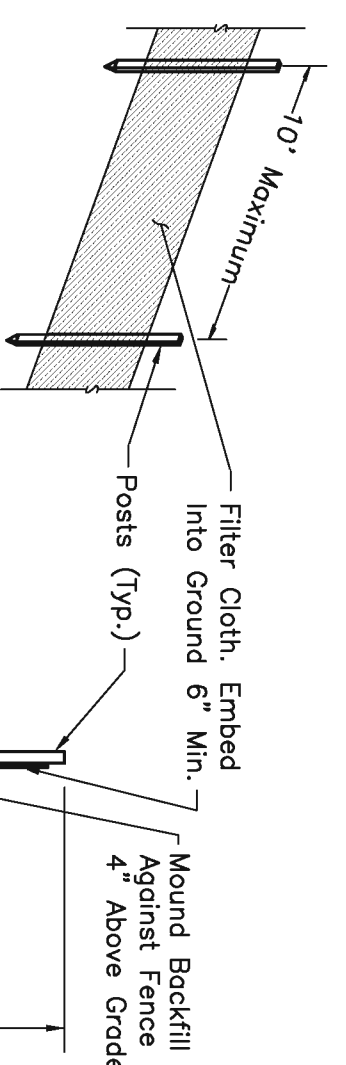
C4 Typical Coir Wattle Detail
Not To Scale



Specifications

Posts: 3/8" or 4/8" High, 1-1/4" Nominal Square Hardwood
Fence Backing: 14" or 16 Ga. Woven Wire, 4" Max. Mesh Opening or Oriented Polypropylene Mesh
Filter Cloth: 24" or 36" Width Mifflin 100X, or Equivalent Super Silt Fence, or Prefabricated Structure: Mifflin Environment, Everbilt, or Approved Equal

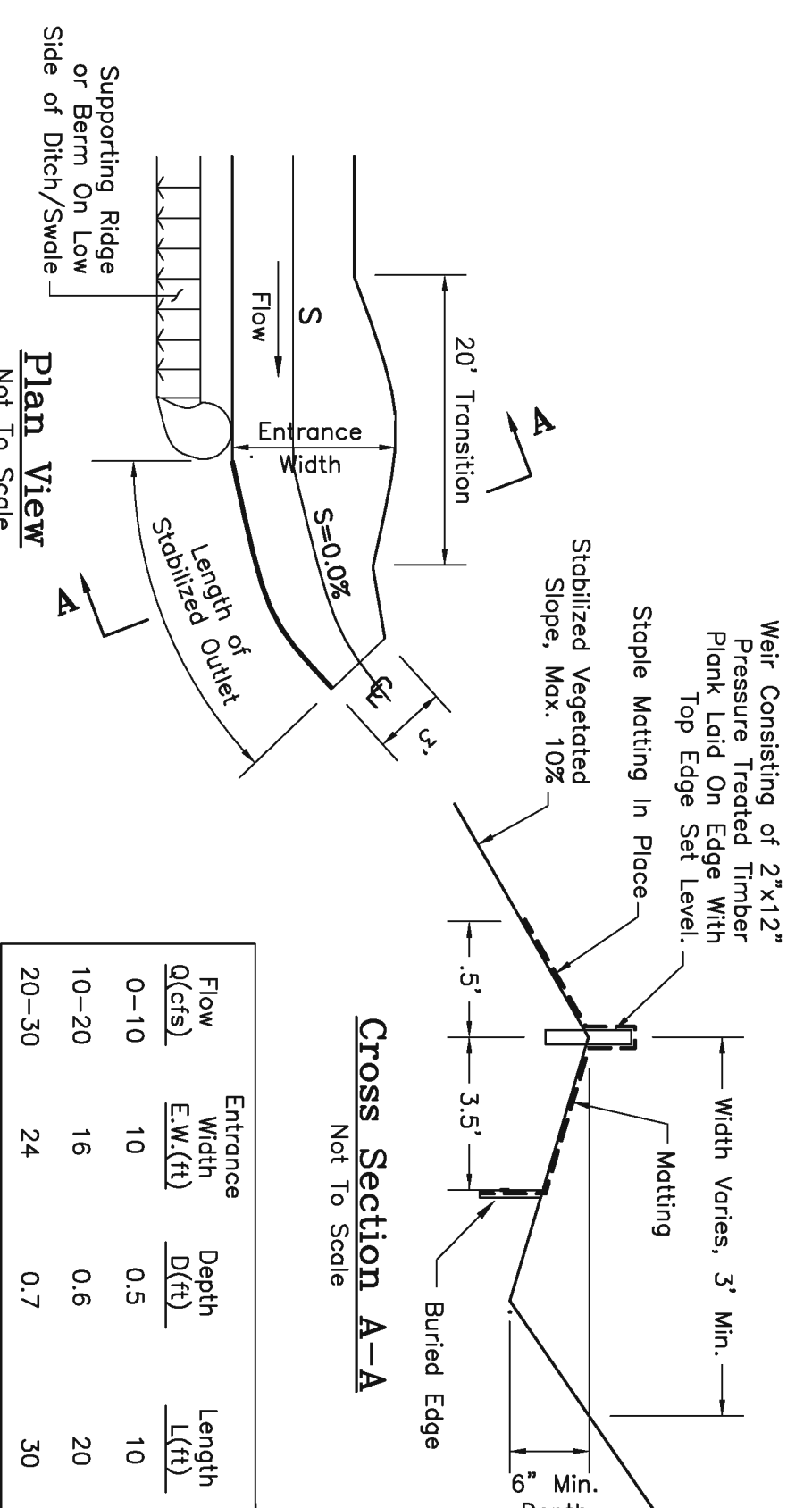
E5 Typical Reinforced Silt Fence Detail
Not To Scale



Specifications

Posts: 3/8" or 4/8" High, 1-1/4" Nominal Square Hardwood
Filter Cloth: 24" or 36" Width Mifflin 100X, Terrafix, or Approved Equal
Prefabricated Structure: Mifflin Silt Fence, Hens Geo Components, or Approved Equal

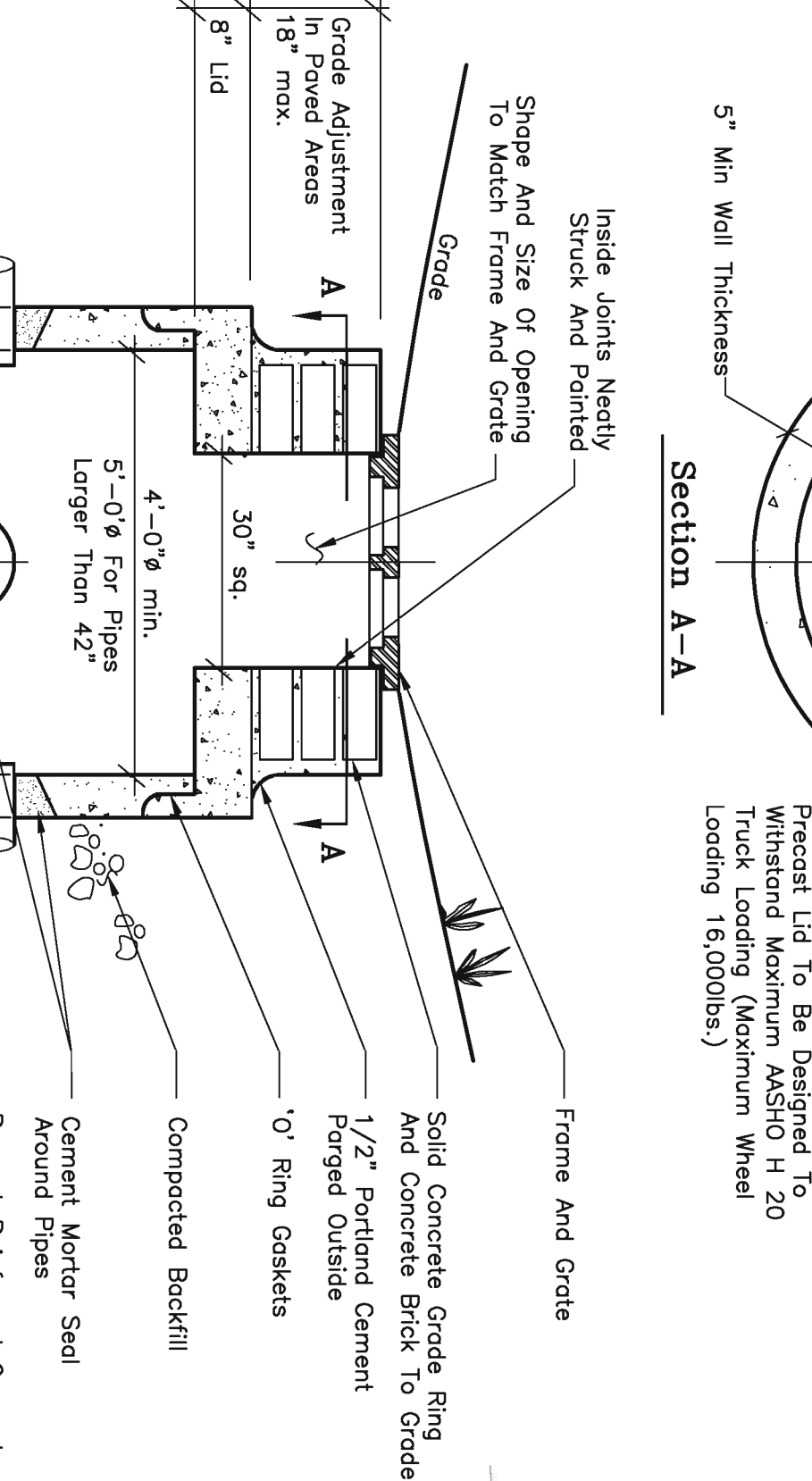
C5 Typical Silt Fence Detail
Not To Scale



Construction Specifications

- The Matting Should Be A Minimum Of 5 Ft. Wide Extending 6 Inches Over The Weir And Buried Butt Against Smoothly Cut Sod And Be Securely Held In Place With Closely Spaced Heavy Duty Wire Staples At Least 12 Inches In Length.
- Ensure That The Weir Is Level To Uniformly Spread Discharge.
- The Weir Shall Be Placed In Undisturbed Soil Not Fill.
- A 20'-Foot Transition Section Will Be Constructed From The Diversion Channel Or Swale To The Spreader To Smoothly Bend The Different Dimension And Grades.
- The Runoff Discharge Will Be Outlets Once A Stabilized Vegetated Slope Not Exceeding 10%.
- Seed And Mulch The Disturbed Area Immediately After Construction.

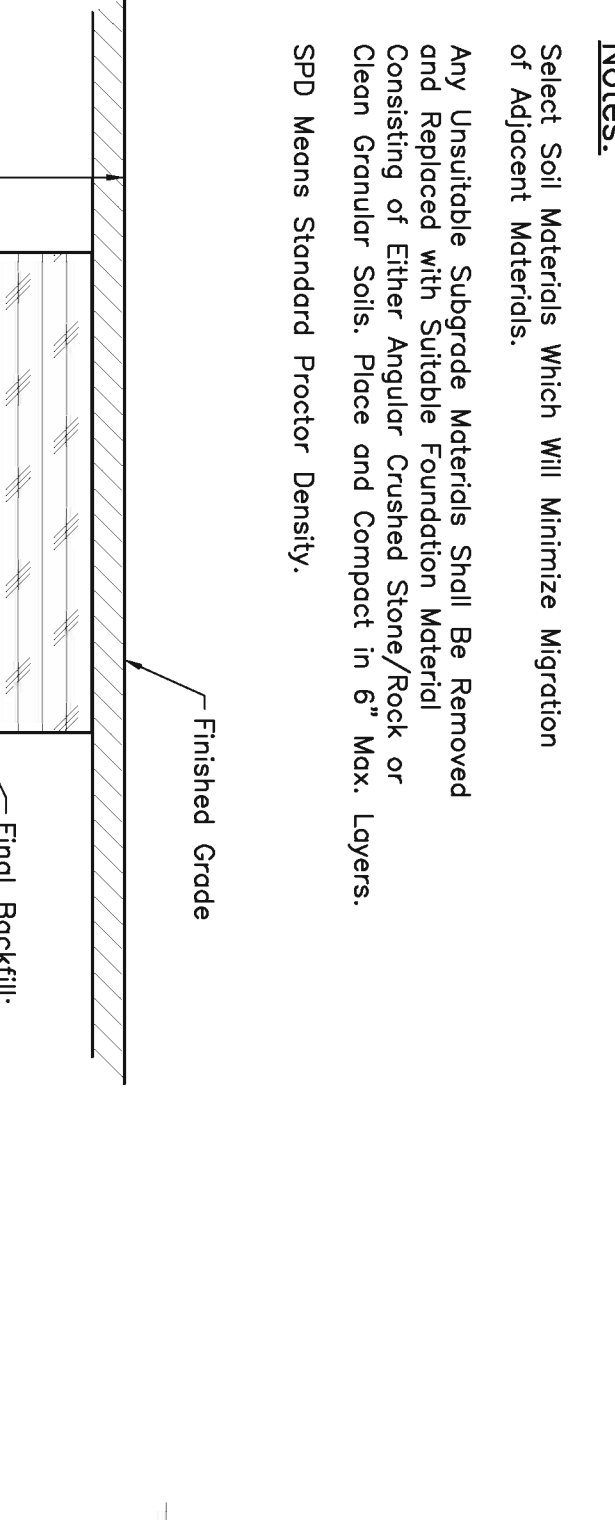
A4 Level Spreader Details
Not To Scale



Notes:

Select Soil Materials Which Will Minimize Migration of Adjacent Materials.
Any Unsuitable Subgrade Materials Shall Be Removed and Replaced with Suitable Foundation Material Consisting of Either Angular Crushed Stone/Rock or Clean Granular Soils. Place and Compact in 6" Max. Layers.
SPD Means Standard Proctor Density.

A7 Typical Precast Concrete Catch Basin Detail
SCALE: 1/2" = 1'-0"



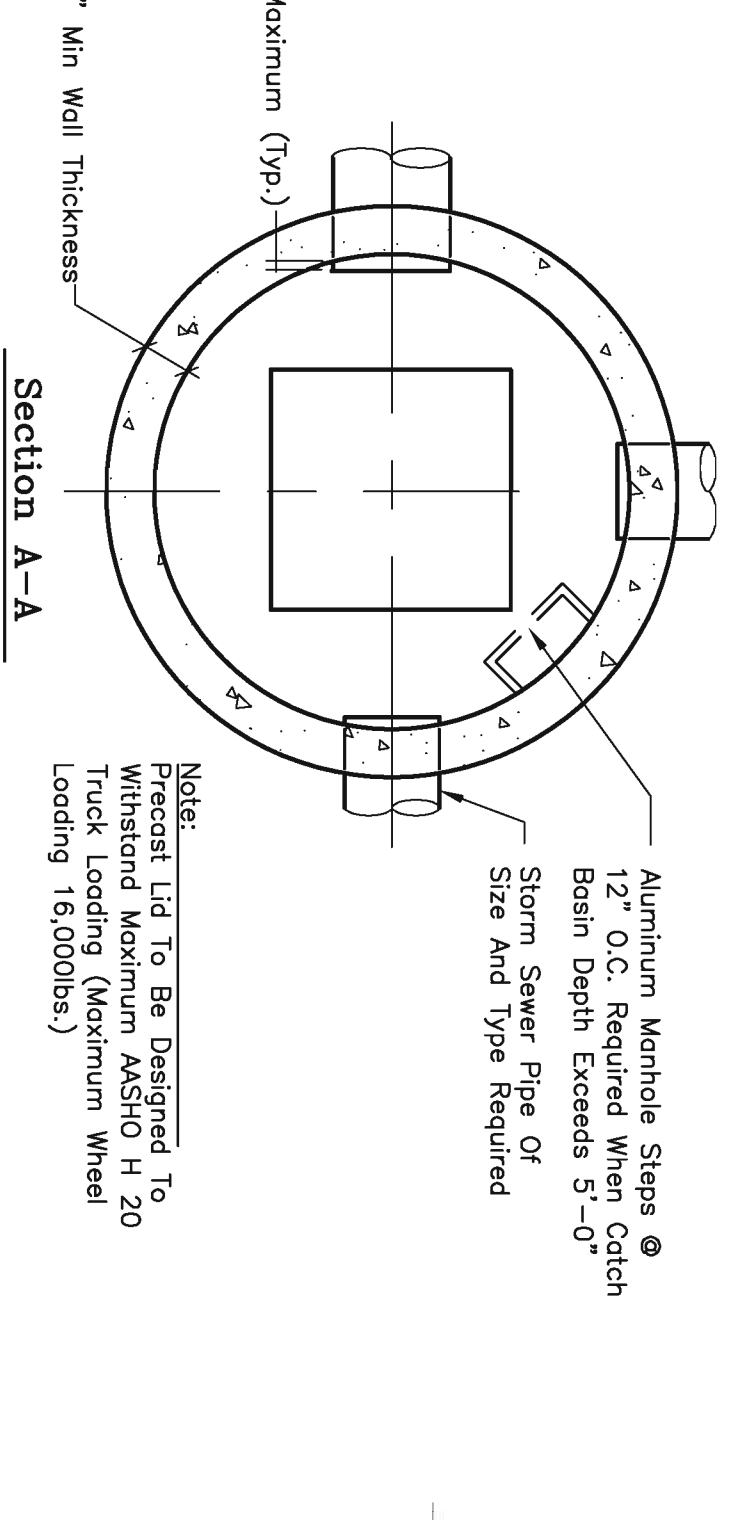
Notes:

Final Backfill: Use Native Soils or Coarse-Grained Material (Minimum 90% SPD in Vehicle Traffic Areas, Min. 85% SPD Elsewhere.
Initial Backfill: Place in 4"-6" Lifts. Use Clean Coarse-Grained Soils Compacted To Min. 85% SPD.
Haunch: Place in 4"-6" Lifts. Knife in To Remove Any Voids. Knife in To Coarse-Grained Soils Compacted To Min. 85% SPD.
Bedding: Bedding: Coarse-Grained Material. Pipe Greenhouse Middle 1/3" Pipe O.D. and Compact Remainder to Min. 90% SPD. Suitable Foundation (See Notes)

E7 Typical HDPE Pipe Trench Detail
Not To Scale

Sediment & Erosion Control Note:

Provide Filter Fabric Drop Inlet Protection Until Contributing Areas Are Stabilized. Set Top of Wood Frame/Rainc 6" Above Rim to Allow Water To Pass Over Top. Remove Sediment Accumulations When They Reach 5".



Notes:

Aluminum Manhole Steps @ 12" O.C. Required When Catch Basin Depth Exceeds 5'-0". Storm Sewer Pipe Or Size and Type Required
Precast Lid To Be Designed To Withstand Minimum Truck Loading (Maximum Wheel Loading 16,000lbs.)
Frame And Grate
Solid Concrete Grade Ring And Concrete Brick To Grade
1/2" Portland Cement Parged Outside
0" Ring Gaskets
Compacted Backfill
Cement Mortar Seal Around Pipes
Precast Reinforced Concrete Standard Manhole Sections Designation C-478-88

A7 Typical Precast Concrete Catch Basin Detail
SCALE: 1/2" = 1'-0"

Septic System Maintenance

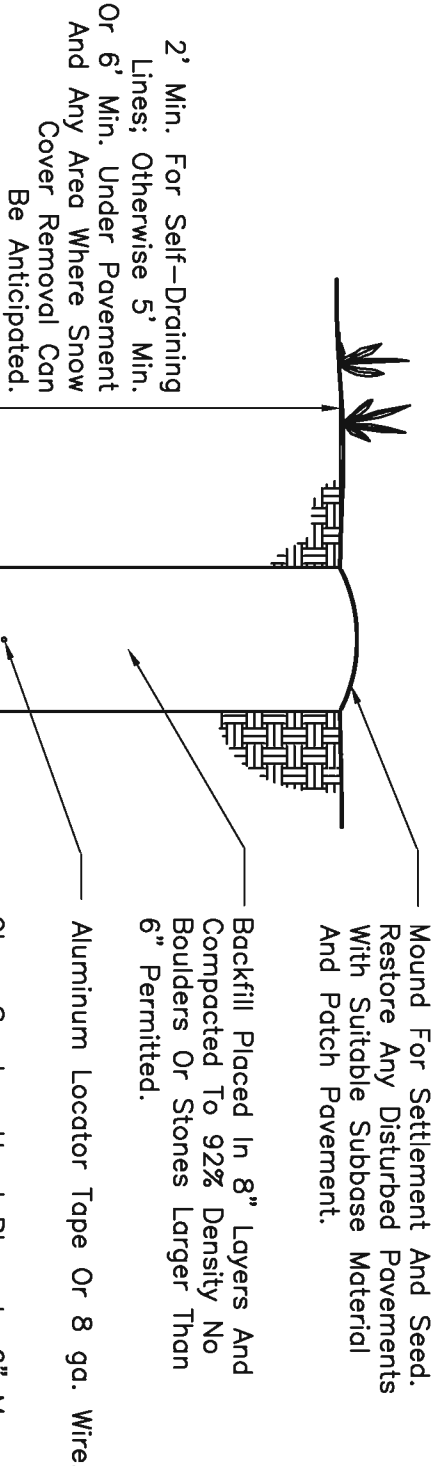
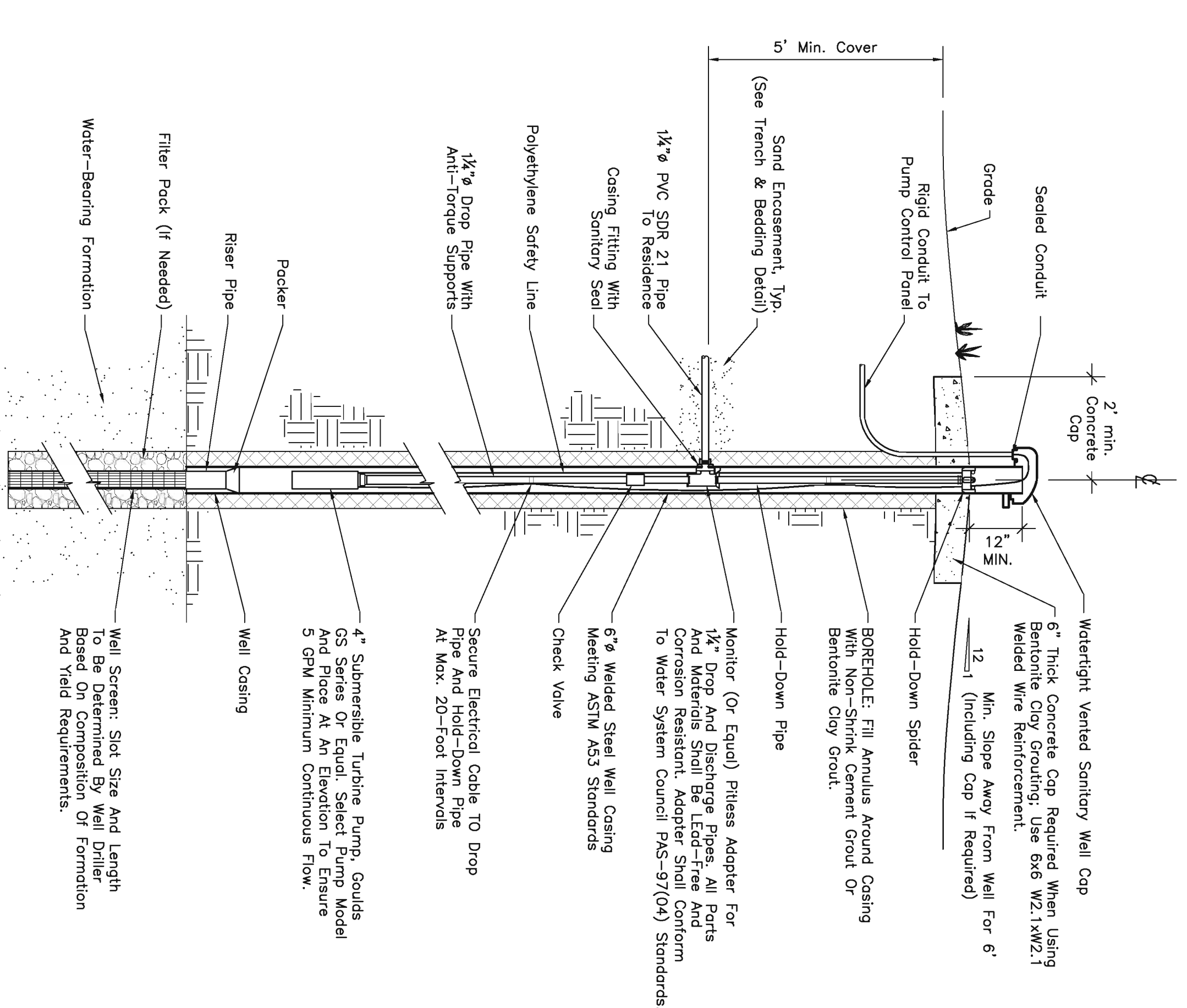
- OPERATION**
- Excessive use of detergents, laundry or kitchen wastes or household chemicals may be harmful.
 - Septic tanks are not recommended for wastewater treatment. Increase the septic tank capacity and install an outlet filter, if one is used.
 - Do not direct floating drains, downspouts or any stormwater runoff into or towards the system.
 - Large volume discharges will upset the septic tank. Limit draining rate of hot tubs etc. to less than five gallons per minute.
 - Do not burden the system with unnecessary flow. Check regularly for leaky fixtures and defective toilet valves.
 - Avoid disposal of cigarette butts, disposable diapers, feminine hygiene products, plastic, trash, etc. into the system.
 - Never permit vehicles or heavy equipment to pass over the absorption system.
 - For Systems With Pumped Disposal: Periodic Water Use To Maintain Absorption To The Septic And Pump Tank. The Manufacturer's Instructions Must Be Followed. Do Not Exceed The Manufacturer's Recommended Pumping Cycle. Do Not Operate Manually As Described Below To Avoid Overloading The Absorption System. (This Does Not Apply To Resumption From A Power Outage During Which Little Or No Water Is Available).
 - Manual Pump Operation Following Repair: From The Control Panel, Run The Pump Using The "HAND" Setting For 2 Minutes Then Shut It Off. Wait At Least 2 Hours, Then Run The Pump Another 2 Minutes, Repeat This Cycle, Allowing At Least 2 Hours Between Run Times. Once The Pump Has Run For 2 Hours, Turn The Control Panel Off. Do Not Operate Manually. Do Not Operate Manually To "HAND" Setting To "AUTO" To Resume Normal Automatic Operation. If The Pump Does Not Run During This Procedure As It Could Result In Additional Cycle Requirements, Thus Prolonging The Operation.

INSPECTION & MAINTENANCE

Tip: Make a sketch with pen on a piece of duct tape showing the location, with dimensions, of your septic tank, pump tank, and absorption system with respect to the house. Tape it to the house sewer pipe where it exits the foundation.

- Septic Tank & Pumping System**
- Pumping your septic tank at the right time is the single most important maintenance procedure. Solids flowing into the absorption facility leads to rapid clogging and premature failure, requiring the system to be replaced. The tank should be pumped every two to three years or whenever (1) the depth of sludge and scum exceeds 1/3 of the tank depth, or (2) the bottom of the scum layer is within three feet of the bottom of the tank, or (3) the top of the sludge layer is within three feet of the bottom of the outlet baffles.
 - Concrete baffles and tees may deteriorate over time and must be replaced when the tank is pumped out.
 - The tank must be replaced if there are leaks or cracks in the tank, which cannot be repaired.
 - Periodically inspect the pump and float switches, including the pump junction, for proper operation. The pump basin should be inspected at the time the septic tank is pumped out.
- Distribution Device**
- Inspect the distribution box annually to ensure equal flow to each lateral. The use of speed elevators aids proper distribution and is encouraged.

- Absorption System**
- Keep tree roots away from the immediate area of the absorption system.
 - Do not pour oil, grease, or other liquids down the absorption system.
 - Do not pave over the absorption system.
 - Increasing the size of the house may require increasing the size of the absorption system as well as other components of the system.
 - Do not replace or landscape stock that surface water is directed toward the absorption system.



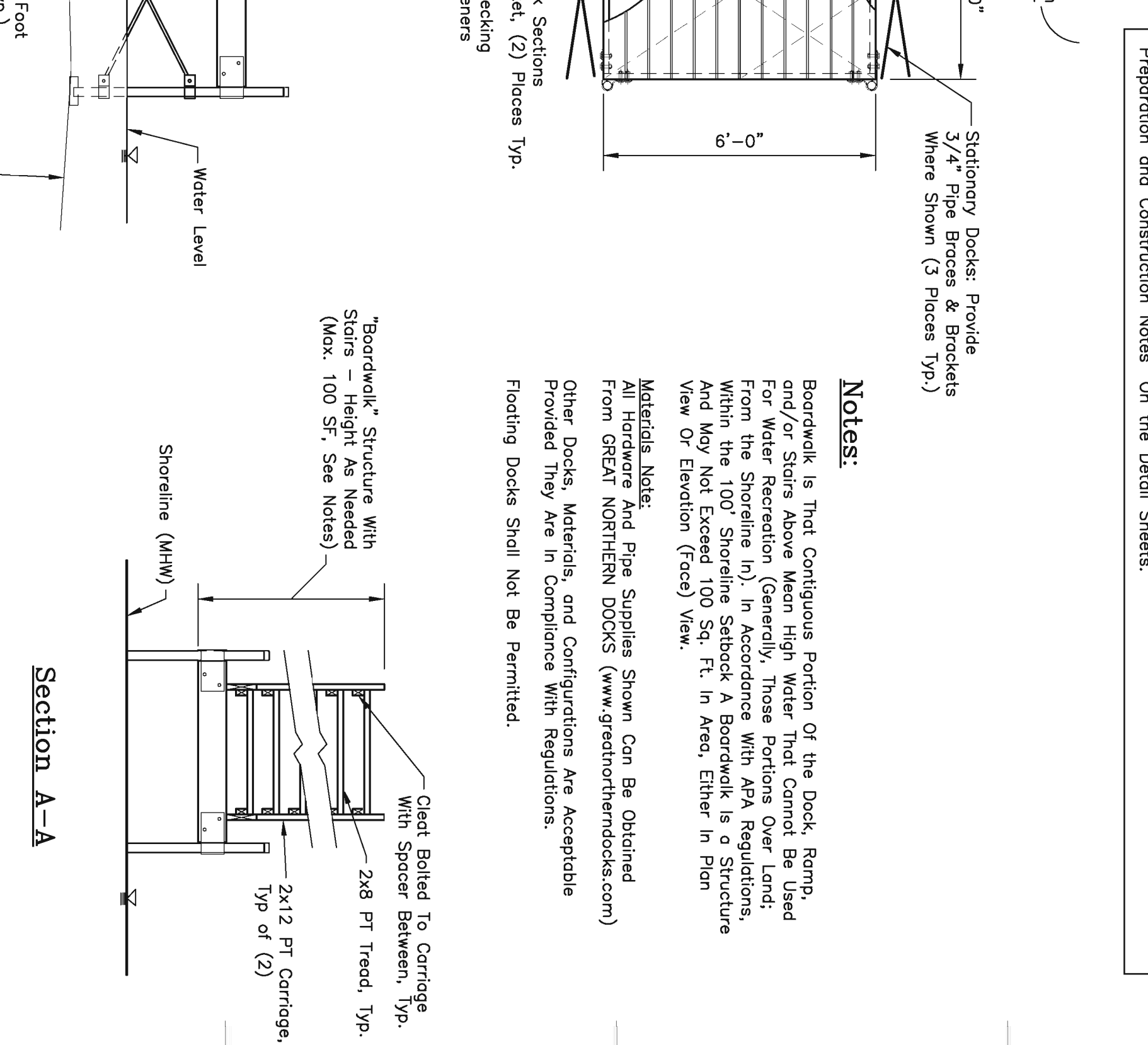
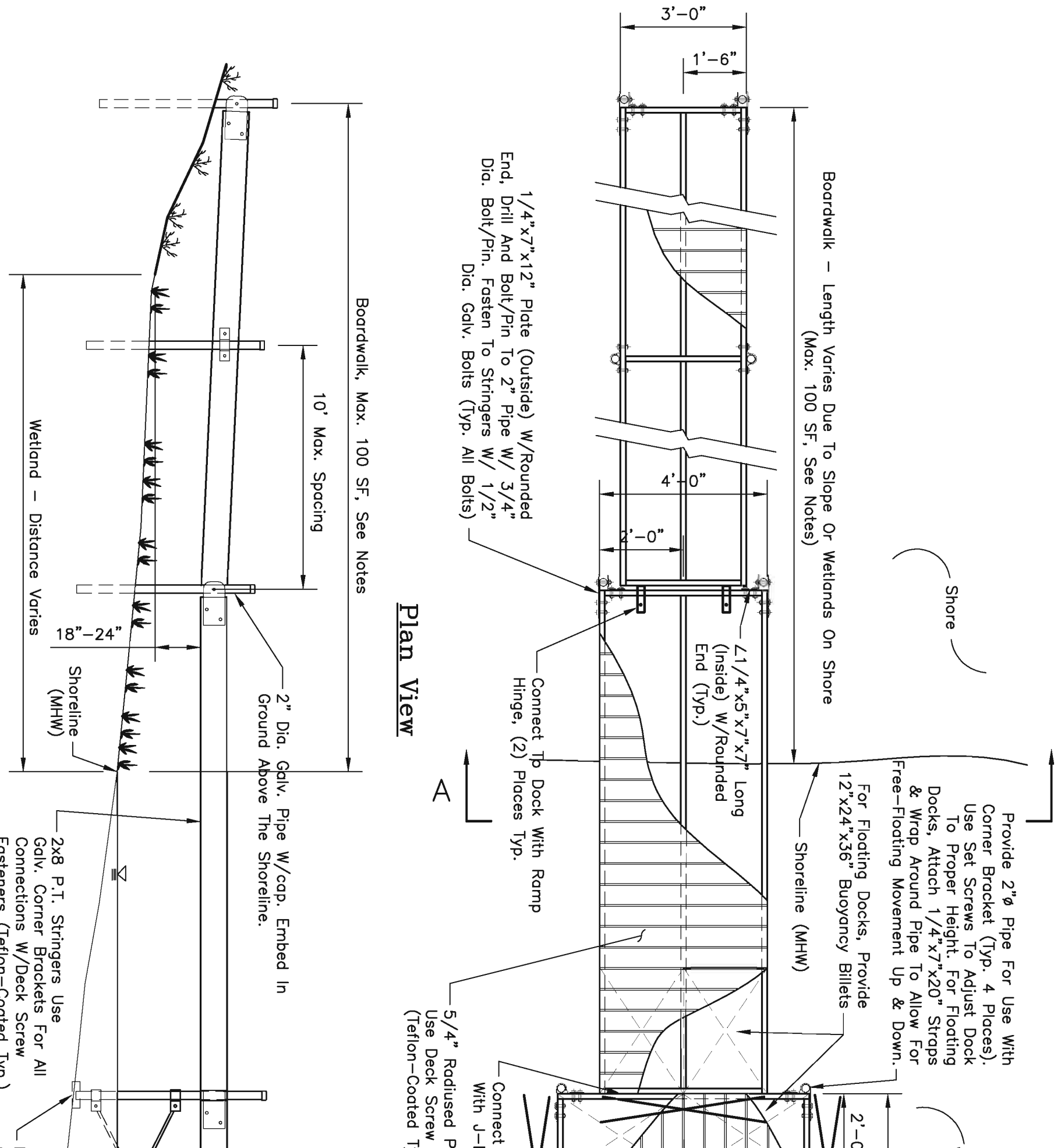
NOTE:
Contractor Responsible For Trench Support, Trench Support Material To Be Removed In Such A Manner That Backfill Material For First Two Feet Above Pipe Will Be Compacted Against Undisturbed Earth.

Water System Notes

The Well Shall Be Constructed by a Well Driller Registered with the NYS Dept. of Environmental Conservation.

The Well Must Yield a Minimum of 5 GPM, Disinfection, Pressure, and Leak Testing of the Well Shall Be Performed in Accordance With Current AWMA Procedures. A Water Sample Shall Be Analyzed for Bacteria by a NYSDOH Certified Laboratory. The Contractor is Responsible for Sample Collection and Delivery to a Laboratory.

A Copy of the Well Driller's Log with Information Relating to Well Yield, Pump Location and Horsepower, and a Copy of the Log Report Showing Satisfactory Water Supply Bacteriological Quality Shall Be Submitted to the Engineer.



General Notes

On Any Lot, All Proposed Structures, Septic System Components, and Well Location Shall Be Staked Out Prior To Construction. Verify That Separation Distances Meet Applicable Criteria. Separation Criteria Are Provided On The Typical Lot Development Sheet and Must Be Met Or Exceeded.

Install All Required Erosion and Sediment Controls Prior To Clearing Or Grading The Site. Refer To The Typical Lot Development Sheet For Guidance.

The Materials and Specifications Noted On The Plans Must Be Utilized Unless Alternates Are Accepted and Approved in Writing by the Design Engineer.

Follow All Manufacturers' Instructions for Component Installation Unless Otherwise Directed by the Design Engineer.

All Electrical Equipment Installed Must Be New York State Board of Fire Underwriters Certified.

Sewage System Notes

Construction and Installation Shall Be in Accordance With The Rules, Regulations, and Standards of the Adirondack Park Agency and the New York State Dept. of Health As Set Forth in 10NYSCR Appendix 75-4. Where There Are Differences, The More Restrictive Shall Apply.

The Wastewater Treatment Systems Are Designed And Approved Based On The Installation Of Water Conserving Fixtures And A Design Flow Of 110 Gallons Per Day Per Bedroom. The Systems Are Not Designed To Accommodate Extreme Water Use Fixtures, Such As Jacuzzi-Type Spa Tubs Or Water Conserving Equipment. The Systems Are Designed To Accommodate Garbage Grinders. The Installation Of Garbage Grinders, Dishwashers, Freezers or Extreme Water Use Fixtures is Contingent On The Approval Of These Wastewater Treatment Systems.

No Part of the Sewage Absorption System May Be Located Under Driveways, Access Roads, Nor Any Other Areas Receiving Vehicular Traffic.

Install Septic Tank, Pump Tank (If Applicable), and Distribution Box Level On A Bed Of Sand, Gravel, Or Other Suitable Material. The Bed Shall Be Level, Firm, and Free From Pockets of Soft or Below-Grade Access Covers Where Access Covers Are More Than 12" Below Final Grade. Provide Extension Covers Over Openings To Bring Covers Within 12" of Final Grade.

Piping:

- Row Sewage Line shall be 4" SDR 35 PVC Sloped 1/4" per Foot, Min. A Clean-Out Should Be Installed On The Interior Side of the House Sewer. Otherwise a 2-Way Clean-Out Shall Be Installed On The Line 3' to 5' From the Foundation.
- Gravity Effluent Line Shall Be 4" SDR 35 PVC Sloped 1/8" per Foot, Min. Shall Be Installed To Separation Point To Pump Book. Install Force Main Prior To Setting Pump Tank To Ensure That Pipe Joins To Tank At Desired Level.
- Outlet Pipes Between Distribution Box and Laterals Shall Be Solid Wall 4" SDR 35 PVC Sloped 1/16" per Foot, Min. No Outlet Pipe Shall Be Less Than 2 Ft. in Length.
- Distribution Laterals Shall Be Perforated 4" SDR 35 or Schedule 40 PVC Pipe Sloped 1/16" to 1/32" per Foot. Laterals Shall Be of Equal Length; Ends Shall Be Capped.
- 90° Bends Are Not Permitted in Row Sewage Or Gravity Effluent Lines; 45° Maximum.
- Two-Way Clean-outs Shall Be Installed Adjacent to Bends More Than 10' From an Inlet.
- Mass-Flow Fittings, and Tank Connections Shall Be Made Watertight.

Only Infiltrator Quick Equalizer 36 Or ARC 24 Chambers May Be Used in Groundless Absorption Trenches. Installation Shall Be in Accordance With the Manufacturer's Instructions. Infiltrator Laterals Shall Be of Equal Length With Ends Capped. An Inspection Port Shall Be Installed in the End Unit of Each Trench.

Location and Basic Configuration Of Absorption System For Each Lot Is Shown On The Site Plans. Absorption Field Is To Be Constructed With Distribution Lines Perforated To Original Ground Contours. Distribution Laterals May Be Curved to Follow Original Contours Provided That Trench Separation Requirements Are Met. Trench Bottoms Shall Be Level Along Their Length and At Depths Below Existing Grade As Specified On The Site Plans and Which Comply With Absorption System Design Criteria Elsewhere On These Drawings.

Fill Material for Shallow Trench Installations Shall Have a Verified In Situ (at the Borrow Site) Perc Rate No Faster Than the Perc Rate Of the Native Soil. Refer to the "Perc Test Results & Soil Summary" and "Absorption System Design Criteria" Tables On These Drawings, As Well As "Site Preparation and Construction Notes" On the Detail Sheets.

NOTES:

Boardwalk is That Contiguous Portion Of the Deck, Ramp, and/or Stairs Above Mean High Water That Cannot Be Used For Water Recreation (Generally, Those Portions Over Land From the Shoreline In), in Accordance With APD Regulations, Within the 100' Shoreline Setback A Boardwalk is a Structure And May Exceed 100 Sq. Ft. in Area, Either in Plan View Or Elevation (Grade) View.

Materials Note:
All Hardware And Pipe Supplies Shown Can Be Obtained From GREAT NORTHERN DOCKS (www.greatnortherndocks.com)

Other Docks, Materials, and Configurations Are Acceptable Provided They Are in Compliance With Regulations.
Floating Docks Shall Not Be Permitted.

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Woodward Lake Properties, LLC

Woodward Lake Subdivision
Towns of Northampton & Mayfield
Fulton County, NY

PRELIMINARY
01/24/20

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Drawn: BCT

Checked: BCT

Agency Review Drawing: 01/24/20

Construction Drawing: 01/24/20

Revision Schedule: 01/24/20

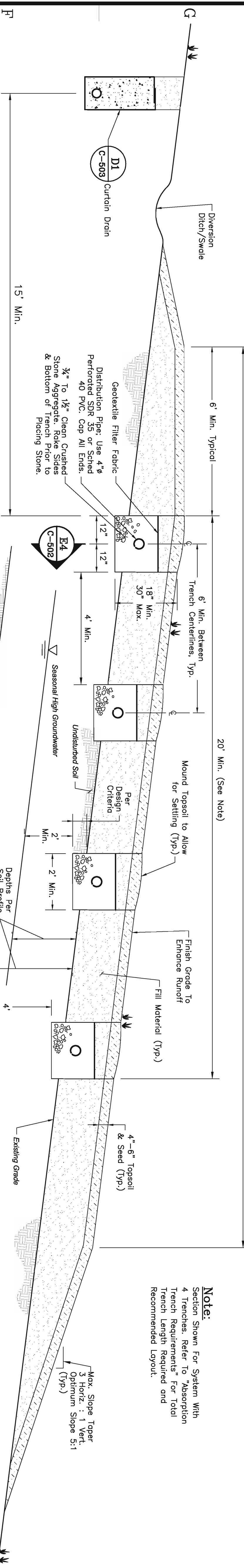
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It is a violation for any person to alter the plan in any way, unless written under the signature of the engineer.

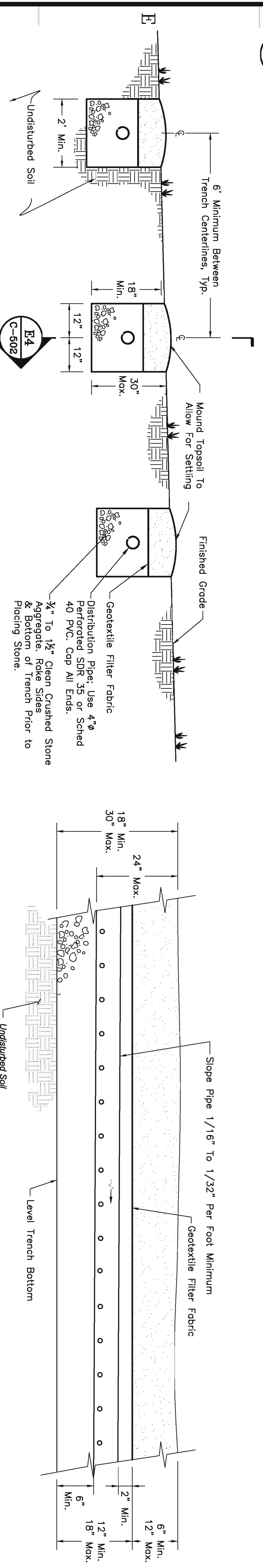
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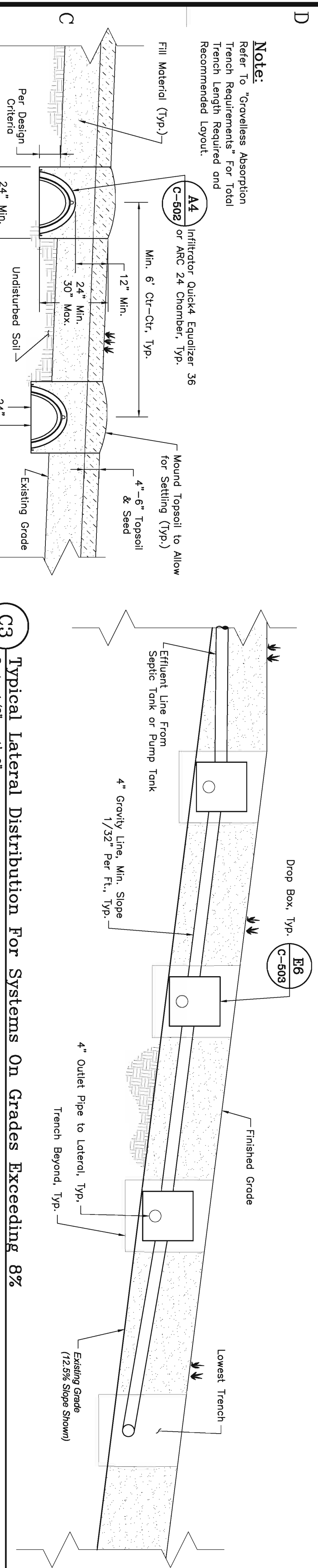
32' Min. (See Note)



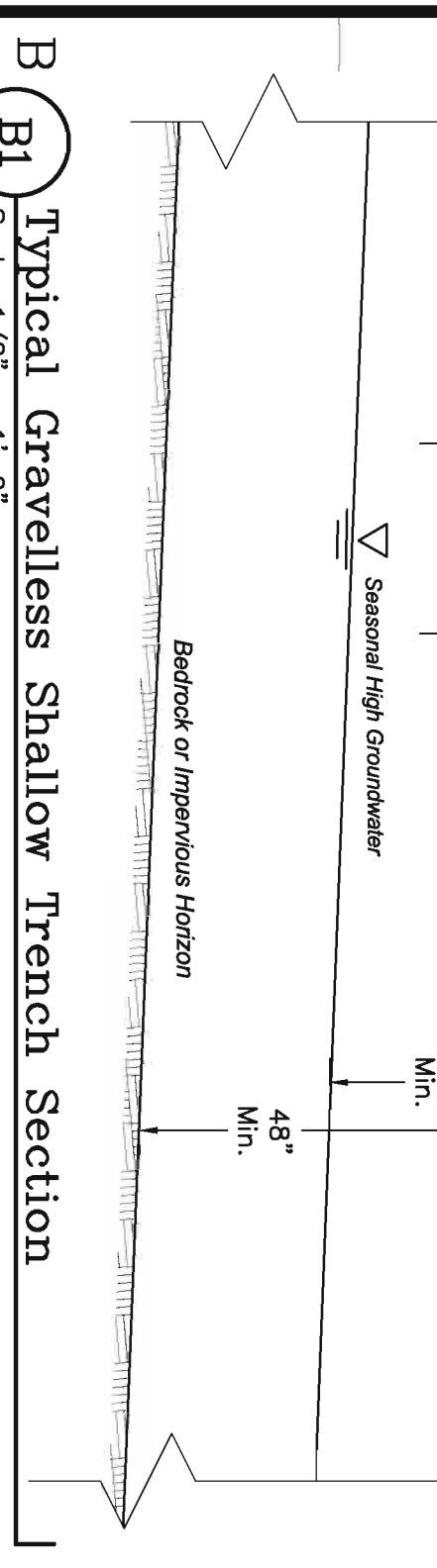
F1 Typical Shallow Trench Absorption System Section
Scale: 1/2" = 1'-0"



E1 Typical Standard Trench Absorption System Section
Scale: 1/2" = 1'-0"

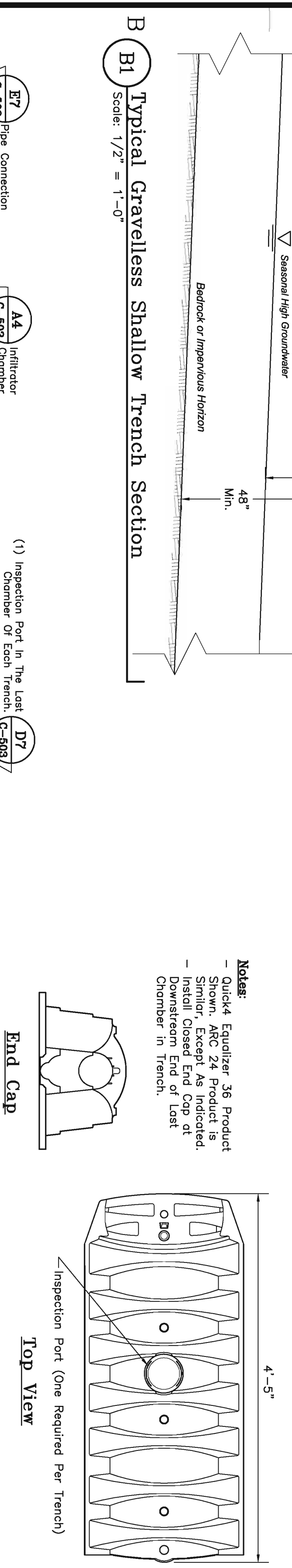


E4 Typical Trench Section
Scale: 1/2" = 1'-0"



B1 Typical Gravelless Shallow Trench Section
Scale: 1/2" = 1'-0"

C3 Typical Lateral Distribution For Systems On Grades Exceeding 8%
Scale: 1/2" = 1'-0"



Notes:
- Quick4 Equalizer 36 Product is Shown, ARC 24 Product is Similar, Except As Indicated.
- Downstream End of Last Chamber in Trench.

Note:
Section Shown For System With 4 Trenches. Refer to "Absorption Trench Requirements" For Total Trench Length Required and Recommended Layout.

Site Preparation & Construction Notes

Construction Techniques Must Not Compromise Integrity of the System. Heavy Construction Equipment is Not Allowed Within the Area of the System.
All Trees, Stumps, and Other Vegetation Within the Area Shall Be Cut At Grade and Removed. Root Structure Below Grade Should Not Be Removed. Boulders and Other Obstructions Above Grade Shall Also Be Removed. The Underlying Soil Shall Be Undisturbed - Retooling Or Soil Sacrification With Construction Equipment is NOT Recommended.
For Standard Trench Installation, After Staking Locations, Excavate Trenches To Design Depth With Bottoms Level. Grade Trench Bottoms By Hand, Rake Bottoms and Sidelwalls and Place At Least 6" of Aggregate in Trenches. Complete Trench Construction as Shown in the Details. After Backfilling and Allowing for Settlement, Seed Area for Grass.
Fill Soil For Shallow Trench Systems Shall Have a Percolation Rate Similar To, But Not Faster Than, That Of the Existing Usable Soil. Use the Design Percolation Rate Provided in the "Absorption System Design Criteria" Table For Guidance. Provide a Sandy Loam Soil, With No Rocks, Cobbles or Other Unusable Materials. Verify the Compatability Of Fill Material Permeability With That of the Existing Usable Soil Through In Situ (at the Borrow Site) Perc Test Results for the Fill.
Place Fill On Site Immediately After Site Preparation. Grade Slopes May Be Used To Define the Limits of Fill and Present Over-Exposed Areas. Place Fill in Shallow Lifts and Material Shall Be Carefully Piled Within the Absorption Area. Place Fill in Shallow Lifts and Material Shall Be Approximately the Same Density as the Undisturbed Below, toger the Edges From at Least Six (6) Feet Beyond Any Trench to Original Grade as Shown in the Drawings. Construct a Diversion Ditch or Swale, and a Curtain Drain, on the Upland Side of the Fill Material. Finish Site Grading to Prevent Surface Runoff From Entering the Fill. Material. Finish System in the Fill Material and in Existing in situ Soil as Shown. Note that Trench Bottoms Must Be Level and a Minimum of 2 Above Observed Seasonal High Ground Water and/or 4 Above ImperVIOUS/Restrictive Soil Horizon. Upon Completion, Seed Fill and Disturbed Areas for Grass.

Absorption Trench Requirements

Design Rate (min/in)	Number of Bedrooms			
	1-2	3	4	5
3-5	92 LF	2 @ 50 LF	138 LF	184 LF
6-7	110 LF	2 @ 55 LF	165 LF	220 LF
8-10	129 LF	3 @ 50 LF	184 LF	245 LF
11-15	148 LF	3 @ 55 LF	215 LF	285 LF
16-20	168 LF	4 @ 50 LF	236 LF	315 LF
21-30	184 LF	4 @ 55 LF	275 LF	367 LF
31-45	220 LF	4 @ 55 LF	330 LF	440 LF

Gravelless System Trenches

Design Rate (min/in)	Number of Bedrooms			
	1-2	3	4	5
3-5	69 LF	2 @ 35 LF	104 LF	138 LF
6-7	83 LF	2 @ 45 LF	124 LF	165 LF
8-10	93 LF	2 @ 50 LF	138 LF	184 LF
11-15	104 LF	2 @ 55 LF	156 LF	207 LF
16-20	138 LF	3 @ 50 LF	207 LF	276 LF
31-45	185 LF	3 @ 55 LF	248 LF	330 LF

Notes:
- Recommended Layouts are Based On Gravity-Dosed Systems Where No Trench May Be Longer Than 60 LF.
- For Pump Dosed Systems, Maximum Trench Length Permitted is 100 LF.
- Recommended Layouts For Gravelless Trenches are Based On Gravity-Dosed Systems and Effective Chamber Lengths of 5 Ft. Each.

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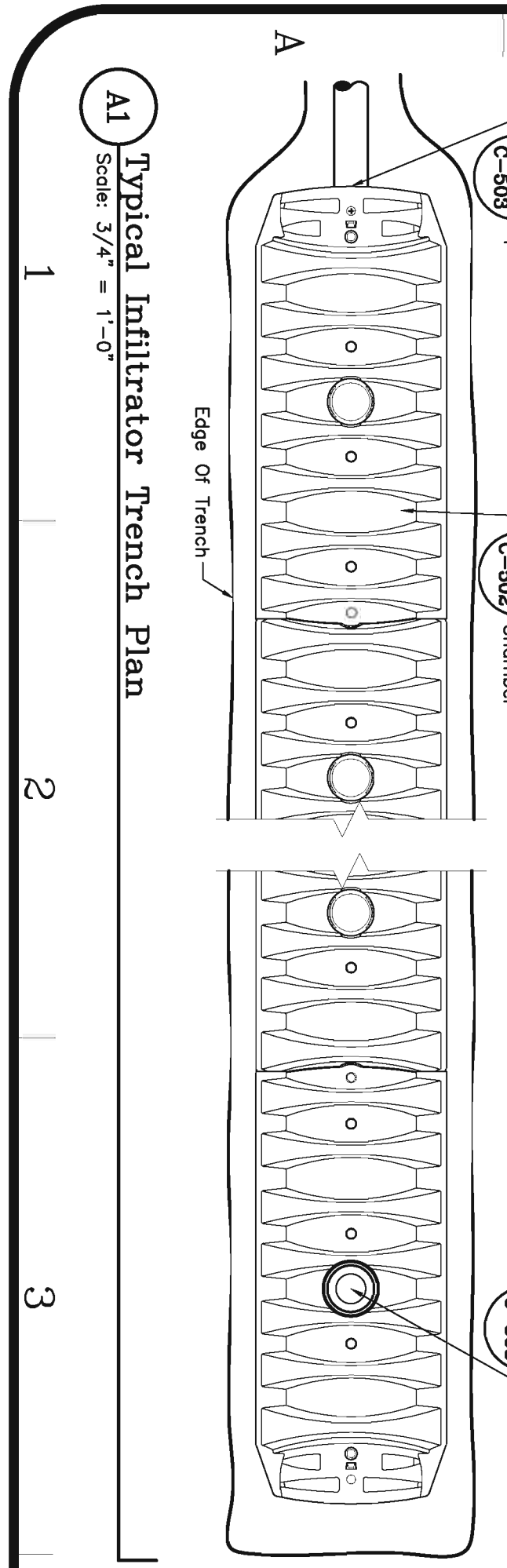
Woodward Lake Properties, LLC
Woodward Lake Subdivision
Towns of Northampton & Mayfield
Fulton County, NY

Construction Drawing
Agency Review Drawing
Drawing Log
Date: 01/24/20
DWG: 01/24/20

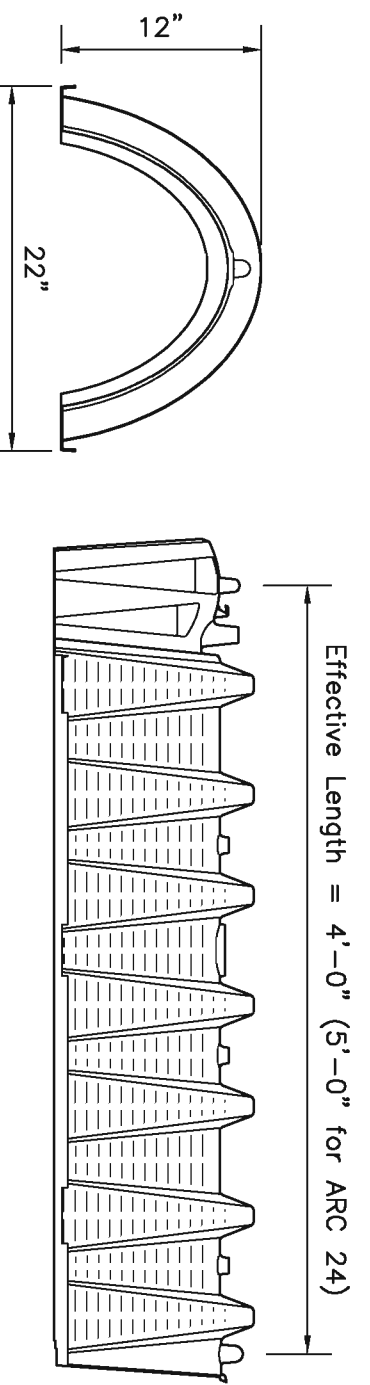
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01/24/20

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Absorption Trench
Requirements, Sections,
Details & Specifications

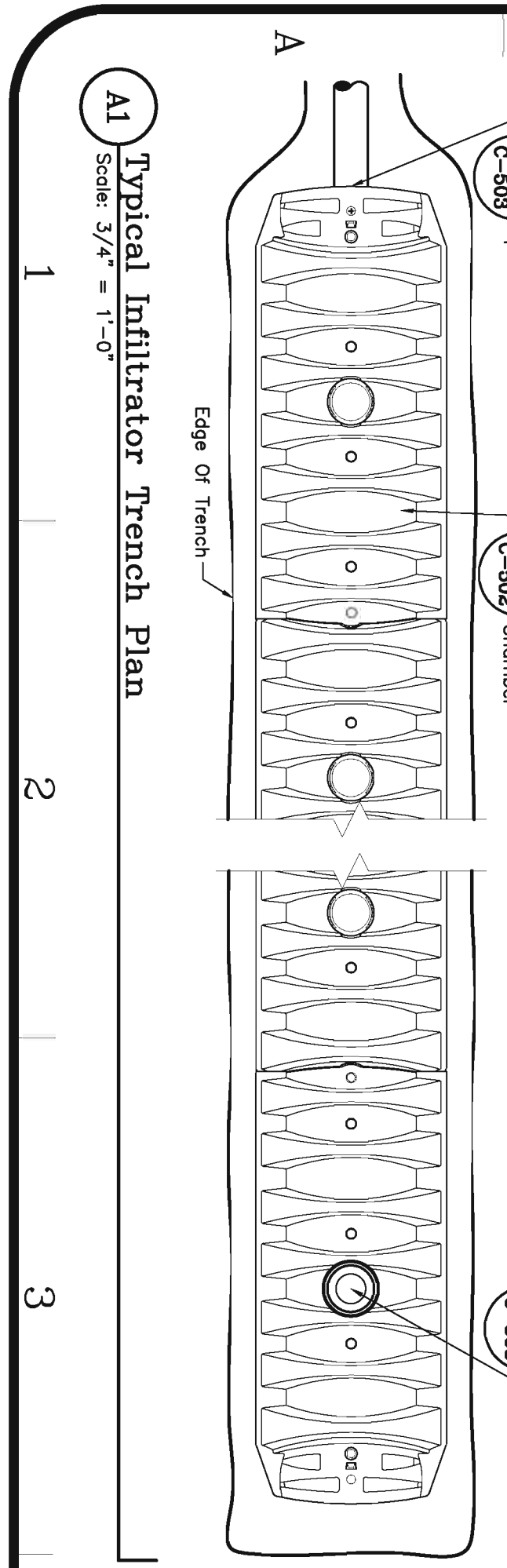
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A1 Typical Infiltrator Trench Plan
Scale: 3/4" = 1'-0"



A4 Infiltrator Chamber Details
Scale: 1" = 1'-0"



B1 Typical Gravelless Shallow Trench Section
Scale: 1/2" = 1'-0"

C3 Typical Lateral Distribution For Systems On Grades Exceeding 8%
Scale: 1/2" = 1'-0"

E4 Typical Trench Section
Scale: 1/2" = 1'-0"

E1 Typical Standard Trench Absorption System Section
Scale: 1/2" = 1'-0"

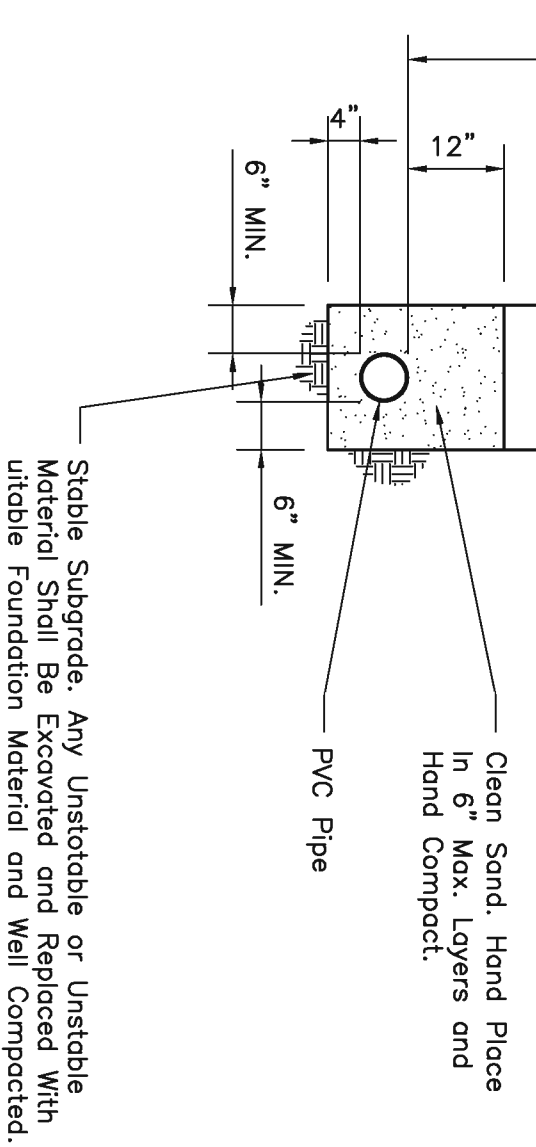
F1 Typical Shallow Trench Absorption System Section
Scale: 1/2" = 1'-0"

NOTE:

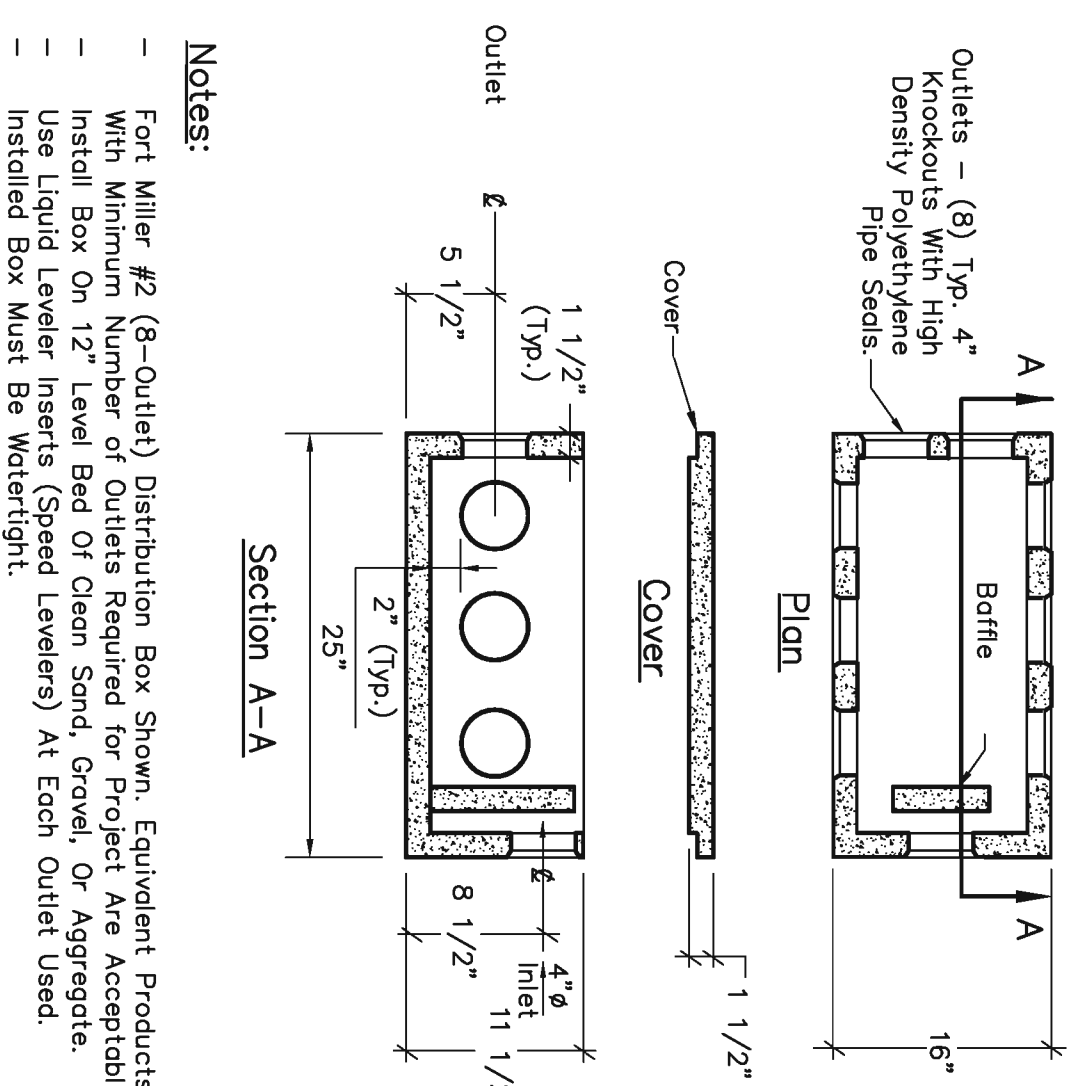
Contractor Responsible For Trench Support Material To Be Removed In Such A Manner That Above Pipe Will Be Compacted Against Undisturbed Earth.

Seal, Restore Any Disturbed Pavements With Suitable Subbase Material and Patch Pavement.

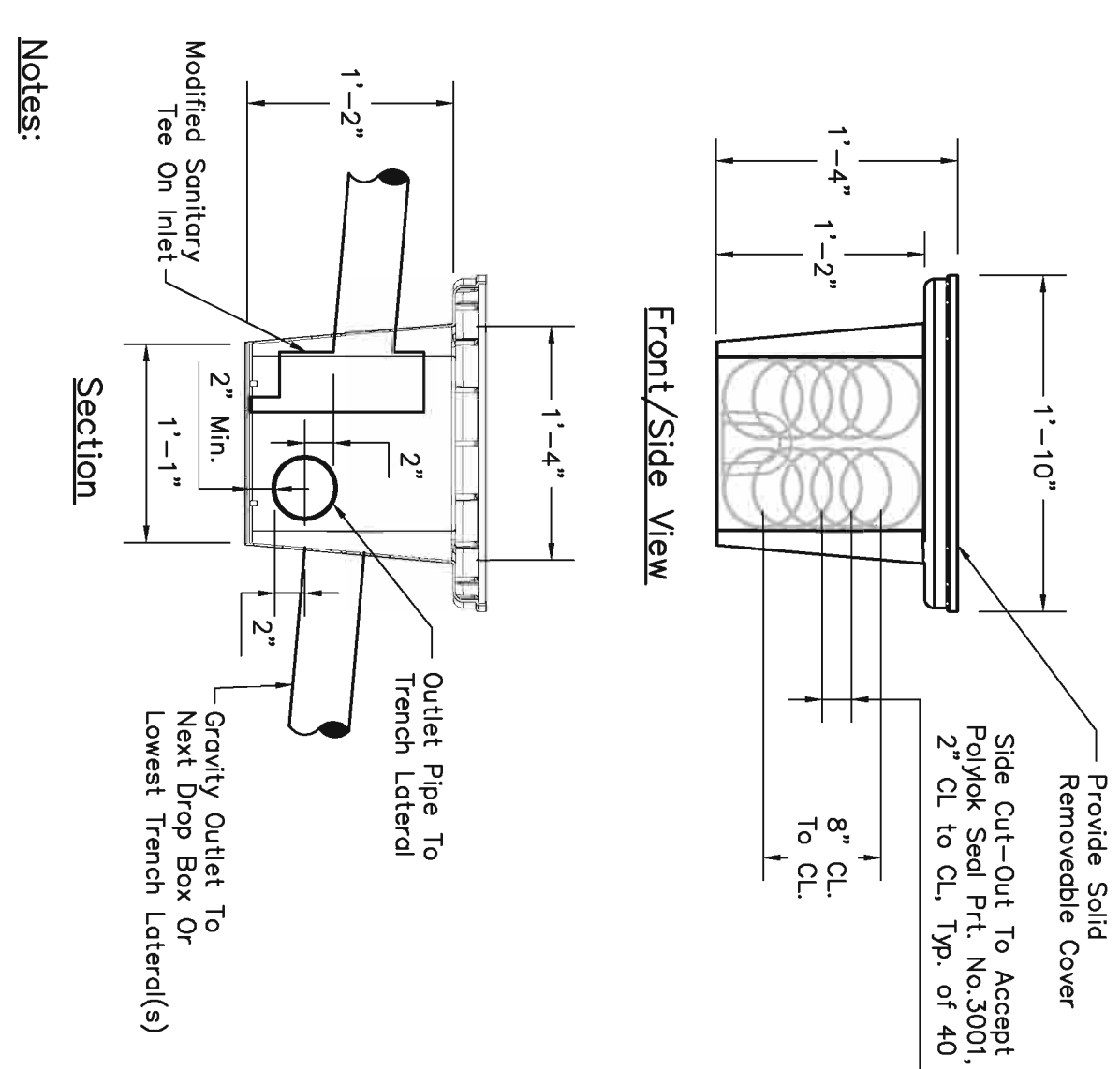
Backfill Placed In 8" Layers and Compacted To 92% Density. No Boulders Or Stones Larger Than 6" Permitted.



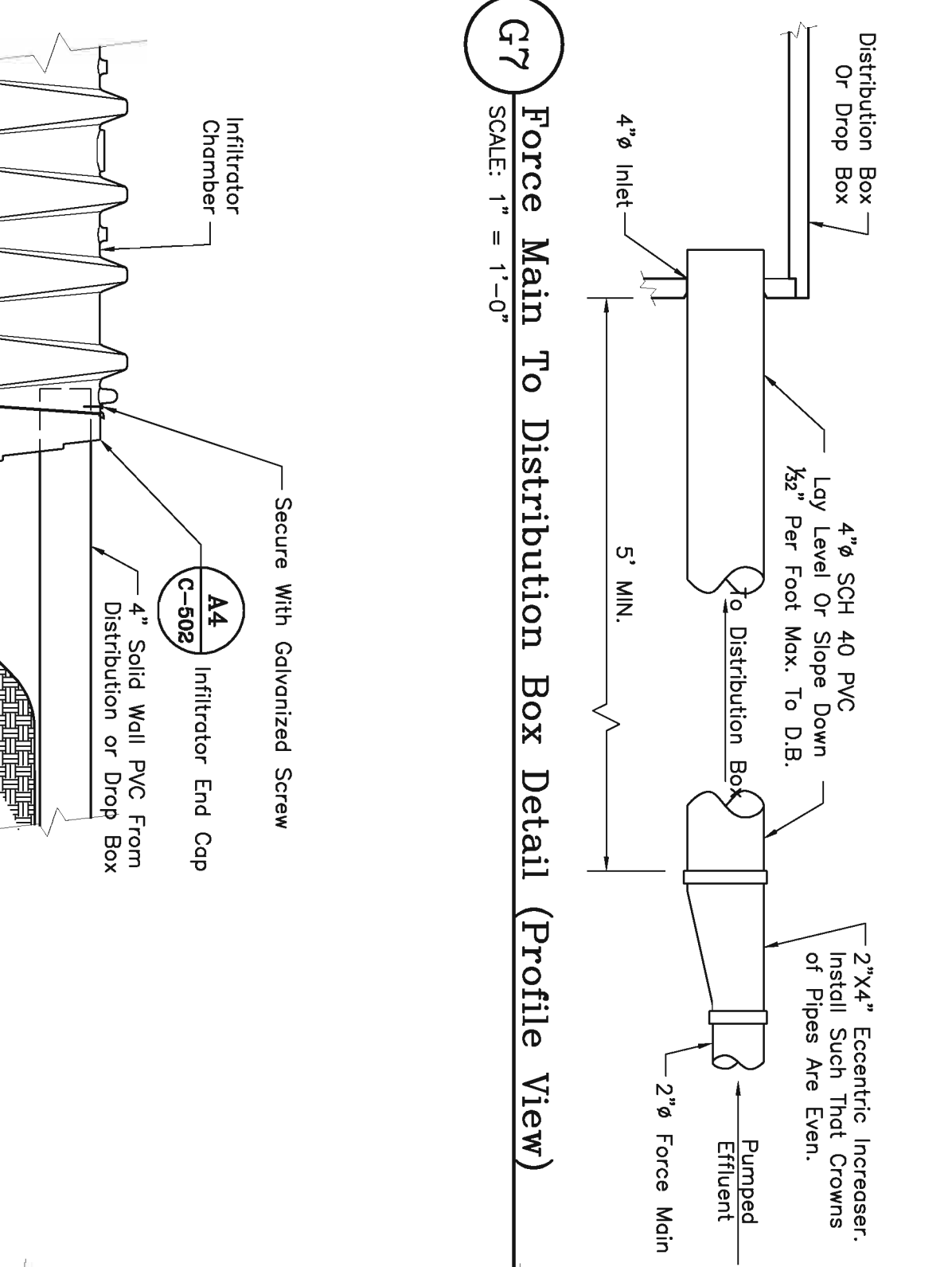
A7 Typical Sewage Line Trench Detail
Scale: 1/2" = 1'-0"



F4 Distribution Box Detail
Scale: 1" = 1'-0"



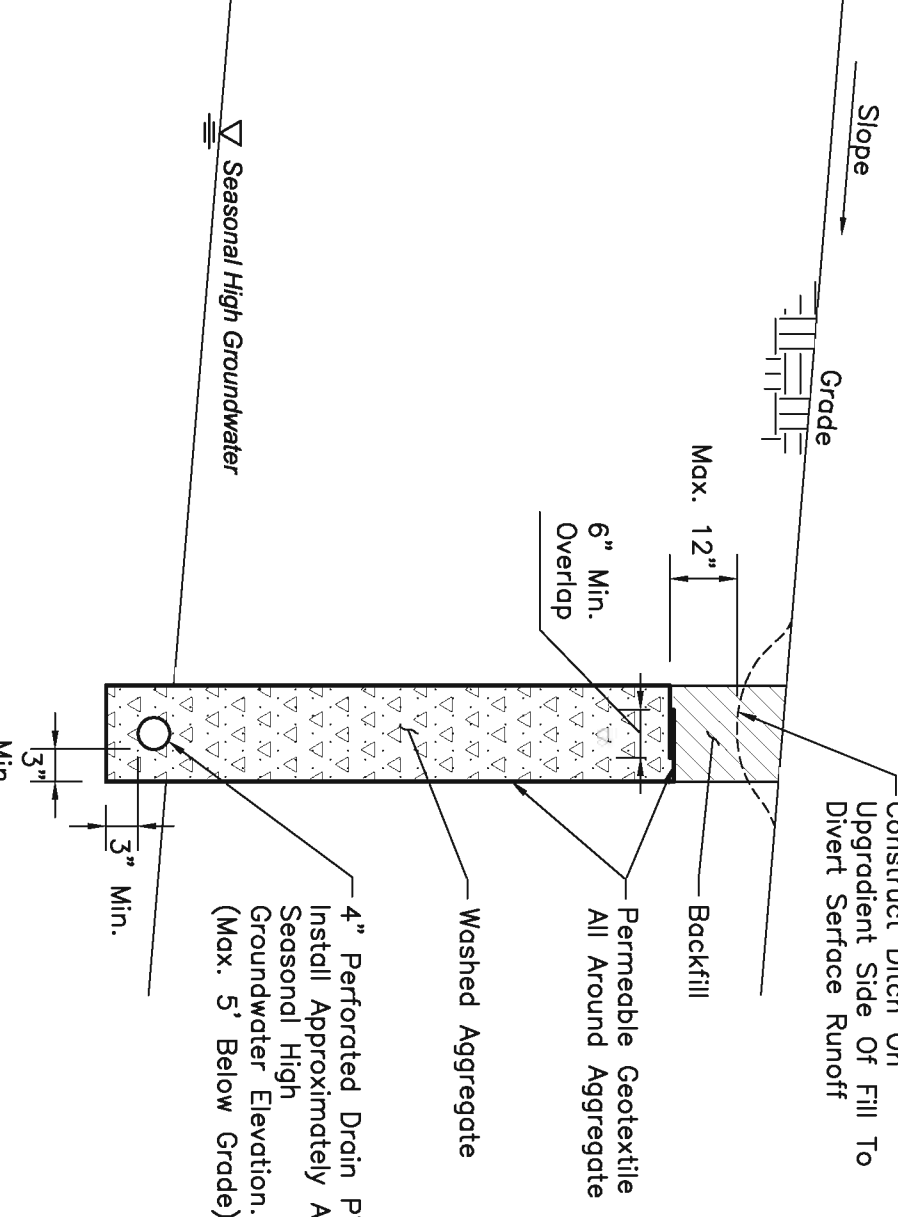
E6 Drop Box Detail
Scale: 1" = 1'-0"



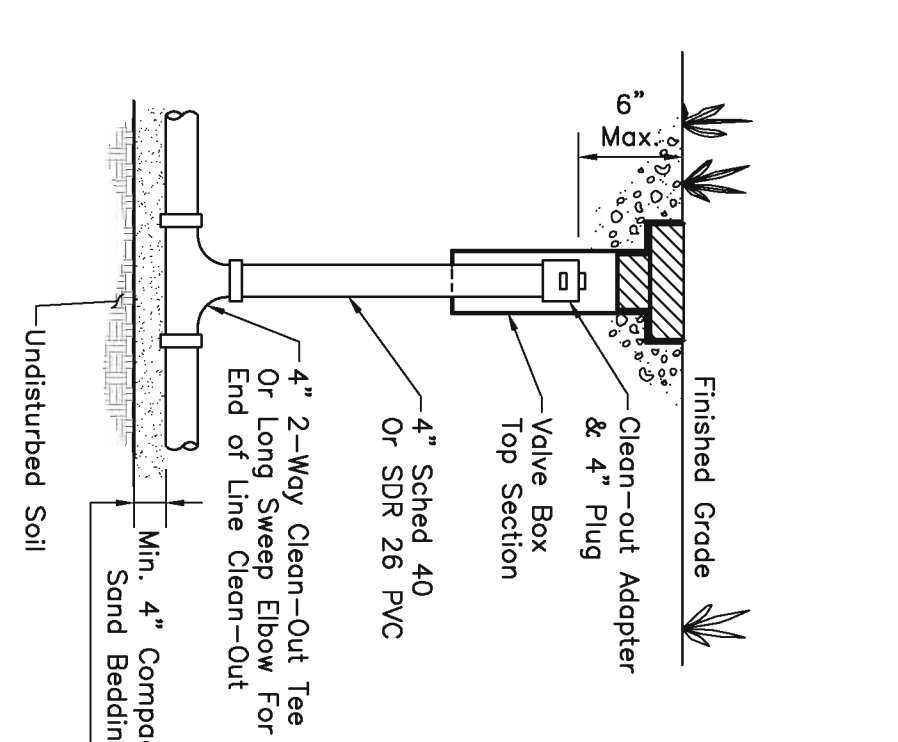
G7 Force Main To Distribution Box Detail (Profile View)
Scale: 1" = 1'-0"

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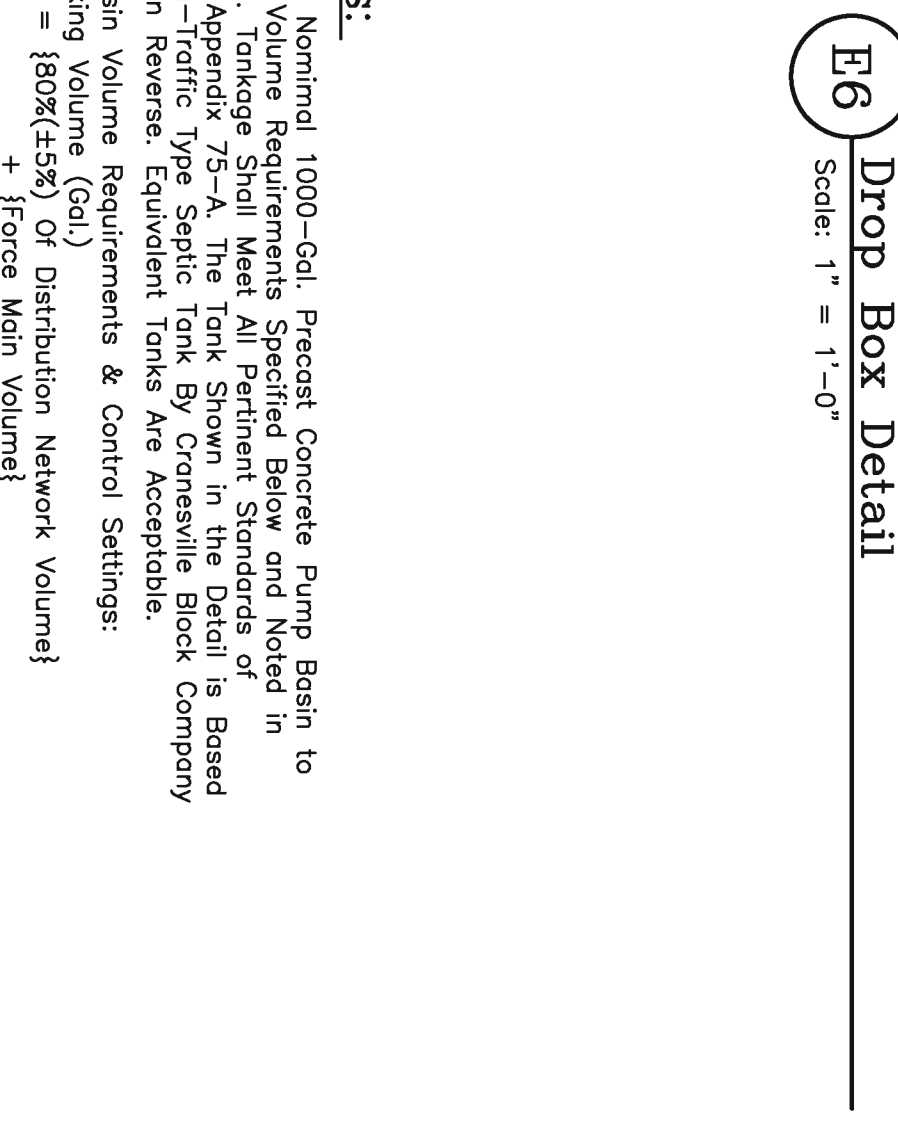
Woodward Lake Properties, LLC
Woodward Lake Subdivision
Towns of Northampton & Mayfield
Fulton County, NY



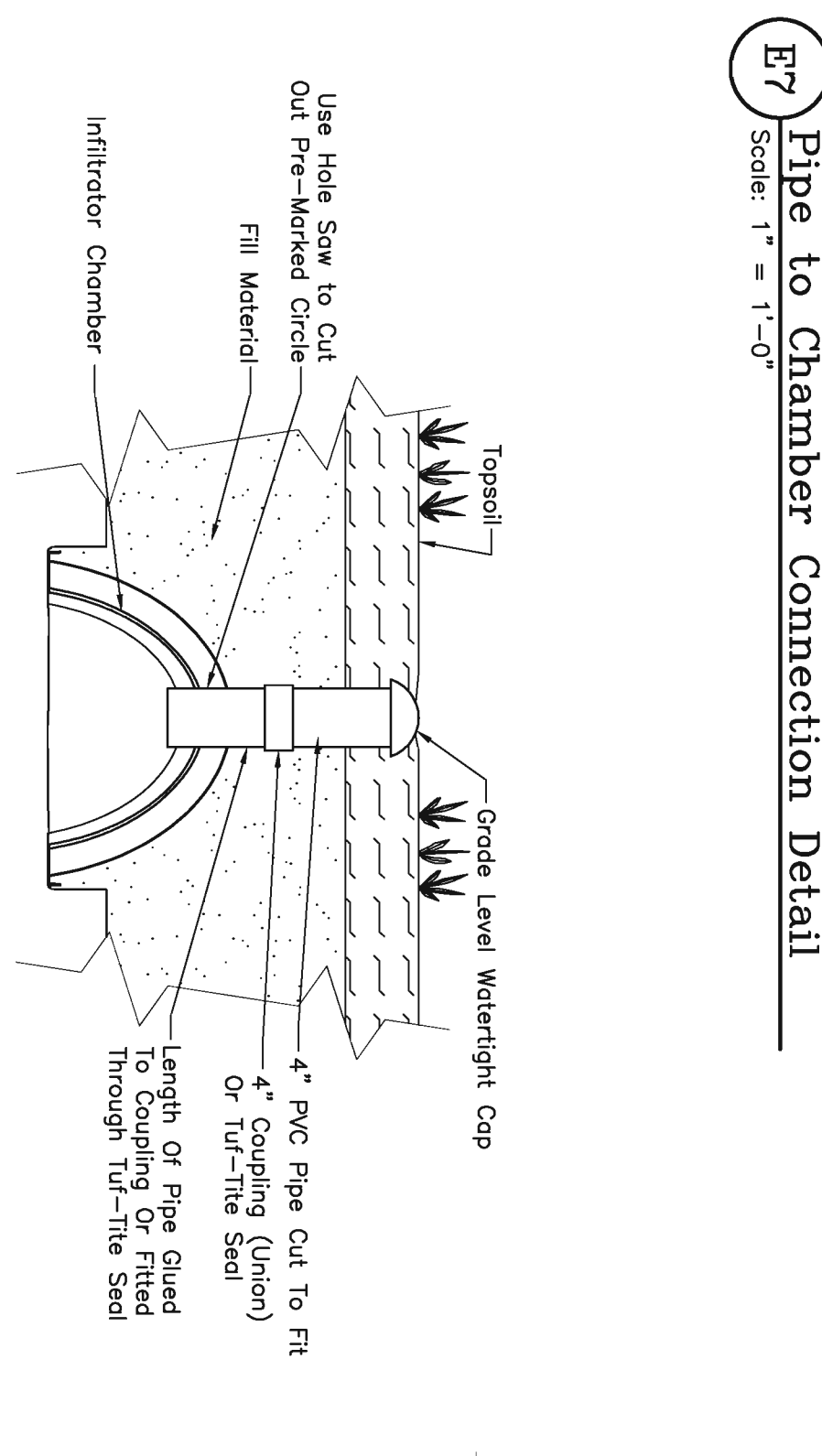
D1 Typical Curtain Drain Detail
Not To Scale



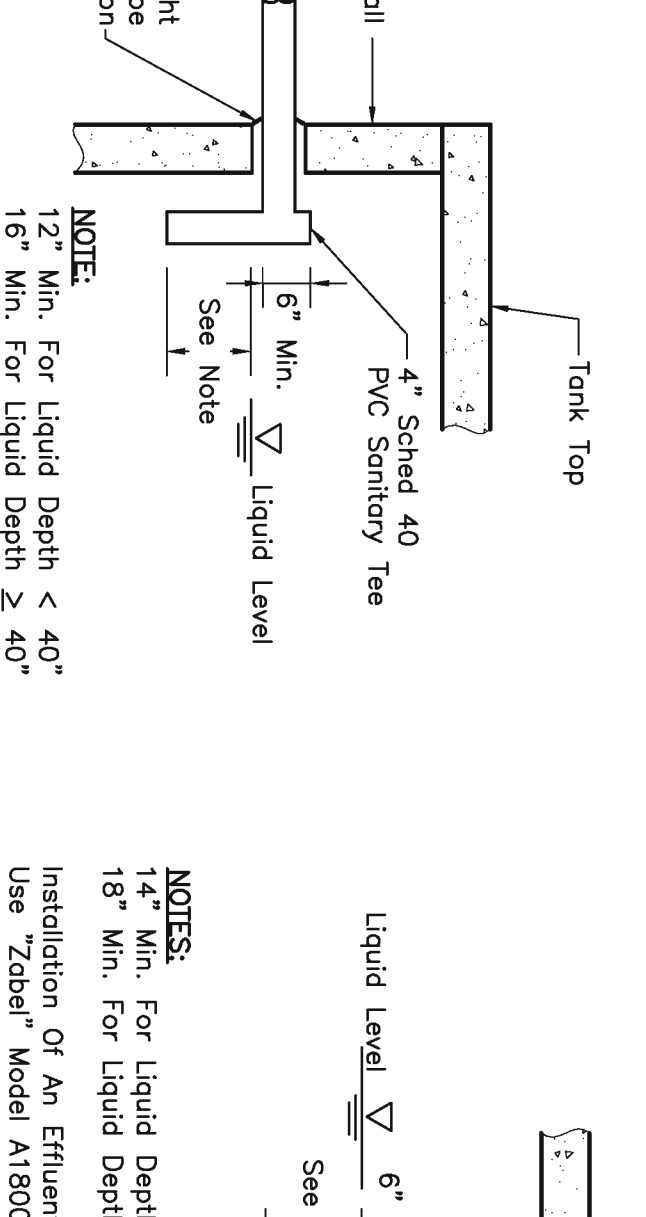
D4 Cleanout Detail
Not To Scale



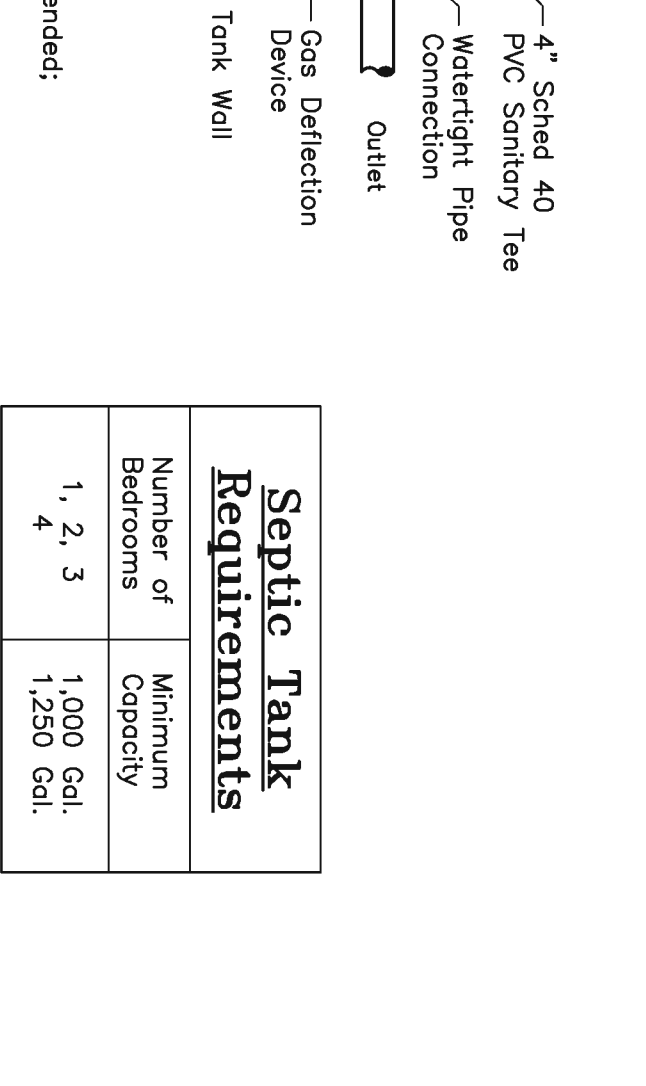
E7 Pipe to Chamber Connection Detail
Scale: 1" = 1'-0"



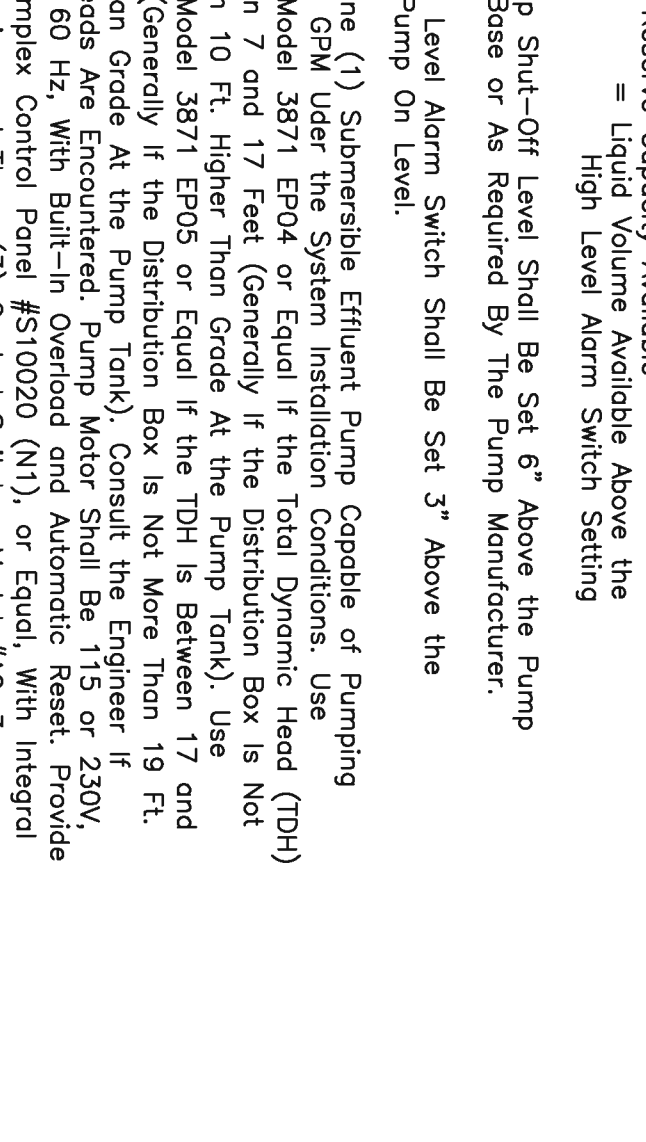
D7 Infiltrator Trench Inspection Port Detail
Scale: 1" = 1'-0"



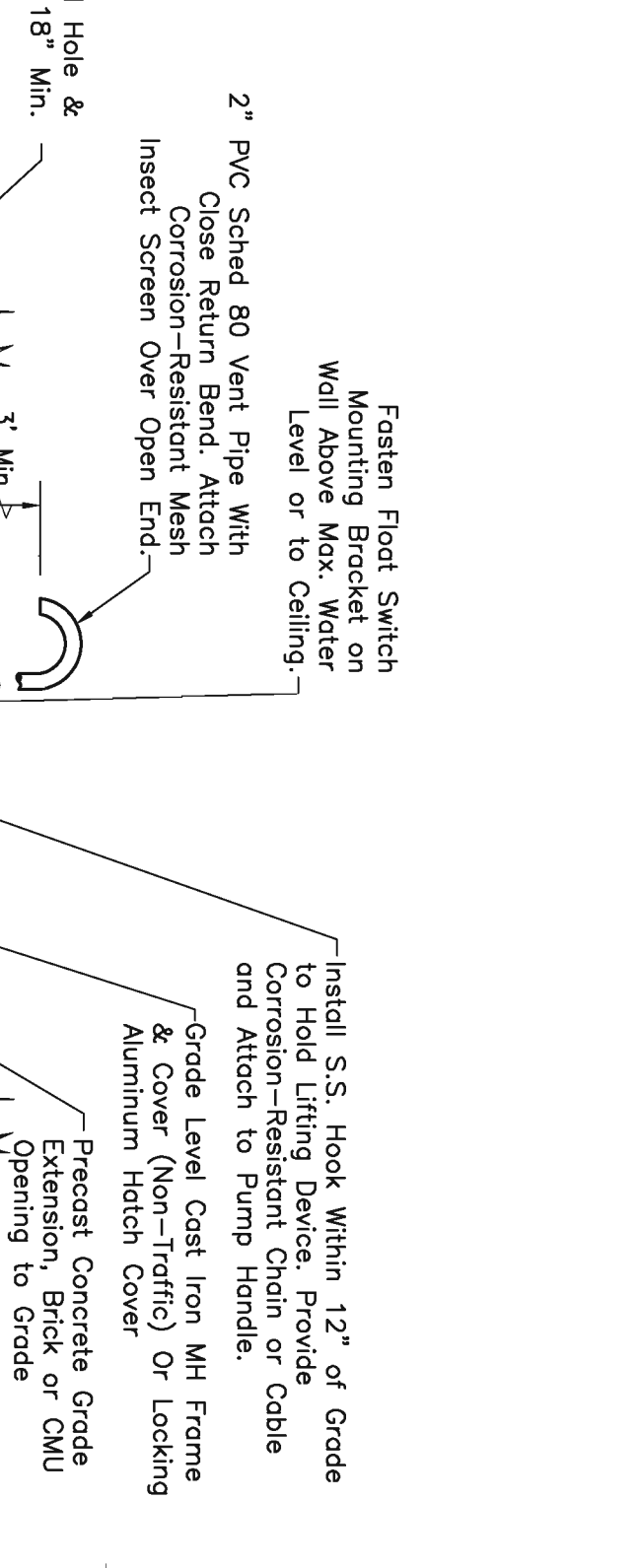
C1 Inlet Tee Detail
Not To Scale



C2 Outlet Tee Detail
Not To Scale



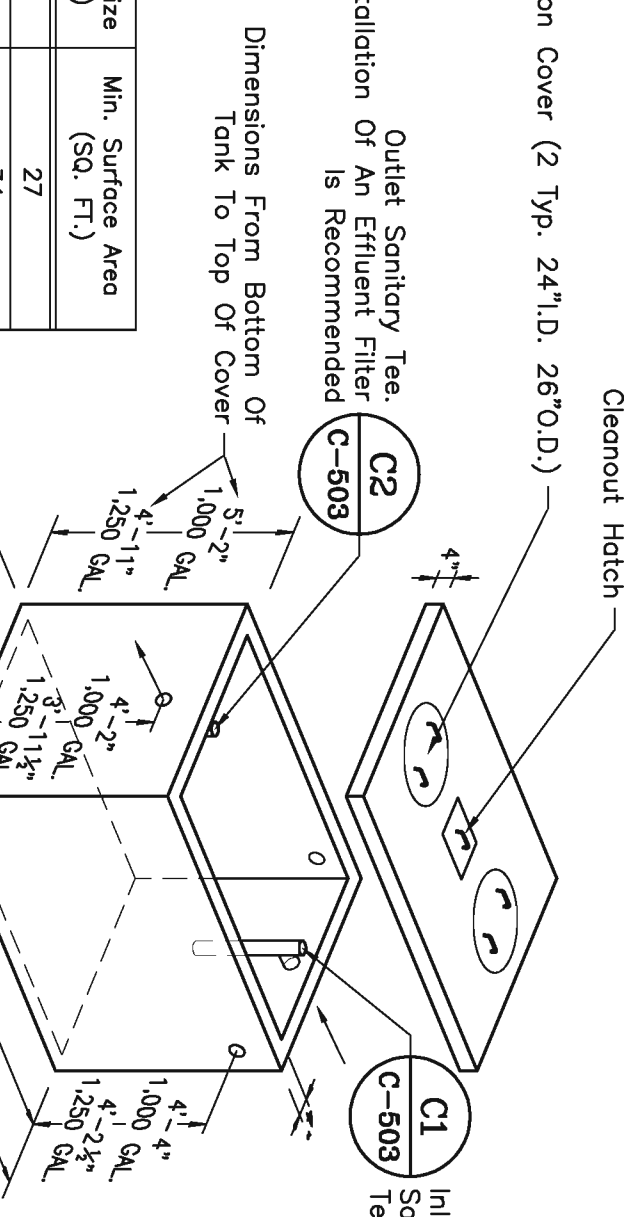
D3 Cleanout Hatch
Not To Scale



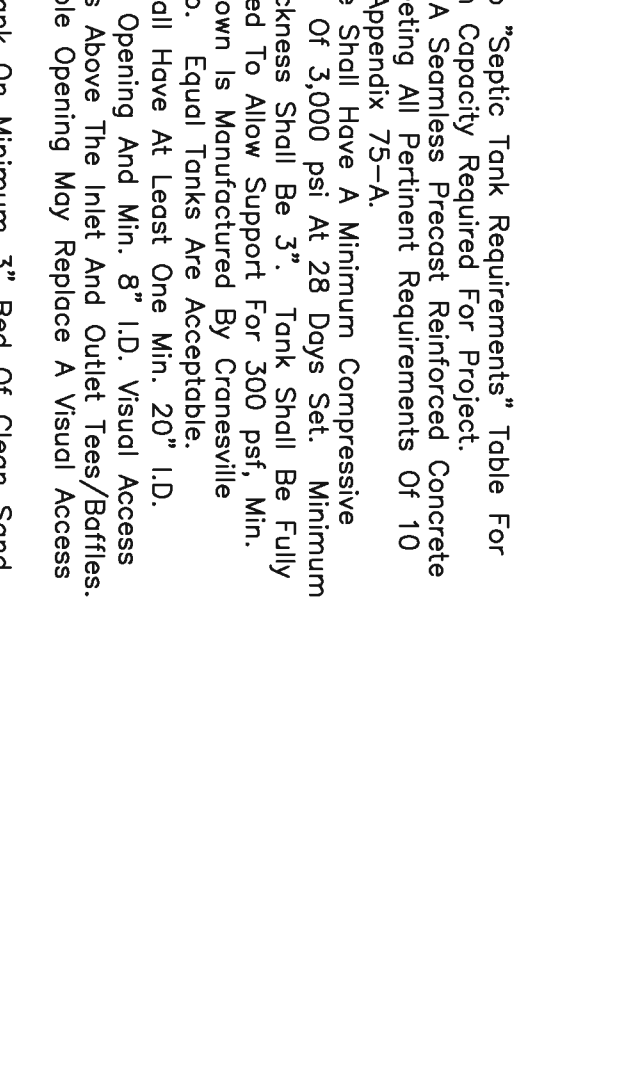
D5 Pump Tank Detail
Not To Scale

No.	Description	Rev./Date
1	Construction Drawing	01/24/20
2	Agency Review Drawing	01/29/20
3	Final Drawing	01/29/20

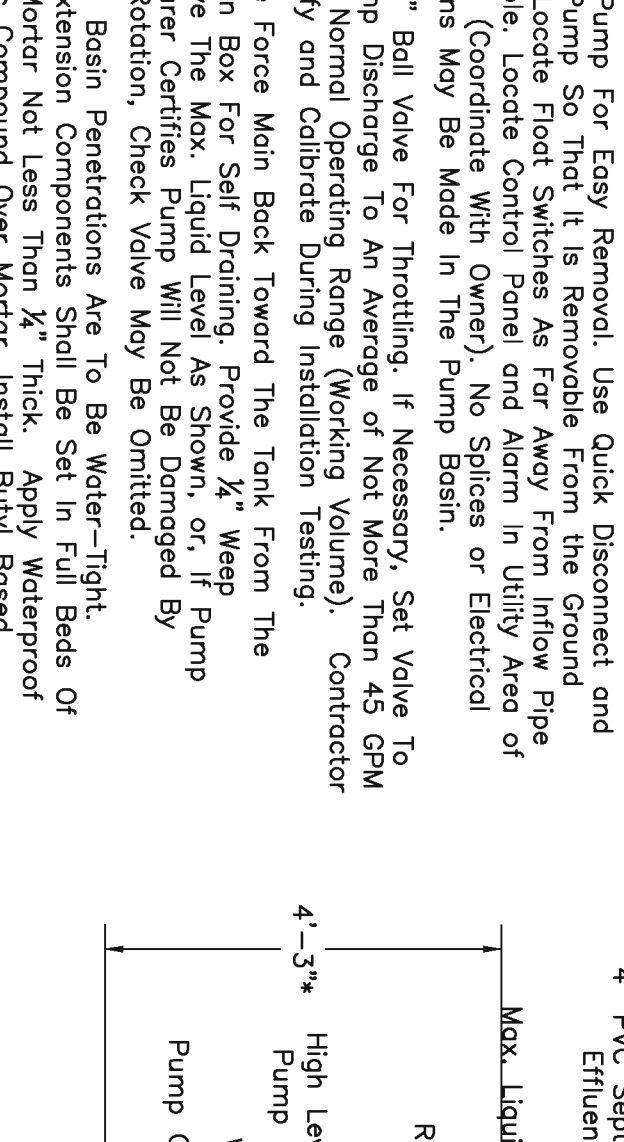
Drawn: BCT
By: BCT



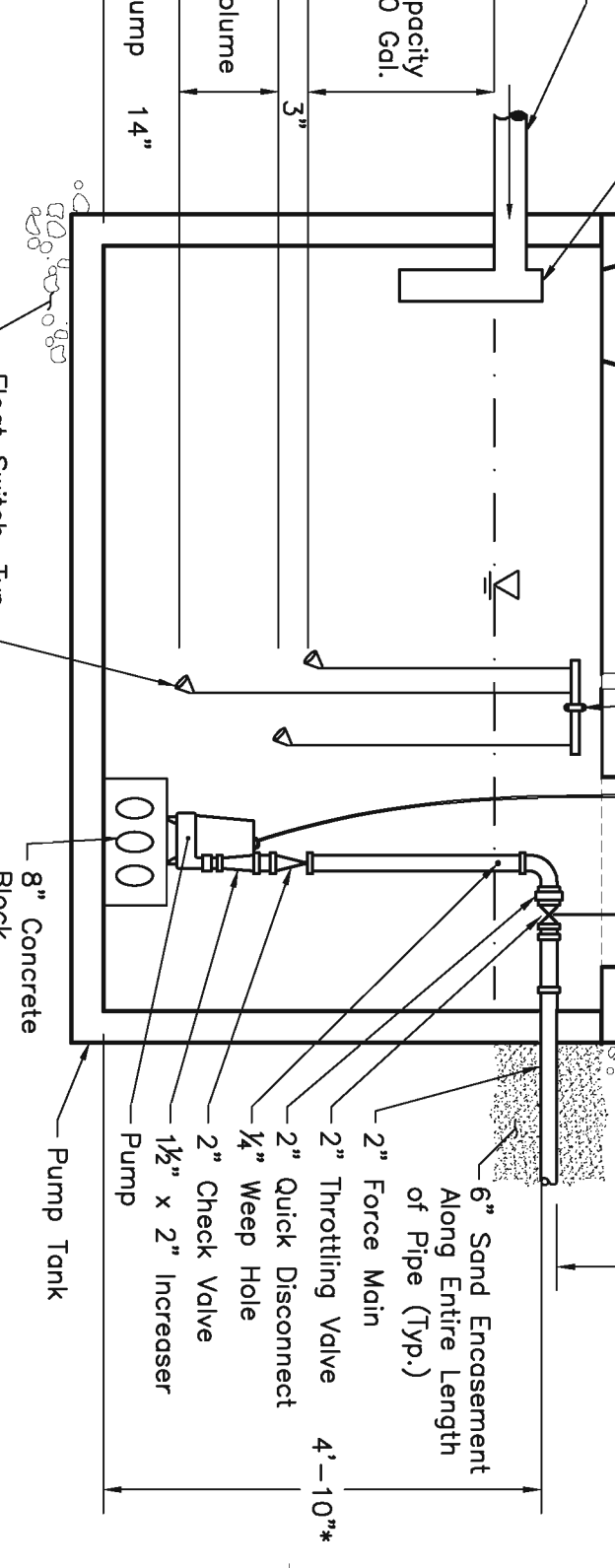
A1 Septic Tank Detail
Scale: 1/4" = 1'-0"



A5 Typical Pump Tank Detail
Scale: 1/2" = 1'-0"



A7 Typical Sewage Line Trench Detail
Scale: 1/2" = 1'-0"



A9 Septic Tank Requirements
Not To Scale

PRELIMINARY
01/24/20

It is a violation for any person to alter, modify, or change in any way the direction of an appropriately sealed permit.

SHEET NAME:
Onsite Wastewater System
Septic Tank, Pump Tank,
& Miscellaneous Details

PAGE:
C-506