PROPOSED 11 LOT RESUBDIVISION

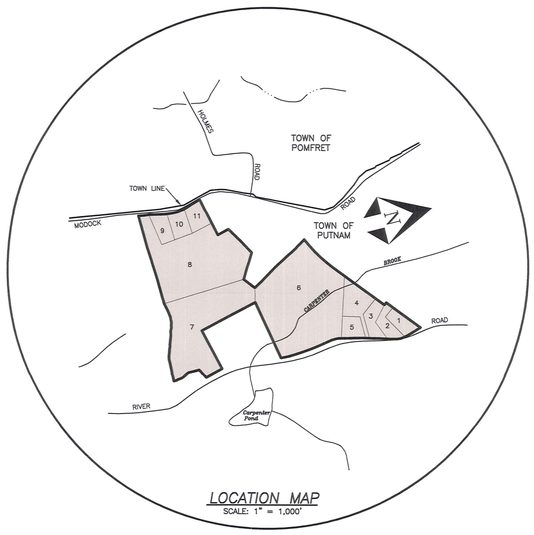
RIVER ROAD & MODOCK ROAD
PUTNAM, CONNECTICUT

OWNER & APPLICANT:

PUTNAM RIVER ROAD, L.L.C. & 285 RIVER ROAD, LLC
P.O. BOX 271
PUTNAM, CT 06260

LEGEND

- IRON PIN OR PIPE RECOVERED
- MONUMENT RECOVERED
- IRON PIN TO BE SET
- WETLAND FLAG
- UTILITY POLE
- EXISTING MANHOLE
- EXISTING SIGN
- TEST PIT
- PERCOLATION TEST
- EXISTING WELL
- STONE WALL
- EXISTING CONTOUR
- EXISTING INDEX CONTOUR
- OVERHEAD WIRES
- EXISTING TREE LINE
- PROPOSED CONTOUR
- PROPOSED POND CONTOUR
- TEMPORARY EXCAVATION CONTOUR
- PROPOSED SILT FENCE
- PROPOSED CLEARING LIMITS
- LIMIT OF 100 YEAR FLOOD
- BUILDING SETBACK LINE
- PROPOSED U.G. UTILITIES



LOCATION MAP
SCALE: 1" = 1,000'

INDEX TO DRAWINGS

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EXCAVATION PLAN No. 1 & 2	10–11 OF 17
EXCAVATION CROSS SECTIONS	12–15 OF 17
DETAIL SHEET 1 & 2	16–17 OF 17

PREPARED BY:

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Structural • Mechanical • Architectural Engineering
57 East Main Street, P.O. Box 191
Plainfield, Connecticut 06374
(860) 230-0856 - FAX: (860) 230-0860
info@prorovinc.com
www.prorovinc.com

REVISIONS	
DATE	DESCRIPTION
7/29/2022	MISC. REVISIONS

JUNE 29, 2022

FINAL APPROVAL BY THE TOWN OF PUTNAM PLANNING COMMISSION

CHAIRMAN / SECRETARY DATE

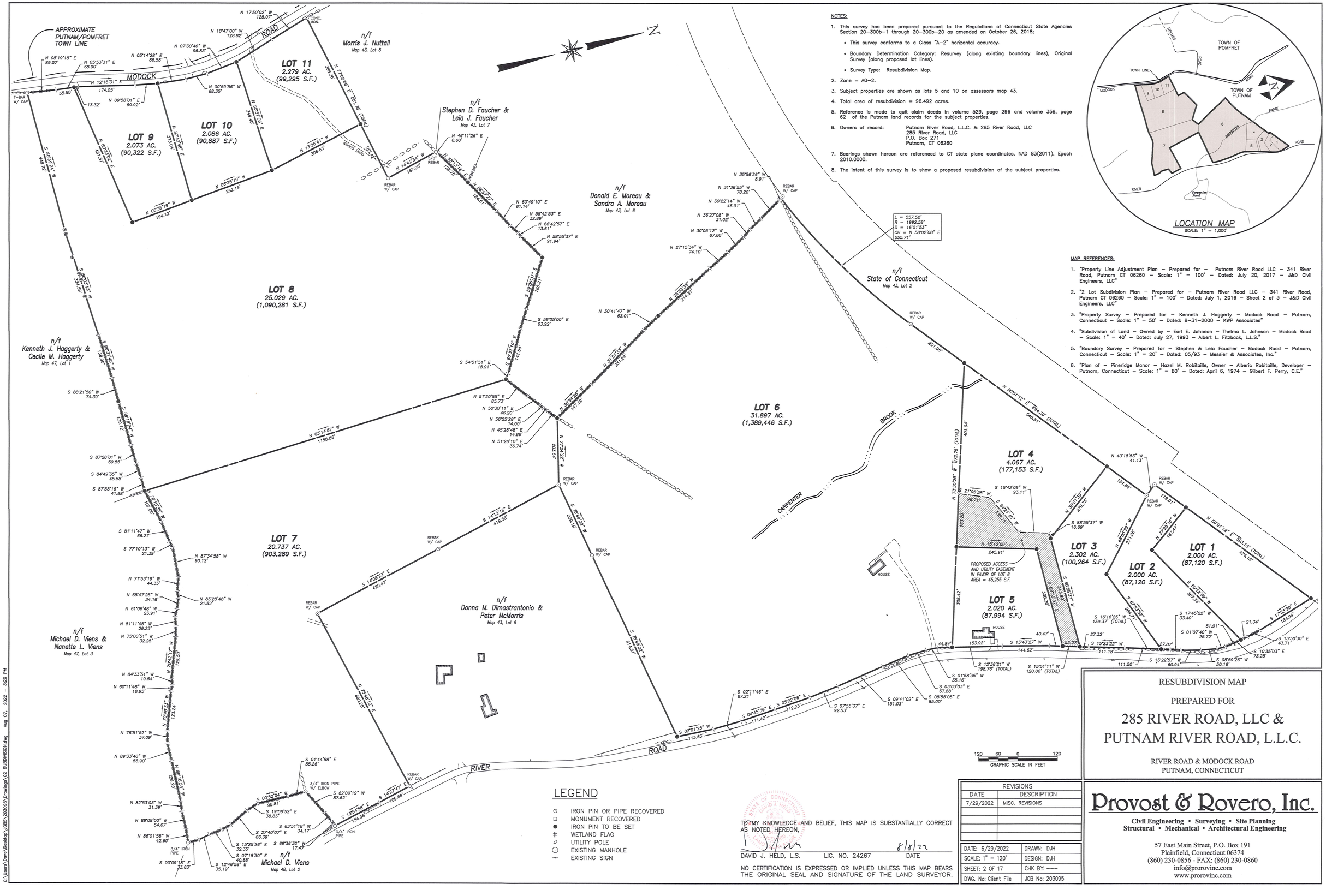
APPROVED BY THE TOWN OF PUTNAM INLAND WETLAND AND WATER COURSES COMMISSION

CHAIRMAN / SECRETARY DATE

STATE OF CONNECTICUT · DAVID J. HELY · NO. 24267 · LICENSED PROFESSIONAL ENGINEER

8/8/22
ENGINEER DATE

C:\Users\Dave\Desktop\x\2085\203095\Drawings\01 COVER.dwg Aug 07, 2022 - 3:19 PM



NOTES:

1. This survey has been prepared pursuant to the Regulations of Connecticut State Agencies Section 20–300b–1 through 20–300b–20 as amended on October 26, 2018;
   - This survey conforms to a Class "A–2" horizontal accuracy.
   - Boundary Determination Category: Resurvey (along existing boundary lines), Original Survey (along proposed lot lines).
   - Survey Type: Resubdivision Map.
2. Zone = AG–2.
3. Subject properties are shown as lots 5 and 10 on assessors map 43.
4. Total area of resubdivision = 96.492 acres.
5. Reference is made to quit claim deeds in volume 529, page 296 and volume 358, page 62 of the Putnam land records for the subject properties.
6. Owners of record: Putnam River Road, L.L.C. & 285 River Road, LLC
   285 River Road, LLC
   P.O. Box 271
   Putnam, CT 06260
7. Bearings shown hereon are referenced to CT state plane coordinates, NAD 83(2011), Epoch 2010.0000.
8. The intent of this survey is to show a proposed resubdivision of the subject properties.

MAP REFERENCES:

1. "Property Line Adjustment Plan – Prepared for – Putnam River Road LLC – 341 River Road, Putnam CT 06260 – Scale: 1" = 100' – Dated: July 20, 2017 – J&D Civil Engineers, LLC"
2. "2 Lot Subdivision Plan – Prepared for – Putnam River Road LLC – 341 River Road, Putnam CT 06260 – Scale: 1" = 100' – Dated: July 1, 2016 – Sheet 2 of 3 – J&D Civil Engineers, LLC"
3. "Property Survey – Prepared for – Kenneth J. Haggerty – Modock Road – Putnam, Connecticut – Scale: 1" = 50' – Dated: 8–31–2000 – KWP Associates"
4. "Subdivision of Land – Owned by – Earl E. Johnson – Thelma L. Johnson – Modock Road – Scale: 1" = 40' – Dated: July 27, 1993 – Albert L. Fitzback, L.L.S."
5. "Boundary Survey – Prepared for – Stephen & Leia Faucher – Modock Road – Putnam, Connecticut – Scale: 1" = 20' – Dated: 05/93 – Messier & Associates, Inc."
6. "Plan of – Pineridge Manor – Hazel M. Robitaille, Owner – Alberic Robitaille, Developer – Putnam, Connecticut – Scale: 1" = 80' – Dated: April 6, 1974 – Gilbert F. Perry, C.E."

LEGEND

- ○ IRON PIN OR PIPE RECOVERED
- □ MONUMENT RECOVERED
- ● IRON PIN TO BE SET
- # WETLAND FLAG
- ⌑ UTILITY POLE
- ◯ EXISTING MANHOLE
- ⊢ EXISTING SIGN

STATE OF CONNECTICUT · DAVID J. HELD · LICENSED LAND SURVEYOR

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

DAVID J. HELD, L.S. LIC. NO. 24267 8/8/22 DATE

NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS THE ORIGINAL SEAL AND SIGNATURE OF THE LAND SURVEYOR.

RESUBDIVISION MAP

PREPARED FOR

285 RIVER ROAD, LLC &
PUTNAM RIVER ROAD, L.L.C.

RIVER ROAD & MODOCK ROAD
PUTNAM, CONNECTICUT

REVISIONS	
DATE	DESCRIPTION
7/29/2022	MISC. REVISIONS

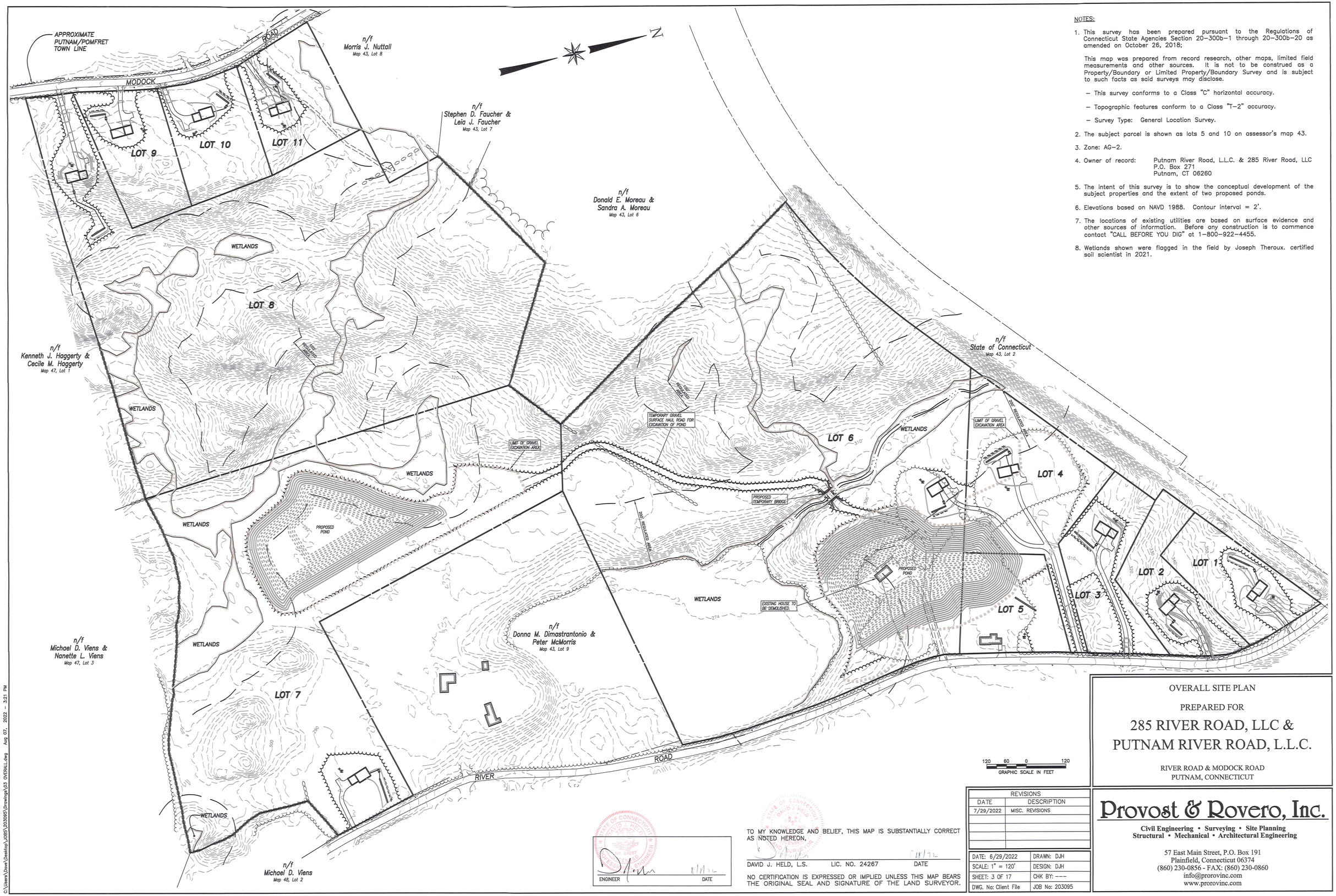
DATE: 6/29/2022	DRAWN: DJH
SCALE: 1" = 120'	DESIGN: DJH
SHEET: 2 OF 17	CHK BY: ---
DWG. No: Client File	JOB No: 203095

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C:\Users\Dave\Desktop\JOBS\203095\Drawings\02 SUBDIVISION.dwg Aug 07, 2022 – 3:20 PM



NOTES:

1. This survey has been prepared pursuant to the Regulations of Connecticut State Agencies Section 20–300b–1 through 20–300b–20 as amended on October 26, 2018;

   This map was prepared from record research, other maps, limited field measurements and other sources. It is not to be construed as a Property/Boundary or Limited Property/Boundary Survey and is subject to such facts as said surveys may disclose.

   – This survey conforms to a Class "C" horizontal accuracy.

   – Topographic features conform to a Class "T–2" accuracy.

   – Survey Type: General Location Survey.

2. The subject parcel is shown as lots 5 and 10 on assessor's map 43.

3. Zone: AG–2.

4. Owner of record: Putnam River Road, L.L.C. & 285 River Road, LLC
   P.O. Box 271
   Putnam, CT 06260

5. The intent of this survey is to show the conceptual development of the subject properties and the extent of two proposed ponds.

6. Elevations based on NAVD 1988. Contour interval = 2'.

7. The locations of existing utilities are based on surface evidence and other sources of information. Before any construction is to commence contact "CALL BEFORE YOU DIG" at 1–800–922–4455.

8. Wetlands shown were flagged in the field by Joseph Theroux. certified soil scientist in 2021.

120 60 0 120
GRAPHIC SCALE IN FEET

ENGINEER DATE

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON,

DAVID J. HELD, L.S. LIC. NO. 24267 DATE

NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS THE ORIGINAL SEAL AND SIGNATURE OF THE LAND SURVEYOR.

REVISIONS	
DATE	DESCRIPTION
7/29/2022	MISC. REVISIONS

DATE: 6/29/2022	DRAWN: DJH
SCALE: 1" = 120'	DESIGN: DJH
SHEET: 3 OF 17	CHK BY: ---
DWG. No: Client File	JOB No: 203095

OVERALL SITE PLAN

PREPARED FOR

285 RIVER ROAD, LLC &
PUTNAM RIVER ROAD, L.L.C.

RIVER ROAD & MODOCK ROAD
PUTNAM, CONNECTICUT

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C:\Users\Dave\Desktop\JOBS\203095\Drawings\03 OVERALL.dwg Aug 07, 2022 - 3:21 PM

NOTES:

1. This survey has been prepared pursuant to the Regulations of Connecticut State Agencies Section 20–300b–1 through 20–300b–20 as amended on October 26, 2018;

   This map was prepared from record research, other maps, limited field measurements and other sources. It is not to be construed as a Property/Boundary or Limited Property/Boundary Survey and is subject to such facts as said surveys may disclose.

   – This survey conforms to a Class "C" horizontal accuracy.

   – Topographic features conform to a Class "T–2" accuracy.

   – Survey Type: General Location Survey.

2. The subject parcel is shown as lots 5 and 10 on assessor's map 43.

3. Zone: AG–2.

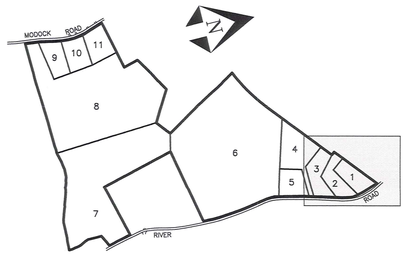
4. Owner of record: Putnam River Road, L.L.C. & 285 River Road, LLC
   P.O. Box 271
   Putnam, CT 06260

5. The intent of this survey is to show the conceptual development of the subject properties and the extent of two proposed ponds.

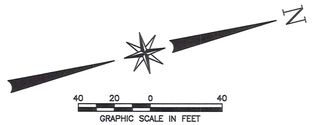
6. Elevations based on NAVD 1988. Contour interval = 2'.

7. The locations of existing utilities are based on surface evidence and other sources of information. Before any construction is to commence contact "CALL BEFORE YOU DIG" at 1–800–922–4455.

8. Wetlands shown were flagged in the field by Joseph Theroux. certified soil scientist in 2021.



KEY MAP
SCALE: 1" = 800'



GRAPHIC SCALE IN FEET

LEGEND

- IRON PIN OR PIPE RECOVERED
- MONUMENT RECOVERED
- IRON PIN TO BE SET
- WETLAND FLAG
- UTILITY POLE
- EXISTING MANHOLE
- EXISTING SIGN
- TEST PIT
- PERCOLATION TEST
- EXISTING WELL
- STONE WALL
- EXISTING CONTOUR
- EXISTING INDEX CONTOUR
- OVERHEAD WIRES
- EXISTING TREE LINE
- PROPOSED CONTOUR
- PROPOSED POND CONTOUR
- TEMPORARY EXCAVATION CONTOUR
- PROPOSED SILT FENCE
- PROPOSED CLEARING LIMITS
- LIMIT OF 100 YEAR FLOOD
- BUILDING SETBACK LINE
- PROPOSED U.G. UTILITIES

SITE PLAN No. 1

PREPARED FOR

285 RIVER ROAD, LLC &
PUTNAM RIVER ROAD, L.L.C.

RIVER ROAD & MODOCK ROAD
PUTNAM, CONNECTICUT

REVISIONS	
DATE	DESCRIPTION
7/29/2022	MISC. REVISIONS

DATE: 6/29/2022	DRAWN: DJH
SCALE: 1" = 40'	DESIGN: DJH
SHEET: 4 OF 17	CHK BY: ---
DWG. No: Client File	JOB No: 203095

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www.prorovinc.com

STATE OF CONNECTICUT DAVID J. HELD 24267 REGISTERED LAND SURVEYOR

ENGINEER 8/8/22 DATE

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

DAVID J. HELD, L.S. LIC. NO. 24267 8/8/22 DATE

NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS THE ORIGINAL SEAL AND SIGNATURE OF THE LAND SURVEYOR.

C:\Users\Dave\Desktop_OBS\203095\Drawings\04 SITE PLAN 1.dwg Aug 07, 2022 – 3:22 PM

NOTES:

1. This survey has been prepared pursuant to the Regulations of Connecticut State Agencies Section 20–300b–1 through 20–300b–20 as amended on October 26, 2018;

   This map was prepared from record research, other maps, limited field measurements and other sources. It is not to be construed as a Property/Boundary or Limited Property/Boundary Survey and is subject to such facts as said surveys may disclose.

   – This survey conforms to a Class "C" horizontal accuracy.

   – Topographic features conform to a Class "T–2" accuracy.

   – Survey Type: General Location Survey.

2. The subject parcel is shown as lots 5 and 10 on assessor's map 43.

3. Zone: AG–2.

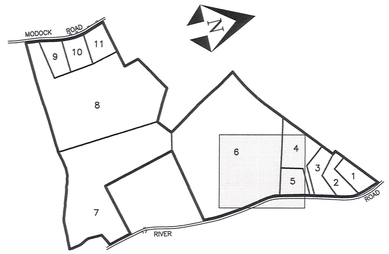
4. Owner of record: Putnam River Road, L.L.C. & 285 River Road, LLC
   P.O. Box 271
   Putnam, CT 06260

5. The intent of this survey is to show the conceptual development of the subject properties and the extent of two proposed ponds.

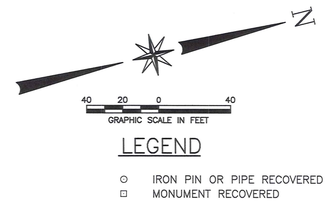
6. Elevations based on NAVD 1988. Contour interval = 2'.

7. The locations of existing utilities are based on surface evidence and other sources of information. Before any construction is to commence contact "CALL BEFORE YOU DIG" at 1–800–922–4455.

8. Wetlands shown were flagged in the field by Joseph Theroux. certified soil scientist in 2021.



KEY MAP
SCALE: 1" = 800'



LEGEND

- IRON PIN OR PIPE RECOVERED
- MONUMENT RECOVERED
- IRON PIN TO BE SET
- WETLAND FLAG
- UTILITY POLE
- EXISTING MANHOLE
- EXISTING SIGN
- TEST PIT
- PERCOLATION TEST
- EXISTING WELL
- STONE WALL
- EXISTING CONTOUR
- EXISTING INDEX CONTOUR
- OVERHEAD WIRES
- EXISTING TREE LINE
- PROPOSED CONTOUR
- PROPOSED POND CONTOUR
- TEMPORARY EXCAVATION CONTOUR
- PROPOSED SILT FENCE
- PROPOSED CLEARING LIMITS
- LIMIT OF 100 YEAR FLOOD
- BUILDING SETBACK LINE
- PROPOSED U.G. UTILITIES

SITE PLAN No. 2

PREPARED FOR

285 RIVER ROAD, LLC &
PUTNAM RIVER ROAD, L.L.C.

RIVER ROAD & MODOCK ROAD
PUTNAM, CONNECTICUT

REVISIONS	
DATE	DESCRIPTION
7/29/2022	MISC. REVISIONS

DATE: 6/29/2022	DRAWN: DJH
SCALE: 1" = 40'	DESIGN: DJH
SHEET: 5 OF 17	CHK BY: ---
DWG. No: Client File	JOB No: 203095

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STATE OF CONNECTICUT — DAVID J. HELD — No. 24267 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER 8/8/22 DATE

STATE OF CONNECTICUT — DAVID J. HELD — No. 24267 — REGISTERED LAND SURVEYOR

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

DAVID J. HELD, L.S. LIC. NO. 24267 8/8/22 DATE

NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS THE ORIGINAL SEAL AND SIGNATURE OF THE LAND SURVEYOR.

C:\Users\Dave\Desktop\JOBS\203095\Drawings\05 SITE PLAN 2.dwg Aug 07, 2022 - 3:22 PM

LOT 7

LOT 6

100' REGULATED AREA

GRAVEL SURFACE HAUL ROAD TO BE ABANDONED AFTER COMPLETION OF PHASE 1 GRAVEL EXCAVATION

CARPENTER BROOK

WETLANDS

NOTES:

1. This survey has been prepared pursuant to the Regulations of Connecticut State Agencies Section 20–300b–1 through 20–300b–20 as amended on October 26, 2018;

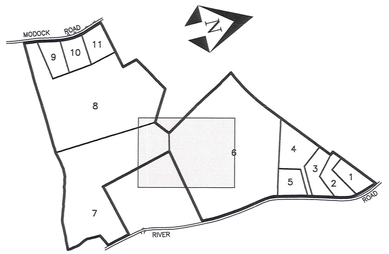
   This map was prepared from record research, other maps, limited field measurements and other sources. It is not to be construed as a Property/Boundary or Limited Property/Boundary Survey and is subject to such facts as said surveys may disclose.

   – This survey conforms to a Class "C" horizontal accuracy.

   – Topographic features conform to a Class "T–2" accuracy.

   – Survey Type: General Location Survey.

2. The subject parcel is shown as lots 5 and 10 on assessor's map 43.
3. Zone: AG–2.
4. Owner of record: Putnam River Road, L.L.C. & 285 River Road, LLC
   P.O. Box 271
   Putnam, CT 06260
5. The intent of this survey is to show the conceptual development of the subject properties and the extent of two proposed ponds.
6. Elevations based on NAVD 1988. Contour interval = 2'.
7. The locations of existing utilities are based on surface evidence and other sources of information. Before any construction is to commence contact "CALL BEFORE YOU DIG" at 1–800–922–4455.
8. Wetlands shown were flagged in the field by Joseph Theroux. certified soil scientist in 2021.



KEY MAP
SCALE: 1" = 800'

N

40 20 0 40
GRAPHIC SCALE IN FEET

LEGEND

- IRON PIN OR PIPE RECOVERED
- MONUMENT RECOVERED
- IRON PIN TO BE SET
- WETLAND FLAG
- UTILITY POLE
- EXISTING MANHOLE
- EXISTING SIGN
- TEST PIT
- PERCOLATION TEST
- EXISTING WELL
- STONE WALL
- 402 EXISTING CONTOUR
- 400 EXISTING INDEX CONTOUR
- OHW OVERHEAD WIRES
- EXISTING TREE LINE
- 400 PROPOSED CONTOUR
- 400 PROPOSED POND CONTOUR
- TEMPORARY EXCAVATION CONTOUR
- PROPOSED SILT FENCE
- PROPOSED CLEARING LIMITS
- LIMIT OF 100 YEAR FLOOD
- BUILDING SETBACK LINE
- E&T PROPOSED U.G. UTILITIES

SITE PLAN No. 3

PREPARED FOR

285 RIVER ROAD, LLC &
PUTNAM RIVER ROAD, L.L.C.

RIVER ROAD & MODOCK ROAD
PUTNAM, CONNECTICUT

STATE OF CONNECTICUT
STEVEN R. THEROUX
No. 24287
REGISTERED
LAND SURVEYOR

ENGINEER 8/18/22 DATE

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

STATE OF CONNECTICUT
DAVID J. HELD
No. 24267

DAVID J. HELD, L.S. LIC. NO. 24267 8/18/22 DATE

NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS THE ORIGINAL SEAL AND SIGNATURE OF THE LAND SURVEYOR.

REVISIONS	
DATE	DESCRIPTION
7/29/2022	MISC. REVISIONS

DATE: 6/29/2022	DRAWN: DJH
SCALE: 1" = 40'	DESIGN: DJH
SHEET: 6 OF 17	CHK BY: ---
DWG. No: Client File	JOB No: 203095

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LOT 8

LOT 7

WETLANDS

WETLANDS

WETLANDS

100' REGULATED AREA

WOODS ROAD

MW-4

MW-5

MW-6

NOTES:

1. This survey has been prepared pursuant to the Regulations of Connecticut State Agencies Section 20–300b–1 through 20–300b–20 as amended on October 26, 2018;

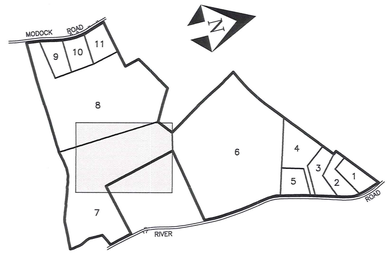
   This map was prepared from record research, other maps, limited field measurements and other sources. It is not to be construed as a Property/Boundary or Limited Property/Boundary Survey and is subject to such facts as said surveys may disclose.

   – This survey conforms to a Class "C" horizontal accuracy.

   – Topographic features conform to a Class "T–2" accuracy.

   – Survey Type: General Location Survey.

2. The subject parcel is shown as lots 5 and 10 on assessor's map 43.
3. Zone: AG–2.
4. Owner of record: Putnam River Road, L.L.C. & 285 River Road, LLC
   P.O. Box 271
   Putnam, CT 06260
5. The intent of this survey is to show the conceptual development of the subject properties and the extent of two proposed ponds.
6. Elevations based on NAVD 1988. Contour interval = 2'.
7. The locations of existing utilities are based on surface evidence and other sources of information. Before any construction is to commence contact "CALL BEFORE YOU DIG" at 1–800–922–4455.
8. Wetlands shown were flagged in the field by Joseph Theroux. certified soil scientist in 2021.



KEY MAP
SCALE: 1" = 800'

N

40 20 0 40
GRAPHIC SCALE IN FEET

LEGEND

- IRON PIN OR PIPE RECOVERED
- MONUMENT RECOVERED
- IRON PIN TO BE SET
- WETLAND FLAG
- UTILITY POLE
- EXISTING MANHOLE
- EXISTING SIGN
- TEST PIT
- PERCOLATION TEST
- EXISTING WELL
- STONE WALL
- 402 EXISTING CONTOUR
- 400 EXISTING INDEX CONTOUR
- OHW OVERHEAD WIRES
- EXISTING TREE LINE
- 402 PROPOSED CONTOUR
- 400 PROPOSED POND CONTOUR
- 398 TEMPORARY EXCAVATION CONTOUR
- PROPOSED SILT FENCE
- PROPOSED CLEARING LIMITS
- LIMIT OF 100 YEAR FLOOD
- BSL BUILDING SETBACK LINE
- E&T PROPOSED U.G. UTILITIES

SITE PLAN No. 4

PREPARED FOR

285 RIVER ROAD, LLC &
PUTNAM RIVER ROAD, L.L.C.

RIVER ROAD & MODOCK ROAD
PUTNAM, CONNECTICUT

STATE OF CONNECTICUT
DAVID J. HELD
24267
REGISTERED
LAND SURVEYOR

ENGINEER 8/11/22 DATE

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

DAVID J. HELD, L.S. LIC. NO. 24267 8/10/22 DATE

NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS THE ORIGINAL SEAL AND SIGNATURE OF THE LAND SURVEYOR.

REVISIONS	
DATE	DESCRIPTION
7/29/2022	MISC. REVISIONS

DATE: 6/29/2022	DRAWN: DJH
SCALE: 1" = 40'	DESIGN: DJH
SHEET: 7 OF 17	CHK BY: ---
DWG. No: Client File	JOB No: 203095

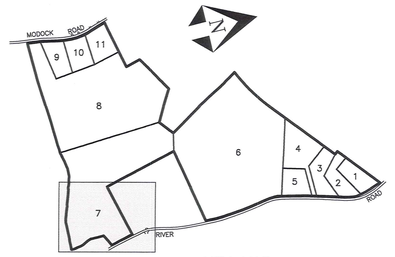
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KEY MAP
SCALE: 1" = 800'

GRAPHIC SCALE IN FEET
40 20 0 40

LEGEND

- IRON PIN OR PIPE RECOVERED
- MONUMENT RECOVERED
- IRON PIN TO BE SET
- WETLAND FLAG
- UTILITY POLE
- EXISTING MANHOLE
- EXISTING SIGN
- TEST PIT
- PERCOLATION TEST
- EXISTING WELL
- STONE WALL
- EXISTING CONTOUR
- EXISTING INDEX CONTOUR
- OVERHEAD WIRES
- EXISTING TREE LINE
- PROPOSED CONTOUR
- PROPOSED POND CONTOUR
- TEMPORARY EXCAVATION CONTOUR
- PROPOSED SILT FENCE
- PROPOSED CLEARING LIMITS
- LIMIT OF 100 YEAR FLOOD
- BUILDING SETBACK LINE
- PROPOSED U.G. UTILITIES

NOTES:

1. This survey has been prepared pursuant to the Regulations of Connecticut State Agencies Section 20–300b–1 through 20–300b–20 as amended on October 26, 2018;

   This map was prepared from record research, other maps, limited field measurements and other sources. It is not to be construed as a Property/Boundary or Limited Property/Boundary Survey and is subject to such facts as said surveys may disclose.

   – This survey conforms to a Class "C" horizontal accuracy.

   – Topographic features conform to a Class "T–2" accuracy.

   – Survey Type: General Location Survey.

2. The subject parcel is shown as lots 5 and 10 on assessor's map 43.
3. Zone: AG–2.
4. Owner of record: Putnam River Road, L.L.C. & 285 River Road, LLC
   P.O. Box 271
   Putnam, CT 06260
5. The intent of this survey is to show the conceptual development of the subject properties and the extent of two proposed ponds.
6. Elevations based on NAVD 1988. Contour interval = 2'.
7. The locations of existing utilities are based on surface evidence and other sources of information. Before any construction is to commence contact "CALL BEFORE YOU DIG" at 1–800–922–4455.
8. Wetlands shown were flagged in the field by Joseph Theroux. certified soil scientist in 2021.

SITE PLAN No. 5

PREPARED FOR

285 RIVER ROAD, LLC &
PUTNAM RIVER ROAD, L.L.C.

RIVER ROAD & MODOCK ROAD
PUTNAM, CONNECTICUT

ENGINEER DATE

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

DAVID J. HELD, L.S. LIC. NO. 24267 DATE

NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS THE ORIGINAL SEAL AND SIGNATURE OF THE LAND SURVEYOR.

REVISIONS	
DATE	DESCRIPTION
7/29/2022	MISC. REVISIONS

DATE: 6/29/2022	DRAWN: DJH
SCALE: 1" = 40'	DESIGN: DJH
SHEET: 8 OF 17	CHK BY: ---
DWG. No: Client File	JOB No: 203095

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MODOCK ROAD

PROPOSED PAVED APRON. INSTALL AND MAINTAIN CONSTRUCTION ENTRANCE DURING SITEWORK OPERATIONS (TYP)

CL&P 989

CL&P 1434

CL&P 464

CL&P 1432

CL&P 990

FOOTING DRAIN OUTLET

LOT 8

LOT 9

LOT 10

LOT 11

RESERVE SEPTIC LEACHING AREA

PRIMARY SEPTIC LEACHING AREA

PROPOSED SEPTIC TANK

PROPOSED 3 B.R. RAISED RANCH LOWER FF = 423.0 GARAGE FF = 425.0

PROPOSED 3 B.R. HOUSE FF = 427.5 BSMT = 418.0

PROPOSED 3 B.R. HOUSE FF = 427.5 BSMT = 417.7 GARAGE FF = 430.0

PROPOSED 3 B.R. HOUSE FF = 423.5 BSMT = 413.0 GARAGE FF = 420.5

PROP. WELL

PERC 10

PERC 11

PERC 12

TP 9-1

TP 9-3

TP 9-4

TP 10-1

TP 10-2

TP 10-3

TP 10-4

TP 10-5

TP 10-6

TP 10-7

TP 11-1

TP 11-2

TP 12-1

TP 12-2

100' REGULATED AREA

WETLANDS

WETLANDS

EAST

NOTES:

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   – Topographic features conform to a Class "T–2" accuracy.

   – Survey Type: General Location Survey.

2. The subject parcel is shown as lots 5 and 10 on assessor's map 43.

3. Zone: AG–2.

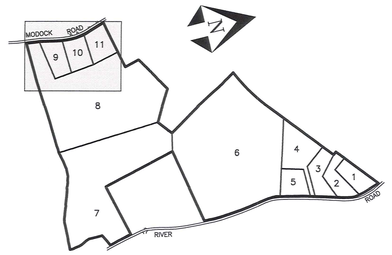
4. Owner of record: Putnam River Road, L.L.C. & 285 River Road, LLC
   P.O. Box 271
   Putnam, CT 06260

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8. Wetlands shown were flagged in the field by Joseph Theroux. certified soil scientist in 2021.



KEY MAP
SCALE: 1" = 800'

GRAPHIC SCALE IN FEET
40 20 0 40

LEGEND

- IRON PIN OR PIPE RECOVERED
- MONUMENT RECOVERED
- IRON PIN TO BE SET
- WETLAND FLAG
- UTILITY POLE
- EXISTING MANHOLE
- EXISTING SIGN
- TEST PIT
- PERCOLATION TEST
- EXISTING WELL
- STONE WALL
- EXISTING CONTOUR
- EXISTING INDEX CONTOUR
- OVERHEAD WIRES
- EXISTING TREE LINE
- PROPOSED CONTOUR
- PROPOSED POND CONTOUR
- TEMPORARY EXCAVATION CONTOUR
- PROPOSED SILT FENCE
- PROPOSED CLEARING LIMITS
- LIMIT OF 100 YEAR FLOOD
- BUILDING SETBACK LINE
- PROPOSED U.G. UTILITIES

SITE PLAN No. 6

PREPARED FOR

285 RIVER ROAD, LLC &
PUTNAM RIVER ROAD, L.L.C.

RIVER ROAD & MODOCK ROAD
PUTNAM, CONNECTICUT

STATE OF CONNECTICUT
DAVID J. HELD
LICENSED PROFESSIONAL ENGINEER

ENGINEER 8/8/22 DATE

STATE OF CONNECTICUT
DAVID J. HELD
LICENSED LAND SURVEYOR

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON,

DAVID J. HELD, L.S. LIC. NO. 24267 6/8/22 DATE

NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS THE ORIGINAL SEAL AND SIGNATURE OF THE LAND SURVEYOR.

REVISIONS	
DATE	DESCRIPTION
7/29/2022	MISC. REVISIONS

DATE: 6/29/2022	DRAWN: DJH
SCALE: 1" = 40'	DESIGN: DJH
SHEET: 9 OF 17	CHK BY: ---
DWG. No: Client File	JOB No: 203095

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NOTES:

1. This survey has been prepared pursuant to the Regulations of Connecticut State Agencies Section 20–300b–1 through 20–300b–20 as amended on October 26, 2018;

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4. Owner of record: Putnam River Road, L.L.C. & 285 River Road, LLC
   P.O. Box 271
   Putnam, CT 06260

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8. Wetlands shown were flagged in the field by Joseph Theroux. certified soil scientist in 2021.

EXCAVATION PHASE 1
EXCAVATION VOLUME = 127,000 CY
EXCAVATION AREA = 4.4 ACRES

WETLANDS

GRAVEL SURFACE HAUL-ROAD TO BE ABANDONED AT THE COMPLETION OF PHASE 1 EXCAVATION

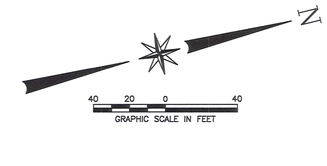
100' REGULATED AREA

APPROXIMATE LIMITS OF PROPOSED PERMANENT POND

MW–4
MW–5
MW–6

WOODS ROAD

KEY MAP
SCALE: 1" = 800'



LEGEND

- IRON PIN OR PIPE RECOVERED
- MONUMENT RECOVERED
- IRON PIN TO BE SET
- WETLAND FLAG
- UTILITY POLE
- EXISTING MANHOLE
- EXISTING SIGN
- TEST PIT
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- PROPOSED CLEARING LIMITS
- LIMIT OF 100 YEAR FLOOD
- BUILDING SETBACK LINE
- PROPOSED U.G. UTILITIES

ENGINEER DATE

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

DAVID J. HELD, L.S. LIC. NO. 24267 DATE

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EXCAVATION PLAN No. 1

PREPARED FOR

285 RIVER ROAD, LLC &
PUTNAM RIVER ROAD, L.L.C.

RIVER ROAD & MODOCK ROAD
PUTNAM, CONNECTICUT

REVISIONS	
DATE	DESCRIPTION
7/29/2022	MISC. REVISIONS

DATE: 6/29/2022	DRAWN: DJH
SCALE: 1" = 40'	DESIGN: DJH
SHEET: 10 OF 17	CHK BY: ---
DWG. No: Client File	JOB No: 203095

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GRAVEL SURFACE HAUL ROAD TO BE ABANDONED AT THE COMPLETION OF PHASE 1 EXCAVATION

PROPOSED TEMPORARY BRIDGE TO BE REMOVED AT THE COMPLETION OF PHASE 1 EXCAVATION. SEE DETAIL SHEET 2.

WETLANDS

200' REGULATED AREA

CARPENTER BROOK

EXCAVATION PHASE 2
EXCAVATION VOLUME = 258,000 CY
EXCAVATION AREA = 6.5 ACRES

EXISTING HOUSE TO BE REMOVED

EXISTING WELL TO BE ABANDONED

EXISTING POLE AND UTILITIES TO BE REMOVED

APPROXIMATE LIMITS OF PROPOSED PERMANENT POND

MW-1

MW-2

MW-3

INSTALL PAVED APRON AT RIVER ROAD

RIVER ROAD

WETLANDS

GRAPHIC SCALE IN FEET
40 20 0 40

KEY MAP
SCALE: 1" = 800'

MODOCK ROAD
RIVER

ENGINEER DATE

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

DAVID J. HELD, L.S. LIC. NO. 24267 DATE

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REVISIONS	
DATE	DESCRIPTION
7/29/2022	MISC. REVISIONS

DATE: 6/29/2022	DRAWN: DJH
SCALE: 1" = 40'	DESIGN: DJH
SHEET: 11 OF 17	CHK BY: ---
DWG. No: Client File	JOB No: 203095

EXCAVATION PLAN No. 2

PREPARED FOR

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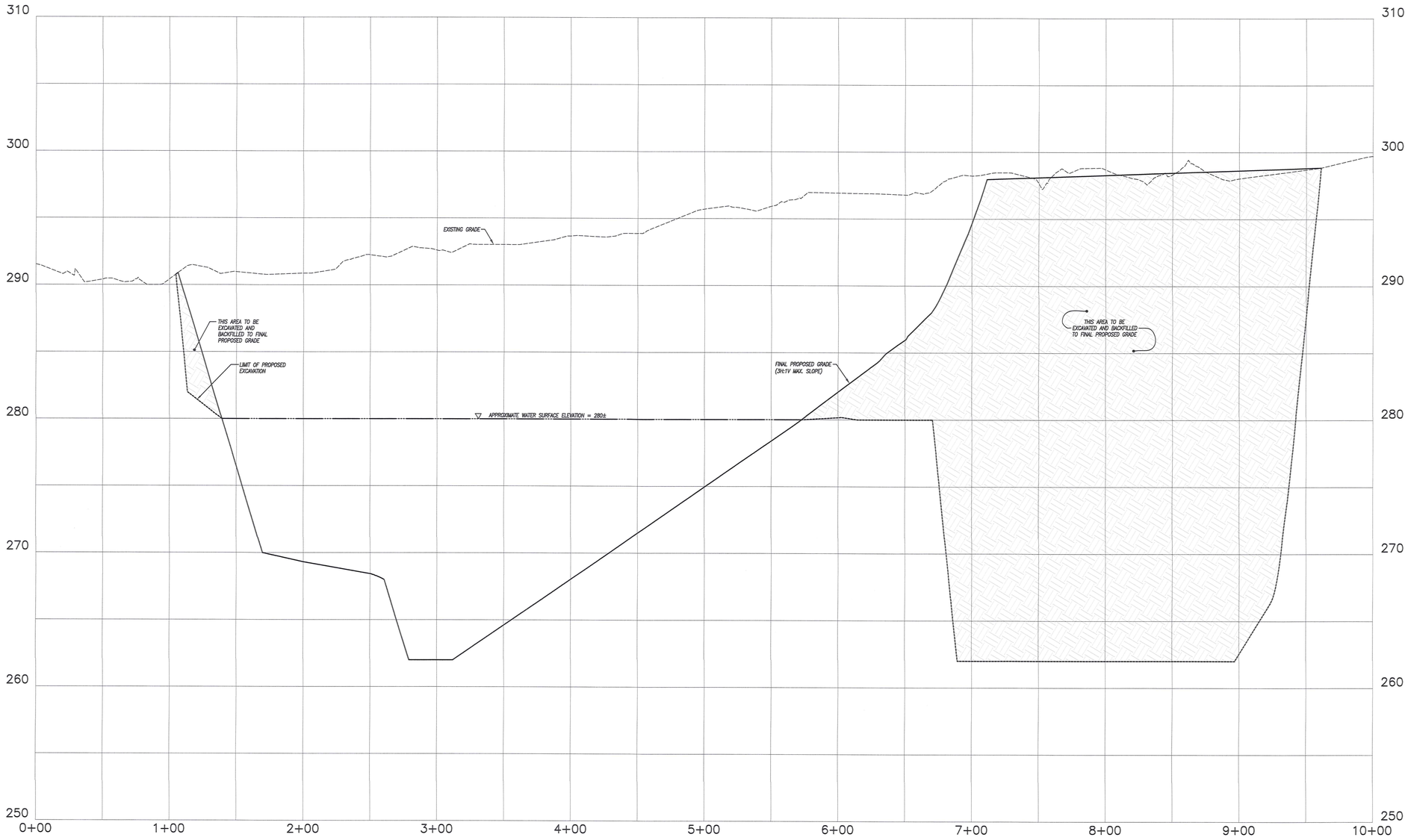
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PUTNAM, CONNECTICUT

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EXCAVATION CROSS SECTION A–A

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

HORIZONTAL SCALE IN FEET
40 20 0 40
4 2 0 4
VERTICAL SCALE IN FEET

REVISIONS	
DATE	DESCRIPTION
7/29/2022	MISC. REVISIONS

DATE: 6/29/2022	DRAWN: DJH
SCALE: AS SHOWN	DESIGN: DJH
SHEET: 12 OF 17	CHK BY: ---
DWG. No: Client File	JOB No: 203095

STATE OF CONNECTICUT

ENGINEER DATE

EXCAVATION CROSS SECTION A-A

PREPARED FOR

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PUTNAM RIVER ROAD, L.L.C.

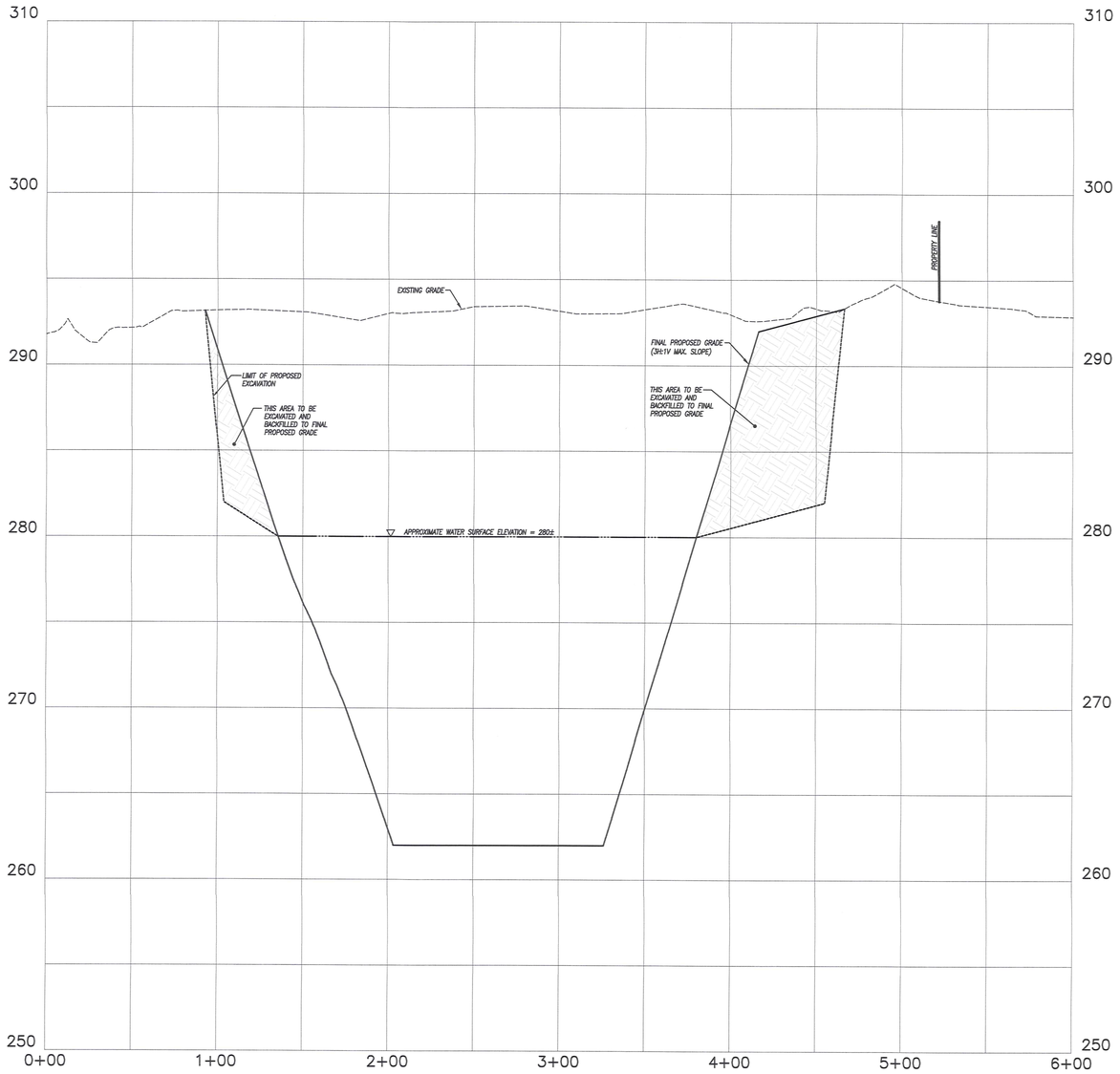
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EXCAVATION CROSS SECTION B–B

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

HORIZONTAL SCALE IN FEET
40 20 0 40

VERTICAL SCALE IN FEET
4 2 0 4

REVISIONS	
DATE	DESCRIPTION
7/29/2022	MISC. REVISIONS

DATE: 6/29/2022	DRAWN: DJH
SCALE: AS SHOWN	DESIGN: DJH
SHEET: 13 OF 17	CHK BY: ---
DWG. No: Client File	JOB No: 203095

STATE OF CONNECTICUT
DAVID J. HERRICK
No. 21267
REGISTERED PROFESSIONAL ENGINEER

ENGINEER

8/11/22
DATE

EXCAVATION CROSS SECTION B-B

PREPARED FOR

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PUTNAM RIVER ROAD, L.L.C.

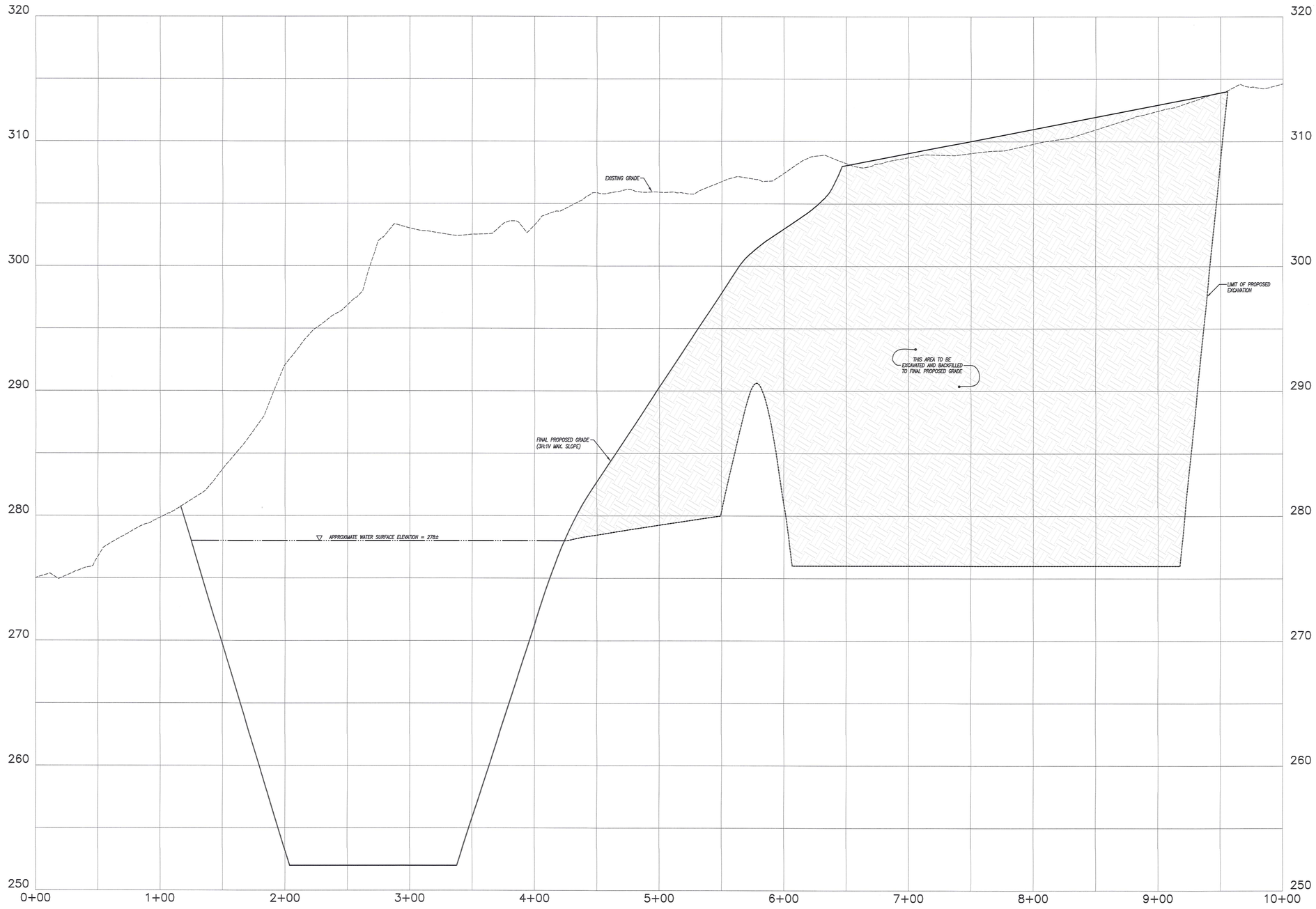
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EXCAVATION CROSS SECTION C–C

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

HORIZONTAL SCALE IN FEET
40 20 0 40
VERTICAL SCALE IN FEET
4 2 0 4

EXCAVATION CROSS SECTION C-C

PREPARED FOR

285 RIVER ROAD, LLC &
PUTNAM RIVER ROAD, L.L.C.

RIVER ROAD & MODOCK ROAD
PUTNAM, CONNECTICUT

REVISIONS	
DATE	DESCRIPTION
7/29/2022	MISC. REVISIONS

DATE: 6/29/2022	DRAWN: DJH
SCALE: AS SHOWN	DESIGN: DJH
SHEET: 14 OF 17	CHK BY: ---
DWG. No: Client File	JOB No: 203095

STATE OF CONNECTICUT
DANIEL J. HEWETT
LICENSED PROFESSIONAL ENGINEER

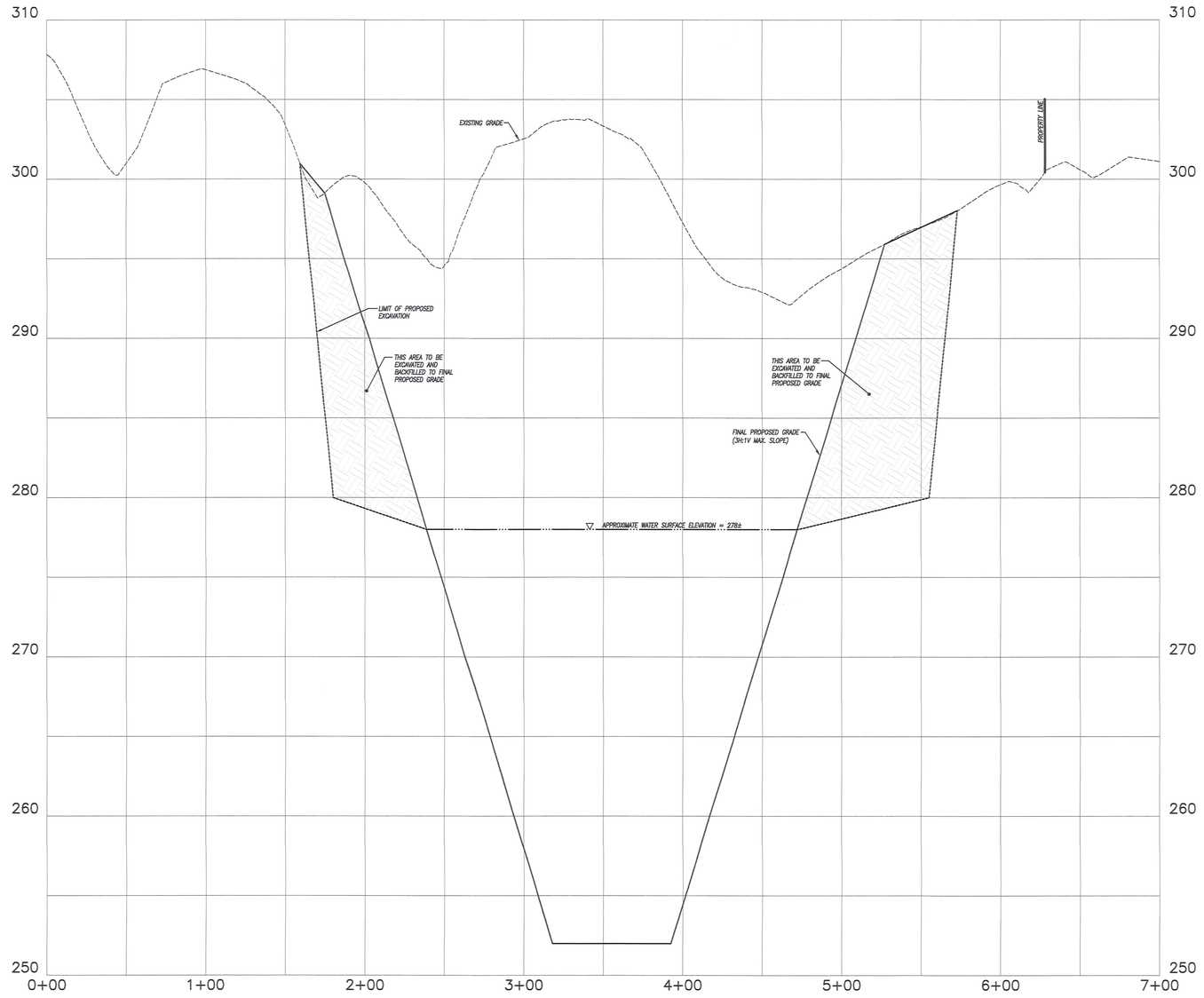
8/2/22
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EXCAVATION CROSS SECTION D–D

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

HORIZONTAL SCALE IN FEET
40 20 0 40
4 2 0 4
VERTICAL SCALE IN FEET

ENGINEER DATE 8/8/22

REVISIONS	
DATE	DESCRIPTION
7/29/2022	MISC. REVISIONS

DATE: 6/29/2022	DRAWN: DJH
SCALE: AS SHOWN	DESIGN: DJH
SHEET: 15 OF 17	CHK BY: ---
DWG. No: Client File	JOB No: 203095

EXCAVATION CROSS SECTION D-D

PREPARED FOR

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PUTNAM RIVER ROAD, L.L.C.

RIVER ROAD & MODOCK ROAD
PUTNAM, CONNECTICUT

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EROSION AND SEDIMENT CONTROL PLAN:

REFERENCE IS MADE TO:

1. Connecticut Guidelines for Soil Erosion and Sediment Control 2002 (2002 Guidelines).
2. Soil Survey of Connecticut, N.R.C.S.

SILT FENCE INSTALLATION AND MAINTENANCE:

1. Dig a 6" deep trench on the uphill side of the barrier location.
2. Position the posts on the downhill side of the barrier and drive the posts 1.5 feet into the ground.
3. Lay the bottom 6" of the fabric in the trench to prevent undermining and backfill.
4. Inspect and repair barrier after heavy rainfall.
5. Inspections will be made at least once per week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inch or greater to determine maintenance needs.
6. Sediment deposits are to be removed when they reach a height of 1 foot behind the barrier or half the height of the barrier and are to be deposited in an area which is not regulated by the inland wetlands commission.
7. Replace or repair the fence within 24 hours of observed failure. Failure of the fence has occurred when sediment fails to be retained by the fence because:
- the fence has been overtopped, undercut or bypassed by runoff water,
- the fence has been moved out of position (knocked over), or
- the geotextile has decomposed or been damaged.

HAY BALE INSTALLATION AND MAINTENANCE:

1. Bales shall be placed as shown on the plans with the ends of the bales tightly abutting each other.
2. Each bale shall be securely anchored with at least 2 stakes and gaps between bales shall be wedged with straw to prevent water from passing between the bales.
3. Inspect bales at least once per week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inches or greater to determine maintenance needs.
4. Remove sediment behind the bales when it reaches half the height of the bale and deposit in an area which is not regulated by the inland Wetlands Commission.
5. Replace or repair the barrier within 24 hours of observed failure. Failure of the barrier has occurred when sediment fails to be retained by the barrier because:
- the barrier has been overtopped, undercut or bypassed by runoff water,
- the barrier has been moved out of position, or
- the hay bales have deteriorated or been damaged.

TEMPORARY VEGETATIVE COVER:

SEED SELECTION

Grass species shall be appropriate for the season and site conditions. Appropriate species are outlined in Figure TS–2 in the 2002 Guidelines.

TIMING CONSIDERATIONS

Seed with a temporary seed mixture within 7 days after the suspension of grading work in disturbed areas where the suspension of work is expected to be more than 30 days but less than 1 year.

SITE PREPARATION

Install needed erosion control measures such as diversions, grade stabilization structures, sediment basins and grassed waterways.

Grade according to plans and allow for the use of appropriate equipment for seedbed preparation, seeding, mulch application, and mulch anchoring.

SEEDBED PREPARATION

Loosen the soil to a depth of 3–4 inches with a slightly roughened surface. If the area has been recently loosened or disturbed, no further roughening is required. Soil preparation can be accomplished by tracking with a bulldozer, discing, harrowing, raking or dragging with a section of chain link fence. Avoid excessive compaction of the surface by equipment traveling back and forth over the surface. If the slope is tracked, the cleat marks shall be perpendicular to the anticipated direction of the flow of surface water.

If soil testing is not practical or feasible on small or variable sites, or where timing is critical, fertilizer may be applied at the rate of 300 pounds per acre or 7.5 pounds per 1,000 square feet of 10–10–10 or equivalent. Additionally, lime may be applied using rates given in Figure TS–1 in the 2002 Guidelines.

SEEDING

Apply seed uniformly by hand cyclone seeder, drill, cultipacker type seeder or hydroseeder at a minimum rate for the selected species. Increase seeding rates by 10% when hydroseeding.

MULCHING

Temporary seedings made during optimum seeding dates shall be mulched according to the recommendations in the 2002 Guidelines. When seeding outside of the recommended dates, increase the application of mulch to provide 95%–100% coverage.

MAINTENANCE

Inspect seeded area at least once a week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inch or greater for seed and mulch movement and rill erosion.

Where seed has moved or where soil erosion has occurred, determine the cause of the failure. Repair eroded areas and install additional controls if required to prevent reoccurrence of erosion.

Continue inspections until the grasses are firmly established. Grasses shall not be considered established until a ground cover is achieved which is mature enough to control soil erosion and to survive severe weather conditions (approximately 80% vegetative cover).

PERMANENT VEGETATIVE COVER:

Refer to Permanent Seeding Measure in the 2002 Guidelines for specific applications and details related to the installation and maintenance of a permanent vegetative cover. In general, the following sequence of operations shall apply:

1. Topsoil will be replaced once the excavation and grading has been completed. Topsoil will be spread at a uniform depth approximating existing conditions on imported silt or suitable on–site materials.
2. Apply agricultural ground limestone. Apply fertilizer. Quantities shall be determined based on laboratory soil tests. Work lime and fertilizer into the soil to a depth of 4".
3. Inspect seedbed before seeding. If traffic has compacted the soil, retill compacted areas.
4. Apply the chosen grass seed mix. The recommended seeding dates are: April 1 to June 15 & August 15 – October 1.
5. Following seeding, firm seedbed with a roller. Mulch immediately following seeding. If a permanent vegetative stand cannot be established by September 30, apply a temporary cover on the topsoil such as netting, mat or organic mulch.

EROSION AND SEDIMENT CONTROL NARRATIVE:

PRINCIPLES OF EROSION AND SEDIMENT CONTROL

The primary function of erosion and sediment controls is to absorb erosional energies and reduce runoff velocities that force the detachment and transport of soil and/or encourage the deposition of eroded soil particles before they reach any sensitive area.

KEEP LAND DISTURBANCE TO A MINIMUM

The more land that is in vegetative cover, the more surface water will infiltrate into the soil, thus minimizing stormwater runoff and potential erosion. Keeping land disturbance to a minimum not only involves minimizing the extent of exposure at any one time, but also the duration of exposure. Phasing, sequencing and construction scheduling are interrelated. Phasing divides a large project into distinct sections where construction work over a specific area occurs over distinct periods of time and each phase is not dependent upon a subsequent phase in order to be functional. A sequence is the order in which construction activities are to occur during any particular phase. A sequence should be developed on the premise of "first things first" and "last things last" with proper attention given to the inclusion of adequate erosion and sediment control measures. A construction schedule is a sequence with time lines applied to it and should address the potential overlap of actions in a sequence which may be in conflict with each other.

- Limit areas of clearing and grading. Protect natural vegetation from construction equipment with fencing, tree armoring, and retaining walls or tree wells.
- Route traffic patterns within the site to avoid existing or newly planted vegetation.
- Phase construction so that areas which are actively being developed at any one time are minimized and only that area under construction is exposed. Clear only those areas essential for construction.
- Sequence the construction of storm drainage systems so that they are operational as soon as possible during construction. Ensure all outlets are stable before outletting storm drainage flow into them.
- Schedule construction so that final grading and stabilization is completed as soon as possible.

SLOW THE FLOW

Detachment and transport of eroded soil must be kept to a minimum by absorbing and reducing the erosive energy of water. The erosive energy of water increases as the volume and velocity of runoff increases. The volume and velocity of runoff increases during development as a result of reduced infiltration rates caused by the removal of existing vegetation, removal of topsoil, compaction of soil and the construction of impervious surfaces.

- Use diversions, stone dikes, silt fences and similar measures to break flow lines and dissipate storm water energy.
- Avoid diverting one drainage system into another without calculating the potential for downstream flooding or erosion.

KEEP CLEAN RUNOFF SEPARATED

Clean runoff should be kept separated from sediment laden water and should not be directed over disturbed areas without additional controls. Additionally, prevent the mixing of clean off–site generated runoff with sediment laden runoff generated on–site until after adequate filtration of on–site waters has occurred.

- Segregate construction waters from clean water.
- Divert site runoff to keep it isolated from wetlands, watercourses and drainage ways that flow through or near the development until the sediment in that runoff is trapped or detained.

REDUCE ON SITE POTENTIAL INTERNALLY AND INSTALL PERIMETER CONTROLS

While it may seem less complicated to collect all waters to one point of discharge for treatment and just install a perimeter control, it can be more effective to apply internal controls to many small sub–drainage basins within the site. By reducing sediment loading from within the site, the chance of perimeter control failure and the potential off–site damage that it can cause is reduced. It is generally more expensive to correct off–site damage than it is to install proper internal controls.

- Control erosion and sedimentation in the smallest drainage area possible. It is easier to control erosion than to contend with sediment after it has been carried downstream and deposited in unwanted areas.
- Direct runoff from small disturbed areas to adjoining undisturbed vegetated areas to reduce the potential for concentrated flows and increase settlement and filtering of sediments.
- Concentrated runoff from development should be safely conveyed to stable outlets using rip rapped channels, waterways, diversions, storm drains or similar measures.
- Determine the need for sediment basins. Sediment basins are required on larger developments where major grading is planned and where it is impossible or impractical to control erosion at the source. Sediment basins are needed on large and small sites when sensitive areas such as wetlands, watercourses, and streets would be impacted by off–site sediment deposition. Do not locate sediment basins in wetlands or permanent or intermittent watercourses. Sediment basins should be located to intercept runoff prior to its entry into the wetland or watercourse.
- Grade and landscape around buildings and septic systems to divert water away from them.

EXCAVATION NOTES:

1. No blasting or on–site processing is anticipated for completion of the work shown. If blasting is required, the owner is responsible for obtaining all necessary permits.
2. The emergency contact for operations at this site is Jeffrey Rawson (860) 428–7110. A different emergency contact may be designated if operations are compacted by a different party.
3. The allowable hours of operation shall be 7:00 AM to 4:30 PM, Monday through Friday and 7:00 AM to 12:00 noon on Saturday. No operations shall be allowed on Sundays, Christmas, New Years Day, Memorial Day, Fourth of July, Labor Day and Thanksgiving except by special permission of the Putnam Zoning Commission or its designated agent.
4. The owner and/or site operator shall provide adequate dust control to prevent any off–site nuisance. The preferred dust control measure is the application of water to vehicular travel areas.
5. The owner/operator shall install any necessary barricades or barriers to provide protection around the perimeter of open excavation faces and steep slopes.
6. Excavation operations shall be completed in accordance with all appropriate Mine Safety & Health Administration (MSHA) rules and regulations.
7. The proposed excavation shown hereon is anticipated to be completed over the course of several years. The total amount of material to be excavated per the proposed grades shown hereon is approximately 385,000 CY. All useable material excavated will be transported off–site for processing and/or consumer sales. Over excavation of suitable material within the limits of disturbance and limits of excavation shown hereon is allowable. Over excavation shall not include the blasting or removal of ledge rock. Silt from off site aggregate washing and processing shall be imported as necessary to establish final subgrade elevations.
8. The site operator is responsible for determining the most appropriate means and methods for excavating material in the applicable phase. In general, excavation shall begin with stripping and stockpiling of topsoil and subsoil which will be utilized for site restoration. Removal of material should begin with a downcutting technique to ensure complete internal drainage with the disturbed area (bowl effect).
9. The entire site, including the active excavation area shall be maintained in a self–contained condition to prevent the discharge of sediment laden stormwater to undisturbed areas, Carpenter Brook, adjacent properties or wetlands.
10. All trucks leaving the site shall have the loads covered.
11. No stumps, trimmings, brush or other deleterious materials shall be buried on site. All such materials shall be chipped for use in site restoration or shall be properly disposed of at an off site facility.

EXCAVATION SEQUENCE OF OPERATIONS:

1. Limits of clearing/disturbance for Phase 1 excavation shall be field staked or flagged by a licensed land surveyor.
2. Contact CALL BEFORE YOU DIG at 1–800–922–4455 to verify the location of underground utilities prior to the start of any ground disturbance.
3. Clear and grub trees for the Phase 1 excavation area, temporary gravel haul road and temporary bridge.
4. Install the temporary gravel haul road to the temporary bridge location.
5. Install the temporary bridge.
6. Install the remainder of the temporary gravel haul road to the Phase 1 excavation area.
7. Install silt fence at the down gradient limits of the Phase 1 excavation area perimeter.
8. Strip topsoil and subsoil. An adequate quantity of topsoil and subsoil shall be stockpiled on the site for final restoration. Stockpiles should be within the approved limits of excavation and shall be protected with perimeter erosion controls and/or temporary seeding as required.
9. Begin excavation by downcutting the entire Phase 1 area to an elevation approximately 2' above the water table.
10. Excavate the northerly portion of Phase 1 to the proposed final elevation and then backfill to the proposed final subgrade elevation. Subgrade elevations shall allow for containment during dewatering of excavated materials.
11. Excavate the southerly portion of Phase 1 to the proposed final elevations. Side slopes and the area adjacent to property boundaries shall be backfilled as required to establish proposed grades.
12. Loam and seed disturbed areas and side slopes to establish permanent vegetative cover. See Restoration Notes below for additional details.
13. Upon the establishment of permanent vegetative stabilization of Phase 1, the temporary bridge shall be removed. Any disturbed areas remaining after removal of the bridge should be stabilized with loam, seed and permanent vegetation. Erosion control blankets shall be utilized for the stabilization of stream channel banks adjacent to Carpenter Brook. The gravel haul road shall be abandoned in place.
14. Limits of clearing/disturbance for Phase 2 excavation shall be field staked or flagged by a licensed land surveyor.
15. Contact CALL BEFORE YOU DIG at 1–800–922–4455 to verify the location of underground utilities prior to the start of any ground disturbance.
16. Clear and grub trees for the excavation of Phase 2.
17. Demolish the existing house, remove electrical utilities, abandon the well and remove the existing septic system. Abandonment of the well shall be coordinated with the installation of a new well to serve 285 River Road.
18. Install silt fence at the down gradient limits of the Phase 2 excavation area perimeter.
19. Strip topsoil and subsoil. An adequate quantity of topsoil and subsoil shall be stockpiled on the site for final restoration. Stockpiles should be within the approved limits of excavation and shall be protected with perimeter erosion controls and/or temporary seeding as required.
20. Begin excavation by downcutting the entire Phase 2 area to an elevation approximately 2' above the water table.
21. Excavate the northerly portion of Phase 2 to the proposed final elevation and then backfill to the proposed final subgrade elevation. Subgrade elevations shall allow for containment during dewatering of excavated materials.
22. Excavate the southerly portion of Phase 2 to the proposed final elevations. Side slopes and the area adjacent to property boundaries shall be backfilled as required to establish proposed grades.
23. Loam and seed disturbed areas and side slopes to establish permanent vegetative cover. See Restoration Notes below for additional details.
24. Temporary erosion and sediment controls shall be removed after the establishment of permanent vegetative cover.

RESTORATION NOTES:

1. Restoration of disturbed areas shall take place following the completion of excavation or other work. Sufficient restoration bonding should be maintained as required by the Town to cover the restoration cost for disturbed/open site areas.
2. Final restoration shall begin with establishing the required subgrade elevations. Proposed grades shown are approximate and may be adjusted to match field conditions at the time of restoration. In general, all disturbed slopes shall be graded to a 3H:1V maximum gradient.
3. Prepare the restoration area by spreading a 12" min. thickness (compacted) layer of silt or washing fines.
4. Complete restoration by spreading on–site stockpiled topsoil to an approximate minimum thickness of 4" (compacted) and seeding for a permanent vegetative cover. On–site topsoil stockpiles may be supplemented with composted organic matter, wood chips and imported topsoil as necessary to provide a suitable planting medium.
5. Spread seed for a permanent vegetative cover over the prepared restoration area. The permanent vegetative cover may be a suitable wildlife habitat mix or the following mixture which is suitable for use in all locations:

Variety	Lbs/Acre
Switchgrass (Blackwell, Shelter, Cave–in–rock)	4.0
Big Bluestem (Niagra, Kaw)	4.0
Little Bluestem (Blaze, Aldous, Camper)	2.0
Sand Lovegrass (NE–27, Bend)	1.5
Bird's–foot Trefoil (Empire, Viking)	2.0
	TOTAL 13.5

6. Hay or straw mulch shall be utilized on 3H:1V slopes to provide temporary stabilization during establishment of permanent vegetative cover. In general, no slopes greater than 3H:1V will be allowable. In the event that steeper slopes are necessary in isolated locations to transition to existing natural grades, no slopes should be steeper than 2H:1V.
7. Fertilizer and lime shall be provided as required to establish a permanent vegetative cover.
8. In lieu of the manual application of mulch and fertilizer, the restoration area may be planted with hydroseeding methods with a suitable tackifier, mulch and fertilizer mix.

PERCOLATION TEST RESULTS
May 24, 2022
NDDH
File #22000255 & 22000293

PERC 1
Depth: 23"

TIME	READING
11:47	2.5"
11:54	8"
12:01	11.5"
12:08	15.25"
12:15	17.5"
12:22	19"
12:25	dry

Percolation Rate: 4.6 min/inch

PERC 2
Depth: 24"

TIME	READING
12:18	8.5"
12:20	10.875"
12:25	14"
12:30	16.5"
12:35	19"
12:40	20.75"

Percolation Rate: 2.8 min/inch

PERC 3
Depth: 23"

TIME	READING
11:18	7.75"
11:20	9.5"
11:22	11.375"
11:24	12.875"
11:26	14"
11:28	15.125"
11:30	16"
11:32	16.875"
11:34	17.75"
11:36	18.375"
11:38	19"

Percolation Rate: 3.2 min/inch

PERC 4
Depth: 25"

TIME	READING
10:00	8"
10:37	11.5"
10:49	15.75"
10:59	18"
11:14	21.25"

Percolation Rate: 4.6 min/inch

PERCOLATION TEST RESULTS
May 24, 2022
NDDH
File #22000255 & 22000293

PERC 5
Depth: 24"

TIME	READING
1:21	4.75"
1:24	9.25"
1:27	12.875"
1:30	15"
1:33	16.75"
1:36	18.5"
1:39	20"
1:42	21"
1:45	22"

Percolation Rate: 3 min/inch

PERC 6
Depth: 15"

TIME	READING
10:25	4"
10:31	5.75"
10:40	7.5"
10:55	9.5"
11:00	10.125"
11:05	10.5"
11:10	10.875"

Percolation Rate: 13 min/inch

PERC 7
Depth: 19"

TIME	READING
2:01	6.75"
2:02	7.875"
2:07	9.5"
2:12	11.125"
2:17	12.375"
2:22	13.25"
2:27	14.125"
2:32	15"

Percolation Rate: 5.7 min/inch

PERC 8
Depth: 26"

TIME	READING
3:02	4.25"
3:05	11"
3:08	14.5"
3:11	17.25"
3:16	19.875"
3:22	22"
3:24	dry

Percolation Rate: 2.8 min/inch

PERCOLATION TEST RESULTS
May 24, 2022
NDDH
File #22000255 & 22000293

PERC 9
Depth: 22"

TIME	READING
10:51	7.5"
11:01	10.75"
11:11	12.5"
11:21	14"
11:31	15.5"
11:41	17"

Percolation Rate: 6.6 min/inch

PERC 10
Depth: 22"

TIME	READING
10:22	2.75"
10:30	8"
10:38	11.25"
10:52	14.875"
11:01	16.5"
11:13	17.75"

Percolation Rate: 9.6 min/inch

PERC 11
Depth: 23"

TIME	READING
11:23	5.25"
11:35	11.75"
11:43	13.5"
11:51	14.5"
11:59	15.5"
12:07	16.5"

Percolation Rate: 8.0 min/inch

PERC 12
Depth: 22"

TIME	READING
11:47	7.75"
11:53	11.375"
12:00	13.25"
12:10	15"
12:20	16.25"
12:30	17.5"

Percolation Rate: 8.0 min/inch

TEST PIT OBSERVATIONS
May 24, 2022
Northeast District Department of Health
File #22000255 & 22000293

TEST PIT	DEPTH	SOIL DESCRIPTION
1–1	0"–4"	organics, topsoil
	4"–25"	brown loamy sand
	25"–48"	rotten rock
	Mottling	N/A
	GWT	N/A
	Ledge	48"
	Restrictive	25"
1–2	0–3"	topsoil, organics
	3"–30"	brown loamy sand, boney, rotten rock starts @ 16"
	Mottling	N/A
	GWT	N/A
	Ledge	30"
	Restrictive	16" (unsuitable)
1–3	0–5"	organics, topsoil
	5"–32"	brown loamy sand
	32"–75"	gray compact sandy pan
	Mottling	N/A
	GWT	N/A
	Ledge	N/A
	Restrictive	32"
1–4	0–3"	organics, topsoil
	3"–22"	brown sandy loam, roots
	22"–74"	mottled gray moist very fine sandy loam
	Mottling	22"
	GWT	N/A
	Ledge	N/A
1–5	0–5"	organics, topsoil
	5"–27"	tan sandy loam
	27"–76"	gray compact sandy pan
	Mottling	N/A
	GWT	N/A
	Ledge	N/A
	Restrictive	27"
2–1	0–6"	organics, topsoil, roots
	6"–20"	yellow brown fine sandy loam
	20"–32"	loamy very fine sand
	32"–72"	gray very fine loamy sand, mottled
	Mottling	32"
	GWT	N/A
	Ledge	N/A
	Restrictive	32"
2–2	0–8"	organics, topsoil, roots
	8"–25"	loamy fine sand, some roots
	25"–40"	gray loamy fine sand, mottled
	40"–74"	compact rotten rock, mica
	Mottling	25"
	GWT	N/A
	Ledge	rotten rock @ 40"
	Restrictive	25"
3–1	0–12"	organics, topsoil, roots
	12"–26"	fine sandy loam, roots, some rocks
	26"–59"	tight gray loamy very fine sand, some rocks
	59"–73"	loamy coarse sand & gravel
	Mottling	26"
	GWT	N/A
	Ledge	N/A
	Restrictive	26"
3–2	0–10"	organics, topsoil, roots
	10"–18"	fine sandy loam, roots
	18"–26"	loamy very fine sand, few roots
	26"–43"	tight gray loamy very fine sand, mottled
	43"–69"	coarse sands & gravel
	Mottling	26"
	GWT	N/A
	Ledge	N/A
	Restrictive	26"
4–1	0–12"	topsoil, roots
	12"–26"	silty loamy fine sand, few roots
	26"–38"	gray silty loamy fine sand, mottled
	38"–54"	tight loamy sand & gravel
	54"–75"	boney med. sands & gravel
	Mottling	26"
	GWT	N/A
	Ledge	N/A
	Restrictive	26"
4–2	0–14"	topsoil, roots
	14"–22"	sandy loam, roots, large rocks
	22"–45"	silty loamy fine sand
	Mottling	N/A
	GWT	N/A
	Ledge	32" (unsuitable)
4–3	0–12"	topsoil, roots
	12"–30"	fine sandy loam to silty loamy fine sand, roots, large rocks
	30"–72"	tight very boney sands & gravel
	Mottling	N/A
	GWT	N/A
	Ledge	N/A
	Restrictive	30"
5–1	0–12"	organics, topsoil
	12"–25"	brown loamy sand
	25"–43"	moist, gray very fine loamy sand, silty
	43"–77"	mod. compact boney med. sand
	Mottling	N/A
	GWT	N/A
	Ledge	N/A
	Restrictive	25"
5–2	0–10"	organics, topsoil
	10"–35"	brown loamy sand
	35"–45"	boney compact gray loamy sand
	45"–77"	boney med. sand
	Mottling	N/A
	GWT	N/A
	Ledge	N/A
	Restrictive	35"
6–1	0–5"	organics, topsoil
	5"–27"	brown sandy loam, rocks
	27"–67"	gray boney mottled very fine sand
	Mottling	28"
	GWT	N/A
	Ledge	N/A
	Restrictive	27"

TEST PIT OBSERVATIONS
May 24, 2022
Northeast District Department of Health
File #22000255 & 22000293

TEST PIT	DEPTH	SOIL DESCRIPTION
6–2	0–14"	topsoil, garbage
	14"–24"	tan loamy sand, boney
	24"–68"	gray mottled loamy sand
	Mottling	26"
	GWT	N/A
	Ledge	N/A
	Restrictive	27"
6–3	0–10"	organics, topsoil
	10"–15"	loamy sand
	15"–44"	gray very fine loamy sand, silty
	44"–78"	sandy & gravel, boney
	Mottling	N/A
	GWT	N/A
	Ledge	N/A
	Restrictive	15"
7–1	0–8"	topsoil
	8"–24"	gravelly loam sand, large rocks
	24"–73"	coarse sand & gravel, boney
	Mottling	N/A
	GWT	N/A
	Ledge	73"
7–2	0–8"	topsoil, roots
	8"–22"	loamy fine sand, roots, rocks
	Mottling	N/A
	GWT	N/A
	Ledge	22" (unsuitable)
7–3	0–8"	topsoil, roots
	8"–24"	loamy sand with fines, large rocks
	24"–72"	boney coarse sands & gravel
	Mottling	N/A
	GWT	N/A
	Ledge	N/A
8–1	0–10"	organics, topsoil
	10"–30"	sandy loam, some gravel, roots
	30"–75"	coarse sands and gravel with rotten rock
	Mottling	N/A
	GWT	N/A
	Ledge	N/A
	Restrictive	30"
8–2	0–7"	organics, topsoil
	7"–30"	sandy loam, some gravel, roots
	30"–70"	coarse sands & gravel with rotten rock
	Mottling	N/A
	GWT	N/A
	Ledge	N/A
	Restrictive	30"
9–1	0–4"	organics, topsoil, roots
	4"–19"	sandy loam, roots
	Ledge	16"–19" (unsuitable)
9–3	0–4"	organics, topsoil, roots
	4"–26"	sandy loam, roots, rocks
	26"–32"	loamy fine sand, some roots, rocks
	32"–74"	compact rocks, silty loamy fine sand
	Mottling	N/A
	GWT	N/A
	Ledge	N/A
	Restrictive	32"
9–4	0–5"	organics, topsoil, roots
	5"–14"	sandy loam, roots, rocks
	14"–29"	loamy fine sand, few roots, rocks
	29"–63"	compact silty loamy very fine sand, rocks
	Mottling	N/A
	GWT	N/A
	Ledge	N/A
	Restrictive	29"
10–1	0–2"	organics, topsoil
	2"–15"	brown fine sandy loam
	15"–22"	tan sandy loam, mod. compact
	22"–36"	gray compact sandy pan
	Mottling	N/A
	GWT	N/A
	Ledge	36" (unsuitable)
10–2	0–3"	organics, topsoil
	3"–16"	brown fine sandy loam
	16"–24"	mod. compact fine sandy loam
	24"–34"	compact gray sandy pan
	Mottling	N/A
	GWT	N/A
	Ledge	34" (unsuitable)
10–3	0–2"	organics, topsoil, large rocks
	2"–16"	brown fine sandy loam
	16"–22"	tan loamy fine sand
	22"–44"	gray sandy pan, moist
	Mottling	N/A
	GWT	N/A
	Ledge	44" (unsuitable)
	Restrictive	22"

TEST PIT OBSERVATIONS
May 24, 2022
Northeast District Department of Health
File #22000255 & 22000293

TEST PIT	DEPTH	SOIL DESCRIPTION
10–4	0–2"	organics, topsoil
	2"–18"	brown fine sandy loam
	18"–23"	mod. compact tan loamy fine sand
	23"–54"	compact gray sandy pan, moist
	Mottling	N/A
	GWT	N/A
	Ledge	54"
10–5	0–3"	organics, topsoil, roots
	3"–17"	brown fine sandy loam
	17"–30"	tan loamy fine sand
	30"–46"	gray compact pan
	Mottling	N/A
	GWT	N/A
	Ledge	46" (unsuitable)
	Restrictive	30"
10–6	0–3"	organics, topsoil
	3"–16"	brown fine sandy loam
	16"–26"	mod. compact tan loamy fine sand
	26"–58"	compact gray pan, mottled
	Mottling	26"
	GWT	N/A
	Ledge	58"
	Restrictive	26"
10–7	0–3"	organics, topsoil
	3"–20"	brown fine sandy loam
	20"–32"	mod. compact tan loamy fine sand
	32"–73"	gray boney pan, rotten rock
	Mottling	N/A
	GWT	N/A
	Ledge	N/A
	Restrictive	32"
10–8	0–4"	organics, topsoil
	4"–15"	brown fine sandy loam, some rocks
	15"–26"	mod. compact tan loamy fine sand
	26"–75"	compact gray mottled pan
	Mottling	26"
	GWT	N/A
	Ledge	N/A
	Restrictive	26"
11–1	0–3"	organics, topsoil
	3"–23"	brown fine sandy loam, large rocks
	23"–33"	moist tan loamy fine sand, large rocks
	33"–74"	mottled gray sandy pan, moist
	Mottling	33"
	GWT	N/A
	Ledge	rotten rock @ 36"
11–2	0–4"	organics, topsoil
	4"–16"	brown fine sandy loam
	16"–23"	tan loamy fine sand, mod. compact
	23"–75"	moist, compact grayish tan sandy pan
	Mottling	N/A
	GWT	N/A
	Ledge	N/A
	Restrictive	23"
12–1	0–6"	organics, topsoil, roots, rocks
	6"–22"	sandy loam, roots, rocks
	22"–24"	loamy fine sand, few roots
	24"–68"	compact silty loamy fine sand
	Mottling	N/A
	GWT	N/A
	Ledge	N/A
	Restrictive	24"
12–2	0–5"	organics, topsoil, roots, rocks
	5"–26"	loamy sand with fines, roots, rocks
	26"–72"	compact silty loamy fine sand with rocks
	Mottling	N/A
	GWT	N/A
	Ledge	N/A
	Restrictive	26"

ENGINEER — DATE 8/8/22

DETAIL SHEET No. 1

PREPARED FOR

285 RIVER ROAD, LLC &
PUTNAM RIVER ROAD, L.L.C.

RIVER ROAD & MODOCK ROAD
PUTNAM, CONNECTICUT

REVISIONS	
DATE	DESCRIPTION
7/29/2022	MISC. REVISIONS

DATE: 6/29/2022	DRAWN: DJH
SCALE: AS SHOWN	DESIGN: DJH
SHEET: 16 OF 17	CHK BY: ---
DWG. No: Client File	JOB No: 203095

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SEPTIC SYSTEM DESIGN CRITERIA

LOT 1
TP 1–3, 1–4, 1–5
Depth to restrictive layer = 27 in.
Slope % = 2.8 %
Number of Bedrooms = 3
Percolation rate = 4.6 min/in
Max. depth into exist. grade = 0 in.
System Size = 495 s.f.

Hydraulic Factor = 42
Flow Factor = 1.50
Perc Factor = 1.00

42 x 1.50 x 1.00 = 63.0'

MLSS = 63.0'

LOT 2
TP 2–1, 2–2
Depth to restrictive layer = 29 in.
Slope % = 9.5 %
Number of Bedrooms = 3
Percolation rate = 2.8 min/in
Max. depth into exist. grade = 1 in.
System Size = 495 s.f.

Hydraulic Factor = 26
Flow Factor = 1.50
Perc Factor = 1.00

26 x 1.50 x 1.00 = 39.0'

MLSS = 39.0'

LOT 3
TP 3–1, 3–2
Depth to restrictive layer = 26 in.
Slope % = 2.5 %
Number of Bedrooms = 3
Percolation rate = 3.2 min/in
Max. depth into exist. grade = 2 in.
System Size = 495 s.f.

Hydraulic Factor = 48
Flow Factor = 1.50
Perc Factor = 1.00

48 x 1.50 x 1.00 = 72.0'

MLSS = 72.0'

LOT 4
TP 4–1, 4–3
Depth to restrictive layer = 28 in.
Slope % = 1.1 %
Number of Bedrooms = 3
Percolation rate = 4.6 min/in
Max. depth into exist. grade = 2 in.
System Size = 495 s.f.

Hydraulic Factor = 49
Flow Factor = 1.50
Perc Factor = 1.00

49 x 1.50 x 1.00 = 73.5'

MLSS = 73.5'

LOT 5
TP 5–1, 5–2
Depth to restrictive layer = 30 in.
Slope % = 1.1 %
Number of Bedrooms = 3
Percolation rate = 3.0 min/in
Max. depth into exist. grade = 1 in.
System Size = 495 s.f.

Hydraulic Factor = 49
Flow Factor = 1.50
Perc Factor = 1.00

49 x 1.50 x 1.00 = 73.5'

MLSS = 73.5'

LOT 6
TP 7–1, 7–3
Depth to restrictive layer = 72 in.
Slope % = 2.4 %
Number of Bedrooms = 3
Percolation rate = 5.7 min/in
Max. depth into exist. grade = 24 in.
System Size = 495 s.f.

MLSS is not applicable

LOT 7
TP 8–1, 8–2
Depth to restrictive layer = 30 in.
Slope % = 1.2 %
Number of Bedrooms = 3
Percolation rate = 2.8 min/in
Max. depth into exist. grade = 6 in.
System Size = 495 s.f.

Hydraulic Factor = 49
Flow Factor = 1.50
Perc Factor = 1.00

49 x 1.50 x 1.00 = 73.5'

MLSS = 73.5'

LOT 8
TP 9–3, 9–4
Depth to restrictive layer = 31 in.
Slope % = 11.8 %
Number of Bedrooms = 3
Percolation rate = 6.6 min/in
Max. depth into exist. grade = 11 in.
System Size = 495 s.f.

Hydraulic Factor = 20
Flow Factor = 1.50
Perc Factor = 1.00

20 x 1.50 x 1.00 = 30.0'

MLSS = 30.0'

LOT 9
TP 10–6, 10–7, 10–8
Depth to restrictive layer = 28 in.
Slope % = 5.7 %
Number of Bedrooms = 3
Percolation rate = 9.6 min/in
Max. depth into exist. grade = 8 in.
System Size = 495 s.f.

Hydraulic Factor = 30
Flow Factor = 1.50
Perc Factor = 1.00

30 x 1.50 x 1.00 = 45.0'

MLSS = 45.0'

LOT 10
TP 11–1, 11–2
Depth to restrictive layer = 28 in.
Slope % = 5.3 %
Number of Bedrooms = 3
Percolation rate = 8.0 min/in
Max. depth into exist. grade = 5 in.
System Size = 495 s.f.

Hydraulic Factor = 30
Flow Factor = 1.50
Perc Factor = 1.00

30 x 1.50 x 1.00 = 45.0'

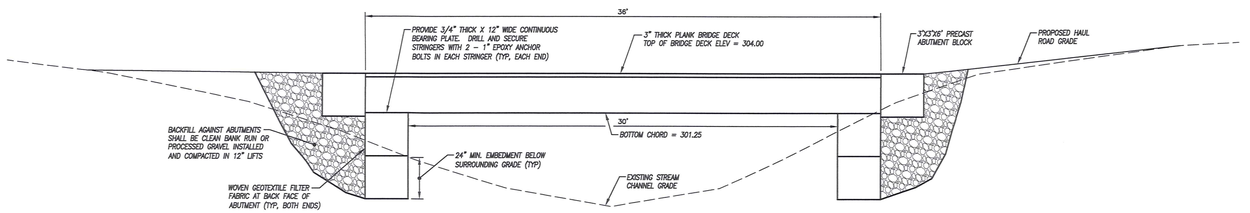
MLSS = 45.0'

LOT 11
TP 12–1, 12–2
Depth to restrictive layer = 25 in.
Slope % = 8.9 %
Number of Bedrooms = 3
Percolation rate = 8.0 min/in
Max. depth into exist. grade = 6 in.
System Size = 495 s.f.

Hydraulic Factor = 28
Flow Factor = 1.50
Perc Factor = 1.00

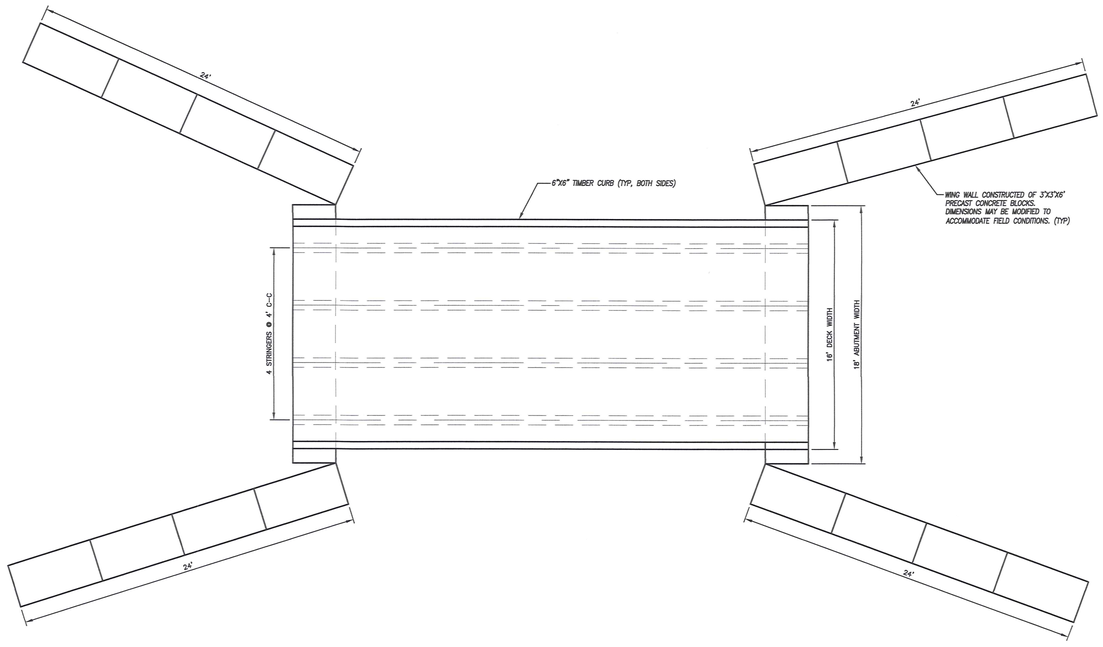
28 x 1.50 x 1.00 = 42.0'

MLSS = 42.0'



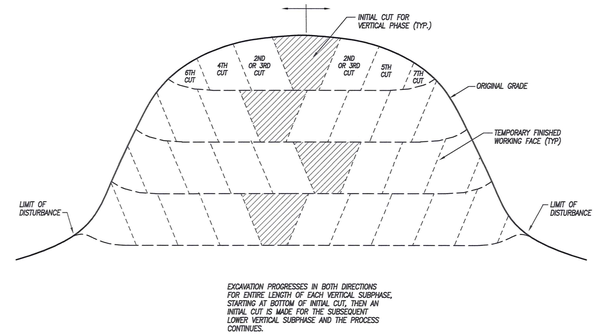
LONGITUDINAL BRIDGE SECTION

SCALE: 1" = 5'



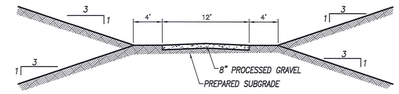
BRIDGE PLAN VIEW

SCALE: 1" = 5'



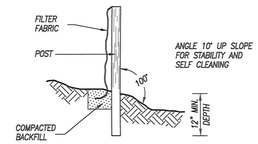
DETAIL SHOWING "DOWNCUTTING" EXCAVATION METHOD

NOT TO SCALE



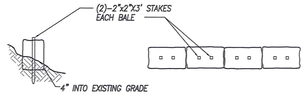
RESIDENTIAL GRAVEL DRIVEWAY DETAIL

NOT TO SCALE



SILT FENCE

NOT TO SCALE



HAYBALE BARRIER

NOT TO SCALE

DETAIL SHEET No. 2

PREPARED FOR

285 RIVER ROAD, LLC &
PUTNAM RIVER ROAD, L.L.C.

RIVER ROAD & MODOCK ROAD
PUTNAM, CONNECTICUT

REVISIONS	
DATE	DESCRIPTION
7/29/2022	MISC. REVISIONS

DATE: 6/29/2022	DRAWN: DJH
SCALE: AS SHOWN	DESIGN: DJH
SHEET: 17 OF 17	CHK BY: ---
DWG. No: Client File	JOB No: 203095

STATE OF CONNECTICUT
DAVID J. ROVERO
LICENSED PROFESSIONAL ENGINEER

ENGINEER 8/9/22 DATE

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