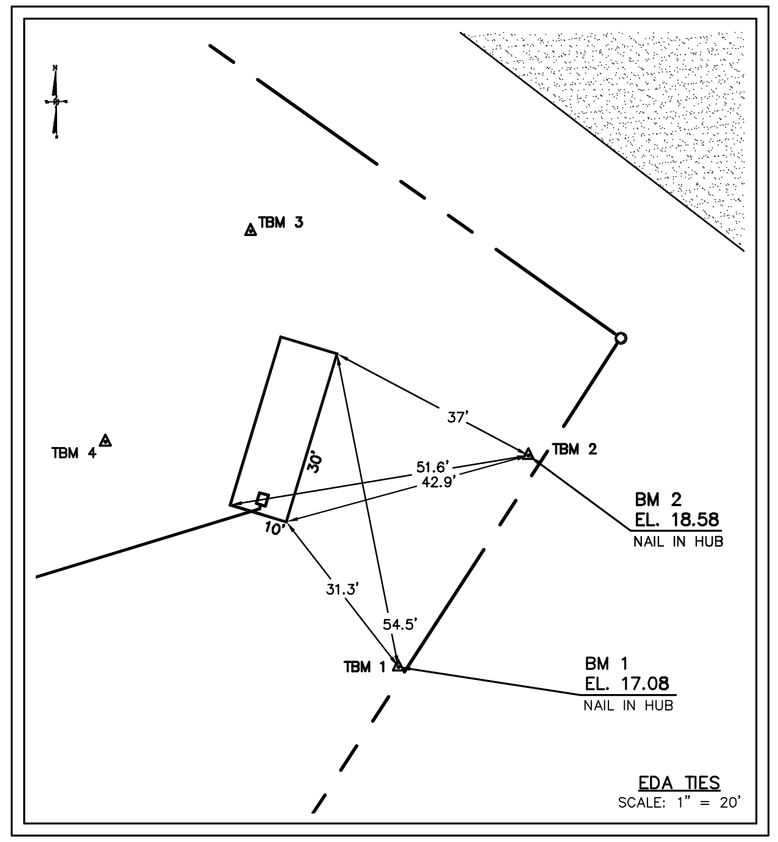
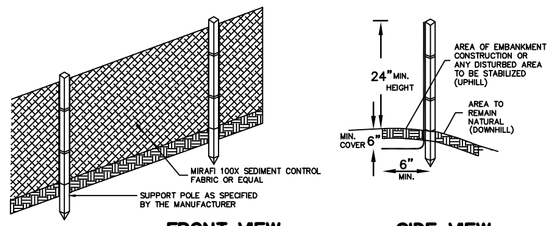




FRONT VIEW

SIDE VIEW

NOTES

1. THE HEIGHT OF THE BARRIER SHALL NOT EXCEED 36 INCHES.
2. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6–INCH OVERLAP, AND SECURELY SEALED. SEE MANUFACTURER'S RECOMMENDATIONS.
3. POSTS SHALL BE PLACED AT A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL BE AS MANUFACTURER RECOMMENDS.
4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 6 INCHES WIDE AND 6 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE OF THE BARRIER IN ACCORDANCE WITH RECOMMENDATIONS.
5. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE, AND WILL EXTEND A MINIMUM OF 6 INCHES INTO THE TRENCH. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
6. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
7. FABRIC BARRIERS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
8. FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST ONCE DAILY DURING PROLONGED RAINFALL AND ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
9. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
10. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE–HALF THE HEIGHT OF THE BARRIER.
11. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

SILT FENCE DETAIL
N.T.S.

NH–DES WAIVER REQUESTED:
Env–Wq 1008–2– REQUEST REPLACEMENT TANK'S SETBACK TO SURFACE WATER BE REDUCED FROM 75' TO 62.42'.

DURHAM ZONING VARIANCES REQUESTED: ZONE – RC, RESIDENCE C

*ARTICLE XII, SECTION 175–54: REQUEST EDA SETBACK TO FRONT PROPERTY LINE REDUCED FROM 40' TO 30'.
REQUEST EDA SETBACK TO SIDE PROPERTY LINE REDUCED FROM 50' TO 30.9'.

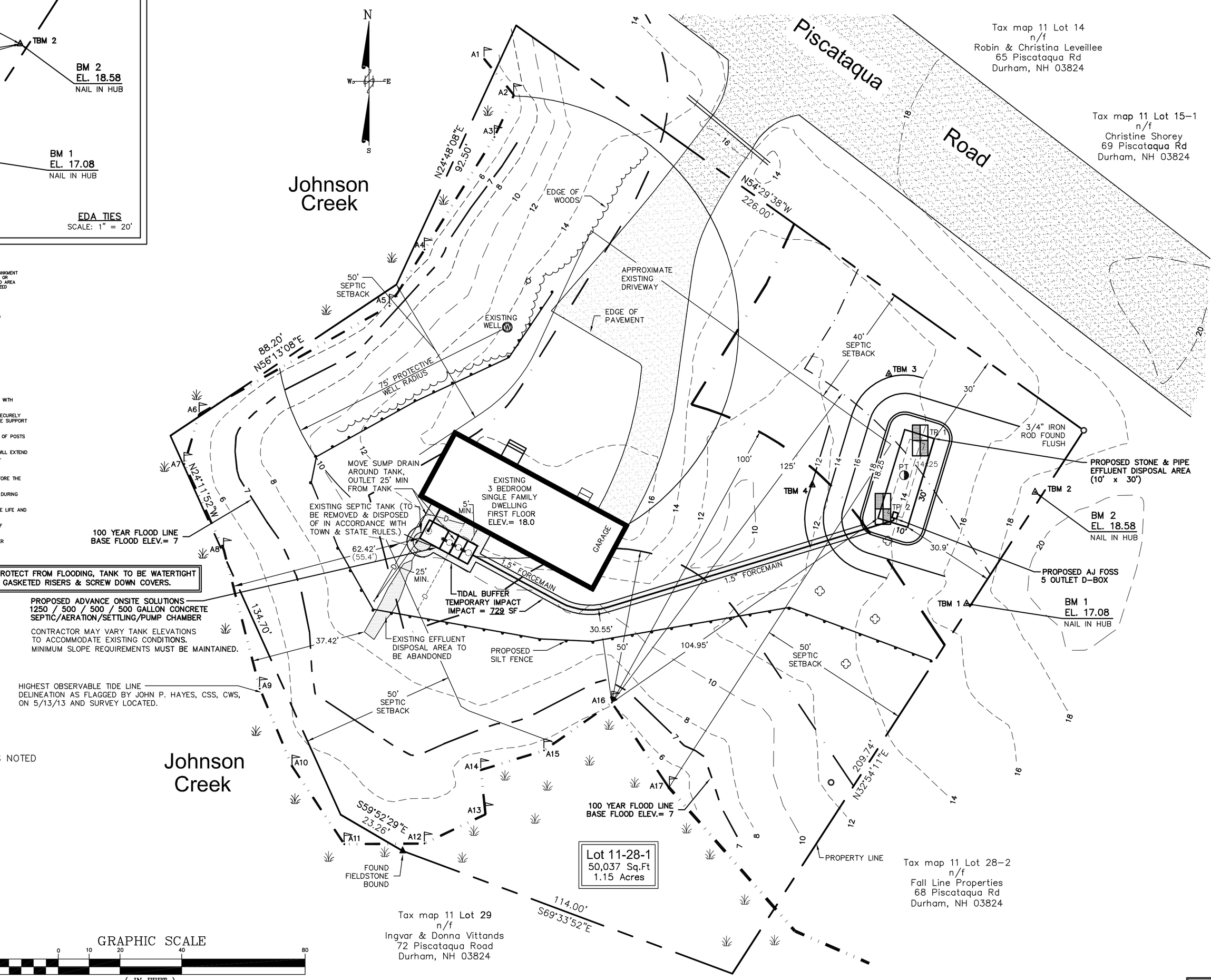
*ARTICLE XIII, SECTION 175–59(A)(2): REQUEST TANK BE PLACED WITHIN 100' TIDAL BUFFER (TANK – 62.42')

*ARTICLE XIII, SECTION 175–65(F): REQUEST TANK & EDA BE PLACED WITHIN 125' OF WET REFERENCE LINE (TANK – 62.42', EDA – 104.95')

*ARTICLE XIV, SECTION 175–74(A1 & B1): REQUEST TANK & EDA BE PLACED WITHIN 125' SHORELAND SETBACK (TANK – 62.42', EDA – 104.95')

*ARTICLE XV, SECTION 175–79: SEPTIC HAS BEEN DESIGNED TO MINIMIZE AND/OR ELIMINATE FLOOD WATERS INFILTRATION.
NOTE: 1) TO PROTECT FROM FLOODING, TANK TO BE WATERTIGHT WITH GASKETED RISERS & SCREW DOWN COVERS.
2) TANK TO BE TIED DOWNED AND/OR BALLISTED.

*ARTICLE XXIV, SECTION 175–139: PROPOSED TANK & EDA ARE LESS THAN 125' FROM JOHNSON CREEK.
NOTE: 1) USING INNOVATIVE TECHNOLOGY (AERATION PRETREATMENT TANK) TO OVERCOME DIFFICULTIES OF LOT.
2) TO PROTECT FROM FLOODING, TANK TO BE WATERTIGHT WITH GASKETED RISERS & SCREW DOWN COVERS.
3) TANK TO BE TIED DOWNED AND/OR BALLISTED.



LEGEND

- FOUND IRON MONUMENT AS NOTED
- n/f — NOW OR FORMERLY
- WETLAND SOIL LINE
- 102 — 2' CONTOUR LINE
- EXISTING WELL
- UTILITY POLE
- EXISTING APPLE TREE
- PHOTO LOCATION
- TIDAL BUFFER IMPACT

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

PLAN INTENT:
THE INTENT OF THIS PLAN IS TO PROVIDE A REPLACEMENT SYSTEM FOR THE FAILED SEPTIC SERVING THE EXISTING 3 BEDROOM HOME.

TEST PITS:

Test Pit: 1 Designer: Penny R Wright Job # 13–0117
Witness: Tom Johnson Date: 6/21/2013
0" – 4" 10 YR 3/3, Dark brown, fine sandy loam, blocky, friable
4" – 24" 2.5 Y 4/4, Olive brown, silty loam, blocky, friable
24" – 72" 2.5 Y 6/3, Light yellowish brown, loamy silt, platy, firm
Estimated Seasonal High Water Table: 24", Observed Water: None
Restrictive: 24", Refusal: None, Roots: 24"
Percolation Rate: 24 mins/inch @ 20"

Test Pit: 2 Designer: Penny R Wright Job # 13–0117
Witness: Tom Johnson Date: 6/21/2013
0" – 5" 10 YR 3/3, Dark brown, fine sandy loam, blocky, friable
5" – 24" 2.5 Y 4/4, Olive brown, silty loam, blocky, friable
24" – 72" 2.5 Y 6/3, Light yellowish brown, loamy silt, platy, firm
Estimated Seasonal High Water Table: 24", Observed Water: None
Restrictive: 24", Refusal: None, Roots: 24"
Percolation Rate: 24 mins/inch @ 20"

SEPTIC / AERATION TANK SIZING:
REQUIRED: 1250 GALLON
PROVIDED: 1250/548/539 GALLON SEPTIC TANK/AERATION CHAMBER/SETTLING CHAMBER (PER ADVANCED ONSITE SOLUTIONS, LLC)

PUMP CHAMBER SIZING:
PROVIDED: 500 GALLON CONCRETE PUMP CHAMBER (PART OF AERATION TANK)

NOTE: PROVIDE RISERS W/ COVERS TO GRADE, OVER ALL ACCESS POINTS.
SEE SHEET 2 FOR SPECIFICATIONS FOR RISERS & COVERS.

DISTRIBUTION BOX SIZING:
PROVIDED: 5 OUTLET CONCRETE DISTRIBUTION BOX, AJ FOSS

EFFLUENT DISPOSAL AREA SIZING:
PERCOLATION RATE = 24 MPI
DESIGN PERCOLATION RATE = 24 MPI
BEDROOMS: 3
LOADING: 450 GPD
REQUIRED: 300 SF (PER ADVANCED ONSITE SOLUTIONS, LLC)
PROVIDED: 300 SF (10' x 30')

EFFLUENT DISPOSAL AREA DIMENSIONS:
LENGTH = 30'
WIDTH = 10'
DIAGONAL = 31.6'

DESIGN INTENT:
THE BOTTOM OF THE EFFLUENT DISPOSAL SYSTEM SHALL BE CONSTRUCTED AT ELEVATION 16.25 . THIS IS APPROXIMATELY 24" ABOVE THE EXISTING GROUND ON THE HIGH CONTOUR OF THE EFFLUENT DISPOSAL SYSTEM, ELEVATION 14.25 .

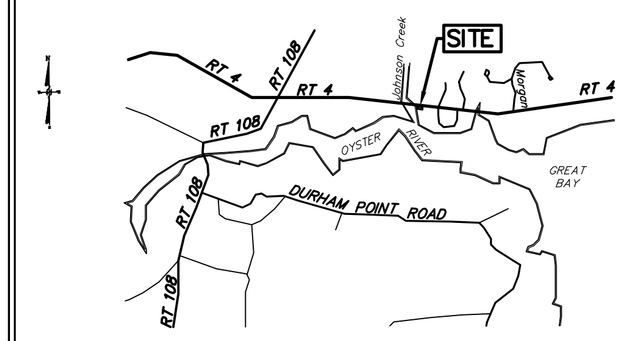
EDA DESIGN NOTES:
FOUNDATION DRAINS: AS SHOWN
NEAREST ABUTTING WELL: OVER 75'
NEAREST POORLY DRAINED WETLAND: 62.42'+
NEAREST VERY POORLY DRAINED WETLAND: 62.42'+
NEAREST SURFACE WATER: 62.42'+

LOT LOADING BY SOILS:

BzB – Buxton (GROUP 3B)	= 1250 GPD/ACRE x 0.69 ACRES =	862 GPD
	TOTAL ALLOWED =	862 GPD
	EXISTING USE =	**450 GPD**

TOTAL ACREAGE:
WELL RADIUS = 0.33 ACRES
WETLANDS = 0.02 ACRES
UPLANDS = 0.69 ACRES
TOTAL = 1.04 ACRES

LOCUS
NOT TO SCALE



SITE IS LOCATED

Official Stamps

NH Designer Stamp

NEW HAMPSHIRE
Designer of Subsurface Disposal Systems
Penny R. Wright
No. 1353
Department of Environmental Services

SUBSURFACE SEWAGE DISPOSAL SYSTEM FOR

Teeri Living Trust

Robert & Gale Teeri, Trustees
66 Piscataqua Road
Durham, NH 03824

TAX MAP 11, LOT 28–1 SD#: PREDATES 1967 DEED Bk/Pg: 2178 / 328

Drawing # 13–0117
Job # 13–0117
Date: 8/13
Drawn By: PRW
Checked By: PRW

Date	Revision	By

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