

SEC 21, TWP 13N, RGE 9E, W.M.

VICINITY MAP
N.T.S.

PROJECT INFORMATION

OWNER/APPLICANT: PACKWOOD LAND COMPANY, LLC
1117 BROADWAY PLAZA, STE. 500
TACOMA, WA 98402

PARCEL NO: 035185001000 & 035185002000

SITE ADDRESS: US HWY 12
PACKWOOD, WA 98361

ZONING: STMU

PARCEL AREA (GROSS): ±13.89 ACRES

NUMBER OF LOTS: 36

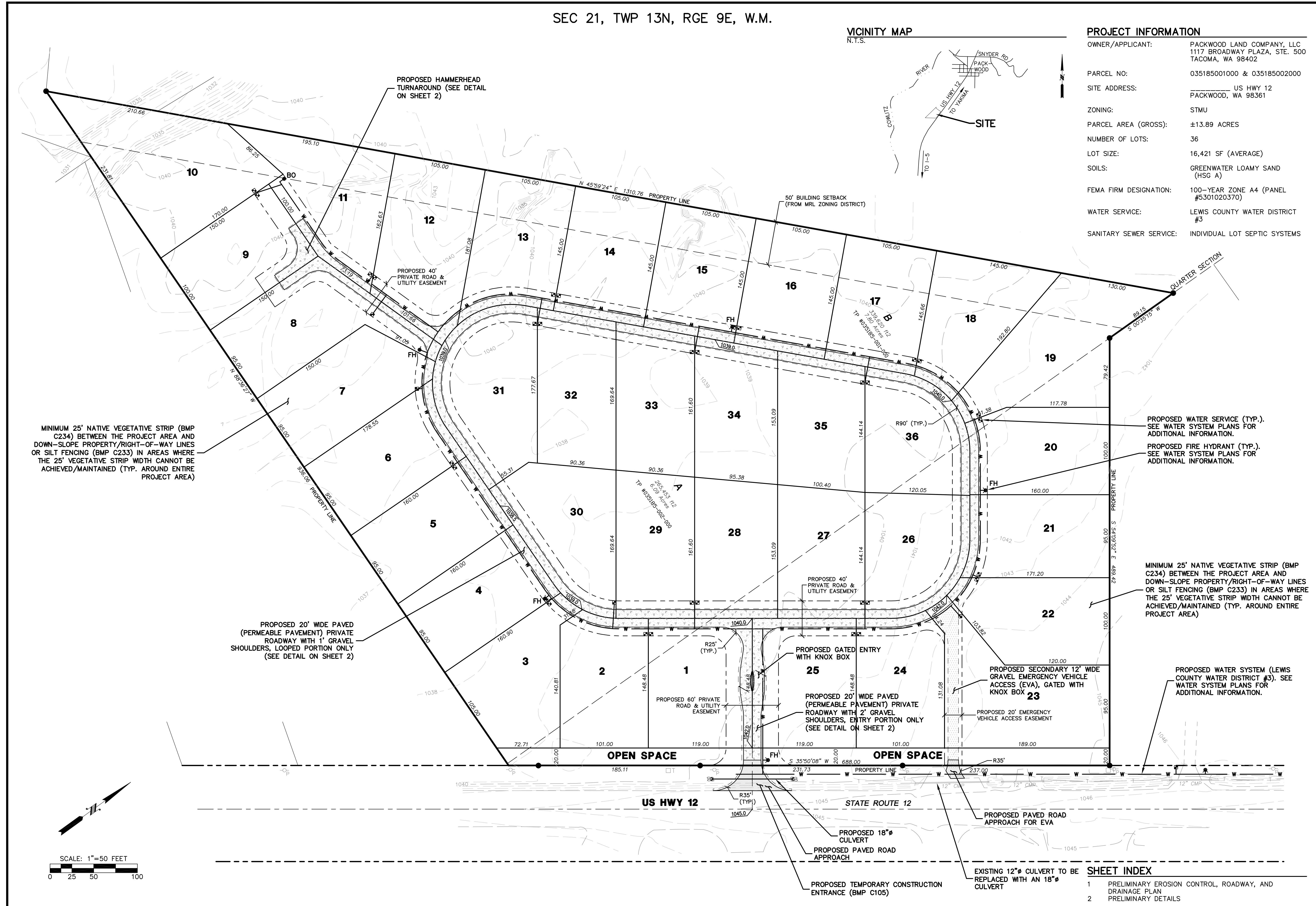
LOT SIZE: 16,421 SF (AVERAGE)

SOILS: GREENWATER LOAMY SAND (HSG A)

FEMA FIRM DESIGNATION: 100-YEAR ZONE A4 (PANEL #5301020370)

WATER SERVICE: LEWIS COUNTY WATER DISTRICT #3

SANITARY SEWER SERVICE: INDIVIDUAL LOT SEPTIC SYSTEMS



NO.	DATE	REVISIONS PER COUNTY COMMENTS
1	3/7/23	

SUNFISHER

LEWIS COUNTY, WASHINGTON

PRELIMINARY EROSION CONTROL, ROADWAY, AND DRAINAGE PLAN

DESIGNED BY: CMM

DRAWN BY: CMM

CHECKED BY: CMM

SCALE: 1" = 50'

DATE: 4/14/2022

3/1/2023

CHRISTOPHER M. JENSEN
STATE OF WASHINGTON
PROFESSIONAL ENGINEER
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OLYMPIC ENGINEERING
Civil Engineering - Land Planning - Project Management

JOB NUMBER: 21067
DRAWING NAME: 21067_DRPL
SHEET: 1 OF 2

SEC 21, TWP 13N, RGE 9E, W.M.

SEE PERMEABLE PAVEMENT SECTION
DETAIL THIS SHEET FOR REFERENCE.

0.8' Compacted Depth Crushed Surfing Top Course
0.2' Compacted Depth Crushed Surfing Base Course
0.8' Compacted Depth Crushed Surfing Base Course
0.2' Compacted Depth Crushed Surfing Top Course
0.8' Compacted Depth Crushed Surfing Base Course
0.2' Compacted Depth Crushed Surfing Top Course

Lanes	Private Roadway		Private Roadway		Private Roadway		Private Roadway		Private Roadway	
	1-2	3-4	5-8	11-20	20-45	45-85	85-110	110-200	200-500	Over 500
Shoulder Width	none	2'	none	1'	2'	3'	4'	6'	8'	8'
Design Speed	<20	<20	20-25	20-30	20-30	25-35	35-45	35-50		
Minimum Embankment Width	30'	40'	40'	40'	60'	60'	60'	60'	60'	60'

GENERAL NOTES:

- Roads serving 16 or more lots, or proposed for County maintenance, shall be paved.
- Maximum road grade shall be 12%, a minimum landing area of 40 feet shall be provided. Maximum grade may be exceeded for short distances with approval from the County Engineer.
- All side slopes and drainage facilities must be contained within the easement or right-of-way.
- Roadway geometrics design shall be in accordance with L&D manual, WSDOT, AASHTO Manual Standards, and be designed by a professional Civil Engineer registered in Washington State.
- Surfing shall be designed with a structural section that takes into account the load bearing capacity of the soils and the traffic carrying requirements of the road. Plans shall be accompanied by the soil and traffic analysis on which the design is based, or as approved by the County Engineer.
- Construction requirements shall follow section of the Standard Specifications, 2-06 Subgrade Preparation; 2-07 Roadway Excavation & Embankment for required compaction Method C; 4-04 Bituminous & Crushed Surfing; 5-04 Hot Bit Asphalt; or 5-03 Bituminous Surface Treatment. Compaction test reports are required for all surfacing materials and subgrade. Test reports shall be submitted to Lewis County Public Works for review. Copies of these requirements are available for review at the County Engineer's Office.
- A minimum of a 20' clear zone is required for 1-4 lots. Clear zone requirements for more than 4 lots will be incorporated as per WSDOT Design Manual. Guardrail may be required on embankments 8' or greater in height within the clear zone.
- A 14 foot minimum vertical clearance shall be maintained.
- Stormwater collection, detention, and treatment shall be in accordance with LCC 16.45.
- All ditches and swales shall be 1' minimum depth below subgrade - where required.
- All horizontal and vertical curves shall be designed to AASHTO guidelines.
- Deviation from these standards may be available by applying to the office of the County Engineer.

Lewis County DEPARTMENT OF PUBLIC WORKS RURAL ROAD SECTION 3-2 Revision Date 10-18-06

Hammerhead Turnaround

OVERHANG AREA - Driving surface in this area is not required. No obstructions greater than twelve (12) inches in height are allowed.

Area required for turn around located at a single residence. In this special case, the area provided could, for instance, consist of pasture adjacent to the building and will continue to function as a visible turn around in adverse weather conditions (i.e., remains solid in any weather).

Minimum required right of way must extend 10' beyond turnaround features.

Lewis County DEPARTMENT OF PUBLIC WORKS HAMMERHEAD DETAIL 3-8 Revision Date 8-31-06

PERMEABLE PAVEMENT SECTION (PRIVATE ROADWAY) (BMP T5.15)

N.T.S.

ADJACENT FINISHED GRADE TO SLOPE DOWN AND AWAY FROM EDGE OF PAVEMENT FOR 5' MINIMUM

4" DEPTH PERMEABLE ASPHALT OR 7" DEPTH PERMEABLE CONCRETE (OWNER OPTION)

1" MIN. FINISHED GRADE

3" KEY

MIN. 1' SEPARATION TO HIGH WATER TABLE OR RESTRICTIVE LAYER

11" HIGH X 24' WIDE CDF OR CONCRETE CHECK DAM (SEE SPACING TABLE)

UNCOMPACTED NATIVE SUBGRADE (SCARIFIED TO 6" DEPTH)

2" DEPTH "GRAVEL BACKFILL FOR DRAINS" (CHOKER COURSE)

12" DEPTH "PERMEABLE BALLAST" (STORAGE RESERVOIR)

GEOTEXTILE FABRIC (ALONG BOTTOM AND SIDES OF STORAGE RESERVOIR)

SLOPE	SPACING (MAX.)
1-3%	NOT REQ'D
3-4%	25'
4-5%	20'
5-6%	17'
6-7%	14'
7-8%	13'
8-9%	11'
9-10%	10'

Lewis County DEPARTMENT OF PUBLIC WORKS PERMEABLE PAVEMENT SECTION (PRIVATE ROADWAY) (BMP T5.15) 3-8 Revision Date 8-31-06

0.30' HMS

0.20' CSTC

FINISH GRADE

0.80' CSBC

COMPACTED NATIVE SUBGRADE OR APPROVED STRUCTURAL FILL

ALL THICKNESSES ARE COMPACTED DEPTHS (95%).

ASPHALT PAVING SECTION (APPROACHES OFF HWY 12) N.T.S.

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1	3/1/23		

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PRELIMINARY DETAILS

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