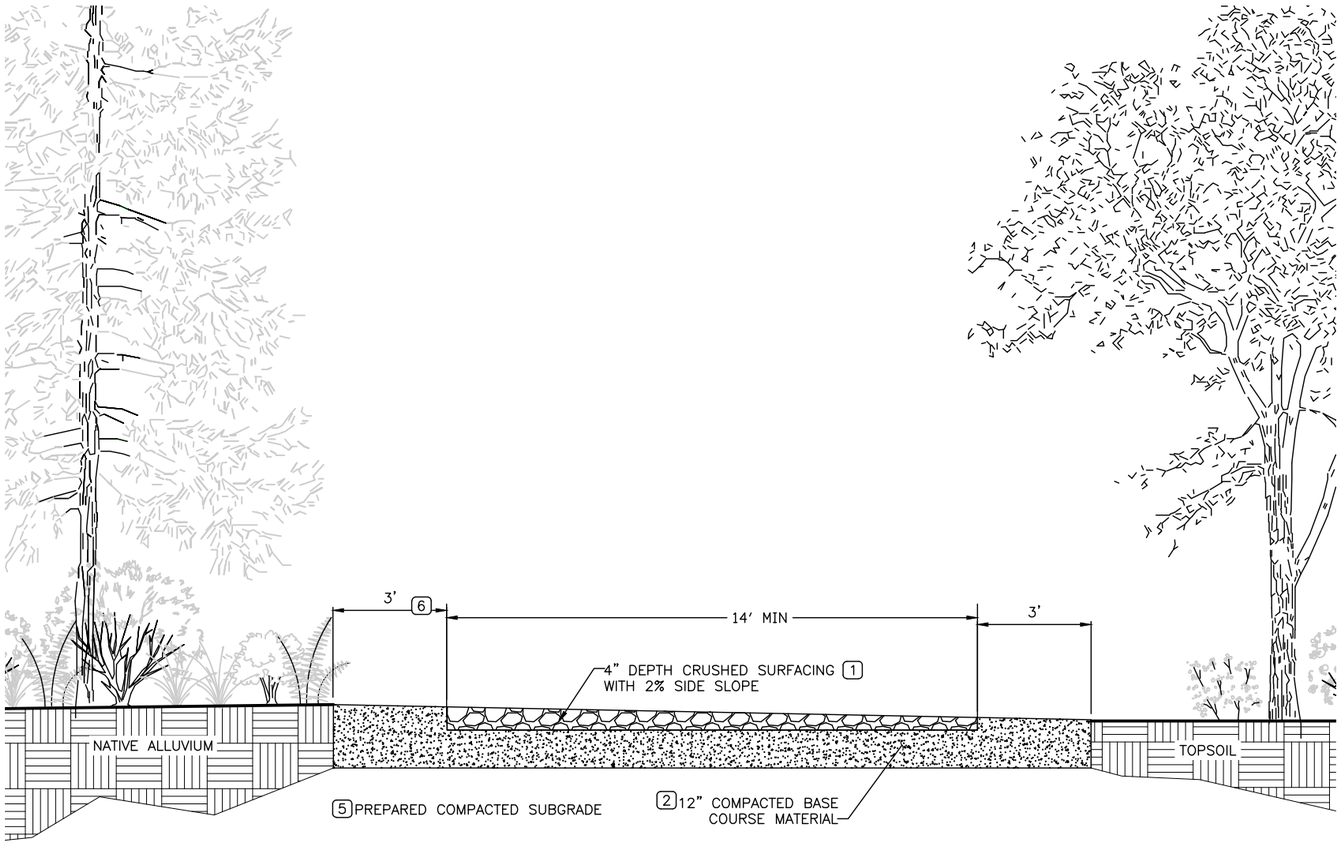
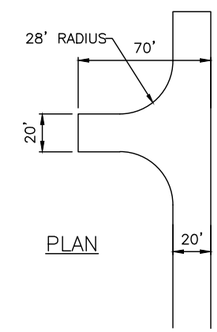


NOTES

1. SEE WSDOT SPEC. 9-03.9(3) FOR MATERIAL REQUIREMENTS.
2. BASE COURSE MATERIAL COMPRISED OF 12" BALLAST, SEE WSDOT SPEC. 9-03.9(1).
3. MAXIMUM PROFILE GRADE 8%.
4. MAXIMUM 2:1 CUT/FILL SLOPES ADJACENT TO ACCESS ROAD.
5. MEET WSDOT SPEC. 2-06 FOR SUBGRADE PREPARATION.
6. EXTEND BALLAST 3-FT BEYOND PROPOSED EDGE OF CRUSHED SURFACING, PER CITY OF SUMNER SPECIFICATION 6.1.6.1.

GRAVEL ACCESS ROAD DETAIL (1/47,48)

NOT TO SCALE



PLAN

ACCEPTABLE ALTERNATIVE TO
120' HAMMERHEAD

NOTE

1. PSE ACCESS ROAD TO END WITH HAMMERHEAD TURNAROUND PER INTERNATIONAL FIRE CODE APPENDIX D FIGURE D103.1.

PSE ACCESS ROAD HAMMERHEAD TURNAROUND (2/48)

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CITY OF SUMNER WASHINGTON

Natural Systems Design

NAME OR INITIALS AND DATE		GEOGRAPHIC INFORMATION	
DESIGNED	SW, MT, RLE, TA	LATITUDE	47°13'53"N
CHECKED	SW, RLE	LONGITUDE	122°13'47"W
DRAWN	GM	TN/SC/RG	T20N/S12/R4E
CHECKED	SW	DATE	JAN 2022

WHITE RIVER RESTORATION PROJECT

PSE ACCESS ROAD DETAILS

89

SHEET 89 OF 111

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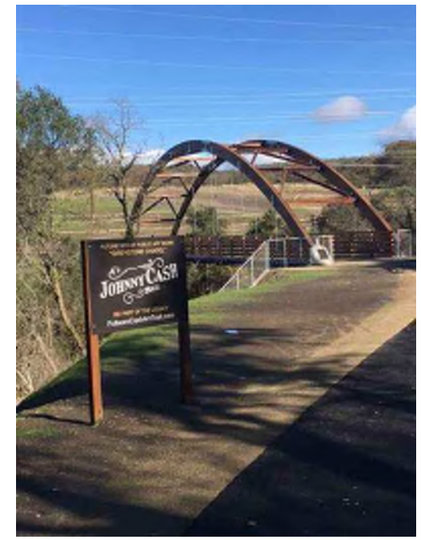

EXAMPLE IMAGES OF TIED ARCH BRIDGE FROM JOHNNY CASH TRAIL, FOLSOM, CA (WESTERN WOOD STRUCTURES)

SPECIFICATIONS	
DESIGN CRITERIA	SPAN: AS SHOWN OUT TO OUT WIDTH: 14' CLEAR BETWEEN RAILS LIVE LOAD: 90 PSF SPRING ANGLE: AS REQUIRED PEDESTRIAN RAIL: 42" HIGH PER AASHTO CAMBER: AS REQUIRED
GLULAM BEAMS	WEST COAST DOUGLAS FIR, COMBINATION AS REQUIRED, INDUSTRIAL APPEARANCE. 100% WATERPROOF GLUE. COMPLETELY FABRICATED PRIOR TO TREATMENT PER WESTERN WOOD STRUCTURES (OR EQUIVALENT) SHOP DRAWINGS. GLULAMS TO INCLUDE TRUSS COMPONENTS, WEBS, KNEE BRACES, FLOOR BEAMS, PURLINS, ARCH SEGMENTS, CHEVRON BRACING, POSTS AND PEDESTRIAN RAILS.
HARDWARE & STEEL	ALL GALVANIZED HARDWARE AND STEEL REQUIRED TO CONNECT THE BRIDGE SUPERSTRUCTURE TOGETHER INCLUDING BEAM SEATS, BEAM BRACES, DECK CLIPS/SCREWS, ROD BRACING, FLOOR BEAM HANGERS, HANGER RODS, PEAK AND HEAL PIN CONNECTIONS AND ALL MISCELLANEOUS NUTS AND BOLTS. EMBEDDED STEEL NOT INCLUDED.
SAWN LUMBER	DOUGLAS FIR NO. I, SURFACE AS REQUIRED. COMPLETELY FABRICATED PRIOR TO TREATMENT PER WESTERN WOOD STRUCTURES (OR EQUIVALENT) SHOP DRAWINGS. SAWN LUMBER TO INCLUDE NONE.
PRESSURE TREATMENT	GLULAMS PRESSURE TREATED WITH AN APPROVED WOOD PRESERVATIVE PER AWPA SPECIFICATIONS.
SHOP DRAWINGS & CALCULATIONS	TO BE FURNISHED BY WESTERN WOOD STRUCTURES (OR EQUIVALENT) AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER STATE OF WASHINGTON.

NOTES

1. TIED ARCH BRIDGE DIMENSIONS ASSUMED TO BE 14' X 153'. PRICE FOR DESIGN, DELIVERY, AND INSTALLATION OF BRIDGE AND ADJUSTMENTS VARIES DEPENDENT ON ABUTMENT AND FOUNDATION DESIGN (TBD).

TYPICAL TIED ARCH BRIDGE DETAIL (1/90)
SCALE: NTS

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DESIGNED	SW, MT, RLE, TA	LATITUDE	47°13'53"N
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WHITE RIVER RESTORATION PROJECT

BRIDGE DETAIL

90

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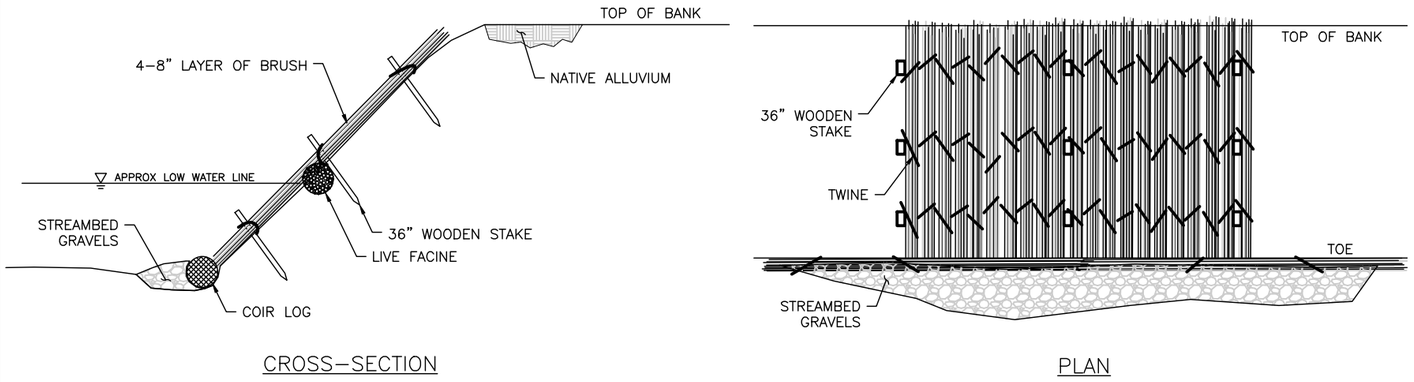


BRUSH MATTRESS (1/91)
SCALE: NOT TO SCALE

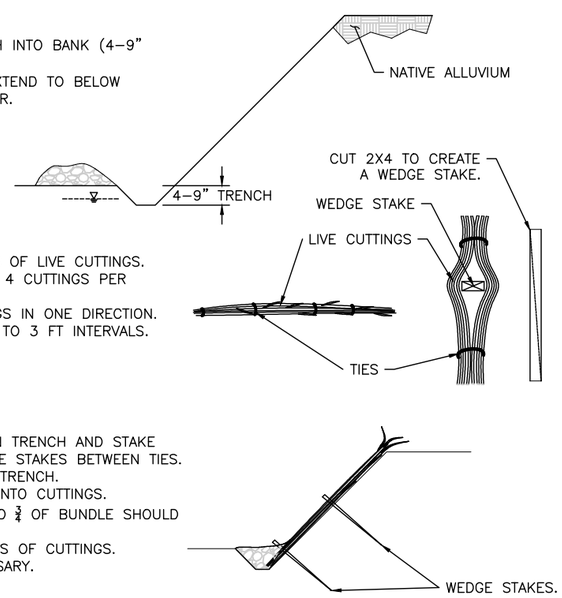
BANK TREATMENTS					
		LEFT BANK		RIGHT BANK	
LOCATION	TREATMENT TYPE	START ST	END ST	START ST	END ST
SIDE CHANNEL 1	COIR	0+00	26+00	0+00	26+00
SIDE CHANNEL 1	BRUSH MATTRESS	9+00	21+00	13+50	15+78
SIDE CHANNEL 1	VERTICAL BUNDLES	8+50	21+50	13+00	16+28
TAILRACE SIDE CHANNEL	COIR	0+00	31+00	0+00	31+00
TAILRACE SIDE CHANNEL	BRUSH MATTRESS	1+00	11+50	–	–
TAILRACE SIDE CHANNEL	VERTICAL BUNDLES	0+50	12+00	–	–
NO. 9 DITCH CHANNEL	COIR	0+00	14+93.5	0+00	14+25.6
MAINSTEM	BRUSH MATTRESS	0+00	04+10	–	–

BANK TREATMENTS (2/91)
SCALE: NOT TO SCALE

STEP 1
- EXCAVATE A TRENCH INTO BANK (4–9" DEPTH).
- TRENCH SHOULD EXTEND TO BELOW RELIABLE LOW WATER.

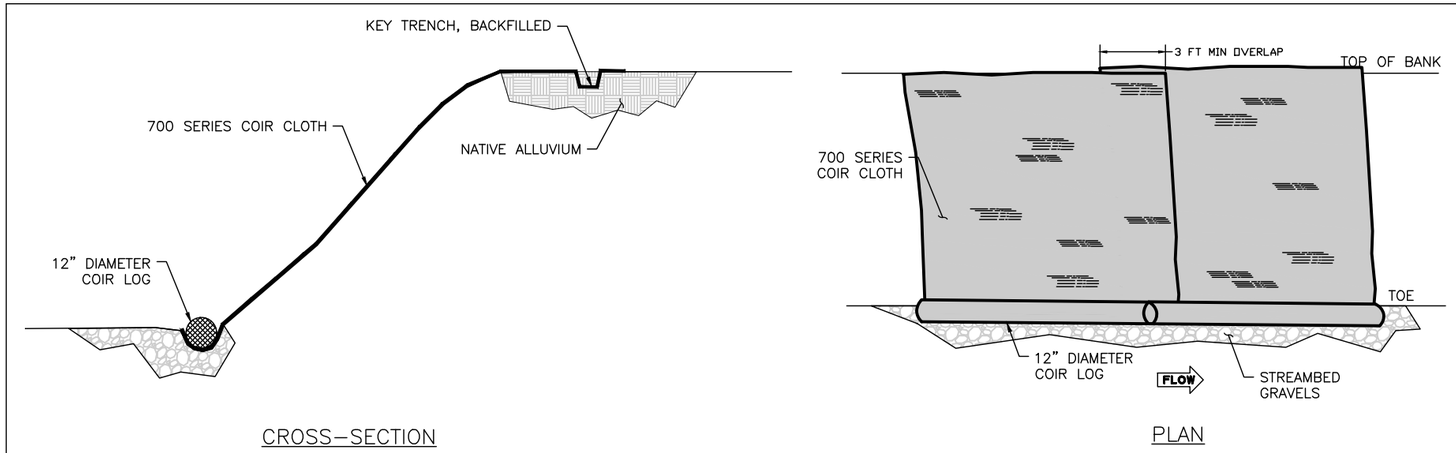
STEP 2
- ASSEMBLE BUNDLES OF LIVE CUTTINGS. USE A MINIMUM OF 4 CUTTINGS PER BUNDLE.
- ORIENT ALL CUTTINGS IN ONE DIRECTION.
- TIE CUTTINGS AT 2 TO 3 FT INTERVALS.

STEP 3
- PLACE A BUNDLE IN TRENCH AND STAKE WITH 2 TO 3 WEDGE STAKES BETWEEN TIES.
- REFILL BOTTOM OF TRENCH.
- WASH LOOSE SOIL INTO CUTTINGS. APPROXIMATELY $\frac{1}{2}$ TO $\frac{3}{4}$ OF BUNDLE SHOULD BE COVERED.
- TRIM TERMINAL BUDS OF CUTTINGS.
- IRRIGATE AS NECESSARY.



REFER TO NRCS TECHNICAL NOTE PLANT MATERIALS NO. 53

VERTICAL BUNDLE DETAIL (3/91)
SCALE: NOT TO SCALE



COIR CLOTH (4/91)
SCALE: NOT TO SCALE

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CITY OF SUMNER WASHINGTON

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CHECKED	SW, RLE	LONGITUDE	122°13'47"W
DRAWN	GM	TN/SC/RG	T20N/S12/R4E
CHECKED	SW	DATE	JAN 2022

WHITE RIVER RESTORATION PROJECT

BANK TREATMENTS

91

SHEET 91 OF 111

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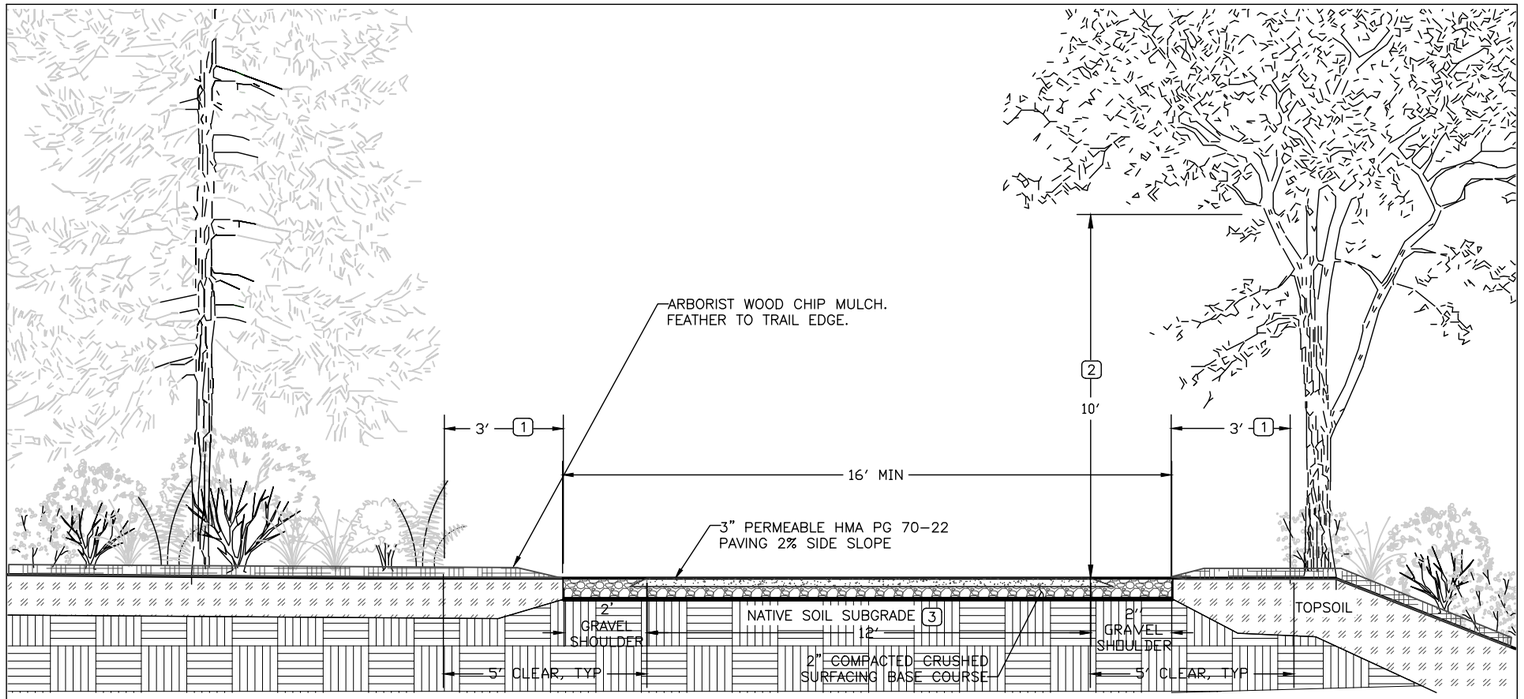
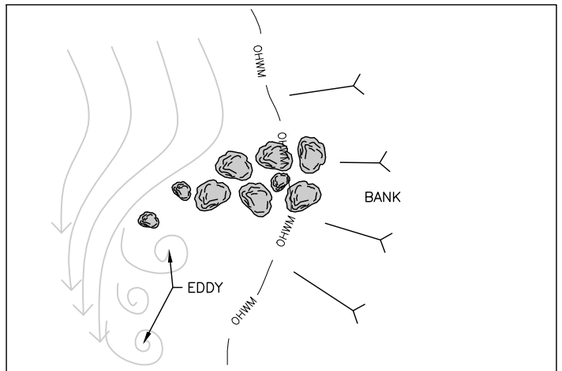


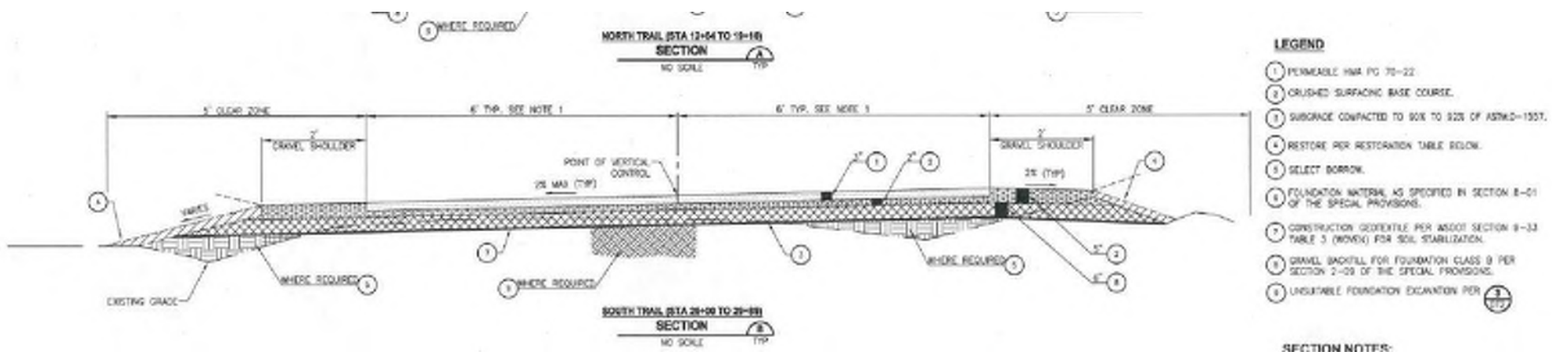
NOTES

1. ON EACH SIDE OF PATH PLACE 3–FT OF ARBORIST WOOD CHIP MULCH WITH NO PLANTINGS, DEPTH OF 3–INCHES MINIMUM.
2. OVERHEAD VEGETATION CLEARANCE.
3. SUBGRADE COMPACTED TO 90% TO 92% OF ASTM D–1557.
4. CLASS I BIKEWAY TRAIL TO BE DESIGNED TO MEET KING COUNTY FIRE CODE (TITLE 17) WITH A MAXIMUM SLOPE OF 15%, ALL WEATHER SURFACE, MIN 20–FT INSIDE RADIUS, MIN 40–FT OUTSIDE RADIUS, AND TO ACCOMMODATE LOADS UP TO 25 TONS. DEAD–END FIRE ACCESS ROUTES LONGER THAN 150–FT MUST INCLUDE CUL–DE–SAC OR HAMMERHEAD TURNAROUND.
5. TRAIL DESIGN BASED OFF OF CITY OF SUMNER PARKS AND TRAILS PLAN 2018 AND KING COUNTY STANDARD SHARED USE PATH DETAIL 3–018.

TYPICAL CLASS I BIKEWAY TRAIL SECTION VIEW (1/92)
SCALE: NOT TO SCALE



ROCK ROUGHNESS FEATURE (2/92)
SCALE: NOT TO SCALE



EXAMPLE SECTION VIEW FROM 2011 WHITE RIVER TRAIL EXTENSION PROJECT (–/–)
SCALE: NOT TO SCALE

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CHECKED	SW, RLE	LONGITUDE	122°13'47"W
DRAWN	GM	TN/SC/RG	T20N/S12/R4E
CHECKED	SW	DATE	JAN 2022

WHITE RIVER RESTORATION PROJECT

LANDSCAPE DETAILS

92

SHEET 92 OF 111

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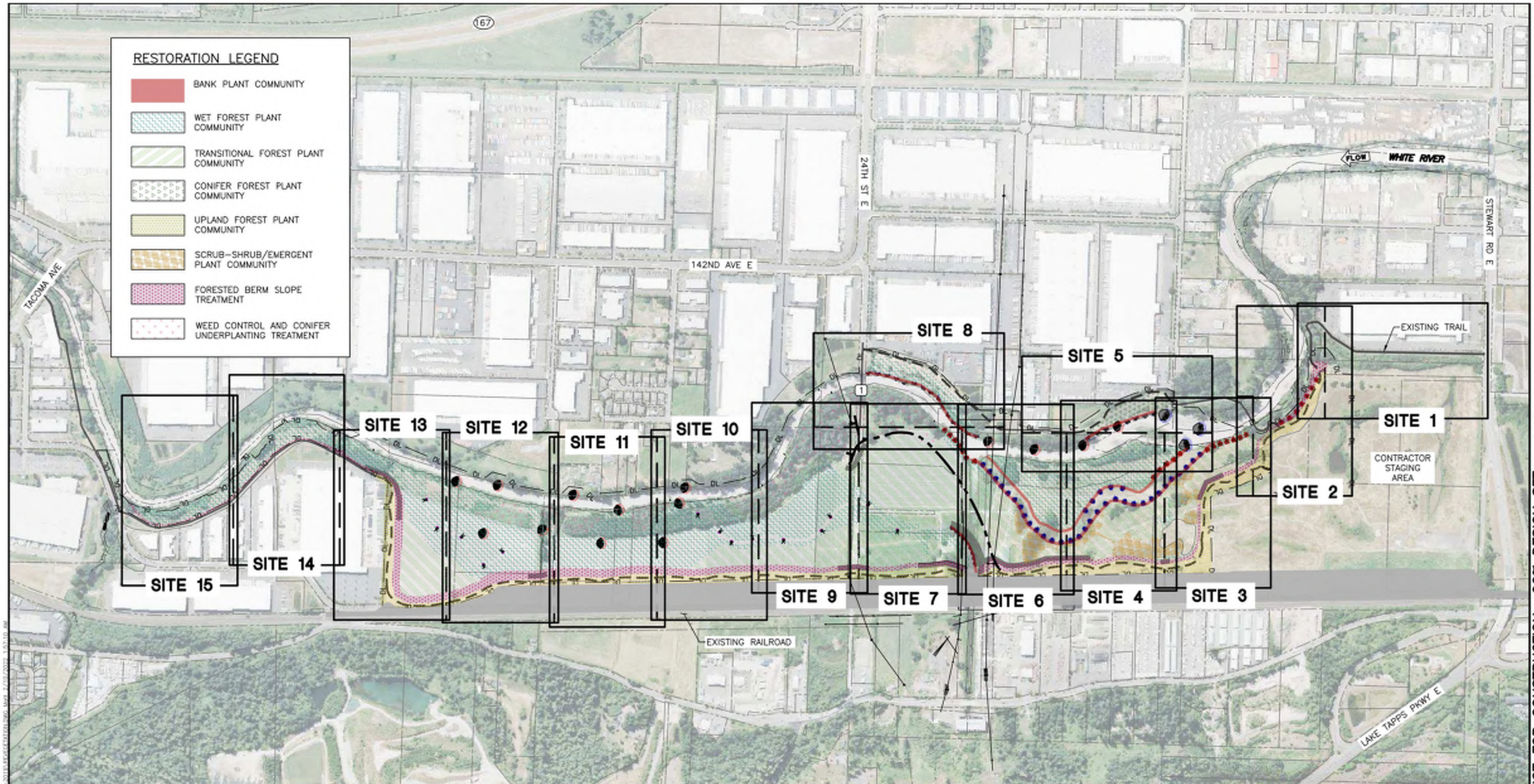

NOTES

1. PEDESTRIAN BRIDGE IS WEIGHT LIMITED TO 60,000 LBS AND IS WIDTH LIMITED.

400' 200' 0 400' 800'
SCALE: 1"=400'-0"

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DRAWN	GM	TN/SC/RG	T20N/S12/R4E
CHECKED	SW	DATE	JAN. 2022

WHITE RIVER RESTORATION PROJECT

REVEGETATION OVERVIEW

93

SHEET 93 OF 111

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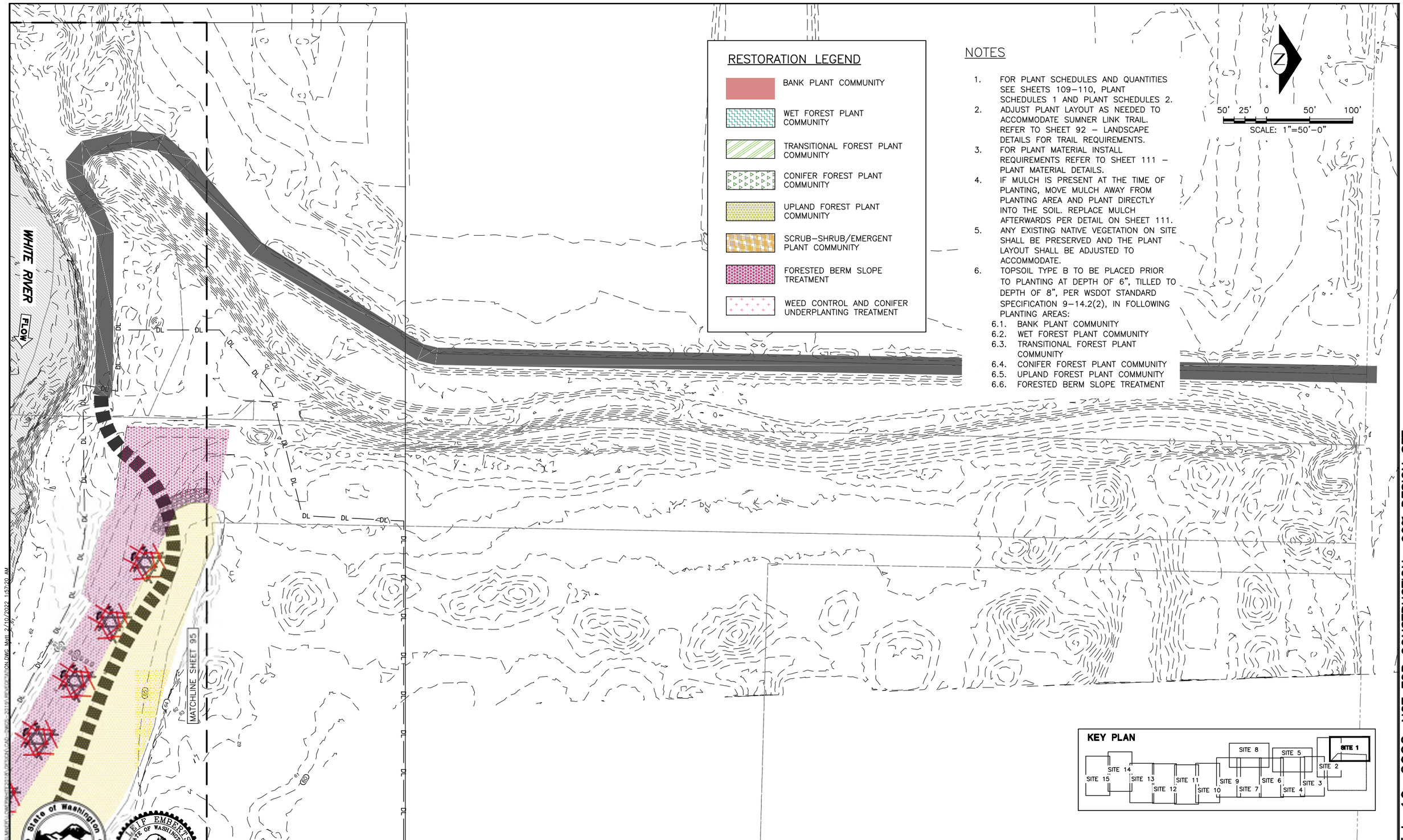

RESTORATION LEGEND

- BANK PLANT COMMUNITY
- WET FOREST PLANT COMMUNITY
- TRANSITIONAL FOREST PLANT COMMUNITY
- CONIFER FOREST PLANT COMMUNITY
- UPLAND FOREST PLANT COMMUNITY
- SCRUB–SHRUB/EMERGENT PLANT COMMUNITY
- FORESTED BERM SLOPE TREATMENT
- WEED CONTROL AND CONIFER UNDERPLANTING TREATMENT

NOTES

1. FOR PLANT SCHEDULES AND QUANTITIES SEE SHEETS 109–110, PLANT SCHEDULES 1 AND PLANT SCHEDULES 2.
2. ADJUST PLANT LAYOUT AS NEEDED TO ACCOMMODATE SUMNER LINK TRAIL. REFER TO SHEET 92 – LANDSCAPE DETAILS FOR TRAIL REQUIREMENTS.
3. FOR PLANT MATERIAL INSTALL REQUIREMENTS REFER TO SHEET 111 – PLANT MATERIAL DETAILS.
4. IF MULCH IS PRESENT AT THE TIME OF PLANTING, MOVE MULCH AWAY FROM PLANTING AREA AND PLANT DIRECTLY INTO THE SOIL. REPLACE MULCH AFTERWARDS PER DETAIL ON SHEET 111.
5. ANY EXISTING NATIVE VEGETATION ON SITE SHALL BE PRESERVED AND THE PLANT LAYOUT SHALL BE ADJUSTED TO ACCOMMODATE.
6. TOPSOIL TYPE B TO BE PLACED PRIOR TO PLANTING AT DEPTH OF 6", TILLED TO DEPTH OF 8", PER WSDOT STANDARD SPECIFICATION 9–14.2(2), IN FOLLOWING PLANTING AREAS:
   - 6.1. BANK PLANT COMMUNITY
   - 6.2. WET FOREST PLANT COMMUNITY
   - 6.3. TRANSITIONAL FOREST PLANT COMMUNITY
   - 6.4. CONIFER FOREST PLANT COMMUNITY
   - 6.5. UPLAND FOREST PLANT COMMUNITY
   - 6.6. FORESTED BERM SLOPE TREATMENT

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CHECKED	SW	DATE	JAN 2022

WHITE RIVER RESTORATION PROJECT

REVEGETATION – SITE 1

94

SHEET 94 OF 111

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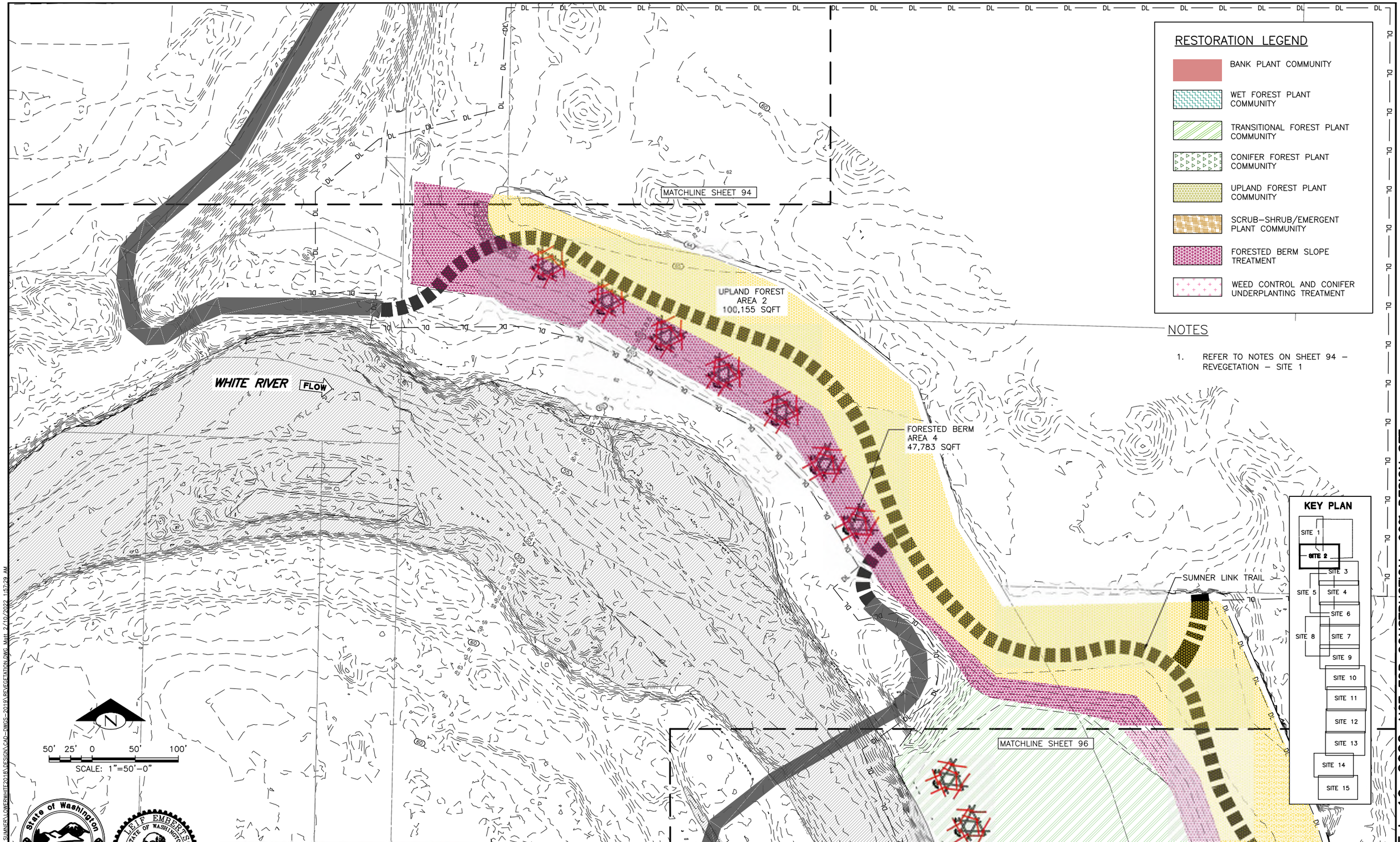

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DRAWN	GM
CHECKED	SW

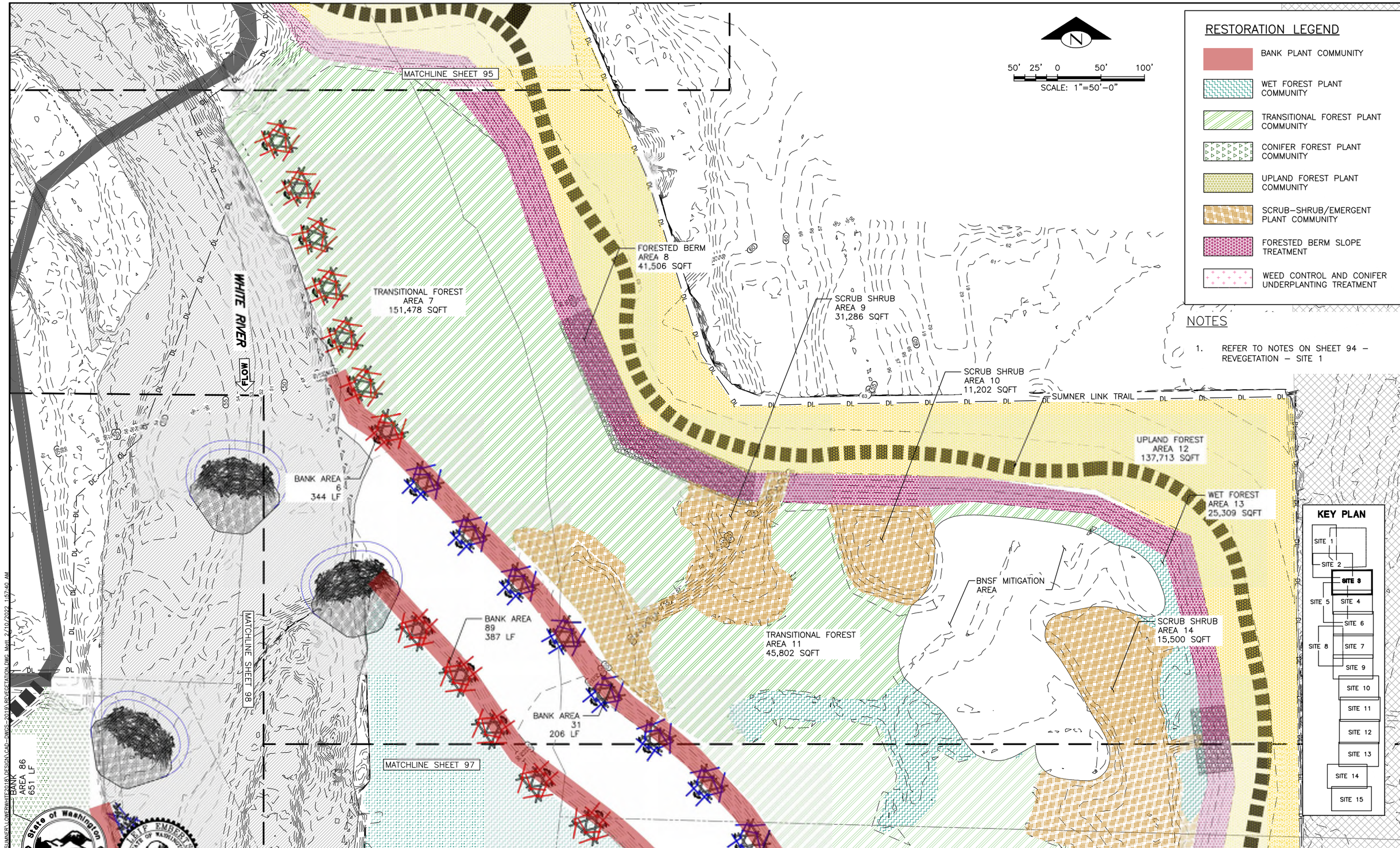
GEOGRAPHIC INFORMATION	
LATITUDE	47°13'53"N
LONGITUDE	122°13'47"W
TN/SC/RG	T20N/S12/R4E
DATE	JAN 2022

WHITE RIVER RESTORATION PROJECT

REVEGETATION – SITE 2

95

SHEET 95 OF 111



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DRAWN	GM
CHECKED	SW

GEOGRAPHIC INFORMATION	
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TN/SC/RG	T20N/S12/R4E
DATE	JAN 2022

WHITE RIVER RESTORATION PROJECT

REVEGETATION – SITE 3

96

SHEET 96 OF 111

MATCHLINE SHEET 96

MATCHLINE SHEET 98

MATCHLINE SHEET 99

BNSF MITIGATION AREA

WET FOREST
AREA 88
295,102 SQFT

BANK AREA
32
703 LF

TRANSITIONAL FOREST
AREA 15
45,802 SQFT

SCRUB SHRUB
AREA 16
64,082 SQFT

UPLAND FOREST
AREA 17
79,473 SQFT

BANK
AREA 32
1939 LF

SCRUB SHRUB
AREA 18
24,952 SQFT

TRANSITIONAL FOREST
AREA 19
53,717 SQFT

FORESTED BERM
AREA 20
35,432 SQFT

SUMNER LINK TRAIL, TYP

FLOW

FLOW

50' 25' 0 50' 100'

SCALE: 1"=50'-0"

RESTORATION LEGEND

- BANK PLANT COMMUNITY
- WET FOREST PLANT COMMUNITY
- TRANSITIONAL FOREST PLANT COMMUNITY
- CONIFER FOREST PLANT COMMUNITY
- UPLAND FOREST PLANT COMMUNITY
- SCRUB-SHRUB/EMERGENT PLANT COMMUNITY
- FORESTED BERM SLOPE TREATMENT
- WEED CONTROL AND CONIFER UNDERPLANTING TREATMENT

KEY PLAN

SITE 1, SITE 2, SITE 3, SITE 4, SITE 5, SITE 6, SITE 7, SITE 8, SITE 9, SITE 10, SITE 11, SITE 12, SITE 13, SITE 14, SITE 15

NOTES

1. REFER TO NOTES ON SHEET 94 – REVEGETATION – SITE 1

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DRAWN	GM	TN/SC/RG	T20N/S12/R4E
CHECKED	SW	DATE	JAN 2022

WHITE RIVER RESTORATION PROJECT

REVEGETATION – SITE 4

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RESTORATION LEGEND

- BANK PLANT COMMUNITY
- WET FOREST PLANT COMMUNITY
- TRANSITIONAL FOREST PLANT COMMUNITY
- CONIFER FOREST PLANT COMMUNITY
- UPLAND FOREST PLANT COMMUNITY
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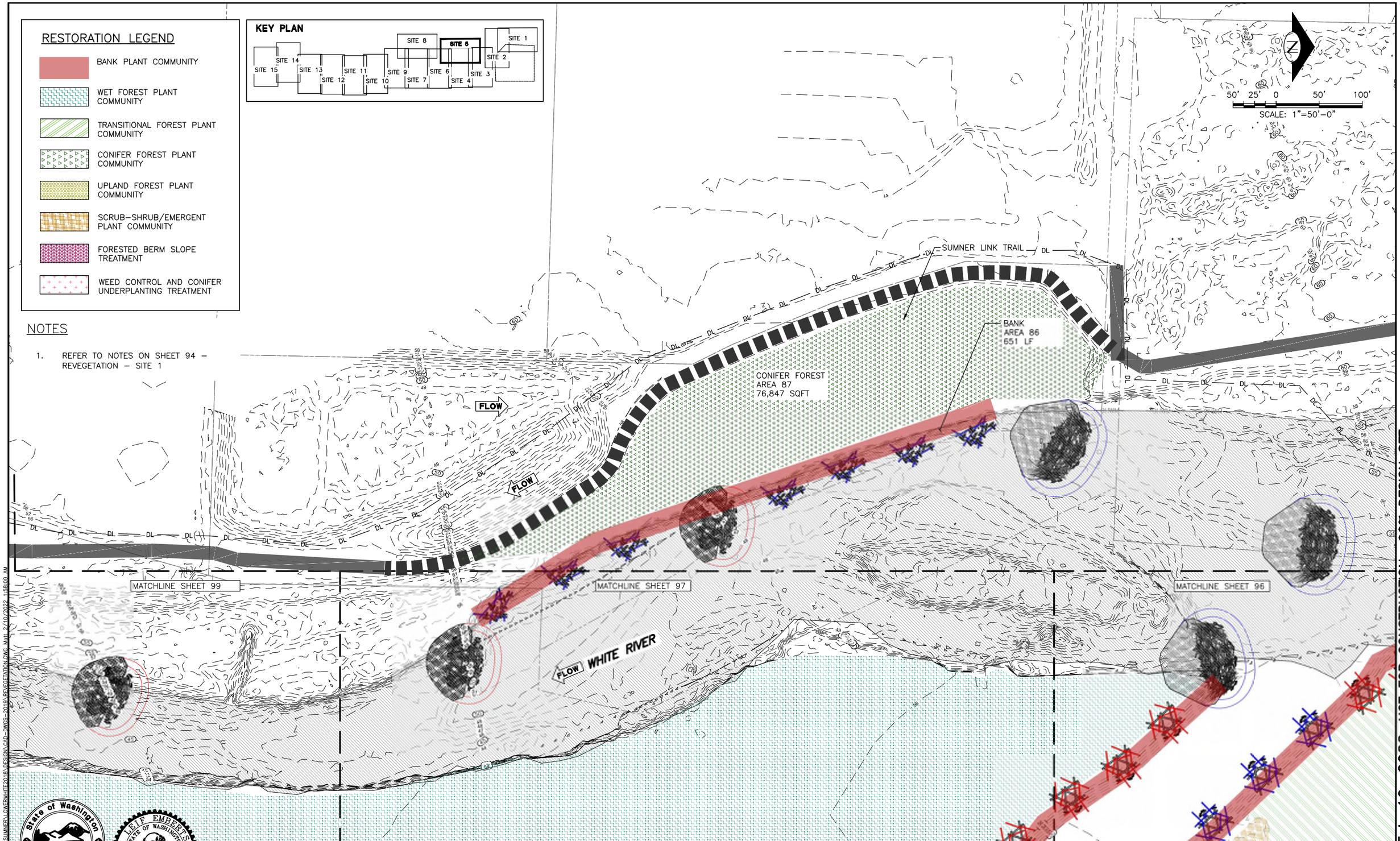
- FORESTED BERM SLOPE TREATMENT
- WEED CONTROL AND CONIFER UNDERPLANTING TREATMENT

NOTES

1. REFER TO NOTES ON SHEET 94 – REVEGETATION – SITE 1



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DRAWN	GM
CHECKED	SW

GEOGRAPHIC INFORMATION	
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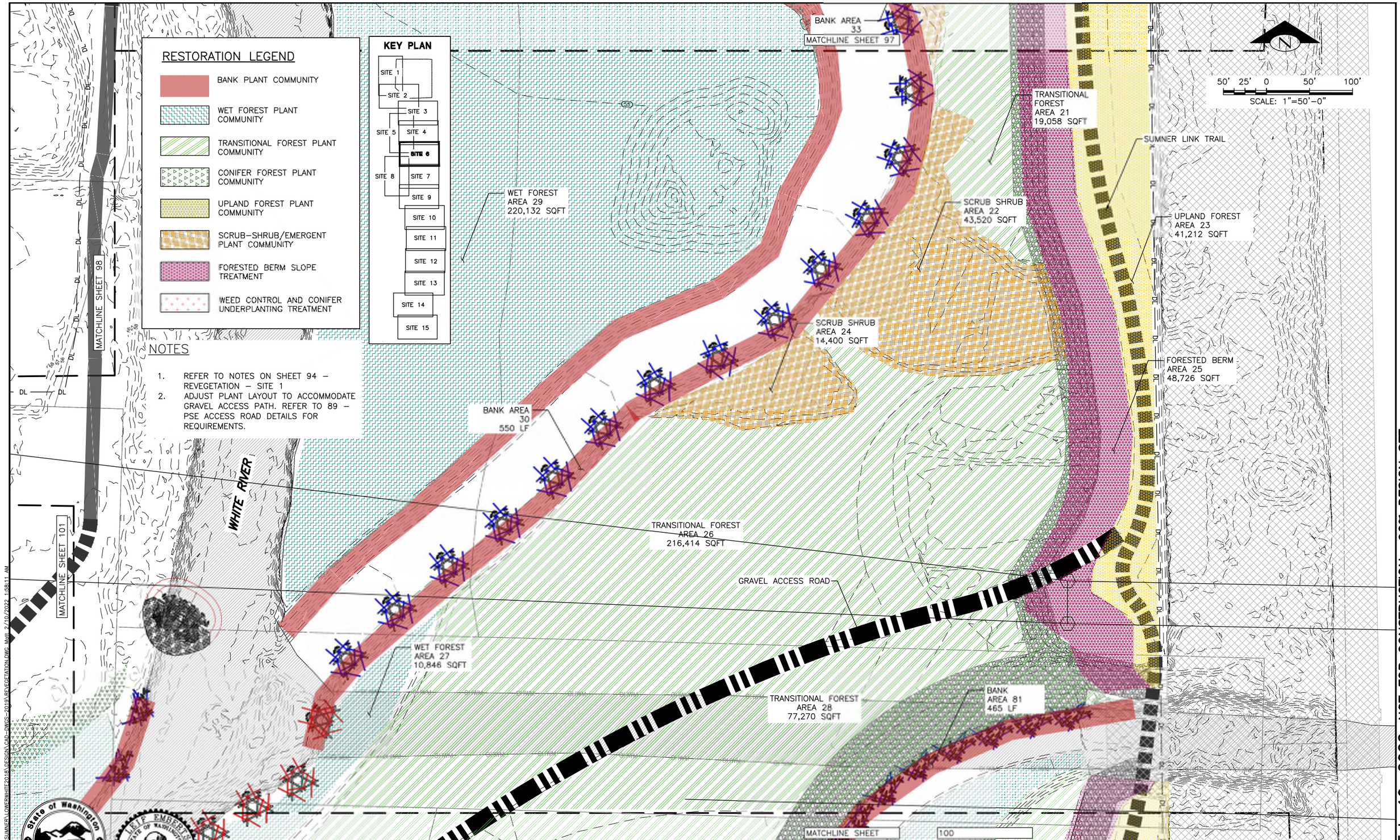
LONGITUDE	122°13'47"W
TN/SC/RG	T20N/S12/R4E
DATE	JAN 2022

WHITE RIVER RESTORATION PROJECT

REVEGETATION – SITE 5

98



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R. LEIF EMBERTSON STATE OF WASHINGTON 45447 REGISTERED PROFESSIONAL ENGINEER

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CITY OF SUMNER WASHINGTON

Natural Systems Design

NAME OR INITIALS AND DATE		GEOGRAPHIC INFORMATION	
DESIGNED	SW, MT, RLE, TA	LATITUDE	47°13'53"N
CHECKED	SW, RLE	LONGITUDE	122°13'47"W
DRAWN	GM	TN/SC/RG	T20N/S12/R4E
CHECKED	SW	DATE	JAN 2022

WHITE RIVER RESTORATION PROJECT

REVEGETATION – SITE 6

99

SHEET 99 OF 111

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MATCHLINE SHEET 99

TRANSITIONAL FOREST
AREA 35
31,499 SQFT

WET FOREST
AREA 34
17,804 SQFT

GRAVEL ACCESS ROAD

WET FOREST
AREA 37
95,774 SQFT

UPLAND FOREST
AREA 38
73,755 SQFT

SUMNER LINK TRAIL

TRANSITIONAL FOREST
AREA 36
517,804 SQFT

WET FOREST
AREA 90
18,350 SQFT

TRANSITIONAL FOREST
AREA 40
190,942 SQFT

FORESTED BERM
AREA 39
39,043 SQFT

WET FOREST
AREA 41
13,637 SQFT

MATCHLINE SHEET 102

RESTORATION LEGEND

- BANK PLANT COMMUNITY
- WET FOREST PLANT COMMUNITY
- TRANSITIONAL FOREST PLANT COMMUNITY
- CONIFER FOREST PLANT COMMUNITY
- UPLAND FOREST PLANT COMMUNITY
- SCRUB–SHRUB/EMERGENT PLANT COMMUNITY
- FORESTED BERM SLOPE TREATMENT
- WEED CONTROL AND CONIFER UNDERPLANTING TREATMENT

KEY PLAN

SITE 1, SITE 2, SITE 3, SITE 4, SITE 5, SITE 6, SITE 7, SITE 8, SITE 9, SITE 10, SITE 11, SITE 12, SITE 13, SITE 14, SITE 15

NOTES

1. REFER TO NOTES ON SHEET 94 – REVEGETATION – SITE 1
2. ADJUST PLANT LAYOUT TO ACCOMMODATE GRAVEL ACCESS PATH. REFER TO 89 – PSE ACCESS ROAD DETAILS FOR REQUIREMENTS.

N

50' 25' 0 50' 100'

SCALE: 1"=50'-0"

State of Washington Engineering Geologist 1161 Licensed Geologist
Timothy B. Abbe

R. ALEF EMBERTSON STATE OF WASHINGTON 45447 REGISTERED PROFESSIONAL ENGINEER

0 .25 .5
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT PLOTTED TO ORIGINAL SCALE.

CITY OF SUMNER WASHINGTON

Natural Systems Design

NAME OR INITIALS AND DATE		GEOGRAPHIC INFORMATION	
DESIGNED	SW, MT, RLE, TA	LATITUDE	47°13'53"N
CHECKED	SW, RLE	LONGITUDE	122°13'47"W
DRAWN	GM	TN/SC/RG	T20N/S12/R4E
CHECKED	SW	DATE	JAN 2022

WHITE RIVER RESTORATION PROJECT

REVEGETATION – SITE 7

100

SHEET 100 OF 111

Feb 10, 2022 NOT FOR CONSTRUCTION 90% DESIGN SET

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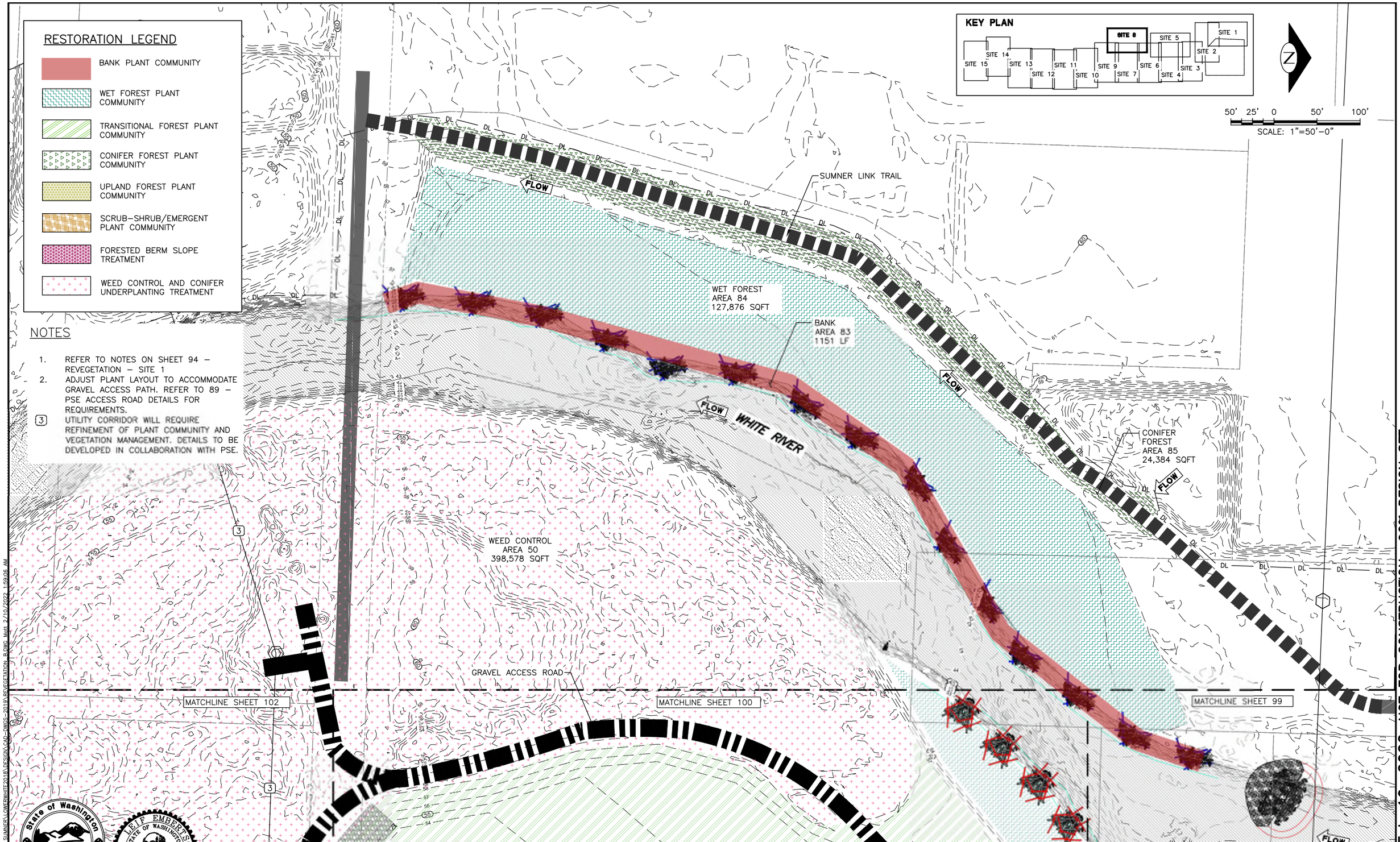
RESTORATION LEGEND

- BANK PLANT COMMUNITY
- WET FOREST PLANT COMMUNITY
- TRANSITIONAL FOREST PLANT COMMUNITY
- CONIFER FOREST PLANT COMMUNITY
- UPLAND FOREST PLANT COMMUNITY
- SCRUB–SHRUB/EMERGENT PLANT COMMUNITY
- FORESTED BERM SLOPE TREATMENT
- WEED CONTROL AND CONIFER UNDERPLANTING TREATMENT

NOTES

1. REFER TO NOTES ON SHEET 94 – REVEGETATION – SITE 1
2. ADJUST PLANT LAYOUT TO ACCOMMODATE GRAVEL ACCESS PATH. REFER TO 89 – PSE ACCESS ROAD DETAILS FOR REQUIREMENTS.

(3) UTILITY CORRIDOR WILL REQUIRE REFINEMENT OF PLANT COMMUNITY AND VEGETATION MANAGEMENT. DETAILS TO BE DEVELOPED IN COLLABORATION WITH PSE.



Feb 10, 2022 NOT FOR CONSTRUCTION 90% DESIGN SET

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State of Washington Engineering Geologist 1161 Licensed Geologist
Timothy B. Abbe

R. ALF EMBERTSON STATE OF WASHINGTON 45447 REGISTERED PROFESSIONAL ENGINEER

0 .5 1
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CITY OF SUMNER WASHINGTON

Natural Systems Design

NAME OR INITIALS AND DATE	
DESIGNED	SW, MT, RLE, TA
CHECKED	SW, RLE
DRAWN	GM
CHECKED	SW

GEOGRAPHIC INFORMATION	
LATITUDE	47°13'53"N
LONGITUDE	122°13'47"W
TN/SC/RG	T20N/S12/R4E
DATE	JAN 2022

WHITE RIVER RESTORATION PROJECT

REVEGETATION – SITE 8

101

SHEET 101 OF 111