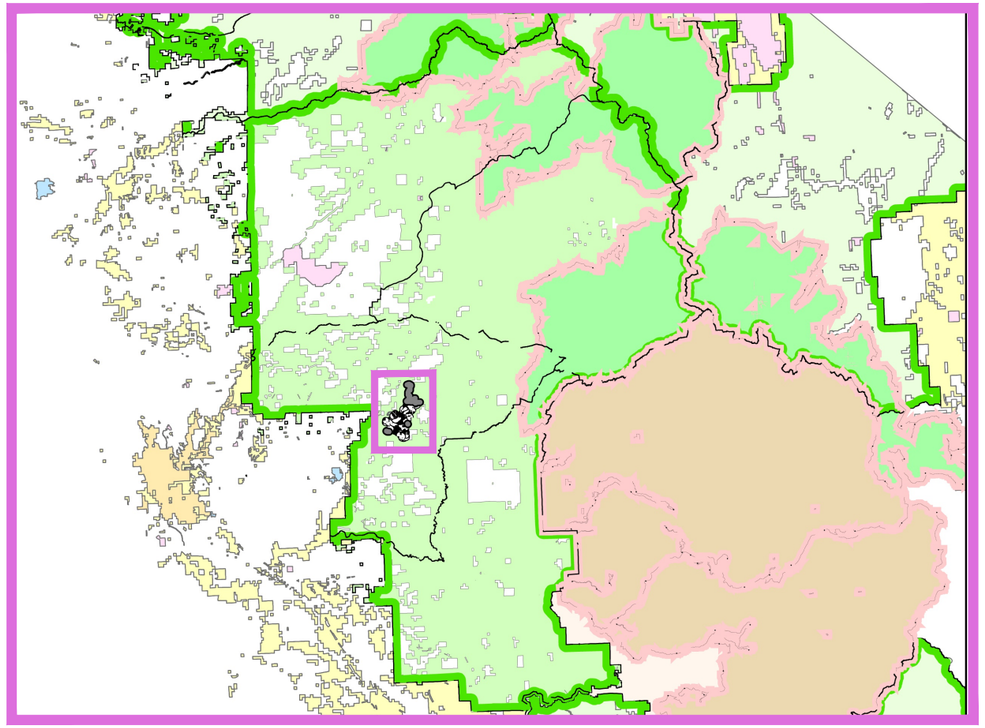
United States Department of Agriculture
Forest Service

(R05) PACIFIC SOUTHWEST REGION
STANISLAUS NATIONAL FOREST
TUOLOMNE COUNTY, CALIFORNIA
SUGAR PINE RANGER DISTRICT

MARBLE IRSC



FOREST LOCATION MAP

PROJECT LOCATION MAP

TRAVEL DIRECTIONS:

From the Stanislaus National Forest Headquarters in Sonora, head south on Greenly road, turn east onto Mono Way toward HWY 108, turn onto HWY 108 east. Travel for 21 miles before turning onto Long Barn Rd. After 0.1 miles turn onto Merrill Springs Rd. (Forest Route 3N01). Travel for 6.2 miles before turning onto Forest Route 3N07.

LATITUDE: 38.0731369 N

LONGITUDE: 120.0896339 W

INDEX OF SHEETS

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G-02	VICINITY MAP	3/12/2026
G-03	GENERAL NOTES	3/12/2026
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C-01-C-23	MAPS & WORK LISTS	3/12/2026
D-01	TYPICAL SECTIONS	3/12/2026
D-02	CULVERT DETAILS	3/12/2026

RECOMMENDED BY:

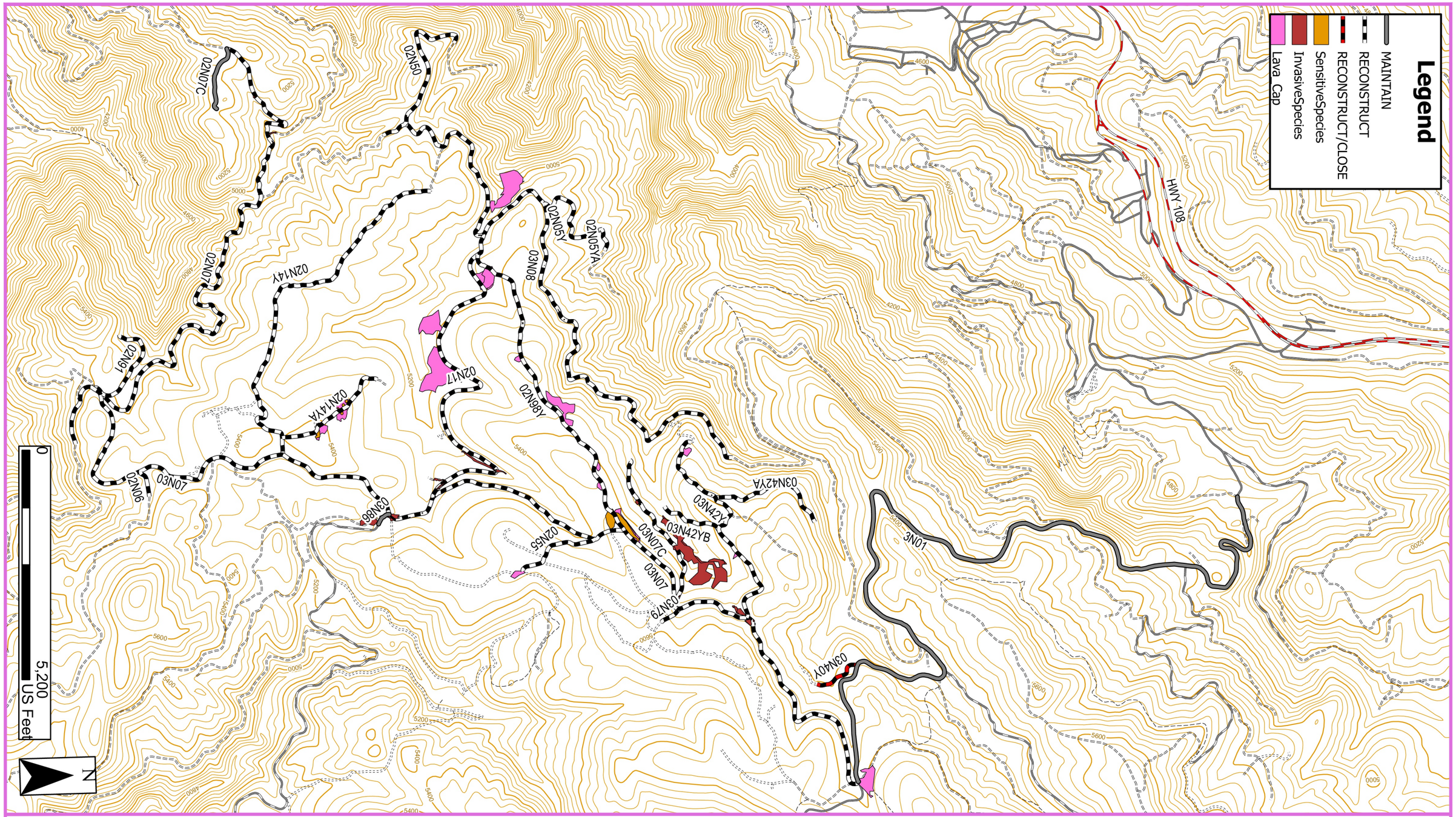
KATHRYN BAKER — Digitally signed by KATHRYN BAKER Date: 2026.03.24 08:08:25 -07'00'
FOREST ENGINEER — DATE

ANDREW WELSH — Digitally signed by ANDREW WELSH Date: 2026.03.24 08:29:10 -07'00'
DISTRICT RANGER — DATE

APPROVED:

JASON KUIKEN — Digitally signed by JASON KUIKEN Date: 2026.03.24 13:39:14 -07'00'
FOREST SUPERVISOR — DATE

3/24/26 07:58 STANISLAUS TIMBER 2 C:\USERS\STANISLAUS TIMBER 2\DESKTOP\MARBLE\MARBLE - TS ROAD TEMPLATE R05.DWG;



USDA FOREST SERVICE U.S. DEPARTMENT OF AGRICULTURE

United States Department of Agriculture
Forest Service

(R5)
PACIFIC SOUTHWEST REGION

MARBLE IRSC
STANISLAUS NATIONAL FOREST

SUGAR PINE RANGER DISTRICT

DRAWING TITLE
OVERVIEW MAP

DATE	DESIGNER	CHECKED	DWG SHEET NO.
03/12/2026	K. DELISSER	K.B.	G-02

NO.	REVISION DESCRIPTION	BY	DATE
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SHEET 2 OF 29

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Marble Stewardship IRSC		ROAD NO.	2N05Y	2N05YA	2N06	2N07	2N14Y	2N14YA	2N17	2N50	2N55	2N91	2N98Y	3N07	3N07C	3N08	3N40Y	3N42Y	3N42YA	3N42YB	3N79	Totals
		MILES	0.45	0.10	0.12	2.63	1.91	0.53	1.80	0.66	0.38	0.43	1.45	1.94	0.73	3.27	0.22	1.04	0.54	0.28	0.10	
ITEM NO	DESCRIPTION	UNITS	SUMMARY OF QUANTITIES																			
15101-0000	MOBILIZATION	LPSM	ALL																			1
15280	CONSTRUCTION SURVEY AND STAKING, METHOD <1> TOLERANCE <B>	LPSM	ALL																			1
20105	CLEARING AND GRUBBING	MILE					1.34	0.35		0.66		0.37	1.29		0.59	1.01		1.00	0.54	0.28	0.05	7.48
20301-1900	REMOVAL OF PIPE CULVERT	EACH												1								1
20425-1000	DITCH, EXCAVATION	LNFT												750								750
20480	ROADWAY EXCAVATION AND EMBANKMENT, COMPACTION <D>	CUYD							10					120			96					226
20480-DIP	DRAINAGE EXCAVATION, ROLLING DIP, COMPACTION METHOD <D>	EACH				3					1		1	2								7
20480-ASWL	DRAINAGE EXCAVATION, ARMORED SWALE, COMPACTION METHOD <D>	EACH														1						1
20480-SWL	DRAINAGE EXCAVATION, SWALE, COMPACTION METHOD <D>	EACH							1		1	1		3		1						7
20480-WB	DRAINAGE EXCAVATION, WATERBAR, COMPACTION METHOD <D>	EACH				6	3		1		3											13
20480-LOD	DRAINAGE EXCAVATION, LEAD OFF DITCH, COMPACTION METHOD <D>	EACH			1	1	2		1					1								6
20701-2000	SEPARATION GEOTEXTILE, NON-WOVEN	SQYD				255								333								588
21201-0000	LINEAR GRADING	MILE	0.38	0.10																		0.49
25101-0000	PLACED RIPRAP	CUYD				42																42
30185	AGGREGATE SURFACE COURSE, GRADING <T>, <4> INCH DEPTH, COMPACTION METHOD <B>	SQYD				255								645								900
30380	ROADBED RECONDITIONING, COMPACTION METHOD<D>	MILE			0.11	0.06	0.07		0.08	0.66			0.64	0.92	0.47	0.15				0.11	0.10	3.37
30384	ROADWAY RECONDITIONING, COMPACTION METHOD<D>	MILE				0.33																0.33
60201-1400	60-INCH PIPE CULVERT	LNFT															50					50
60704-0000	CLEANING CULVERT IN PLACE	EACH				2								1								3

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United States Department of Agriculture
Forest Service

(R5)
PACIFIC SOUTHWEST REGION

MARBLE IRSC
STANISLAUS NATIONAL FOREST
SUGAR PINE RANGER DISTRICT

DRAWING TITLE
ESTIMATE OF QUANTITIES

DATE	DESIGNER	CHECKED	DWG SHEET NO.
03/12/2026	K. DELISSER	K.B.	G-03

NO.	REVISION DESCRIPTION	BY	DATE
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SHEET 3 OF 29

GENERAL NOTES

1. Georeferenced pdf maps of the project points are available by request.

2. **The contractor shall submit a detailed construction schedule to the C.O. for approval prior to the start of road work. The construction schedule is expected to describe the critical path and the general sequence of work, describe expected and critical delivery dates for equipment or material, and describe expected inspection or monitoring dates to be requested.**

3. Project Specifications:
   - 3.1. The Federal Highway Administration "Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects (FP-24)" The FP-24 may be downloaded at: https://highways.dot.gov/federal-lands/specs/fp-24.
   - 3.2. The Forest Service Supplemental Specifications (FSSS). The FSSS takes precedence over the FP-24.
   - 3.3. When referred to, the State of California Specifications shall apply. Download is available at: https://dot.ca.gov/-/media/dot-media/programs/design/documents/2025_stdspecs.pdf

4. All work shall be in compliance with the best management practices described in the "Region 5 Forest Service Soil and Water Conservation Handbook", dated December 2011, and the "National Best Management Practices for Water Quality Management on National Forest System Lands", dated April 2012.

5. Public safety, traffic control, and dust control shall be provided by the contractor in accordance with state and county requirements. **Contractor shall submit a traffic control plan.**

6. The contractor shall immediately notify the COR of any discrepancies encountered between field conditions and these plans or errors identified in the contract.

7. The contractor shall keep detailed records and as-builts showing all modifications made to these plans. These records and as-builts shall be provided to the CO Upon project completion.

8. The contractor is responsible for the protection of all existing monuments and other survey markers. Any markers destroyed during construction shall be replaced at the contractor's expense.

9. **The contractor is responsible for maintaining any flagging in the roadwork and roadside brushing area. The contractor shall notify the COR of any flagging that will be affected by roadwork performance prior to the start of work.** Some flagging indicates total avoidance and may require a FS monitor. Refer to Section 8 of the Contract Complete Award for flagging descriptions and relevant restrictions. The COR will contact the appropriate FS specialist for monitoring and/or flagging replacement as necessary.

10. The contractor is responsible for the location and protection of any and all utilities. **Call 811 before excavation.**

11. Staging areas for equipment storage or material stockpiles will be allowed only in areas approved by the CO

12. **Provide copies of weight tickets for material delivered to the site from commercial sources. Aggregate shall be obtained from an approved source and certified weed and asbestos free.**

13. The contractor is responsible for water, electricity, and restrooms.

14. All equipment will arrive on site washed and free of all visible soil, debris, and organic matter. All equipment will be approved by the CO Prior to unloading on the project site.

15. The contractor is responsible for matching existing improvements and the surrounding landscape with smooth transitions. The contractor shall avoid creating any abrupt or apparent changes in grades or cross slopes, to the satisfaction of the CO. The costs of any backfill or excavation required for such transitions are incidental to other items.

16. The Government shall designate borrow sites as needed. Notify the COR of a need for a borrow site no less than 14 days prior to use.

17. Any disturbance made outside road corridors, such as borrow sites and staging areas, shall be restored. At a minimum, compacted areas shall be decompacted to a 12" depth, shaped to drain, and covered with slash or erosion control matting or other similar erosion control.

18. Existing culverts that are to be replaced shall be removed from government land at contractor's expense. Unless shown in the schedule of items, disposal is incidental to new culvert installation.

19. Designated water sources are shown on the Sale Area Map. When drafting from a water source, use screening devices for water drafting pumps. Use pumps with low entry velocity to minimize removal of aquatic species, including juvenile fish, amphibian egg masses, and tadpoles from aquatic habitats.

20. The contractor shall request inspections of completed work by written request to the COR Following performance of contract quality control.

TRAFFIC CONTROL NOTES:

One 36"x36" W20-3 (per MUTCD) movable construction sign will be required at each end of the construction zone during construction activities. The signs shall be mounted a minimum of 12" above the ground and shall be placed within 500 feet of each construction zone end. If the road dead ends or public use has been obstructed, only one W20-3 will be required. The road shall not be closed for more than 2 continuous hours when using the W20-3. If the road requires closure for more than 2 continuous hours, a Type III movable barricade will be required per MUTCD.

W20-3 MOVABLE BARRICADE

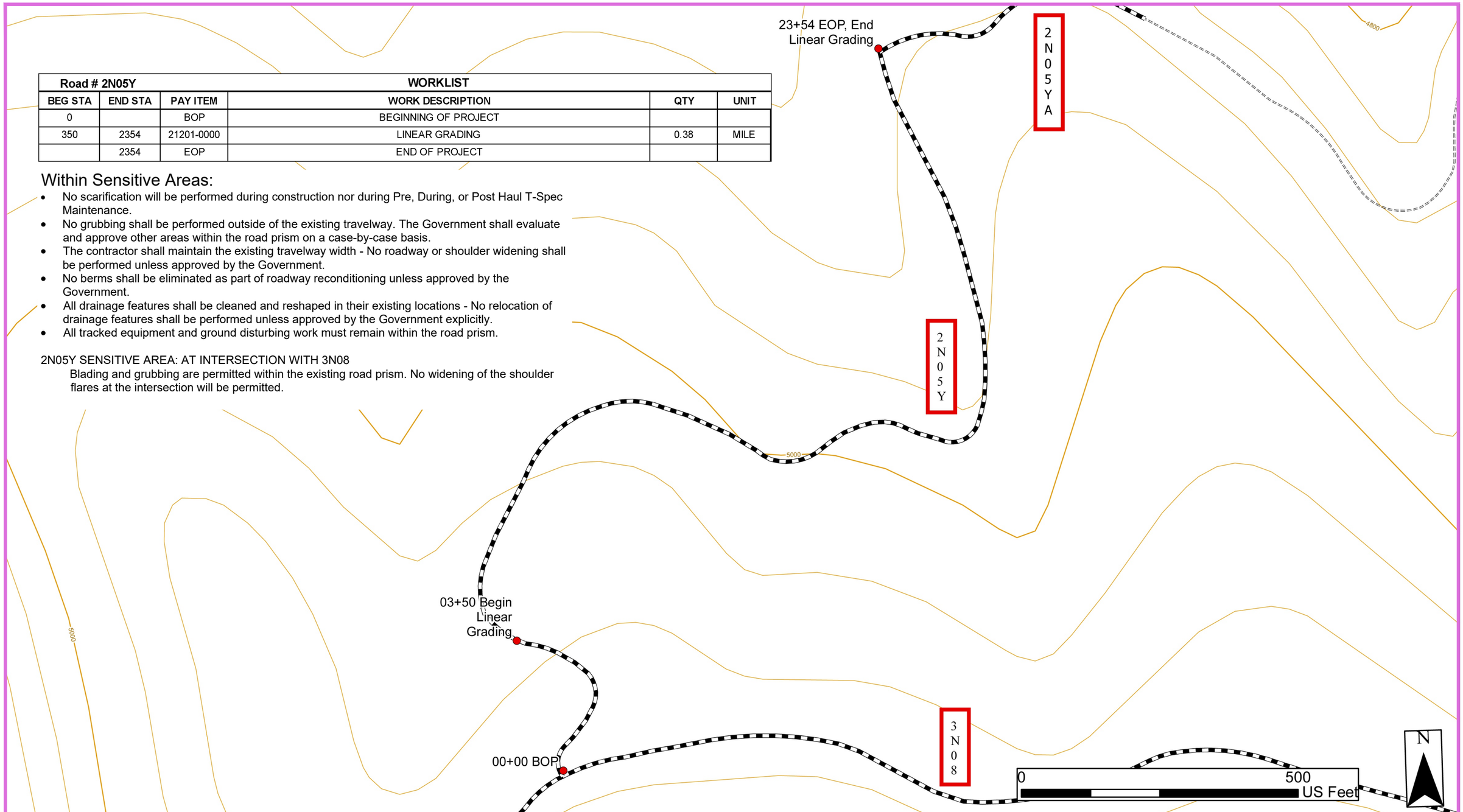
Road # 2N05Y			WORKLIST		
BEG STA	END STA	PAY ITEM	WORK DESCRIPTION	QTY	UNIT
0		BOP	BEGINNING OF PROJECT		
350	2354	21201-0000	LINEAR GRADING	0.38	MILE
	2354	EOP	END OF PROJECT		

Within Sensitive Areas:

- No scarification will be performed during construction nor during Pre, During, or Post Haul T-Spec Maintenance.
- No grubbing shall be performed outside of the existing travelway. The Government shall evaluate and approve other areas within the road prism on a case-by-case basis.
- The contractor shall maintain the existing travelway width - No roadway or shoulder widening shall be performed unless approved by the Government.
- No berms shall be eliminated as part of roadway reconditioning unless approved by the Government.
- All drainage features shall be cleaned and reshaped in their existing locations - No relocation of drainage features shall be performed unless approved by the Government explicitly.
- All tracked equipment and ground disturbing work must remain within the road prism.

2N05Y SENSITIVE AREA: AT INTERSECTION WITH 3N08

Blading and grubbing are permitted within the existing road prism. No widening of the shoulder flares at the intersection will be permitted.



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United States Department of Agriculture
Forest Service

(R5)
PACIFIC SOUTHWEST REGION

MARBLE IRSC
STANISLAUS NATIONAL FOREST
SUGAR PINE RANGER DISTRICT

DRAWING TITLE
2N05Y
MAP & WORK LIST

DATE	DESIGNER	CHECKED
03/12/2026	K. DELISSER	K.B.

NO.	REVISION DESCRIPTION	BY	DATE
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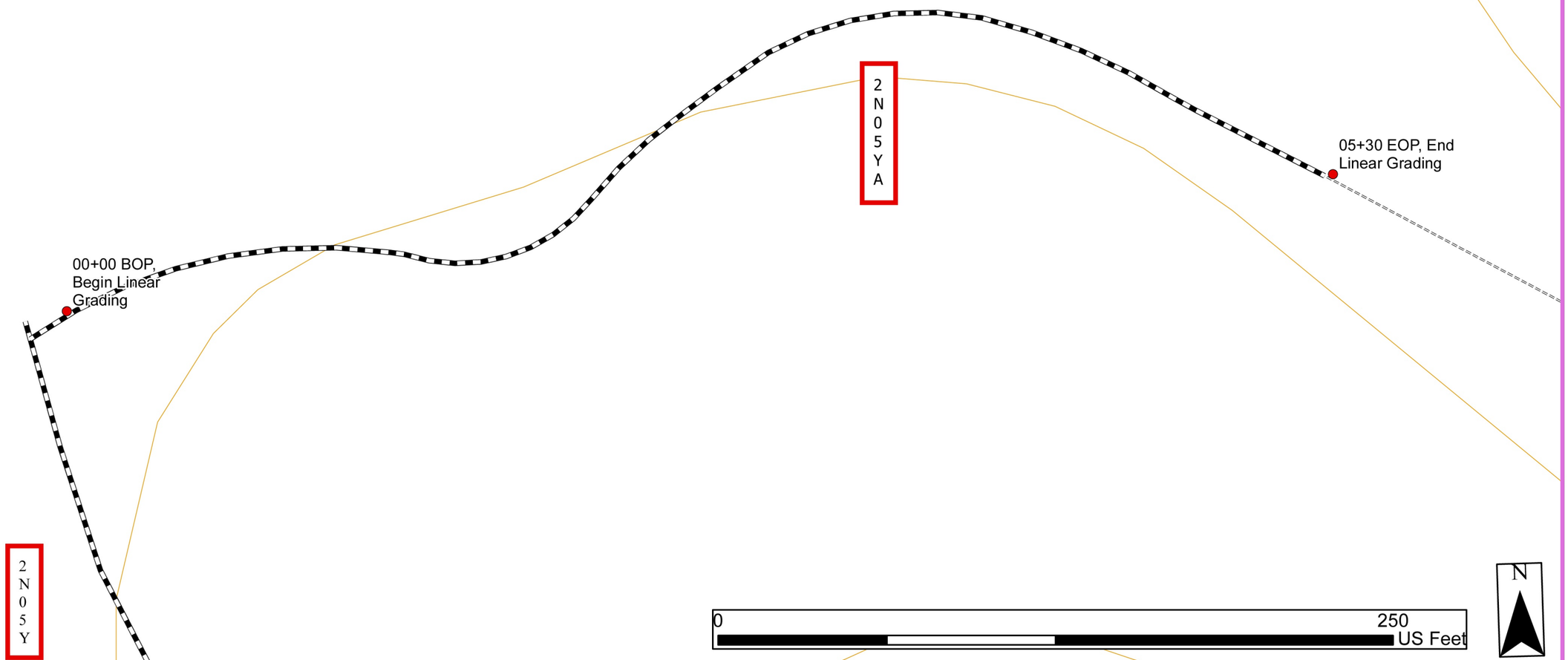
DWG SHEET NO.
C-01

SHEET 5 OF 29

Road # 2N05YA			WORKLIST		
BEG STA	END STA	PAY ITEM	WORK DESCRIPTION	QTY	UNIT
0		BOP	BEGINNING OF PROJECT		
0	530	21201-0000	LINEAR GRADING	0.11	MILE
	530	EOP	END OF PROJECT		



United States Department of Agriculture
Forest Service

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PACIFIC SOUTHWEST REGION

MARBLE IRSC
STANISLAUS NATIONAL FOREST

SUGAR PINE RANGER DISTRICT

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2N05YA
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03/12/2026	K. DELISSER	K.B.

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DWG SHEET NO.
C-02

SHEET 6 OF 29

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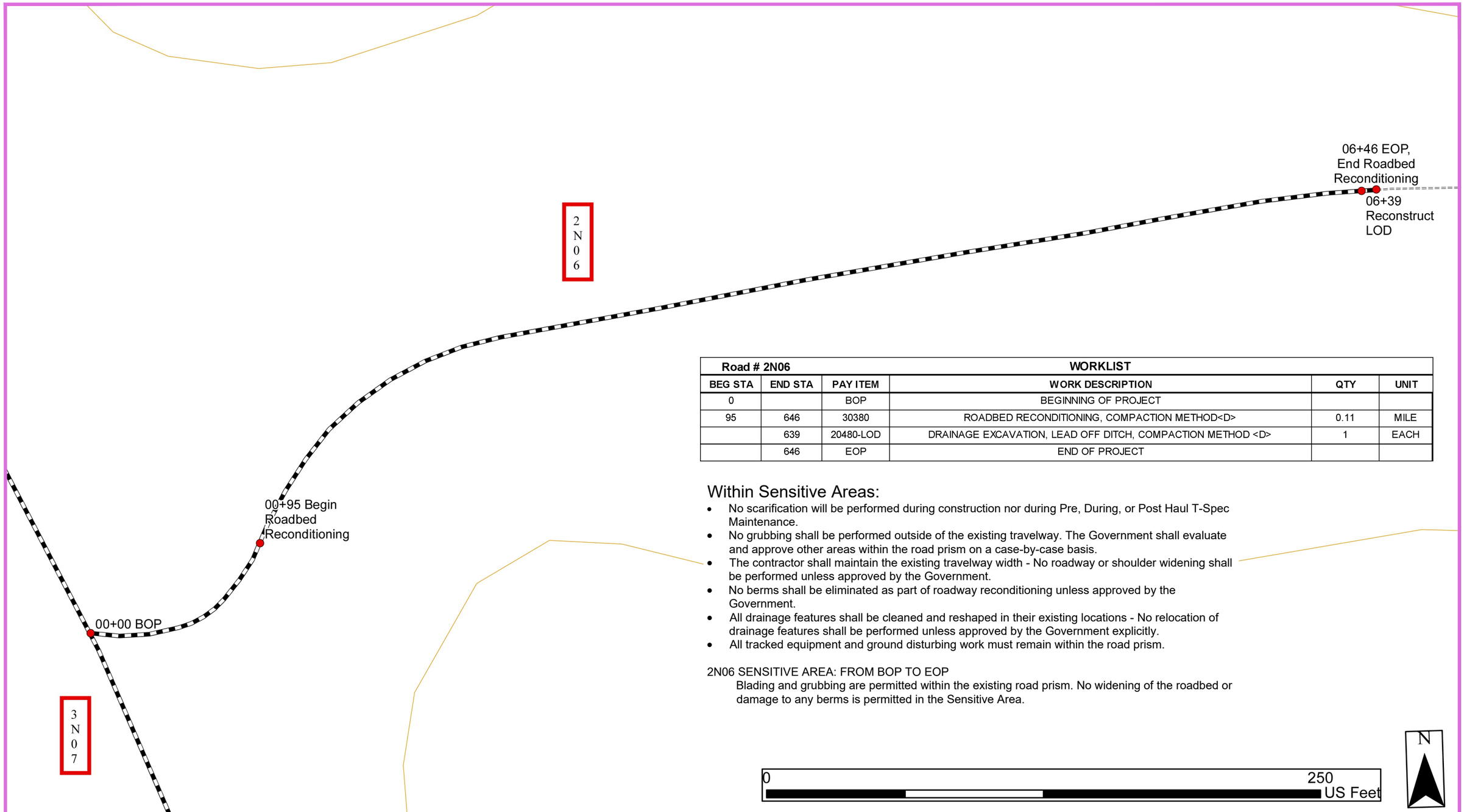

Road # 2N06			WORKLIST		
BEG STA	END STA	PAY ITEM	WORK DESCRIPTION	QTY	UNIT
0		BOP	BEGINNING OF PROJECT		
95	646	30380	ROADBED RECONDITIONING, COMPACTION METHOD<D>	0.11	MILE
	639	20480-LOD	DRAINAGE EXCAVATION, LEAD OFF DITCH, COMPACTION METHOD <D>	1	EACH
	646	EOP	END OF PROJECT		

Within Sensitive Areas:

- No scarification will be performed during construction nor during Pre, During, or Post Haul T-Spec Maintenance.
- No grubbing shall be performed outside of the existing travelway. The Government shall evaluate and approve other areas within the road prism on a case-by-case basis.
- The contractor shall maintain the existing travelway width - No roadway or shoulder widening shall be performed unless approved by the Government.
- No berms shall be eliminated as part of roadway reconditioning unless approved by the Government.
- All drainage features shall be cleaned and reshaped in their existing locations - No relocation of drainage features shall be performed unless approved by the Government explicitly.
- All tracked equipment and ground disturbing work must remain within the road prism.

2N06 SENSITIVE AREA: FROM BOP TO EOP

Blading and grubbing are permitted within the existing road prism. No widening of the roadbed or damage to any berms is permitted in the Sensitive Area.

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Forest Service

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PACIFIC SOUTHWEST REGION

MARBLE IRSC
STANISLAUS NATIONAL FOREST

SUGAR PINE RANGER DISTRICT

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2N06
MAP & WORK LIST

DATE	DESIGNER	CHECKED	DWG SHEET NO.
03/12/2026	K. DELISSER	K.B.	C-03

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SHEET 7 OF 29

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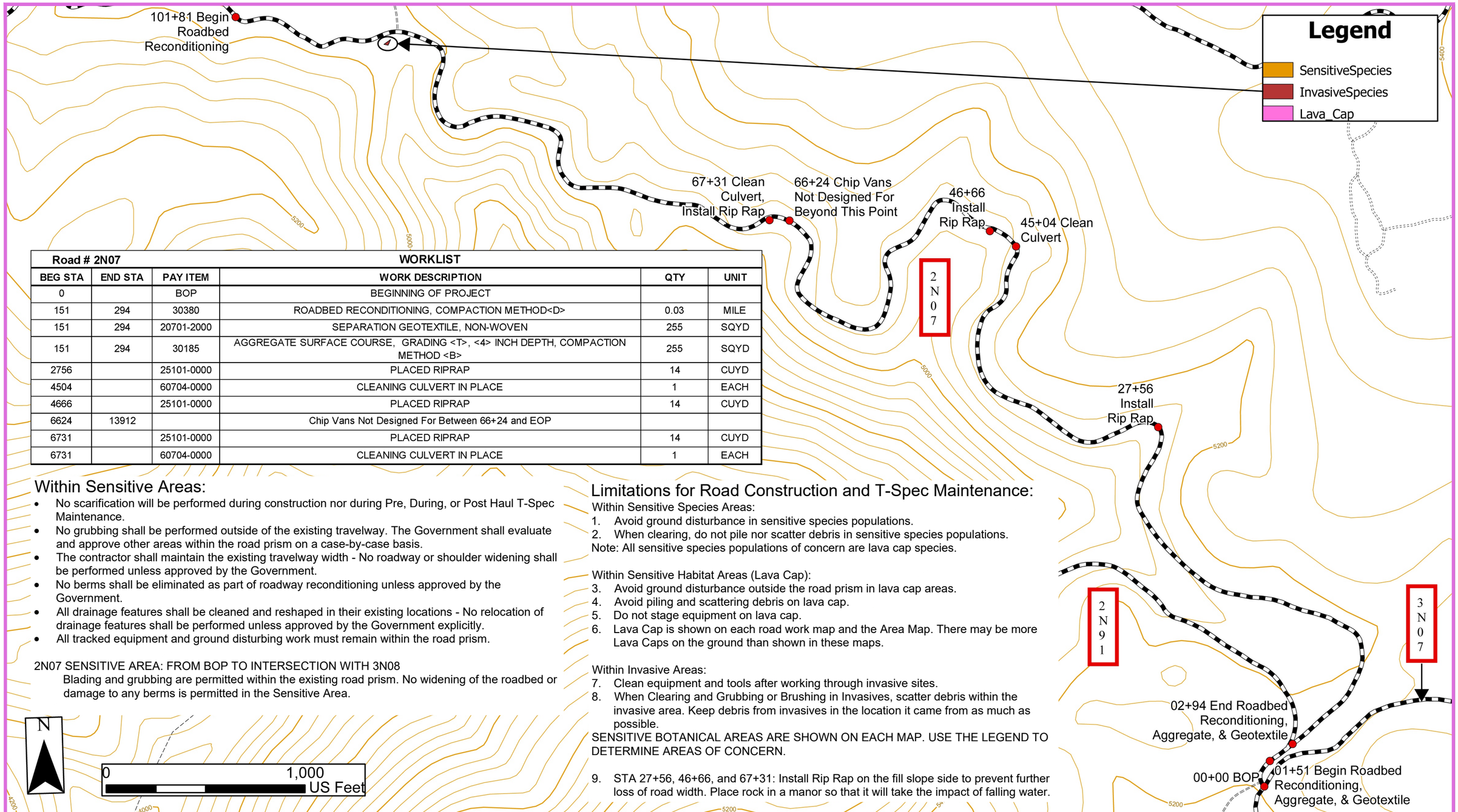

Road # 2N07			WORKLIST		
BEG STA	END STA	PAY ITEM	WORK DESCRIPTION	QTY	UNIT
0		BOP	BEGINNING OF PROJECT		
151	294	30380	ROADBED RECONDITIONING, COMPACTION METHOD<D>	0.03	MILE
151	294	20701-2000	SEPARATION GEOTEXTILE, NON-WOVEN	255	SQYD
151	294	30185	AGGREGATE SURFACE COURSE, GRADING <T>, <4> INCH DEPTH, COMPACTION METHOD <B>	255	SQYD
2756		25101-0000	PLACED RIPRAP	14	CUYD
4504		60704-0000	CLEANING CULVERT IN PLACE	1	EACH
4666		25101-0000	PLACED RIPRAP	14	CUYD
6624	13912		Chip Vans Not Designed For Between 66+24 and EOP		
6731		25101-0000	PLACED RIPRAP	14	CUYD
6731		60704-0000	CLEANING CULVERT IN PLACE	1	EACH

Within Sensitive Areas:

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- All drainage features shall be cleaned and reshaped in their existing locations - No relocation of drainage features shall be performed unless approved by the Government explicitly.
- All tracked equipment and ground disturbing work must remain within the road prism.

2N07 SENSITIVE AREA: FROM BOP TO INTERSECTION WITH 3N08
Blading and grubbing are permitted within the existing road prism. No widening of the roadbed or damage to any berms is permitted in the Sensitive Area.

Limitations for Road Construction and T-Spec Maintenance:

Within Sensitive Species Areas:

1. Avoid ground disturbance in sensitive species populations.
2. When clearing, do not pile nor scatter debris in sensitive species populations.

Note: All sensitive species populations of concern are lava cap species.

Within Sensitive Habitat Areas (Lava Cap):

3. Avoid ground disturbance outside the road prism in lava cap areas.
4. Avoid piling and scattering debris on lava cap.
5. Do not stage equipment on lava cap.
6. Lava Cap is shown on each road work map and the Area Map. There may be more Lava Caps on the ground than shown in these maps.

Within Invasive Areas:

7. Clean equipment and tools after working through invasive sites.
8. When Clearing and Grubbing or Brushing in Invasives, scatter debris within the invasive area. Keep debris from invasives in the location it came from as much as possible.

SENSITIVE BOTANICAL AREAS ARE SHOWN ON EACH MAP. USE THE LEGEND TO DETERMINE AREAS OF CONCERN.

9. STA 27+56, 46+66, and 67+31: Install Rip Rap on the fill slope side to prevent further loss of road width. Place rock in a manor so that it will take the impact of falling water.

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(R5)
PACIFIC SOUTHWEST REGION

MARBLE IRSC
STANISLAUS NATIONAL FOREST
SUGAR PINE RANGER DISTRICT

DRAWING TITLE
2N07 (1)
MAP & WORK LIST

DATE	DESIGNER	CHECKED	DWG SHEET NO.
03/12/2026	K. DELISSER	K.B.	C-04

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SHEET 8 OF 29

3/24/26 07:58 STANISLAUS TIMBER 2 C:\USERS\STANISLAUS TIMBER 2\DESKTOP\MARBLE\MARBLE - TS ROAD TEMPLATE R05.DWG;

Road # 2N07			WORKLIST		
BEG STA	END STA	PAY ITEM	WORK DESCRIPTION	QTY	UNIT
10181	10298	30380	ROADBED RECONDITIONING, COMPACTION METHOD<D>	0.03	MILE
11163	12903	30384	ROADWAY RECONDITIONING, COMPACTION METHOD<D>	0.33	MILE
11391		20480-DIP	DRAINAGE EXCAVATION, ROLLING DIP, COMPACTION METHOD <D>	1	EACH
11608		20480-LOD	DRAINAGE EXCAVATION, LEAD OFF DITCH, COMPACTION METHOD <D>	1	EACH
11756		20480-DIP	DRAINAGE EXCAVATION, ROLLING DIP, COMPACTION METHOD <D>	1	EACH
12026		20480-WB	DRAINAGE EXCAVATION, WATERBAR, COMPACTION METHOD <D>	1	EACH
12693		20480-DIP	DRAINAGE EXCAVATION, ROLLING DIP, COMPACTION METHOD <D>	1	EACH
12903		20480-WB	DRAINAGE EXCAVATION, WATERBAR, COMPACTION METHOD <D>	1	EACH
13182		20480-WB	DRAINAGE EXCAVATION, WATERBAR, COMPACTION METHOD <D>	1	EACH
13330		20480-WB	DRAINAGE EXCAVATION, WATERBAR, COMPACTION METHOD <D>	1	EACH
13450		20480-WB	DRAINAGE EXCAVATION, WATERBAR, COMPACTION METHOD <D>	1	EACH
13628		20480-WB	DRAINAGE EXCAVATION, WATERBAR, COMPACTION METHOD <D>	1	EACH
	13912	EOP	END OF PROJECT		

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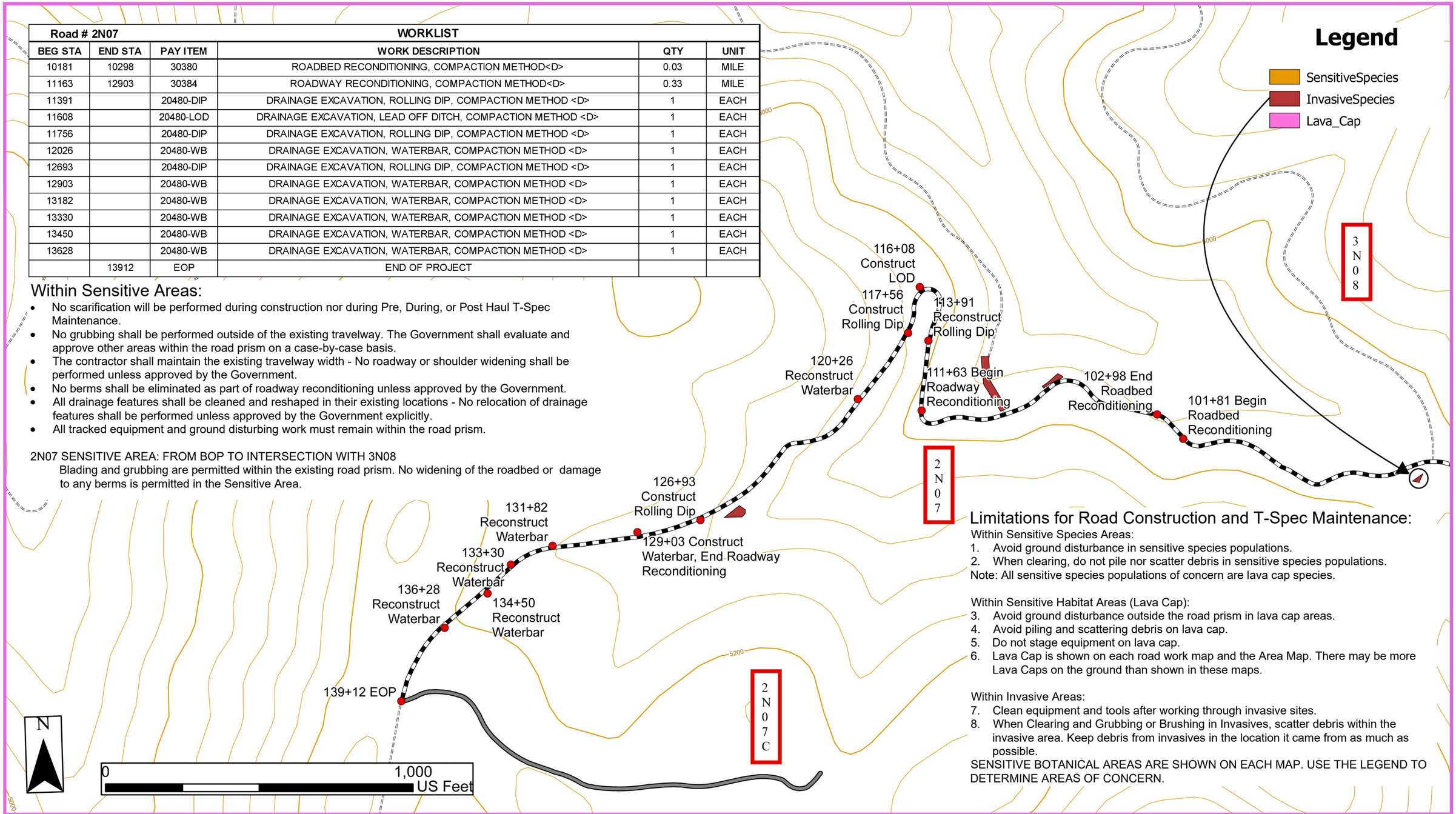

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SENSITIVE BOTANICAL AREAS ARE SHOWN ON EACH MAP. USE THE LEGEND TO DETERMINE AREAS OF CONCERN.

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PACIFIC SOUTHWEST REGION

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STANISLAUS NATIONAL FOREST
SUGAR PINE RANGER DISTRICT

DRAWING TITLE
2N07 (2)
MAP & WORK LIST

DATE	DESIGNER	CHECKED	DWG SHEET NO.
03/12/2026	K. DELISSER	K.B.	C-05

NO.	REVISION DESCRIPTION	BY	DATE
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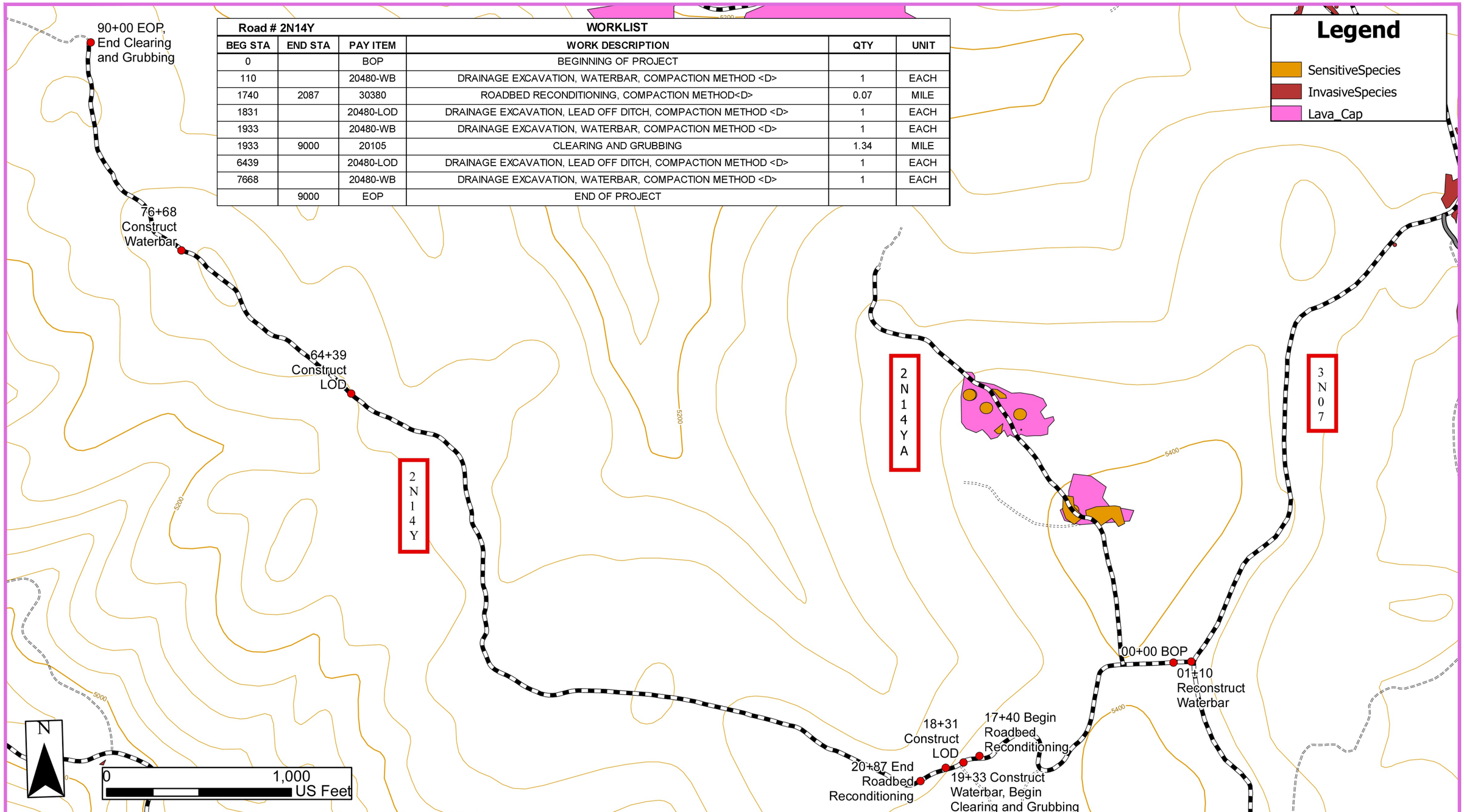
SHEET 9 OF 29

Road # 2N14Y			WORKLIST		
BEG STA	END STA	PAY ITEM	WORK DESCRIPTION	QTY	UNIT
0		BOP	BEGINNING OF PROJECT		
110		20480-WB	DRAINAGE EXCAVATION, WATERBAR, COMPACTION METHOD <D>	1	EACH
1740	2087	30380	ROADBED RECONDITIONING, COMPACTION METHOD<D>	0.07	MILE
1831		20480-LOD	DRAINAGE EXCAVATION, LEAD OFF DITCH, COMPACTION METHOD <D>	1	EACH
1933		20480-WB	DRAINAGE EXCAVATION, WATERBAR, COMPACTION METHOD <D>	1	EACH
1933	9000	20105	CLEARING AND GRUBBING	1.34	MILE
6439		20480-LOD	DRAINAGE EXCAVATION, LEAD OFF DITCH, COMPACTION METHOD <D>	1	EACH
7668		20480-WB	DRAINAGE EXCAVATION, WATERBAR, COMPACTION METHOD <D>	1	EACH
	9000	EOP	END OF PROJECT		



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MARBLE IRSC
STANISLAUS NATIONAL FOREST

SUGAR PINE RANGER DISTRICT

DRAWING TITLE
2N14Y
MAP & WORK LIST

DATE	DESIGNER	CHECKED
03/12/2026	K. DELISSER	K.B.

NO.	REVISION DESCRIPTION	BY	DATE
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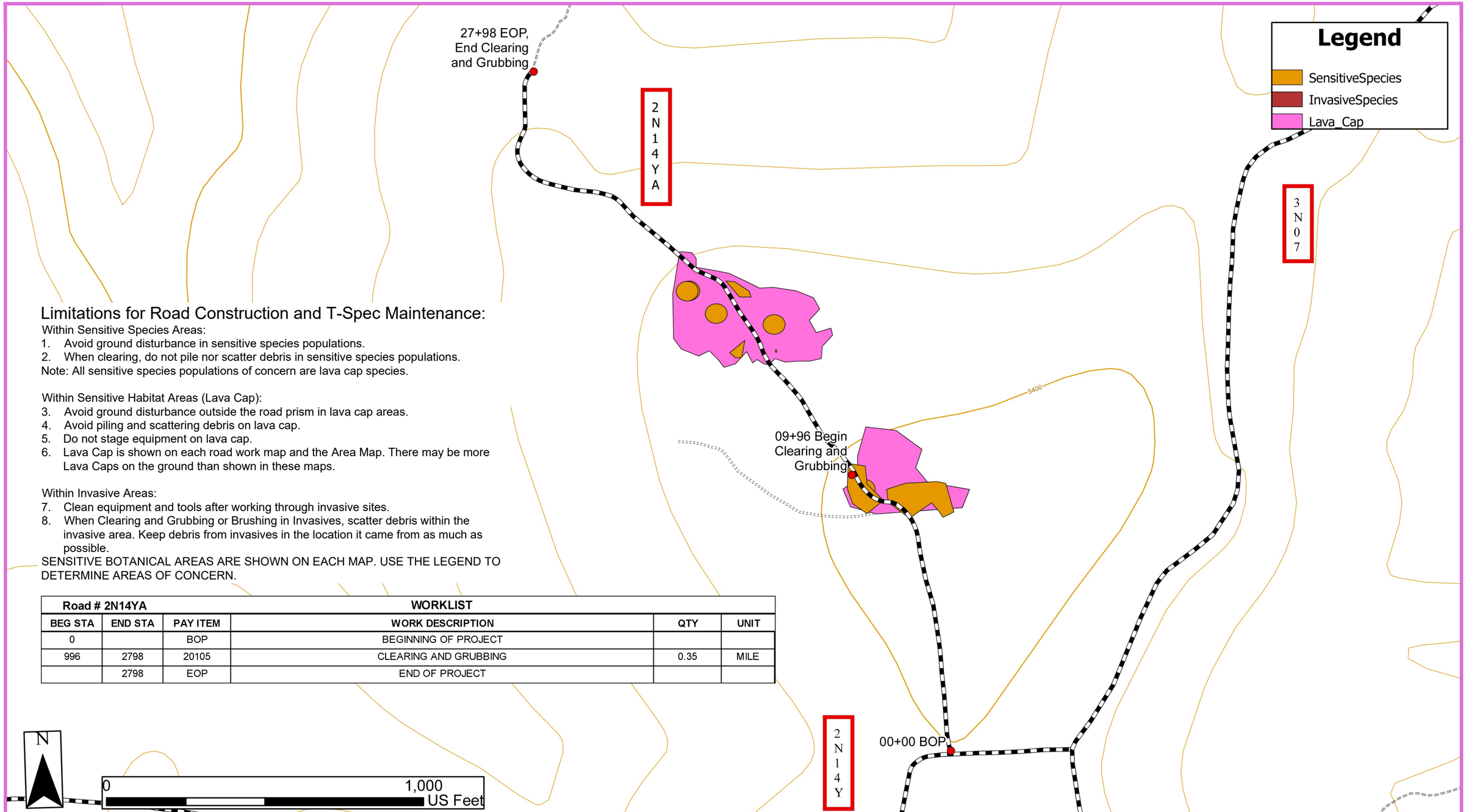
DWG SHEET NO.
C-06

SHEET 10 OF 29

3/24/26 07:58 STANISLAUS TIMBER 2 C:\USERS\STANISLAUS TIMBER 2\DESKTOP\MARBLE\MARBLE - TS ROAD TEMPLATE R05.DWG;



Limitations for Road Construction and T-Spec Maintenance:

Within Sensitive Species Areas:

1. Avoid ground disturbance in sensitive species populations.
2. When clearing, do not pile nor scatter debris in sensitive species populations.

Note: All sensitive species populations of concern are lava cap species.

Within Sensitive Habitat Areas (Lava Cap):

3. Avoid ground disturbance outside the road prism in lava cap areas.
4. Avoid piling and scattering debris on lava cap.
5. Do not stage equipment on lava cap.
6. Lava Cap is shown on each road work map and the Area Map. There may be more Lava Caps on the ground than shown in these maps.

Within Invasive Areas:

7. Clean equipment and tools after working through invasive sites.
8. When Clearing and Grubbing or Brushing in Invasives, scatter debris within the invasive area. Keep debris from invasives in the location it came from as much as possible.

SENSITIVE BOTANICAL AREAS ARE SHOWN ON EACH MAP. USE THE LEGEND TO DETERMINE AREAS OF CONCERN.

Road # 2N14YA			WORKLIST		
BEG STA	END STA	PAY ITEM	WORK DESCRIPTION	QTY	UNIT
0		BOP	BEGINNING OF PROJECT		
996	2798	20105	CLEARING AND GRUBBING	0.35	MILE
	2798	EOP	END OF PROJECT		

3/24/26 07:58 STANISLAUS TIMBER 2 C:\USERS\STANISLAUS TIMBER 2\DESKTOP\MARBLE\MARBLE - TS ROAD TEMPLATE R05.DWG;

United States Department of Agriculture
Forest Service

(R5)
PACIFIC SOUTHWEST REGION

MARBLE IRSC
STANISLAUS NATIONAL FOREST
SUGAR PINE RANGER DISTRICT

DRAWING TITLE
2N14YA
MAP & WORK LIST

DATE	DESIGNER	CHECKED	DWG SHEET NO.
03/12/2026	K. DELISSER	K.B.	C-07

NO.	REVISION DESCRIPTION	BY	DATE
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SHEET 11 OF 29

Limitations for Road Construction and T-Spec Maintenance:

Within Sensitive Species Areas:

1. Avoid ground disturbance in sensitive species populations.
2. When clearing, do not pile nor scatter debris in sensitive species populations.

Note: All sensitive species populations of concern are lava cap species.

Within Sensitive Habitat Areas (Lava Cap):

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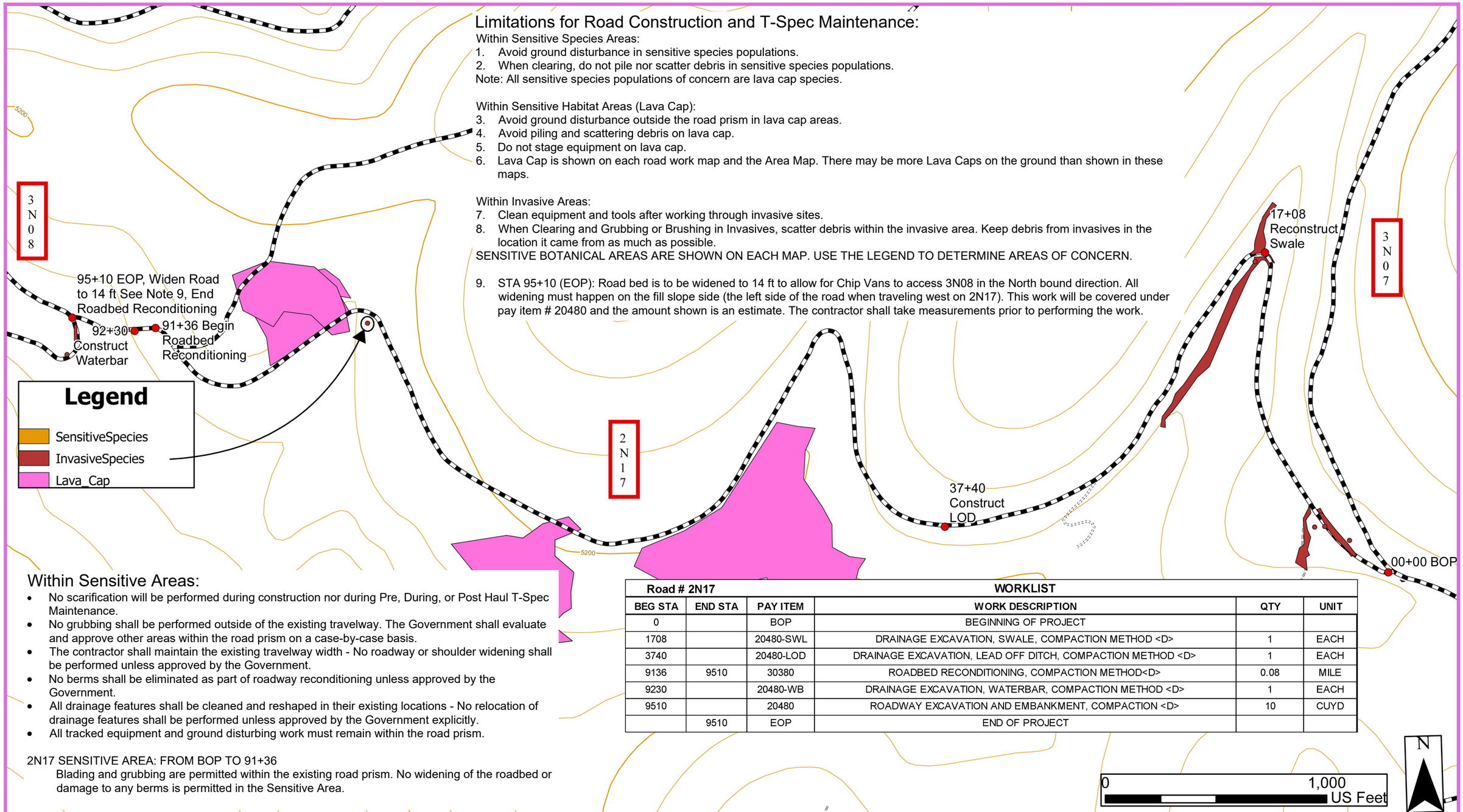
8. When Clearing and Grubbing or Brushing in Invasives, scatter debris within the invasive area. Keep debris from invasives in the location it came from as much as possible.

SENSITIVE BOTANICAL AREAS ARE SHOWN ON EACH MAP. USE THE LEGEND TO DETERMINE AREAS OF CONCERN.

9. STA 95+10 (EOP): Road bed is to be widened to 14 ft to allow for Chip Vans to access 3N08 in the North bound direction. All widening must happen on the fill slope side (the left side of the road when traveling west on 2N17). This work will be covered under pay item # 20480 and the amount shown is an estimate. The contractor shall take measurements prior to performing the work.



Within Sensitive Areas:

- No scarification will be performed during construction nor during Pre, During, or Post Haul T-Spec Maintenance.
- No grubbing shall be performed outside of the existing travelway. The Government shall evaluate and approve other areas within the road prism on a case-by-case basis.
- The contractor shall maintain the existing travelway width - No roadway or shoulder widening shall be performed unless approved by the Government.
- No berms shall be eliminated as part of roadway reconditioning unless approved by the Government.
- All drainage features shall be cleaned and reshaped in their existing locations - No relocation of drainage features shall be performed unless approved by the Government explicitly.
- All tracked equipment and ground disturbing work must remain within the road prism.

2N17 SENSITIVE AREA: FROM BOP TO 91+36

Blading and grubbing are permitted within the existing road prism. No widening of the roadbed or damage to any berms is permitted in the Sensitive Area.

Road # 2N17			WORKLIST		
BEG STA	END STA	PAY ITEM	WORK DESCRIPTION	QTY	UNIT
0		BOP	BEGINNING OF PROJECT		
1708		20480-SWL	DRAINAGE EXCAVATION, SWALE, COMPACTION METHOD <D>	1	EACH
3740		20480-LOD	DRAINAGE EXCAVATION, LEAD OFF DITCH, COMPACTION METHOD <D>	1	EACH
9136	9510	30380	ROADBED RECONDITIONING, COMPACTION METHOD<D>	0.08	MILE
9230		20480-WB	DRAINAGE EXCAVATION, WATERBAR, COMPACTION METHOD <D>	1	EACH
9510		20480	ROADWAY EXCAVATION AND EMBANKMENT, COMPACTION <D>	10	CUYD
	9510	EOP	END OF PROJECT		

United States Department of Agriculture
Forest Service

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PACIFIC SOUTHWEST REGION

MARBLE IRSC
STANISLAUS NATIONAL FOREST
SUGAR PINE RANGER DISTRICT

DRAWING TITLE
2N17
MAP & WORK LIST

DATE	DESIGNER	CHECKED	DWG SHEET NO.
03/12/2026	K. DELISSER	K.B.	C-08

NO.	REVISION DESCRIPTION	BY	DATE
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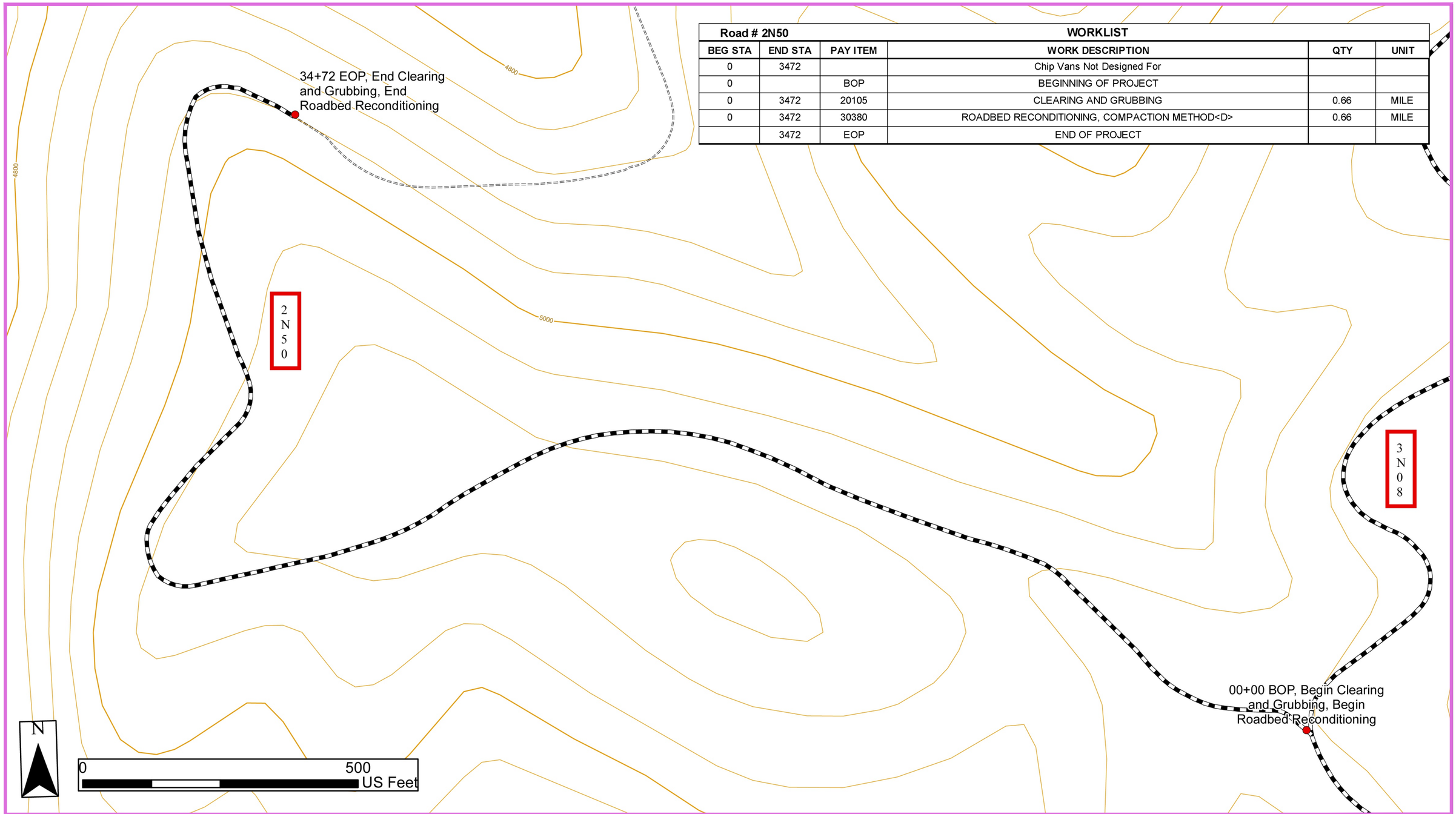
SHEET 12 OF 29

3/24/26 07:58 STANISLAUS TIMBER 2 C:\USERS\STANISLAUS TIMBER 2\DESKTOP\MARBLEMARBLE - TS ROAD TEMPLATE R05.DWG;

Road # 2N50			WORKLIST		
BEG STA	END STA	PAY ITEM	WORK DESCRIPTION	QTY	UNIT
0	3472		Chip Vans Not Designed For		
0		BOP	BEGINNING OF PROJECT		
0	3472	20105	CLEARING AND GRUBBING	0.66	MILE
0	3472	30380	ROADBED RECONDITIONING, COMPACTION METHOD<D>	0.66	MILE
	3472	EOP	END OF PROJECT		



3/24/26 07:58 STANISLAUS TIMBER 2 C:\USERS\STANISLAUS TIMBER 2\DESKTOP\MARBLE\MARBLE - TS ROAD TEMPLATE R05.DWG;

United States Department of Agriculture
Forest Service

(R5)
PACIFIC SOUTHWEST REGION

MARBLE IRSC
STANISLAUS NATIONAL FOREST
SUGAR PINE RANGER DISTRICT

DRAWING TITLE
2N50
MAP & WORK LIST

DATE	DESIGNER	CHECKED	DWG SHEET NO.
03/12/2026	K. DELISSER	K.B.	C-09

NO.	REVISION DESCRIPTION	BY	DATE
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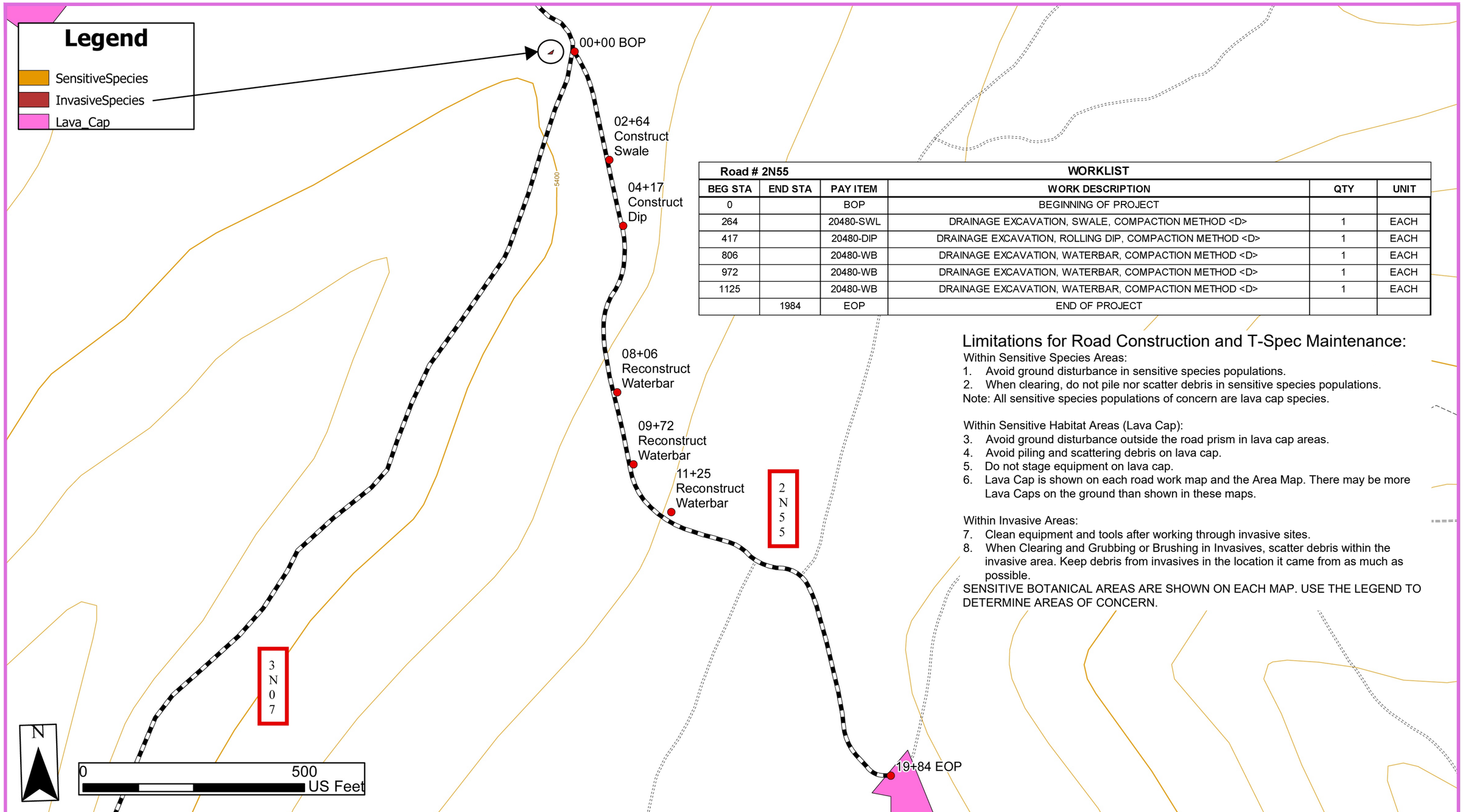
SHEET 13 OF 29



Road # 2N55			WORKLIST		
BEG STA	END STA	PAY ITEM	WORK DESCRIPTION	QTY	UNIT
0		BOP	BEGINNING OF PROJECT		
264		20480-SWL	DRAINAGE EXCAVATION, SWALE, COMPACTION METHOD <D>	1	EACH
417		20480-DIP	DRAINAGE EXCAVATION, ROLLING DIP, COMPACTION METHOD <D>	1	EACH
806		20480-WB	DRAINAGE EXCAVATION, WATERBAR, COMPACTION METHOD <D>	1	EACH
972		20480-WB	DRAINAGE EXCAVATION, WATERBAR, COMPACTION METHOD <D>	1	EACH
1125		20480-WB	DRAINAGE EXCAVATION, WATERBAR, COMPACTION METHOD <D>	1	EACH
	1984	EOP	END OF PROJECT		

Limitations for Road Construction and T-Spec Maintenance:

Within Sensitive Species Areas:

1. Avoid ground disturbance in sensitive species populations.
2. When clearing, do not pile nor scatter debris in sensitive species populations.

Note: All sensitive species populations of concern are lava cap species.

Within Sensitive Habitat Areas (Lava Cap):

3. Avoid ground disturbance outside the road prism in lava cap areas.
4. Avoid piling and scattering debris on lava cap.
5. Do not stage equipment on lava cap.
6. Lava Cap is shown on each road work map and the Area Map. There may be more Lava Caps on the ground than shown in these maps.

Within Invasive Areas:

7. Clean equipment and tools after working through invasive sites.
8. When Clearing and Grubbing or Brushing in Invasives, scatter debris within the invasive area. Keep debris from invasives in the location it came from as much as possible.

SENSITIVE BOTANICAL AREAS ARE SHOWN ON EACH MAP. USE THE LEGEND TO DETERMINE AREAS OF CONCERN.

United States Department of Agriculture
Forest Service

(R5)
PACIFIC SOUTHWEST REGION

MARBLE IRSC
STANISLAUS NATIONAL FOREST
SUGAR PINE RANGER DISTRICT

DRAWING TITLE
2N\55
MAP & WORK LIST

DATE	DESIGNER	CHECKED
03/12/2026	K. DELISSER	K.B.

NO.	REVISION DESCRIPTION	BY	DATE
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DWG SHEET NO.
C-10

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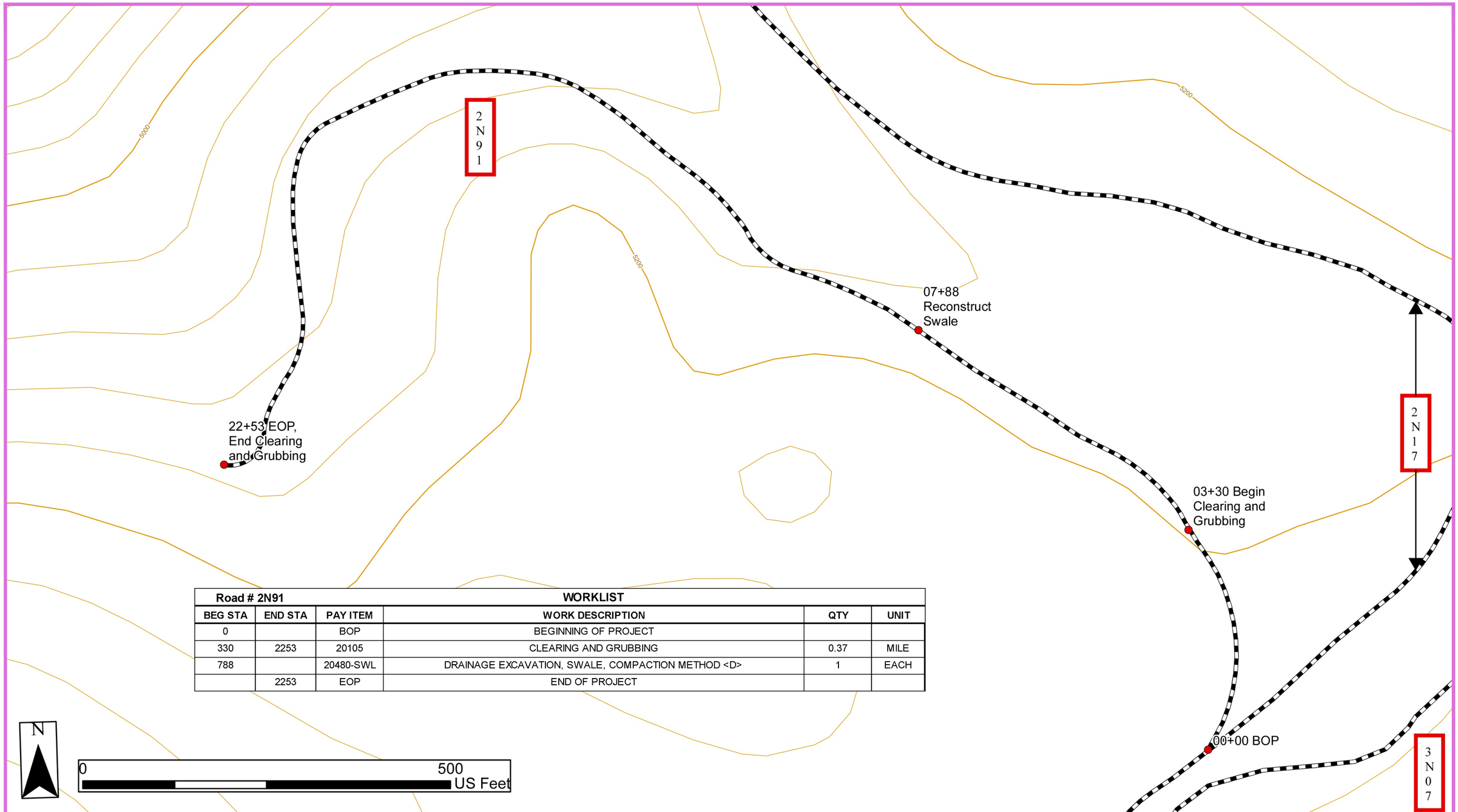

Road # 2N91			WORKLIST		
BEG STA	END STA	PAY ITEM	WORK DESCRIPTION	QTY	UNIT
0		BOP	BEGINNING OF PROJECT		
330	2253	20105	CLEARING AND GRUBBING	0.37	MILE
788		20480-SWL	DRAINAGE EXCAVATION, SWALE, COMPACTION METHOD <D>	1	EACH
	2253	EOP	END OF PROJECT		

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(R5)
PACIFIC SOUTHWEST REGION

MARBLE IRSC
STANISLAUS NATIONAL FOREST

SUGAR PINE RANGER DISTRICT

DRAWING TITLE
2N91
MAP & WORK LIST

DATE	DESIGNER	CHECKED
03/12/2026	K. DELISSER	K.B.

NO.	REVISION DESCRIPTION	BY	DATE
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DWG SHEET NO.
C-11

SHEET 15 OF 29

3/24/26 07:58 STANISLAUS TIMBER 2 C:\USERS\STANISLAUS TIMBER 2\DESKTOP\MARBLE\MARBLE - TS ROAD TEMPLATE R05.DWG;

Road # 2N98Y			WORKLIST		
BEG STA	END STA	PAY ITEM	WORK DESCRIPTION	QTY	UNIT
0		BOP	BEGINNING OF PROJECT		
577	7379	20105	CLEARING AND GRUBBING	1.29	MILE
2899	3347	30380	ROADBED RECONDITIONING, COMPACTION METHOD<D>	0.09	MILE
4761	7654	30380	ROADBED RECONDITIONING, COMPACTION METHOD<D>	0.55	MILE
7525		20480-DIP	DRAINAGE EXCAVATION, ROLLING DIP, COMPACTION METHOD <D>	1	EACH
	7654	EOP	END OF PROJECT		

Limitations for Road Construction and T-Spec Maintenance:

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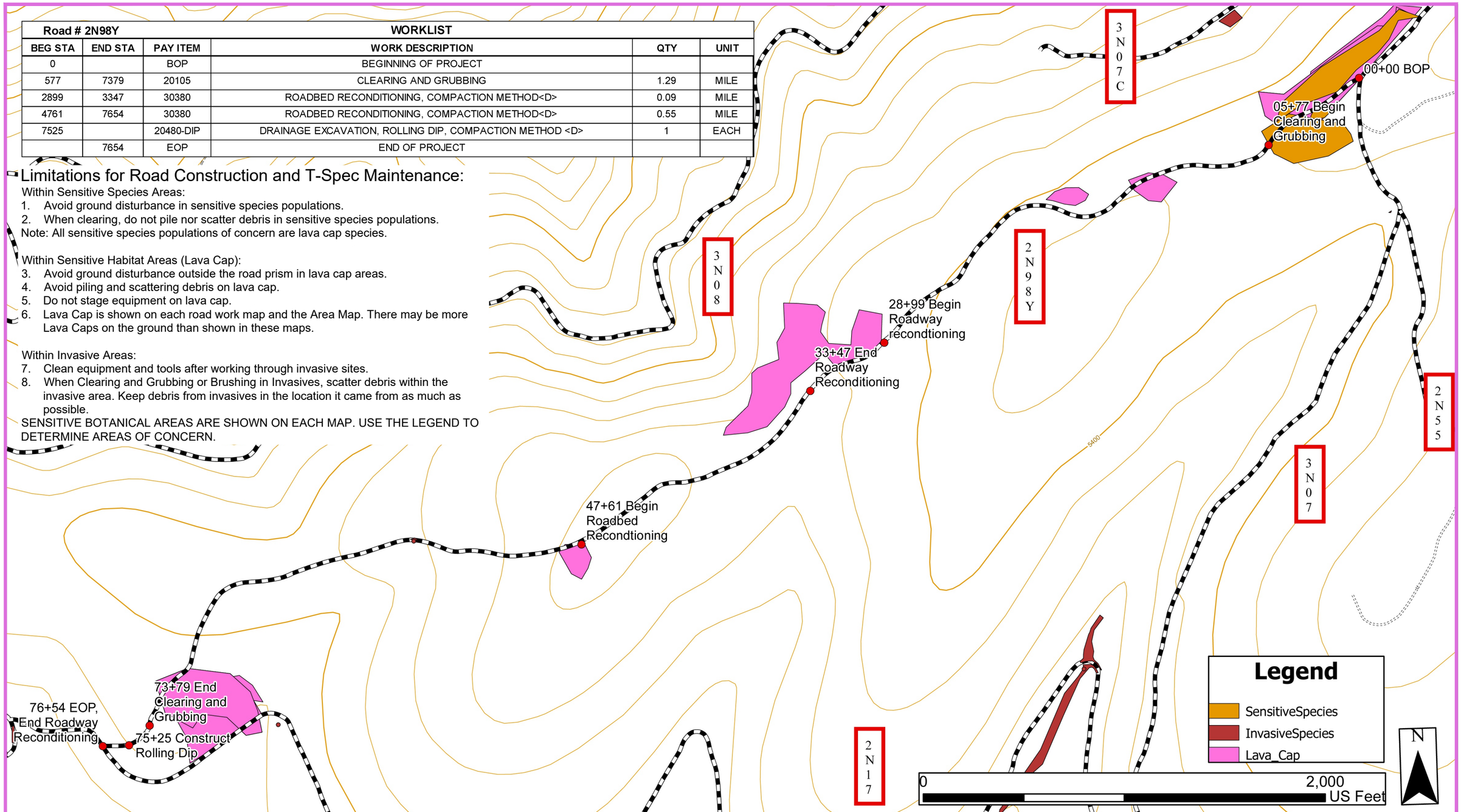

3/24/26 07:58 STANISLAUS TIMBER 2 C:\USERS\STANISLAUS TIMBER 2\DESKTOP\MARBLE\MARBLE - TS ROAD TEMPLATE R05.DWG;

United States Department of Agriculture
Forest Service

(R5)
PACIFIC SOUTHWEST REGION

MARBLE IRSC
STANISLAUS NATIONAL FOREST
SUGAR PINE RANGER DISTRICT

DRAWING TITLE
2N98Y
MAP & WORK LIST

DATE	DESIGNER	CHECKED
03/12/2026	K. DELISSER	K.B.

NO.	REVISION DESCRIPTION	BY	DATE
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DWG SHEET NO.
C-12

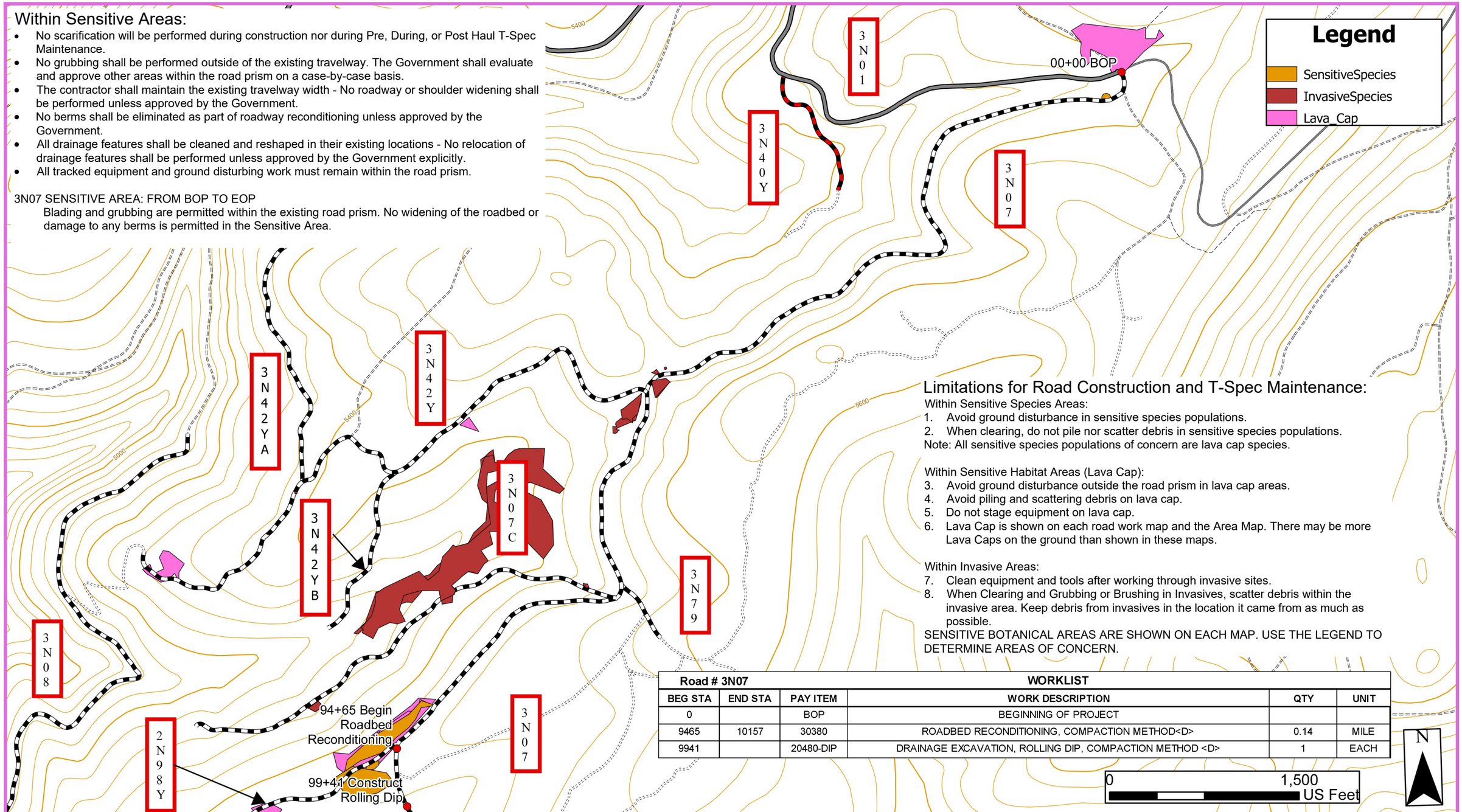
SHEET 16 OF 29

Within Sensitive Areas:

- No scarification will be performed during construction nor during Pre, During, or Post Haul T-Spec Maintenance.
- No grubbing shall be performed outside of the existing travelway. The Government shall evaluate and approve other areas within the road prism on a case-by-case basis.
- The contractor shall maintain the existing travelway width - No roadway or shoulder widening shall be performed unless approved by the Government.
- No berms shall be eliminated as part of roadway reconditioning unless approved by the Government.
- All drainage features shall be cleaned and reshaped in their existing locations - No relocation of drainage features shall be performed unless approved by the Government explicitly.
- All tracked equipment and ground disturbing work must remain within the road prism.

3N07 SENSITIVE AREA: FROM BOP TO EOP

Blading and grubbing are permitted within the existing road prism. No widening of the roadbed or damage to any berms is permitted in the Sensitive Area.



Limitations for Road Construction and T-Spec Maintenance:

Within Sensitive Species Areas:

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Within Invasive Areas:

7. Clean equipment and tools after working through invasive sites.
8. When Clearing and Grubbing or Brushing in Invasives, scatter debris within the invasive area. Keep debris from invasives in the location it came from as much as possible.

SENSITIVE BOTANICAL AREAS ARE SHOWN ON EACH MAP. USE THE LEGEND TO DETERMINE AREAS OF CONCERN.

Road # 3N07 — **WORKLIST**

BEG STA	END STA	PAY ITEM	WORK DESCRIPTION	QTY	UNIT
0		BOP	BEGINNING OF PROJECT		
9465	10157	30380	ROADBED RECONDITIONING, COMPACTION METHOD<D>	0.14	MILE
9941		20480-DIP	DRAINAGE EXCAVATION, ROLLING DIP, COMPACTION METHOD <D>	1	EACH

United States Department of Agriculture
Forest Service

(R5)
PACIFIC SOUTHWEST REGION

MARBLE IRSC
STANISLAUS NATIONAL FOREST
SUGAR PINE RANGER DISTRICT

DRAWING TITLE
3N07 (1)
MAP & WORK LIST

DATE	DESIGNER	CHECKED
03/12/2026	K. DELISSER	K.B.

NO.	REVISION DESCRIPTION	BY	DATE
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DWG SHEET NO.
C-13

3/24/26 07:58 STANISLAUS TIMBER 2 C:\USERS\STANISLAUS TIMBER 2\DESKTOP\MARBLE\MARBLE - TS ROAD TEMPLATE R05.DWG;

Within Sensitive Areas:

- No scarification will be performed during construction nor during Pre, During, or Post Haul T-Spec Maintenance.
- No grubbing shall be performed outside of the existing travelway. The Government shall evaluate and approve other areas within the road prism on a case-by-case basis.
- The contractor shall maintain the existing travelway width - No roadway or shoulder widening shall be performed unless approved by the Government.
- No berms shall be eliminated as part of roadway reconditioning unless approved by the Government.
- All drainage features shall be cleaned and reshaped in their existing locations - No relocation of drainage features shall be performed unless approved by the Government explicitly.
- All tracked equipment and ground disturbing work must remain within the road prism.

3N07 SENSITIVE AREA: FROM BOP TO EOP

Blading and grubbing are permitted within the existing road prism. No widening of the roadbed or damage to any berms is permitted in the Sensitive Area.

Limitations for Road Construction and T-Spec Maintenance:

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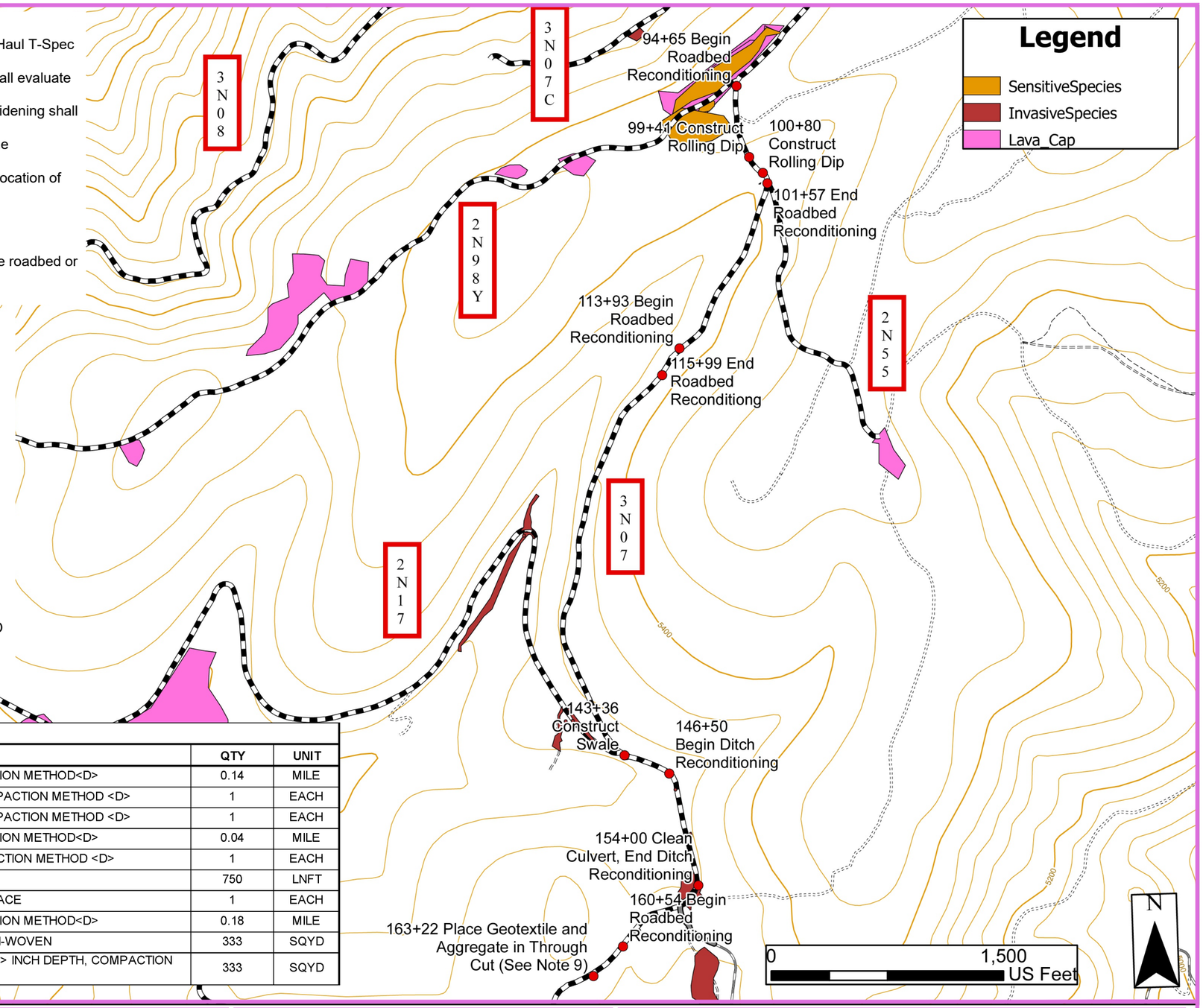
9. STA 163+22 Through cut is about 200 linear feet.



Road # 3N07			WORKLIST		
BEG STA	END STA	PAY ITEM	WORK DESCRIPTION	QTY	UNIT
9465	10157	30380	ROADBED RECONDITIONING, COMPACTION METHOD<D>	0.14	MILE
9941		20480-DIP	DRAINAGE EXCAVATION, ROLLING DIP, COMPACTION METHOD <D>	1	EACH
10080		20480-DIP	DRAINAGE EXCAVATION, ROLLING DIP, COMPACTION METHOD <D>	1	EACH
11393	11599	30380	ROADBED RECONDITIONING, COMPACTION METHOD<D>	0.04	MILE
14336		20480-SWL	DRAINAGE EXCAVATION, SWALE, COMPACTION METHOD <D>	1	EACH
14650	15400	20425-1000	DITCH, EXCAVATION	750	LNFT
15400		60704-0000	CLEANING CULVERT IN PLACE	1	EACH
16054	17002	30380	ROADBED RECONDITIONING, COMPACTION METHOD<D>	0.18	MILE
16322		20701-2000	SEPARATION GEOTEXTILE, NON-WOVEN	333	SQYD
16322		30185	AGGREGATE SURFACE COURSE, GRADING <T>, <4> INCH DEPTH, COMPACTION METHOD <B>	333	SQYD

United States Department of Agriculture
Forest Service

(R5)
PACIFIC SOUTHWEST REGION

MARBLE IRSC
STANISLAUS NATIONAL FOREST
SUGAR PINE RANGER DISTRICT

DRAWING TITLE
3N07 (2)
MAP & WORK LIST

DATE	DESIGNER	CHECKED	DWG SHEET NO.
03/12/2026	K. DELISSER	K.B.	C-14

NO.	REVISION DESCRIPTION	BY	DATE
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SHEET 18 OF 29

3/24/26 07:58 STANISLAUS TIMBER 2 C:\USERS\STANISLAUS TIMBER 2\DESKTOP\MARBLE\MARBLE - TS ROAD TEMPLATE R05.DWG;

Road # 3N07			WORKLIST		
BEG STA	END STA	PAY ITEM	WORK DESCRIPTION	QTY	UNIT
16322		20701-2000	SEPARATION GEOTEXTILE, NON-WOVEN	333	SQYD
16322		30185	AGGREGATE SURFACE COURSE, GRADING <T>, <4> INCH DEPTH, COMPACTION METHOD <B>	333	SQYD
17614		20480-SWL	DRAINAGE EXCAVATION, SWALE, COMPACTION METHOD <D>	1	EACH
18305		20480-SWL	DRAINAGE EXCAVATION, SWALE, COMPACTION METHOD <D>	1	EACH
20000	20535	30380	ROADBED RECONDITIONING, COMPACTION METHOD<D>	0.11	MILE
20080	20280	20480	ROADWAY EXCAVATION AND EMBANKMENT, COMPACTION <D>	120	CUYD
20080	20280	30185	AGGREGATE SURFACE COURSE, GRADING <T>, <4> INCH DEPTH, COMPACTION METHOD <B>	312	SQYD
20224		20301-1900	REMOVAL OF PIPE CULVERT	1	EACH

Limitations for Road Construction and T-Spec Maintenance:

Within Sensitive Species Areas:

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SENSITIVE BOTANICAL AREAS ARE SHOWN ON EACH MAP. USE THE LEGEND TO DETERMINE AREAS OF CONCERN.

9. STA 163+22 Through cut is about 200 linear feet.
10. STA 200+80 - 202+80: Fill 200 ft depression with native fill in accordance with Section 204 of the FP-24 and FSSS. Quantity shown is estimated total volume after compaction to fill the depression. Grade of finished road shall be less than 1% along the center line and smoothly transition from the existing grade before the depression to the existing grade after the depression. Surface course aggregate shall be added after completion of raising the roadbed.

Within Sensitive Areas:

- No scarification will be performed during construction nor during Pre, During, or Post Haul T-Spec Maintenance.
- No grubbing shall be performed outside of the existing travelway. The Government shall evaluate and approve other areas within the road prism on a case-by-case basis.
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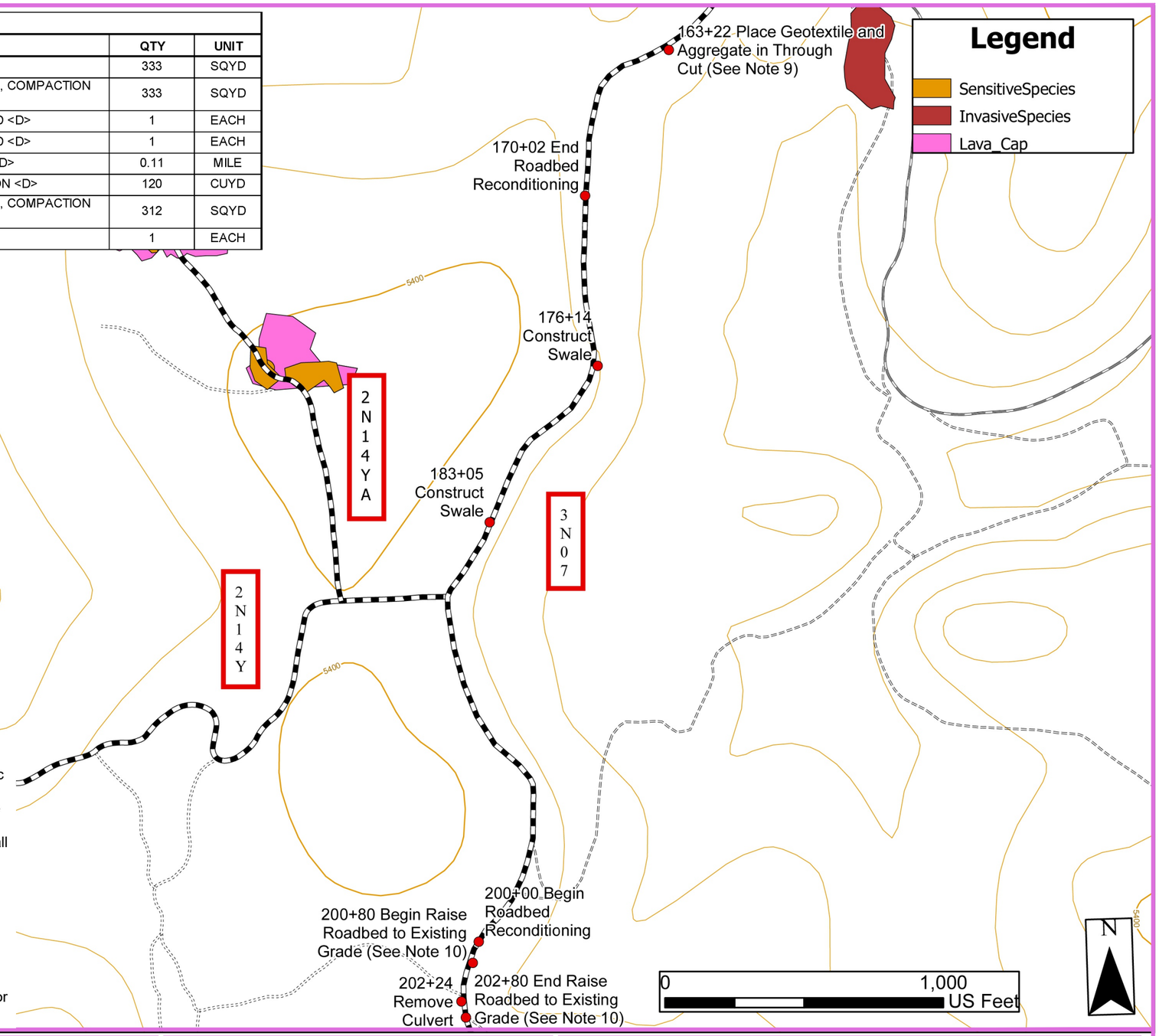
- All tracked equipment and ground disturbing work must remain within the road prism.

3N07 SENSITIVE AREA: FROM BOP TO EOP

Blading and grubbing are permitted within the existing road prism. No widening of the roadbed or damage to any berms is permitted in the Sensitive Area.



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United States Department of Agriculture
Forest Service

(R5)
PACIFIC SOUTHWEST REGION

MARBLE IRSC
STANISLAUS NATIONAL FOREST
SUGAR PINE RANGER DISTRICT

DRAWING TITLE
3N07 (3)
MAP & WORK LIST

DATE	DESIGNER	CHECKED	DWG SHEET NO.
03/12/2026	K. DELISSER	K.B.	C-15

NO.	REVISION DESCRIPTION	BY	DATE
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Road # 3N07			WORKLIST		
BEG STA	END STA	PAY ITEM	WORK DESCRIPTION	QTY	UNIT
20000	20535	30380	ROADBED RECONDITIONING, COMPACTION METHOD<D>	0.11	MILE
20080	20280	20480	ROADWAY EXCAVATION AND EMBANKMENT, COMPACTION <D>	120	CUYD
20080	20280	30185	AGGREGATE SURFACE COURSE, GRADING <T>, <4> INCH DEPTH, COMPACTION METHOD <B>	312	SQYD
20224		20301-1900	REMOVAL OF PIPE CULVERT	1	EACH
23501	25873	30380	ROADBED RECONDITIONING, COMPACTION METHOD<D>	0.45	MILE
23705		20480-LOD	DRAINAGE EXCAVATION, LEAD OFF DITCH, COMPACTION METHOD <D>	1	EACH
	27421	EOP	END OF PROJECT		

Limitations for Road Construction and T-Spec Maintenance:

Within Sensitive Species Areas:

1. Avoid ground disturbance in sensitive species populations.
2. When clearing, do not pile nor scatter debris in sensitive species populations.

Note: All sensitive species populations of concern are lava cap species.

Within Sensitive Habitat Areas (Lava Cap):

3. Avoid ground disturbance outside the road prism in lava cap areas.
4. Avoid piling and scattering debris on lava cap.
5. Do not stage equipment on lava cap.
6. Lava Cap is shown on each road work map and the Area Map. There may be more Lava Caps on the ground than shown in these maps.

Within Invasive Areas:

7. Clean equipment and tools after working through invasive sites.
8. When Clearing and Grubbing or Brushing in Invasives, scatter debris within the invasive area. Keep debris from invasives in the location it came from as much as possible.

SENSITIVE BOTANICAL AREAS ARE SHOWN ON EACH MAP. USE THE LEGEND TO DETERMINE AREAS OF CONCERN.

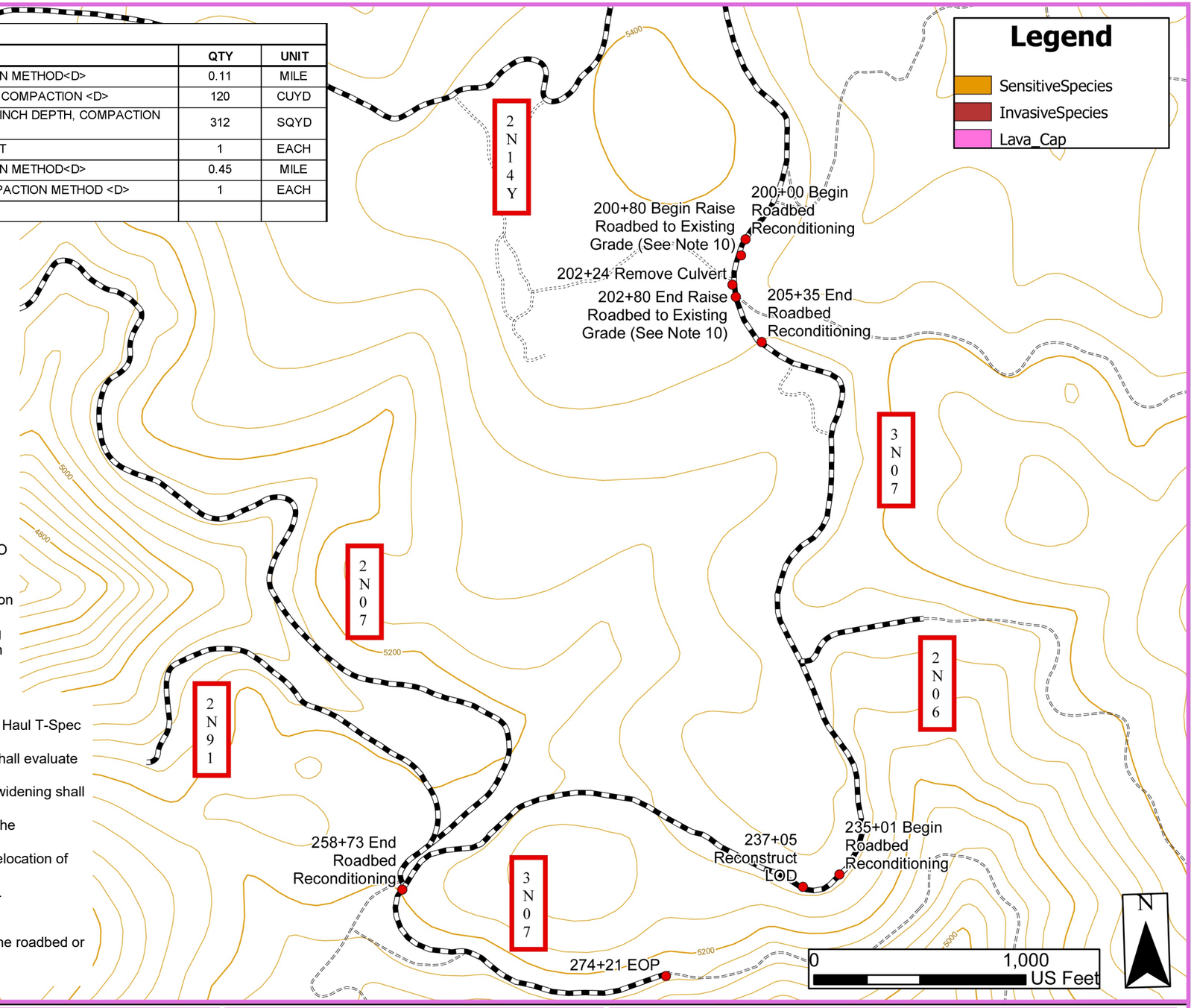
9. STA 200+80 - 202+80: Fill 200 ft depression with native fill in accordance with Section 204 of the FP-24 and FSSS. Quantity shown is estimated total volume after compaction to fill the depression. Grade of finished road shall be less than 1% along the center line and smoothly transition from the existing grade before the depression to the existing grade after the depression. Surface course aggregate shall be added after completion of raising the roadbed.

Within Sensitive Areas:

- No scarification will be performed during construction nor during Pre, During, or Post Haul T-Spec Maintenance.
- No grubbing shall be performed outside of the existing travelway. The Government shall evaluate and approve other areas within the road prism on a case-by-case basis.
- The contractor shall maintain the existing travelway width - No roadway or shoulder widening shall be performed unless approved by the Government.
- No berms shall be eliminated as part of roadway reconditioning unless approved by the Government.
- All drainage features shall be cleaned and reshaped in their existing locations - No relocation of drainage features shall be performed unless approved by the Government explicitly.
- All tracked equipment and ground disturbing work must remain within the road prism.

3N07 SENSITIVE AREA: FROM BOP TO EOP

Blading and grubbing are permitted within the existing road prism. No widening of the roadbed or damage to any berms is permitted in the Sensitive Area.



United States Department of Agriculture
Forest Service

(R5)
PACIFIC SOUTHWEST REGION

MARBLE IRSC
STANISLAUS NATIONAL FOREST
SUGAR PINE RANGER DISTRICT

DRAWING TITLE
3N07 (4)
MAP & WORK LIST

DATE	DESIGNER	CHECKED
03/12/2026	K. DELISSER	K.B.

NO.	REVISION DESCRIPTION	BY	DATE
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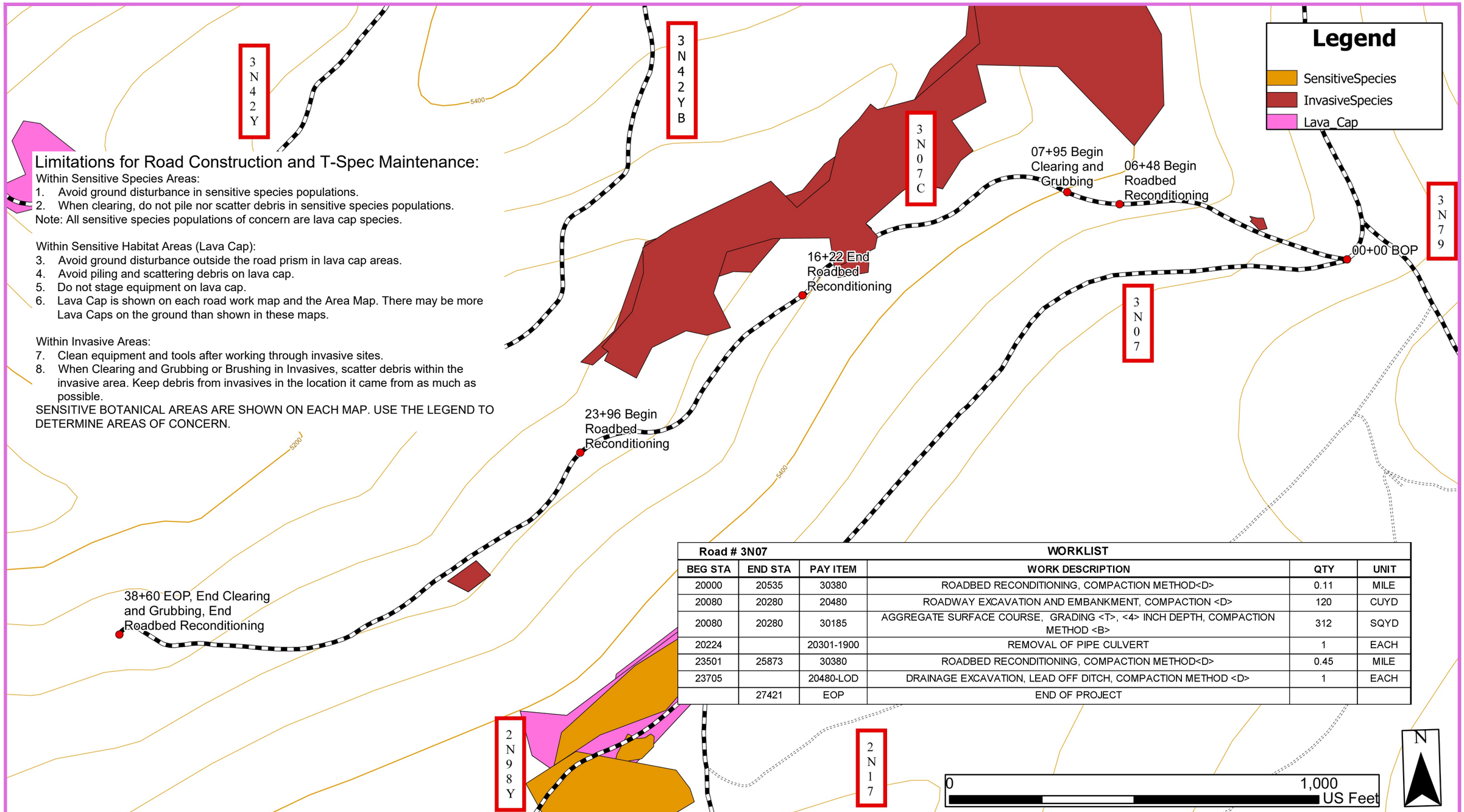
DWG SHEET NO.
C-16

3/24/26 07:58 STANISLAUS TIMBER 2 C:\USERS\STANISLAUS TIMBER 2\DESKTOP\MARBLE\MARBLE - TS ROAD TEMPLATE R05.DWG;



Limitations for Road Construction and T-Spec Maintenance:

Within Sensitive Species Areas:

1. Avoid ground disturbance in sensitive species populations.
2. When clearing, do not pile nor scatter debris in sensitive species populations.

Note: All sensitive species populations of concern are lava cap species.

Within Sensitive Habitat Areas (Lava Cap):

3. Avoid ground disturbance outside the road prism in lava cap areas.
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Within Invasive Areas:

7. Clean equipment and tools after working through invasive sites.
8. When Clearing and Grubbing or Brushing in Invasives, scatter debris within the invasive area. Keep debris from invasives in the location it came from as much as possible.

SENSITIVE BOTANICAL AREAS ARE SHOWN ON EACH MAP. USE THE LEGEND TO DETERMINE AREAS OF CONCERN.

Road # 3N07 — **WORKLIST**

BEG STA	END STA	PAY ITEM	WORK DESCRIPTION	QTY	UNIT
20000	20535	30380	ROADBED RECONDITIONING, COMPACTION METHOD<D>	0.11	MILE
20080	20280	20480	ROADWAY EXCAVATION AND EMBANKMENT, COMPACTION <D>	120	CUYD
20080	20280	30185	AGGREGATE SURFACE COURSE, GRADING <T>, <4> INCH DEPTH, COMPACTION METHOD <B>	312	SQYD
20224		20301-1900	REMOVAL OF PIPE CULVERT	1	EACH
23501	25873	30380	ROADBED RECONDITIONING, COMPACTION METHOD<D>	0.45	MILE
23705		20480-LOD	DRAINAGE EXCAVATION, LEAD OFF DITCH, COMPACTION METHOD <D>	1	EACH
	27421	EOP	END OF PROJECT		

United States Department of Agriculture
Forest Service

(R5)
PACIFIC SOUTHWEST REGION

MARBLE IRSC
STANISLAUS NATIONAL FOREST
SUGAR PINE RANGER DISTRICT

DRAWING TITLE
3N07C
MAP & WORK LIST

DATE	DESIGNER	CHECKED
03/12/2026	K. DELISSER	K.B.

NO.	REVISION DESCRIPTION	BY	DATE
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DWG SHEET NO.
C-17

SHEET 21 OF 29

3/24/26 07:58 STANISLAUS TIMBER 2 C:\USERS\STANISLAUS TIMBER 2\DESKTOP\MARBLE\MARBLE - TS ROAD TEMPLATE R05.DWG;

Road # 3N08			WORKLIST		
BEG STA	END STA	PAY ITEM	WORK DESCRIPTION	QTY	UNIT
0		BOP	BEGINNING OF PROJECT		
2486	2944	30380	ROADBED RECONDITIONING, COMPACTION METHOD<D>	0.09	MILE
2745		20480-ASWL	DRAINAGE EXCAVATION, ARMORED SWALE, COMPACTION METHOD <D>	1	EACH
0	6974		Chip Vans Not Designed For Between BOP and 69+74		
11937	17265	20105	CLEARING AND GRUBBING	1.01	MILE
11937	12226	30380	ROADBED RECONDITIONING, COMPACTION METHOD<D>	0.06	MILE
12103	17265		Chip Vans Not Designed For Between 121+03 and EOP		
12103		20480-SWL	DRAINAGE EXCAVATION, SWALE, COMPACTION METHOD <D>	1	EACH
	17265	EOP	END OF PROJECT		

Limitations for Road Construction and T-Spec Maintenance:

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Within Sensitive Habitat Areas (Lava Cap):

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Within Invasive Areas:

7. Clean equipment and tools after working through invasive sites.
8. When Clearing and Grubbing or Brushing in Invasives, scatter debris within the invasive area. Keep debris from invasives in the location it came from as much as possible.

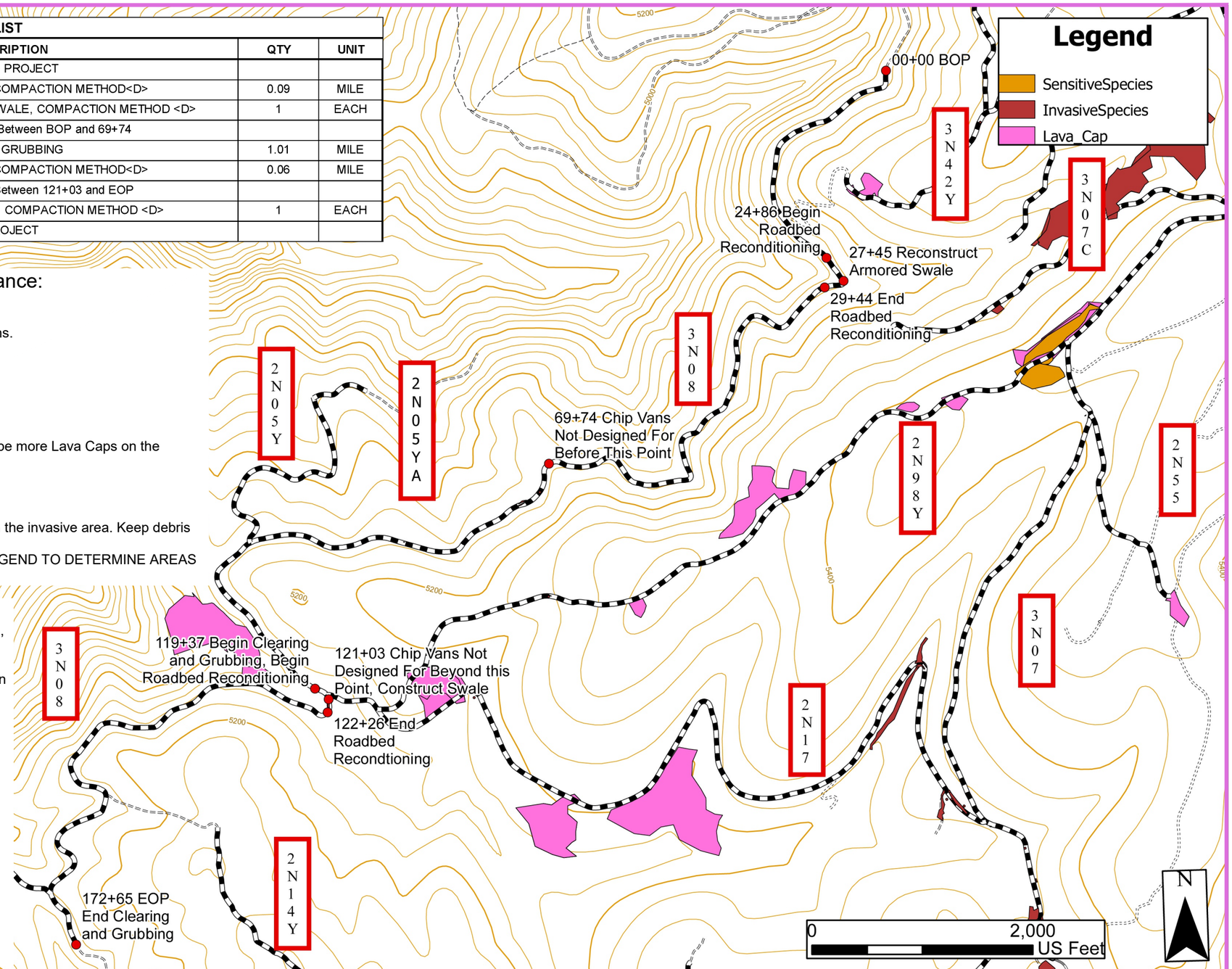
SENSITIVE BOTANICAL AREAS ARE SHOWN ON EACH MAP. USE THE LEGEND TO DETERMINE AREAS OF CONCERN.

Within Sensitive Areas:

- No scarification will be performed during construction nor during Pre, During, or Post Haul T-Spec Maintenance.
- No grubbing shall be performed outside of the existing travelway. The Government shall evaluate and approve other areas within the road prism on a case-by-case basis.
- The contractor shall maintain the existing travelway width - No roadway or shoulder widening shall be performed unless approved by the Government.
- No berms shall be eliminated as part of roadway reconditioning unless approved by the Government.
- All drainage features shall be cleaned and reshaped in their existing locations - No relocation of drainage features shall be performed unless approved by the Government explicitly.
- All tracked equipment and ground disturbing work must remain within the road prism.

3N08 SENSITIVE AREA: FROM BOP TO EOP

Blading and grubbing are permitted within the existing road prism. No widening of the roadbed or damage to any berms is permitted in the Sensitive Area.



3/24/26 07:58 STANISLAUS TIMBER 2 C:\USERS\STANISLAUS TIMBER 2\DESKTOP\MARBLE\MARBLE - TS ROAD TEMPLATE R05.DWG;

United States Department of Agriculture
Forest Service

(R5)
PACIFIC SOUTHWEST REGION

MARBLE IRSC
STANISLAUS NATIONAL FOREST
SUGAR PINE RANGER DISTRICT

DRAWING TITLE
3N08
MAP & WORK LIST

DATE	DESIGNER	CHECKED
03/12/2026	K. DELISSER	K.B.

NO.	REVISION DESCRIPTION	BY	DATE
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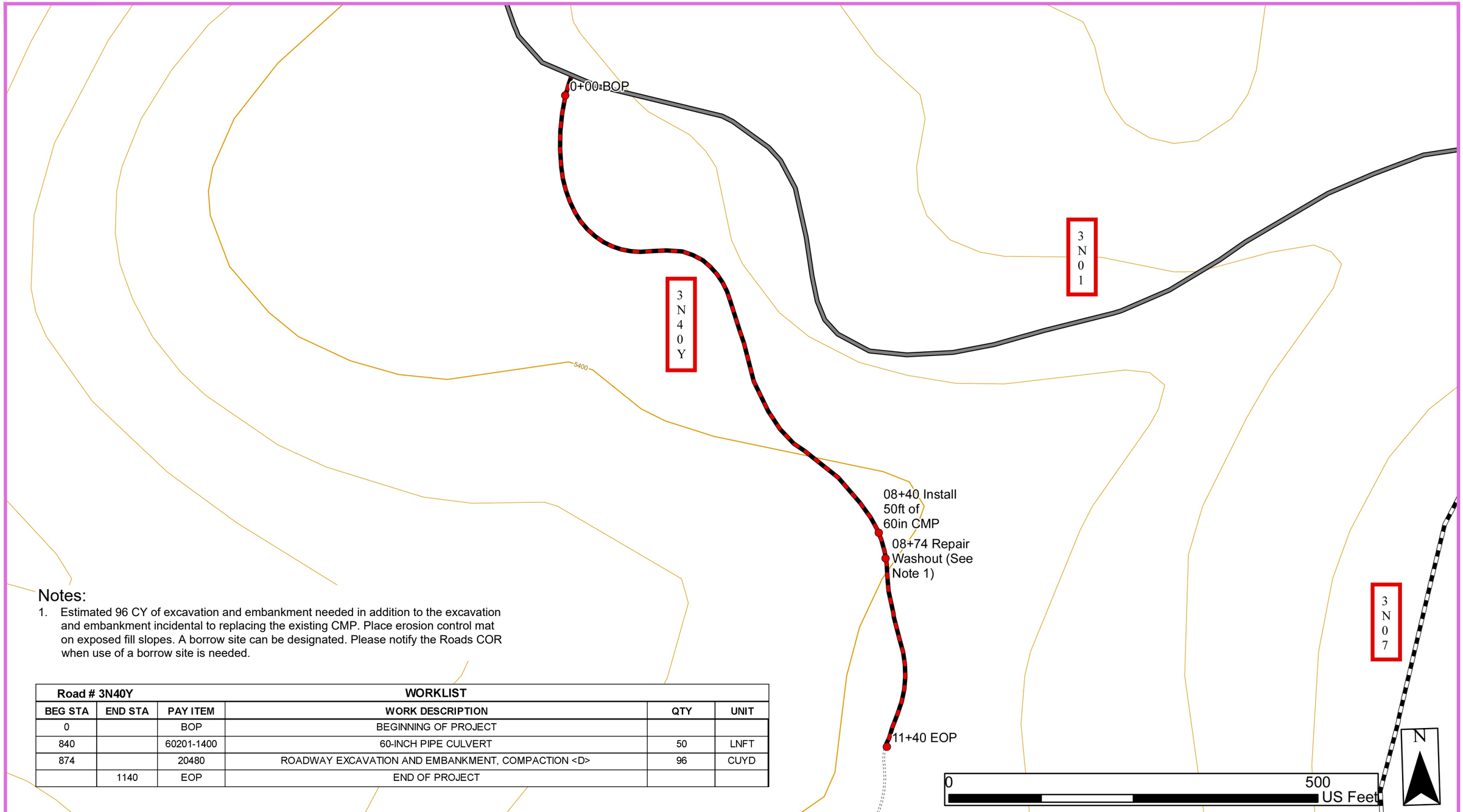
DWG SHEET NO.
C-18

SHEET 22 OF 29



Notes:

1. Estimated 96 CY of excavation and embankment needed in addition to the excavation and embankment incidental to replacing the existing CMP. Place erosion control mat on exposed fill slopes. A borrow site can be designated. Please notify the Roads COR when use of a borrow site is needed.

Road # 3N40Y			WORKLIST		
BEG STA	END STA	PAY ITEM	WORK DESCRIPTION	QTY	UNIT
0		BOP	BEGINNING OF PROJECT		
840		60201-1400	60-INCH PIPE CULVERT	50	LNFT
874		20480	ROADWAY EXCAVATION AND EMBANKMENT, COMPACTION <D>	96	CUYD
	1140	EOP	END OF PROJECT		

United States Department of Agriculture
Forest Service

(R5)
PACIFIC SOUTHWEST REGION

MARBLE IRSC
STANISLAUS NATIONAL FOREST

SUGAR PINE RANGER DISTRICT

DRAWING TITLE
3N40Y
MAP & WORK LIST

DATE	DESIGNER	CHECKED	DWG SHEET NO.
03/12/2026	K. DELISSER	K.B.	C-19

NO.	REVISION DESCRIPTION	BY	DATE
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SHEET 23 OF 29

3/24/26 07:58 STANISLAUS TIMBER 2 C:\USERS\STANISLAUS TIMBER 2\DESKTOP\MARBLE\MARBLE - TS ROAD TEMPLATE R05.DWG;

Road # 3N42Y			WORKLIST		
BEG STA	END STA	PAY ITEM	WORK DESCRIPTION	QTY	UNIT
0		BOP	BEGINNING OF PROJECT		
265	5503	20105	CLEARING AND GRUBBING	1.00	MILE
	5503	EOP	END OF PROJECT		

Limitations for Road Construction and T-Spec Maintenance:

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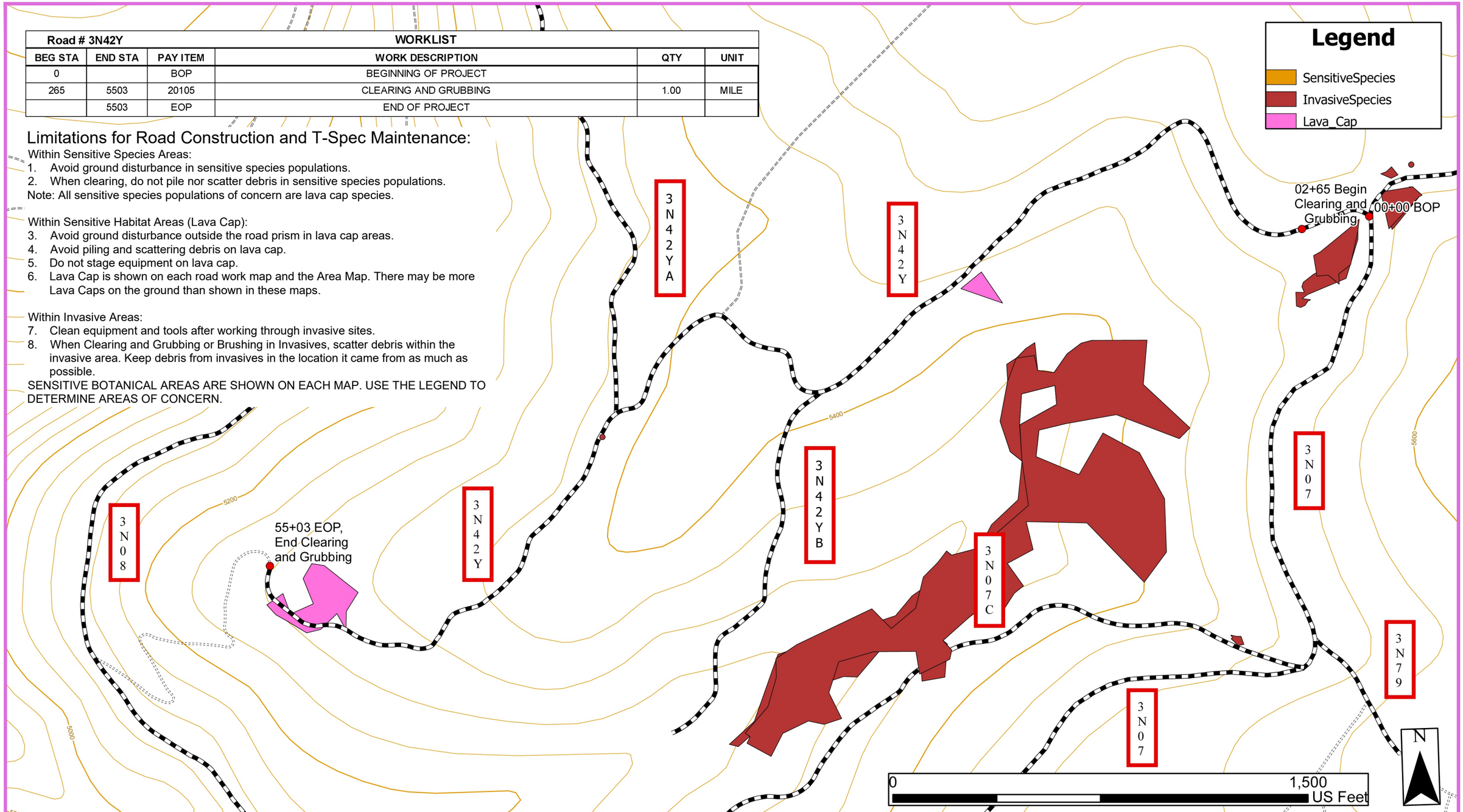
SENSITIVE BOTANICAL AREAS ARE SHOWN ON EACH MAP. USE THE LEGEND TO DETERMINE AREAS OF CONCERN.



United States Department of Agriculture
Forest Service

(R5)
PACIFIC SOUTHWEST REGION

MARBLE IRSC
STANISLAUS NATIONAL FOREST
SUGAR PINE RANGER DISTRICT

DRAWING TITLE
3N42Y
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03/12/2026	K. DELISSER	K.B.	C-20

NO.	REVISION DESCRIPTION	BY	DATE
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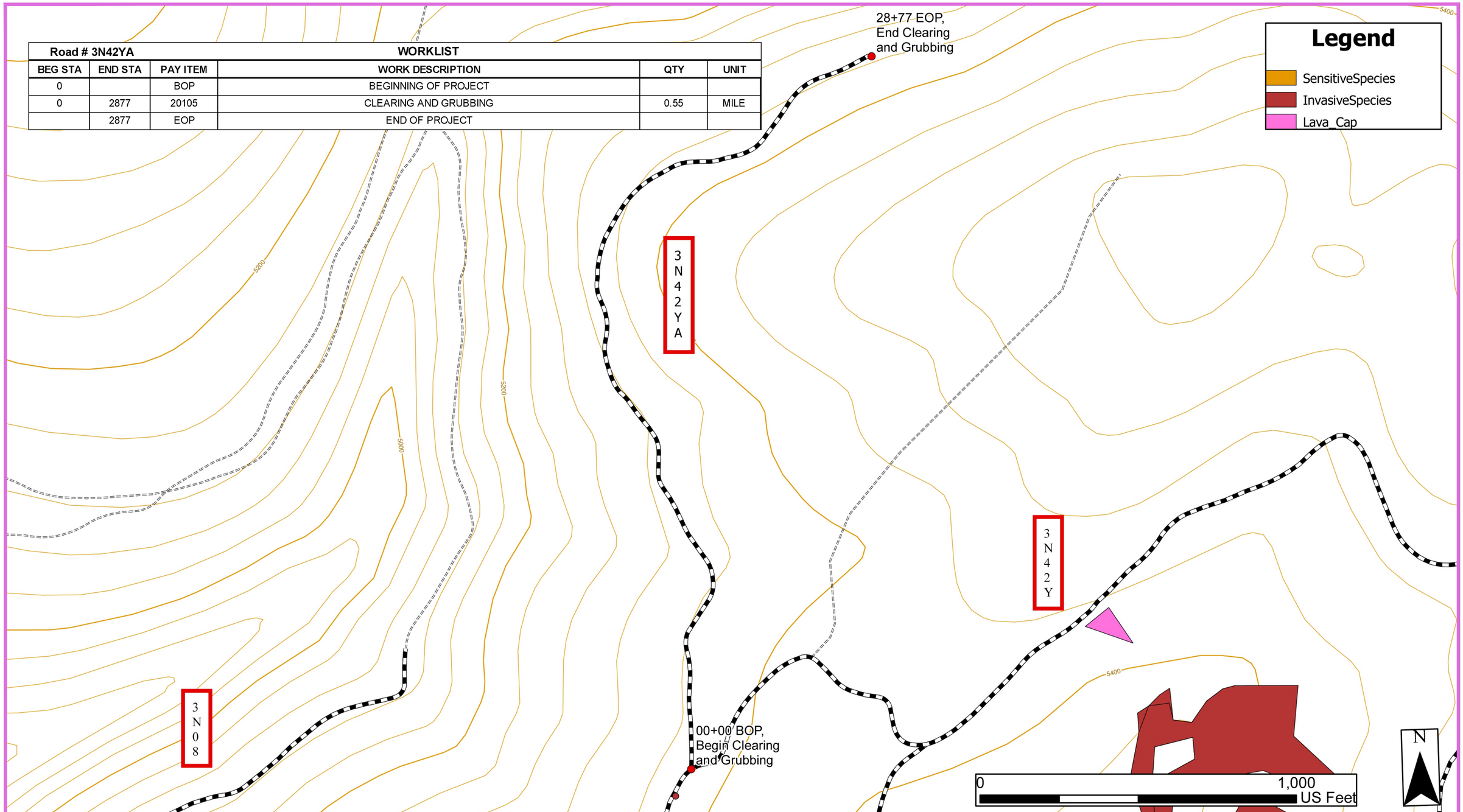
SHEET 24 OF 29

3/24/26 07:58 STANISLAUS TIMBER 2 C:\USERS\STANISLAUS TIMBER 2\DESKTOP\MARBLE\MARBLE - TS ROAD TEMPLATE R05.DWG;

Road # 3N42YA			WORKLIST		
BEG STA	END STA	PAY ITEM	WORK DESCRIPTION	QTY	UNIT
0		BOP	BEGINNING OF PROJECT		
0	2877	20105	CLEARING AND GRUBBING	0.55	MILE
	2877	EOP	END OF PROJECT		



United States Department of Agriculture
Forest Service

(R5)
PACIFIC SOUTHWEST REGION

MARBLE IRSC
STANISLAUS NATIONAL FOREST

SUGAR PINE RANGER DISTRICT

DRAWING TITLE
3N42YA
MAP & WORK LIST

DATE	DESIGNER	CHECKED	DWG SHEET NO.
03/12/2026	K. DELISSER	K.B.	C-21

NO.	REVISION DESCRIPTION	BY	DATE
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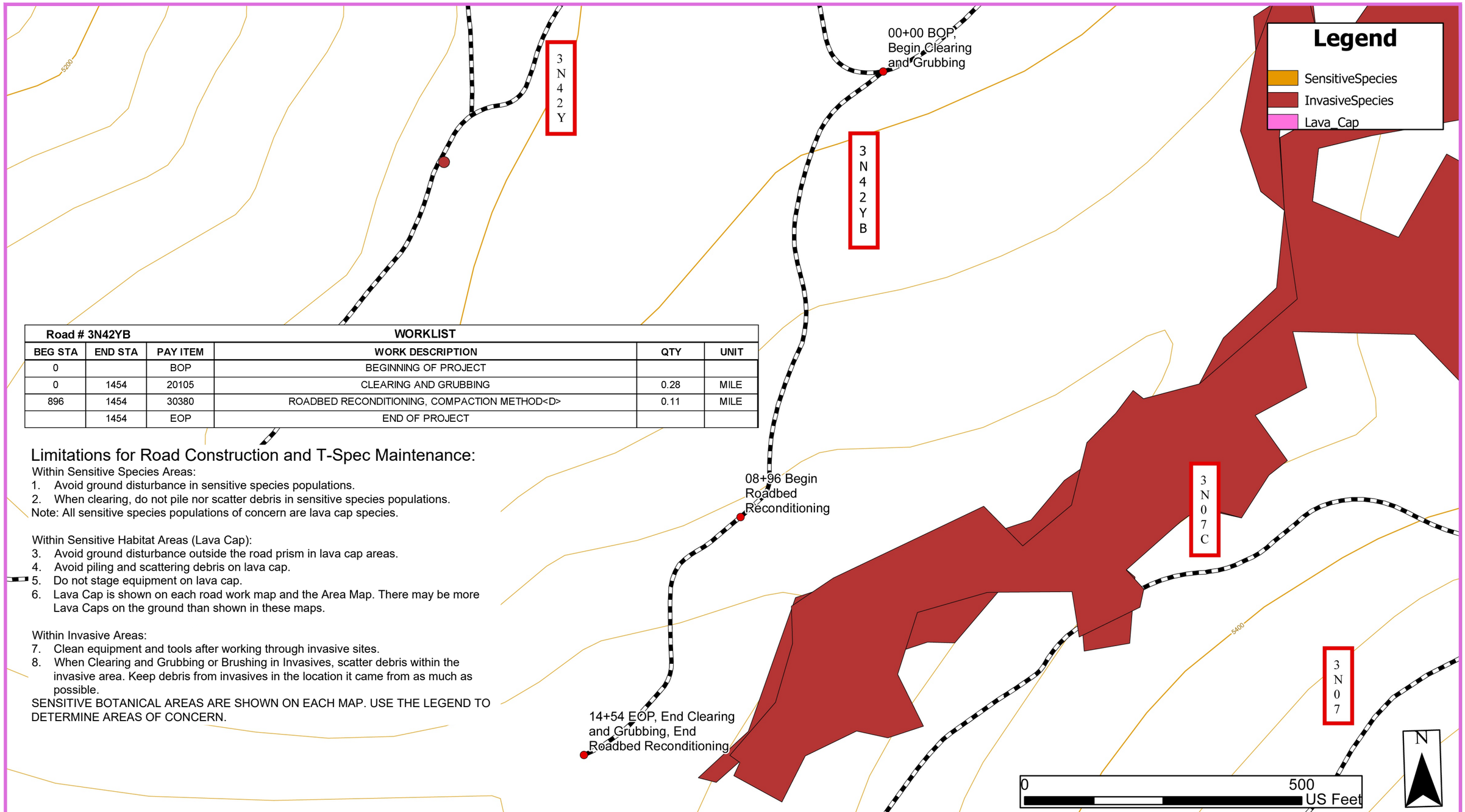
SHEET 25 OF 29

3/24/26 07:58 STANISLAUS TIMBER 2 C:\USERS\STANISLAUS TIMBER 2\DESKTOP\MARBLE\MARBLE - TS ROAD TEMPLATE R05.DWG;



Road # 3N42YB			WORKLIST		
BEG STA	END STA	PAY ITEM	WORK DESCRIPTION	QTY	UNIT
0		BOP	BEGINNING OF PROJECT		
0	1454	20105	CLEARING AND GRUBBING	0.28	MILE
896	1454	30380	ROADBED RECONDITIONING, COMPACTION METHOD<D>	0.11	MILE
	1454	EOP	END OF PROJECT		

Limitations for Road Construction and T-Spec Maintenance:

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SENSITIVE BOTANICAL AREAS ARE SHOWN ON EACH MAP. USE THE LEGEND TO DETERMINE AREAS OF CONCERN.

3/24/26 07:58 STANISLAUS TIMBER 2 C:\USERS\STANISLAUS TIMBER 2\DESKTOP\MARBLE\MARBLE - TS ROAD TEMPLATE R05.DWG;

United States Department of Agriculture
Forest Service

(R5)
PACIFIC SOUTHWEST REGION

MARBLE IRSC
STANISLAUS NATIONAL FOREST
SUGAR PINE RANGER DISTRICT

DRAWING TITLE
3N42YB
MAP & WORK LIST

DATE	DESIGNER	CHECKED
03/12/2026	K. DELISSER	K.B.

NO.	REVISION DESCRIPTION	BY	DATE
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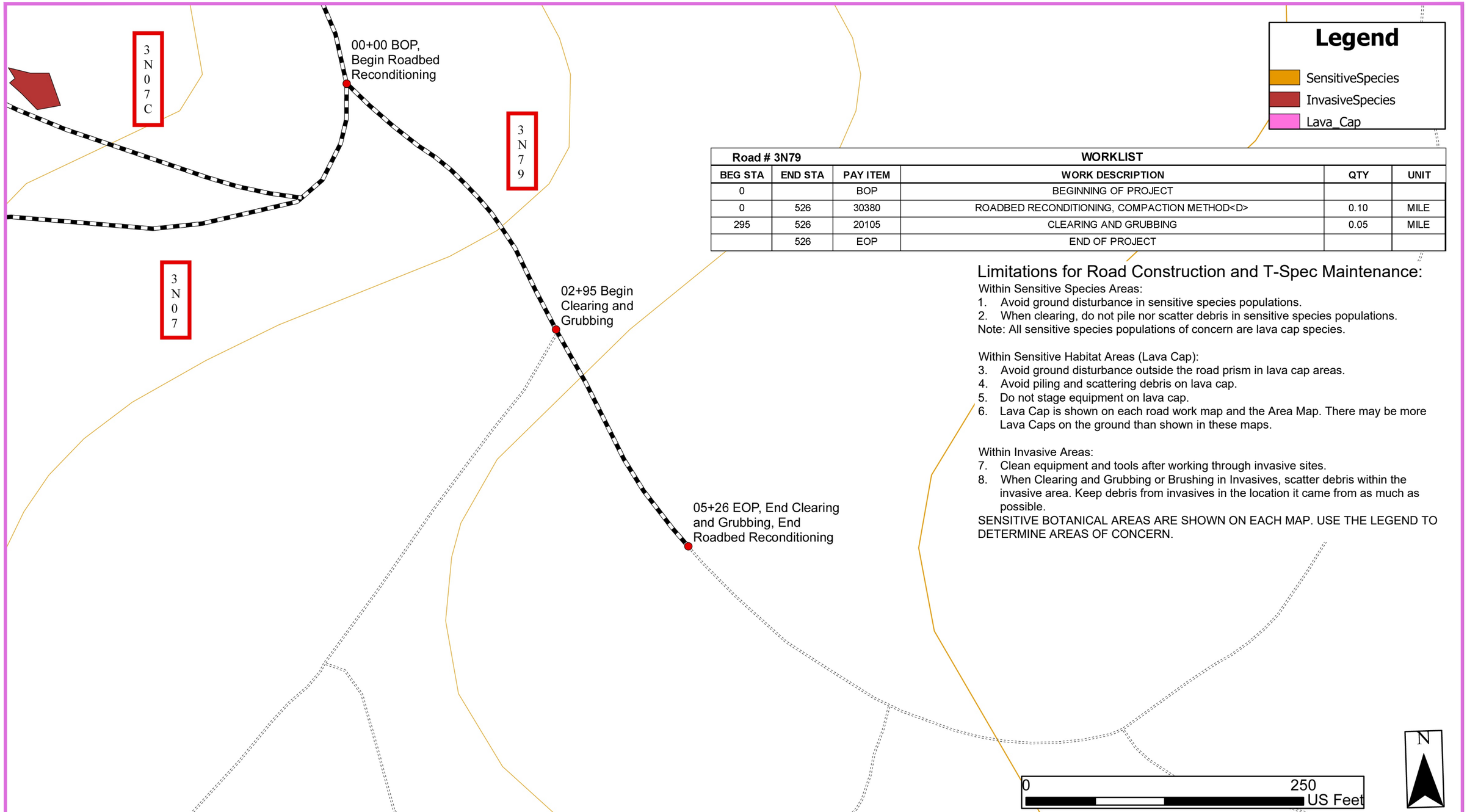
DWG SHEET NO.
C-22

SHEET 26 OF 29



Road # 3N79			WORKLIST		
BEG STA	END STA	PAY ITEM	WORK DESCRIPTION	QTY	UNIT
0		BOP	BEGINNING OF PROJECT		
0	526	30380	ROADBED RECONDITIONING, COMPACTION METHOD<D>	0.10	MILE
295	526	20105	CLEARING AND GRUBBING	0.05	MILE
	526	EOP	END OF PROJECT		

Limitations for Road Construction and T-Spec Maintenance:

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United States Department of Agriculture
Forest Service

(R5)
PACIFIC SOUTHWEST REGION

MARBLE IRSC
STANISLAUS NATIONAL FOREST
SUGAR PINE RANGER DISTRICT

DRAWING TITLE
3N79
MAP & WORK LIST

DATE	DESIGNER	CHECKED
03/12/2026	K. DELISSER	K.B.

NO.	REVISION DESCRIPTION	BY	DATE
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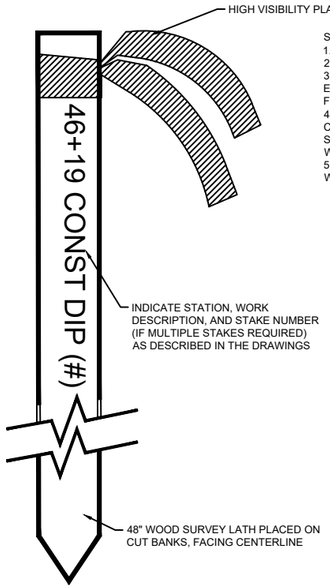
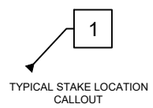
DWG SHEET NO.
C-23

SHEET 27 OF 29

3/24/26 07:58 STANISLAUS TIMBER 2 C:\USERS\STANISLAUS TIMBER 2\DESKTOP\MARBLE\MARBLE - TS ROAD TEMPLATE R05.DWG;

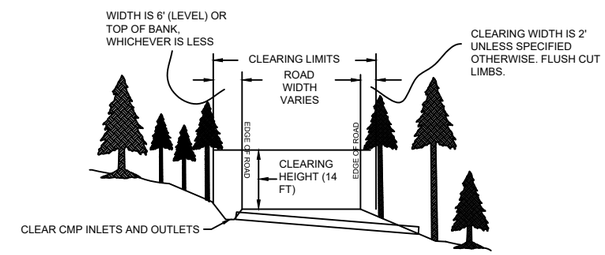




STAKING NOTES:
1. STAKING OF ROADS SHALL BE PERFORMED USING A GPS DEVICE CAPABLE OF USING GEOREFERENCED PDFS.
2. PAINTING OF ROCKS, TREES, OR OTHER NATURAL LANDMARKS IS STRICTLY PROHIBITED
3. STAKE APPROVAL AND MAINTENANCE: DO NOT BEGIN CONSTRUCTION WORK WITHIN A ROADWAY SEGMENT UNTIL THE STAKES, MARKS, AND CONTROLS ESTABLISHED HAVE BEEN APPROVED IN WRITING BY THE CO OR DESIGNATED REPRESENTATIVE. THE MINIMUM SEGMENT FOR APPROVAL SHALL BE 10,000 FEET OR THE LENGTH OF THE PROJECT, WHICHEVER IS LESS
4. APPROVAL OF CONSTRUCTION STAKING SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR MAINTAINING THE STAKING WORK UNTIL CONSTRUCTION HAS BEEN COMPLETED, AND FOR CORRECTING ERRORS, WHETHER THE ERRORS ARE DISCOVERED DURING THE PERFORMANCE OF SURVEY OR IN SUBSEQUENT PHASES OF THE PROJECT. STAKES SHALL BE MAINTAINED DURING CONSTRUCTION AND SHALL BE REMOVED AFTER ROAD WORK HAS BEEN COMPLETED.
5. WORK ITEMS SHALL BE STAKED AS SHOWN IN THE TABLE BELOW. STAKE LOCATIONS ARE INDICATED BY NUMBER ON WORK ITEM DETAIL DRAWINGS. WORK ITEMS NOT INCLUDED IN THE TABLE SHALL REQUIRE A SINGLE STAKE AT THE MARKED LOCATION.

WORK ITEM	STAKE LOCATIONS
CLEARING AND GRUBBING	BEGINNING, END, LOWER LIMIT, UPPER LIMIT
EXCAVATION/EMBANKMENT	AS SHOWN ON PLANS
ARMORED LOW WATER CROSSING	AS SHOWN ON PLANS
ROLLING DIP, WATER BAR	BEGINNING, TROUGH, CREST, END
PIPE CULVERT	BEGINNING AND END OF PIPE CENTERLINE
SWALE	BEGINNING, TROUGH, END
AGGREGATE PLACEMENT	BEGINNING, END
RECONDITIONING	BEGINNING, END
FULL DEPTH RECLAMATION	BEGINNING, END
ASPHALT CONCRETE	BEGINNING, END
GEOTEXTILE	BEGINNING, END

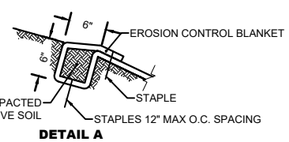
1 STAKING
NOT TO SCALE



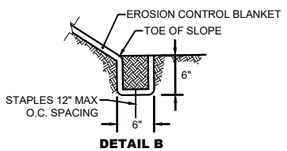
CLEARING NOTES:
1. SCATTER DEBRIS FROM CLEARING AND GRUBBING, UNLESS NOTED OTHERWISE.
2. MASTICATION MAY BE SUBSTITUTED FOR CHIPPING OF ROADSIDE SLASH. WHEN MASTICATION IS USED, SCATTER MASTICATED MATERIAL UNLESS OTHERWISE NOTED IN THE PLANS. REMOVE MASTICATED MATERIAL FROM ALL DRAINAGES, INLETS, AND DITCHES AND CLEAN TRAVELWAY OF MASTICATED MATERIAL. MASTICATED MATERIAL SHALL BE NO LONGER THAN 36" LENGTH. FLUSH CUT STOBS GREATER THAN 2".
3. WHEN CLEARING IN INVASIVE PLANT INFESTED AREAS, SCATTER ROADSIDE SLASH AS CLOSE TO THE ORIGIN OF THE PLANT AS POSSIBLE. KEEP INFECTED SLASH CONTAINED TO ALREADY INFECTED AREAS.
4. CLEARING LIMITS SHALL BE MINIMUM 22' TOTAL WIDTH ON ALL ROADS.
5. ROADSIDE VEGETATION REMOVAL INCLUDES REMOVAL OF ALL BRUSH AND TREES LESS THAN 10" DBH WITHIN CLEARING LIMITS.

RECONDITIONING NOTES:
DITCH RECONDITIONING:
1. PERFORM DITCH RECONDITIONING IN ACCORDANCE WITH FP-24 SUBSECTION 303.04.
2. INCORPORATE SUITABLE MATERIAL FROM DITCH AND CULVERT SHAPING INTO ROADWAY. DISPOSE OF UNSUITABLE MATERIAL AND WASTE AT DESIGNATED SITES OR ACCORDING TO FP-24 SUBSECTION 204.14.
ROADBED RECONDITIONING:
1. PERFORM ROADBED RECONDITIONING IN ACCORDANCE WITH FP-24 SUBSECTION 303.06.
2. OUTSLOPE ROADBED 3% WHEREVER POSSIBLE UNLESS SPECIFIED OTHERWISE IN DRAWINGS. REMOVE ALL OUTSIDE BERMS. WHEN THIS IS IMPRACTICAL DUE TO TREES GREATER THAN 10" DBH OR BERMS GREATER THAN 4' WIDE AND 18" HIGH, RELIEVE BERM EVERY 50 LINEAR FEET.
3. CLEAN AND RESHAPE DRAINAGE FEATURES TO PROVIDE ADEQUATE DRAINAGE.
4. DRAIN ALL LOW POINTS, PONDS, AND SWALES.
5. MAINTAIN ALL ROADS TO A MINIMUM WIDTH OF 14' UNLESS OTHERWISE SPECIFIED.
AGGREGATE SURFACE RECONDTIONING:
1. PERFORM AGGREGATE SURFACE RECONDITIONING IN ACCORDANCE WITH FP-24 SUBSECTION 303.07.
2. WHERE ADDITIONAL SURFACE COURSE AGGREGATE IS SPECIFIED, WORK NEW AGGREGATE INTO RECONDITIONING PROCESS CONSISTENTLY TO PROVIDE A UNIFORM ROAD SURFACE.
ROADWAY RECONDITIONING:
1. PERFORM ROADWAY RECONDITIONING IN ACCORDANCE WITH FP-24 SUBSECTION 303.08, INCLUDING DITCH, SHOULDER, ROADBED, AND AGGREGATE SURFACE RECONDITIONING AS APPLICABLE.
2. CLEAN INLETS AND OUTLETS OF ALL EXISTING METAL CULVERT PIPES.

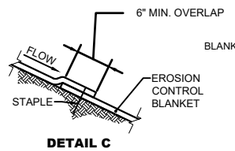
2 CLEARING AND RECONDITIONING
NOT TO SCALE



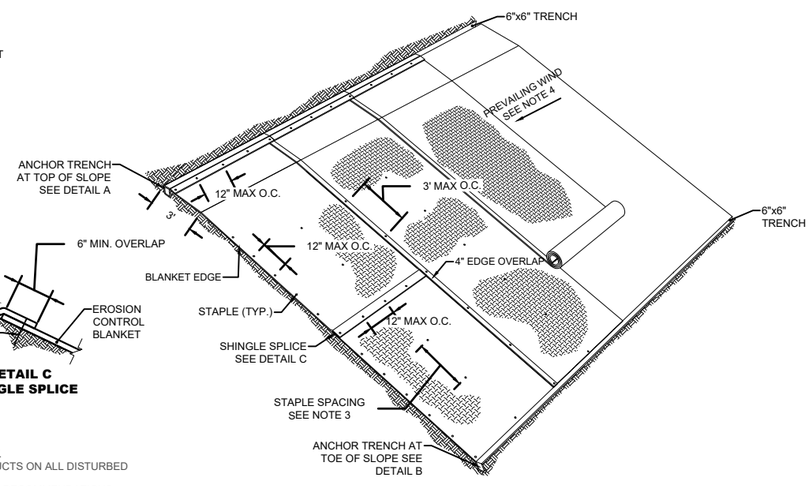
DETAIL A
ANCHOR TRENCH AT TOP OF SLOPE



DETAIL B
ANCHOR TRENCH AT TOE OF SLOPE

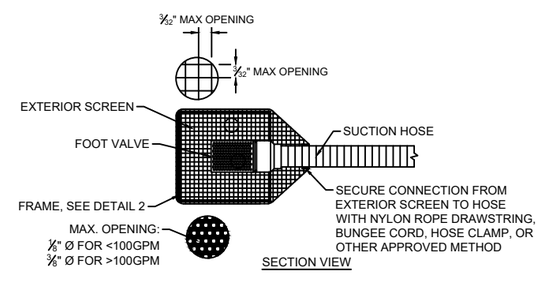


DETAIL C
SHINGLE SPLICE



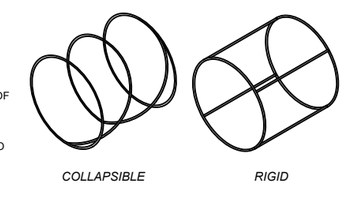
NOTES:
1. EROSION CONTROL MAT MUST BE CERTIFIED WEED FREE.
2. INSTALL TEMPORARY ROLLED EROSION CONTROL PRODUCTS ON ALL DISTURBED SURFACES AFTER COMPLETION OF FILL SLOPE REPAIRS.
3. INSTALL STAPLES ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
4. OVERLAP IN THE DIRECTION OF THE PREVAILING WIND.

3 ROLLED EROSION CONTROL BLANKET
NOT TO SCALE

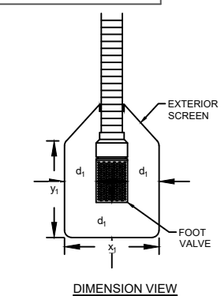


REQUIRED MINIMUM DIMENSIONS		
	DRAFTING CONDITION	
DIMENSION	*FISH BEARING STREAM*	*NON-FISH BEARING STREAM AND DRAFTING CAN NOT EXCEED 100GPM*
x_1	15"	9"
y_1	19"	9"
d_1	5"	3"

DRAFTING NOTES:
1. WATER DRAFTING DEVICES SHALL MEET SPECIFICATIONS ON THIS SHEET UNLESS OTHERWISE APPROVED BY THE CO. ALTERNATE DESIGNS THAT MEET THE INTENT OF THE DRAFTING DEVICE TO REDUCE INTAKE VELOCITY MAY BE SUBMITTED TO THE CO FOR REVIEW AND APPROVAL.
2. DETERMINATION OF STREAM FLOW RATE AND FISH-BEARING STATUS FOR A WATER SOURCE WILL BE MADE BY THE FOREST SERVICE.
3. FOR WATER DRAFTING ON FISH-BEARING STREAMS: DO NOT EXCEED 350 GALLONS PER MINUTE FOR STREAMFLOW GREATER THAN OR EQUAL TO 4.0 CUBIC FEET PER SECOND (CFS); DO NOT EXCEED 20% OF THE SURFACE FLOWS BELOW 4.0 CFS; CEASE DRAFTING WHEN BYPASS SURFACE FLOW DROPS BELOW 1.5 CFS.
4. THE FRAME MAY BE COLLAPSIBLE OR RIGID. POSSIBLE MATERIALS ARE STEEL, HDPE, OR OTHER DURABLE MATERIALS THAT CAN MAINTAIN RIGIDITY. THE FRAME MUST BE POSITIONED AND SECURED TO MAINTAIN THE REQUIRED SPACING (d1) BETWEEN THE FOOT VALVE AND THE EXTERIOR SCREEN AT ALL TIMES.
5. THE EXTERIOR SCREEN MESH MAY BE EITHER RIGID OR FLEXIBLE AND MADE FROM DURABLE MATERIAL.
6. STOP USE OF THE SCREEN IF ANY HOLES LARGER THAN 1/4" DIAMETER DEVELOP IN THE EXTERIOR SCREEN. USE CAN BE RESUMED AFTER REPAIR.



FRAME DETAIL



DIMENSION VIEW

4 DRAFTING
NOT TO SCALE

United States Department of Agriculture
Forest Service

(R5)
PACIFIC SOUTHWEST REGION

MARBLE IRSC
STANISLAUS NATIONAL FOREST
SUGAR PINE RANGER DISTRICT

DRAWING TITLE
CONSTRUCTION DETAILS

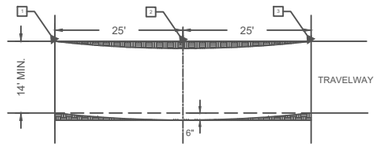
DATE	DESIGNER	CHECKED
03/12/2026	K. DELISSER	K.B.

NO.	REVISION DESCRIPTION	BY	DATE
△			
△			
△			

DWG SHEET NO.
D-01

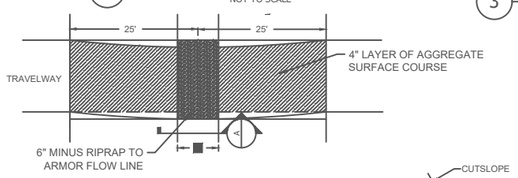
SHEET 28 OF 29

3/24/26 07:58 STANISLAUS TIMBER 2 C:\USERS\STANISLAUS TIMBER 2\DESKTOP\MARBLE\MARBLE - TS ROAD TEMPLATE R05.DWG;

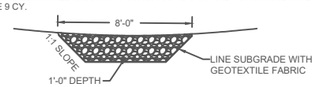


NOTE:
1. ENTIRE LENGTH OF SWALE SHALL BE OUTSLOPED 3%
2. SWALES SHALL HAVE FREE FLOWING OUTLETS. CONSTRUCTION OF LEAD OFF DITCHES ARE INCIDENTAL TO SWALE CONSTRUCTION

1 SWALE
NOT TO SCALE

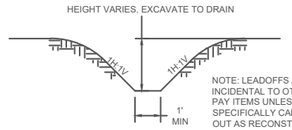


NOTE:
1. THE COST OF GEOTEXTILE, RIPRAP, AND AGGREGATE BASE IS INCIDENTAL TO ROCK SWALE PAY ITEM. THE ESTIMATED QUANTITY FOR RIPRAP IS 6 CY AND FOR AGGREGATE SURFACE COURSE 9 CY.



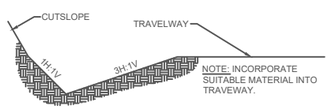
SECTION A
FLOW LINE

2 ARMORED SWALE
NOT TO SCALE



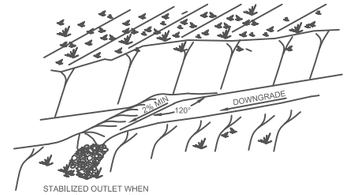
NOTE: LEADOFFS ARE INCIDENTAL TO OTHER PAY ITEMS UNLESS SPECIFICALLY CALLED OUT AS RECONSTRUCT OR CONSTRUCT LOD.

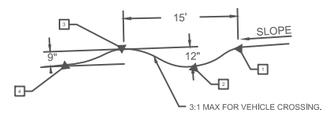
3 LEAD OFF DITCH
NOT TO SCALE



NOTE: INCORPORATE SUITABLE MATERIAL INTO TRAVEWAY.

4 ROADSIDE DITCH
NOT TO SCALE





WATERBAR NOTES:
1. ALL WATER BARS SHALL BEGIN AT THE INTERSECTION OF THE ROADBED WITH THE BACKSLOPE AND RUN ACROSS THE FULL WIDTH OF THE ROADBED.
2. ALL WATERBARS SHALL HAVE FREE FLOWING OUTLETS. CONSTRUCTION OF LEADOFF DITCHES AS NECESSARY IS INCIDENTAL TO WATERBAR CONSTRUCTION.
3. NON-DRIVABLE WATERBARS ARE DESIGNATED ON ALL CLOSED AND DECOMMISSIONED ROADS UNLESS OTHERWISE NOTED.

5 WATERBAR
NOT TO SCALE

Coupling Bands for Metal Pipe Culvert [1]					
Corrugation Size [2] (Inches)	Round Pipe Diameter (Inches)	Pipe Arch Span x Rise (Inches)	Minimum Band Width (Inches)		
			Annular Corrugated Bands [3]	Helically Corrugated Bands [4]	Semi-Corrugated Bands [5]
1/4 x 1/4	underdrain [6]	-	10.5	7	10.5
2 2/3 x 1/2	12 to 36	17 x 13 to 42 x 29	7	12	
	42 to 72	49 x 33 to 83 x 57	10.5	12	
	78 to 84	-	10.5	12	10.5
3 x 1	36 to 72	60 x 46 to 81 x 59	12	14	10.5
	78 to 144	87 x 64 to 142 x 91	12	14	10.5
5 x 1	36 to 72	60 x 46 to 81 x 59	20	22	
	78 to 144	87 x 64 to 142 x 91	20	22	

[1] Fabricate annular, helical and semi-corrugated type coupling bands from the same metal as the connecting pipe. Provide coupling bands not more than 3 nominal sheet thicknesses thinner than the thickness of the pipe to be connected, and no thinner than 0.052 inch for steel or 0.048 inch for aluminum. Fasten coupling bands with the following diameter of bolt:
3/8" for 18" round culvert (21" × 15" pipe arch) or less
1/2" for 21" round culvert (24" × 18" pipe arch) or more

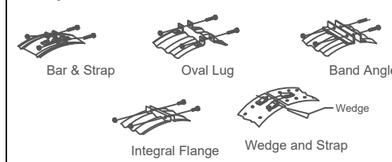
[2] For helically corrugated pipe with rerolled ends, the nominal corrugations size refers to the dimension of the end corrugation in the pipe.

[3] Use annular corrugated bands with pipes having annular corrugations or with helical pipe having rerolled end to form annular corrugations. A 10.5 inch band is acceptable on 2 2/3" x 1/2" corrugations. A 12 inch band is acceptable on pipe ends rerolled with 3" × 1" pipe corrugations.

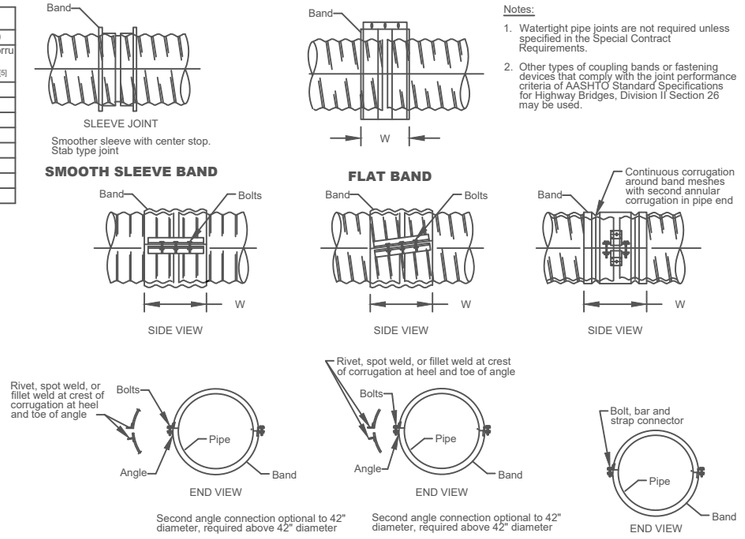
[4] Use helical corrugated bands with pipes having helically corrugated ends.

[5] The minimum band widths shown for 3" × 1" and 5" × 1" corrugated sizes apply to 2 2/3" x 1/2" corrugations on rerolled pipe ends.

[6] Smooth sleeve-type couplers and flat bands may be used for pipe diameters of 12" or less. Use a matching metal having a nominal thickness of not less than 0.040 inch for steel, or 0.036 inch for aluminum, or a plastic with an equivalent strength to metal.

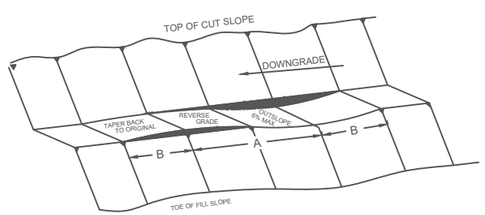


STANDARD BAND CONNECTIONS

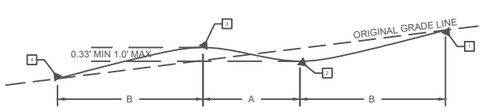


Notes:
1. Watertight pipe joints are not required unless specified in the Special Contract Requirements.
2. Other types of coupling bands or fastening devices that comply with the joint performance criteria of AASHTO Standard Specifications for Highway Bridges, Division II Section 26 may be used.

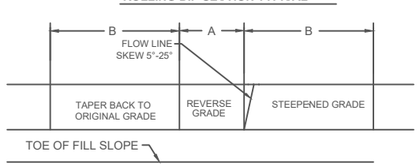
8 CULVERT COUPLING BANDS
NOT TO SCALE



TYPICAL ROLLING DIP



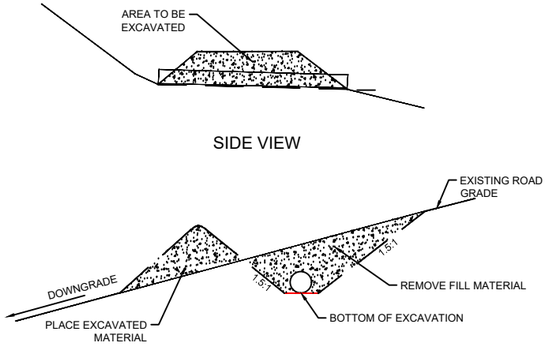
ROLLING DIP SECTION TYPICAL



ROLLING DIP PLAN VIEW

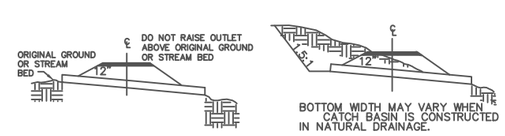
6 ROLLING DIP
NOT TO SCALE

ROLLING DIP LAYOUT (LOG TRUCK)		
ROAD GRADE %	HORIZONTAL DISTANCE (FT)	
	A	B
0-5	20	25
6-8	20	40

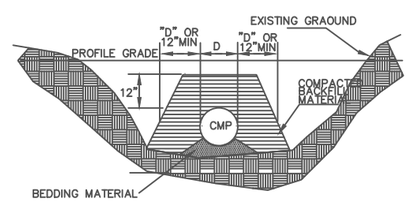


NOTES:
1. BARRIER MOUND SHALL BE LOCATED ON THE DOWNGRADE SIDE OF THE ROADWAY UNLESS OTHERWISE SPECIFIED.
2. BARRIER MOUND SHALL CROSS ENTIRE ROADWAY AND DITCHLINE.
3. IF BARRIER MOUND IS TO FUNCTION AS ROAD CLOSURE BERM, IT SHALL BE LOCATED ON THE SIDE OF EXCAVATION NEARER THE BEGINNING OF THE ROAD.
4. IF MATERIAL EXCAVATED EXCEEDS THAT REQUIRED TO CONTRUCT A BARRIER MOUND OF REASONABLE HEIGHT, EXCESS MATERIAL MAY BE PLACED ADJACENT TO AND ON EITHER SIDE OF THE EXCAVATION OUTSLOPED AT 25% OR 4:1. KEEP UPGRADE DITCHLINE CLEAR OF EXCAVATED MATERIAL.
5. GRADE OF CHANNEL EXCAVATION SHALL BE 10% OR 2% GREATER THAN THE EXISTING ROAD GRADE, WHICHEVER IS GREATER.

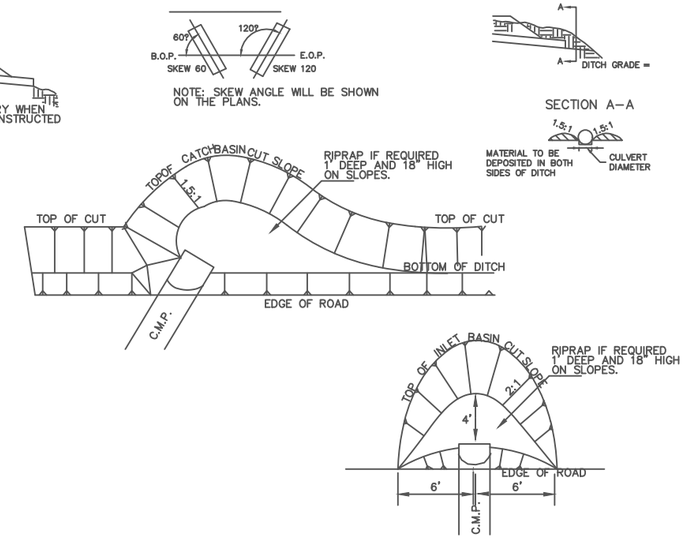
7 CULVERT REMOVAL
NOT TO SCALE



NOTE: MINIMUM COVER OVER CULVERT AT SHOULDER SHALL BE 12 INCHES BELOW SUBGRADE FOR SURFACED AND 18 INCHES BELOW SUBGRADE FOR UNSURFACED.



CULVERT REMOVAL NOTES:
1. REMOVE EMBANKMENT MATERIAL AND USE TO CONSTRUCT AN EARTHEN BARRIER.
2. LAY ALL SLOPES BACK AT 1.5:1.



9 CULVERT INSTALLATION
NOT TO SCALE

3/24/26 07:58 STANISLAUS TIMBER 2 C:\USERS\STANISLAUS TIMBER 2\DESKTOP\MARBLE\MARBLE - TS ROAD TEMPLATE R05.DWG;

United States Department of Agriculture
Forest Service

(R5)
PACIFIC SOUTHWEST REGION

MARBLE IRSC
STANISLAUS NATIONAL FOREST
SUGAR PINE RANGER DISTRICT

DRAWING TITLE
DRAINAGE DETAILS

DATE	DESIGNER	CHECKED	DWG SHEET NO.
03/12/2026	K. DELISSER	K.B.	D-02

NO.	REVISION DESCRIPTION	BY	DATE
△			
△			
△			

SHEET 29 OF 29