

FORESTLAND
MANAGEMENT

January 6, 2021



W. M. BEATY &
ASSOCIATES, INC.

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Jamie Galos
CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE
Northern Region
601 Locust St
Redding CA 96001

Re: Master Streambed Alteration Agreement No. R1-05-0497
Four-Year Status Report

Dear Jamie:

Please find the attached Four-Year Status Report for the above referenced Master Streambed Alteration Agreement for your review.

Sincerely,

W. M. BEATY & ASSOCIATES, INC.

Ross Brazil
Northern District Forester
RPF No. 2890
(530) 339-6764

W. M. Beaty & Associates, Inc.
Master Streambed Alteration Agreement
No. R1-05-0497
Four-Year Status Report
January 6, 2021

The following information is provided in compliance with Section 7.3, Four Year Status Report, of the above reference Agreement:

Copy of the original Agreement

The Agreement was approved on May 15, 2008. Four-year status reports have been submitted on January 15, 2013 and March 29, 2017. On September 7, 2018, the Agreement was amended to include Lassen Forest LLC parcels and W.M. Beaty & Associates parcels. In addition, the Agreement will cover authorized activities on additional future parcels, on ownerships where WBA has permission to conduct operations and parcels were previously reviewed by CDFW for timber harvesting activities. On April 2, 2020 CDFW approve the request to extend the Agreement from the expiration date of May 14, 2020 to May 13, 2025. A copy of the Master Streambed Alteration Agreement is on file with the California Department of Fish and Wildlife (CDFW) and is therefore not included with this report.

Evaluation of the success or failure of the measures in the Agreement

We have continued to develop and refine our GIS based Road System Management Plan (RSMP) which complies with our crossings permitted under the Agreement. During the past four years, a total of 29 timber harvesting plans (THP) or emergency notices with 256 crossings were permitted and worked on under the Agreement.

Crossings that were upgraded included replacement of culverts with larger size, conversion of culverts with fords, rocking existing fords, and improvement, realigned, or enlarged fords (see Table 1).

Based on these results, we believe the work completed under the Agreement has been successful. In addition, no failures that could not be mitigated have occurred. There were isolated instances where follow up corrective work was implemented to mitigate a potential impact.

Discussion of factors that could affect fish and wildlife resources

After careful interpretation and analysis of the 256 crossings permitted under the Agreement (see Table 1), going forward, the focus of THPs will be to continue to properly size, upgrade, and remove culverts and improve ford crossings when feasible, as has been completed in the previous years. Also, additional measures necessary to protect

fish and wildlife resources, may occur after discussion with the CDFW inspectors during activity planning, implementation, and effectiveness monitoring to ensure consistency and overall success of the Agreement.

Description of the resources that may be adversely affected

Resources that may be adversely affected include all beneficial uses, fish and wildlife species, and fish and wildlife habitat associated with any watercourse crossing. No unmitigated adverse effects have occurred to these resources under the Agreement.

General Comments

The Agreement continues to work well, and no issues or problems have arisen that could not be mitigated. The Agreement is anticipated to continue serving the needs of W. M, Beaty & Associates, Inc., the landowners, and CDFW. The Agreement allows for notification of activities during THP review or separately. Agency input is incorporated during THP review and field inspections to ensure consistent application of the Agreement.

Continued refinement of the implementation and increased familiarity with the requirements of Appendix A in the Agreement by new staff are anticipated to continue. Discussion with the CDFW inspectors continues to occur regarding placement of rock in ford crossings to not obstruct the natural grade and elevation of a watercourse crossing, placement of rock armoring to ensure longevity, and the design of grade control structures to minimize channel grade adjustment.

Summary of Activities

A summary of activities that occurred in the last four years of the Agreement is included in Table 1 below. Notifications and 1600 crossing work was identified in THPs that have not been completed and for this reason some of these crossings are excluded from this table.

Table 1: Summary of Crossing Work 2017 - 2020				
Crossing	Type	Class	Year	Activity
2-15-004-SHA, EUDORA				
C162	Ford	III	2017	Crossing was disconnected and rocked
C163	Ford	III	2017	Crossing was disconnected and rocked
C166	Ford	III	2017	Crossing was disconnected and rocked
C181	Ford	II	2017	Abandoned
C1730	Ford	III	2017	Crossing was disconnected and rocked
C5593	Ford	III	2017	Crossing was disconnected and rocked
C5628	Ford	III	2017	New rocked ford construction
C5632	Ford	III	2017	Crossing was disconnected and rocked
S5684	Culvert	III	2017	Culvert removed and converted into a ford
2-15-062-LAS, JUNCTION				
C5724	Culvert	III	2017	Culvert removed and converted into a ford

Table 1: Summary of Crossing Work 2017 - 2020				
Crossing	Type	Class	Year	Activity
2-15-075-SHA, TABLE TOP				
C379	Culvert	III	2017	Culvert removed and converted into a rockered ford
C390	Ford	III	2017	Abandoned
C392	Culvert	III	2017	Culvert removed and converted into a rockered ford
S2351	Ford	III	2017	Temporary Spittler Crossing
S5708	Ford	II	2017	Temporary Spittler Crossing
2-15-076-SHA, MEADOW LANDS				
C1563	Humboldt	III	2017	Installed 30" culvert and armored
C1569	Culvert	I	2017	Installed two 36" squash culverts.
C1570	Ford	II	2017	Crossing was disconnected and rockered
2-15NTMP-001-SHA, WMBA NTMP (Nanny Creek Parcel)				
S5561	Ford	III	2019	Dipped out and disconnected
S5565	Ford	III	2019	Dipped out and disconnected
S5576	Ford	III	2019	Dipped out and disconnected
S5577	Ford	III	2019	Crossing realigned
2-16-023-SHA, POSTMARK				
C19	Culvert	II	2018	Rock armoring
C34	Culvert	II	2018	Installed 12" culvert
C37	Culvert	I	2018	Culvert removed and converted in a ford
C45	Culvert	III	2018	Vegetation removal and rocking
C50	Ford	III	2018	Crossing was disconnected, rockered, & armored
C51	Culvert	III	2018	Vegetation removal
C52	Ford	III	2018	Dipped out and disconnected
C55	Culvert	II	2018	Vegetation removal, installed 24" squash culvert
C57	Ford	III	2018	Crossing was disconnected and rockered
C83	Ford	III	2018	Crossing was disconnected and rockered
C87	Culvert	II	2018	Vegetation removal
C1817	Ford	III	2018	Crossing was disconnected and rockered
C4002	Ford	III	2018	Crossing was disconnected and rockered
C5817	Ford	II	2018	Crossing was disconnected and rockered
C5818	Ford	III	2018	Crossing was disconnected and armored
C5819	Ford	III	2018	French Drain installed
C5820	Ford	III	2018	Crossing was disconnected and rockered
S5834	Ford	III	2018	New skid trial crossing construction
2-16-025-PLU, CAIRN				
C1884	Culvert	II	2017	Culvert was removed, converted to a rockered ford
C1885	Culvert	II	2017	Culvert removed crossing abandoned
C1889	Ford	II	2017	Temporary pipe and rock
C2193	Ford	II	2017	Temporary Pipe and rock
S5621	Ford	II	2017	Temporary corduroy skid crossing
2-16-046-PLU, EVANS PEAK				
C763	Log	III	2017	Temporary log crossing
C777	Culvert	II	2017	Culvert was removed, converted to a rockered ford
C781	Culvert	II	2018	Culvert removed, converted to a rockered ford
C784	Culvert	I	2018	Temporary culvert capped with rock
C789	Log	III	2017	Temporary log crossing
C790	Log	III	2017	Temporary log crossing

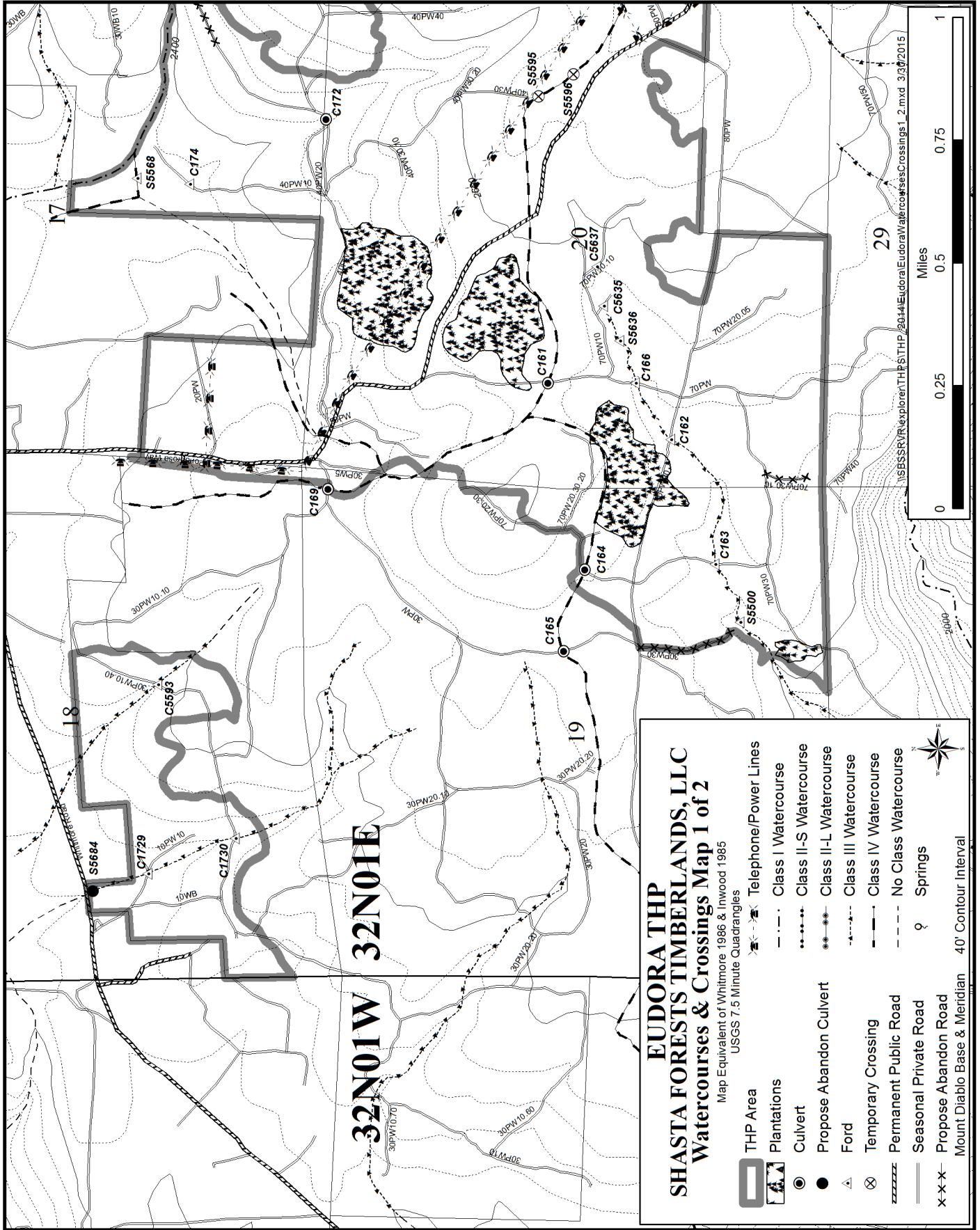
Table 1: Summary of Crossing Work 2017 - 2020				
Crossing	Type	Class	Year	Activity
C800	Ford	II	2018	Dry ford of a Class II
C828	Culvert	III	2018	Unplugged an existing culvert
C2180	Log	III	2017	Temporary log crossing
C2181	Log	II	2018	Temporary log crossing
C2182	Ford	II	2018	Dry ford of a Class II
C2183	Log	III	2017	Temporary log crossing
C2189	Log	III	2018	Temporary log crossing
C2206	Ford	II	2018	Dry ford of a Class II
C5868	Ford	III	2017	New dry ford Class III
C5902	Ford	III	2017	New dry ford Class III
S2210	Culvert	I	2018	Temporary Spittler skid crossing
S2321	Log	II	2018	Temporary log skid crossing
S2329	Ford	II	2018	Dry ford skid crossing Class II
S2340	Log	III	2018	Temporary log crossing
S2342	Log	III	2018	Temporary log crossing
S3116	Culvert	I	2018	Temporary Spittler skid crossing
C827	Culvert	III	2018	Converted culvert to rocked ford
2-16-048-SHA, JELLYSTONE				
C618	Ford	III	2017	Ford crossing used as is
S2356	Ford	III	2017	Ford crossing used as is
2-16-060-LAS, ROXIE				
C5880	Log	III	2018	Temporary log crossing
C5882	Ford	III	2018	Reshape crossing and rock
C5890	Culvert	III	2018	Converted to rocked ford post-harvest
C5893	Culvert	III	2018	Converted to ford post-harvest
S5876	Log	III	2018	Temporary log crossing
S5889	Log	III	2018	Temporary log crossing
2-16EM-040-LAS, WILLARD FIRE				
C1167	Ford	II	2017	Rocked ford/installation of culvert if flows present
C1175	Ford	I	2017	Rocked ford/installation of culvert if flows present
C1189	Ford	I	2017	Rocked ford/installation of culvert if flows present
C1198	Ford	1	2017	Rocked ford/installation of culvert if flows present
S5912	Log	I	2017	Temporary Spittler if flow present
C1247	Ford	III	2017	Repair storm damage rock crossing
C1195	Ford	III	2017	Repair storm damage rock crossing
C1242	Ford	III	2017	Repair storm damage install rolling dip
2-17-034-MOD, CANYON CREEK				
C1410	Culvert	II	2020	Culvert removed and converted into a rock ford
C1411	Ford	II	2019	Ford crossing used as is
C1412	Culvert	II	2020	Critical dip dipped out, rocked, and armored
C1677	Ford	III	2018	Crossing was disconnected and rocked
C1678	Ford	II	2019	Crossing was dipped out
S5951	Ford	III	2019	Ford crossing used as is
2-17-055-SHA, KEMP FLAT				
C596	Culvert	II	2019	Installed 24" culvert
C1515	Culvert	II	2020	Installed 48" squash culvert
C1516	Culvert	II	2019	Installed 18" culvert

Table 1: Summary of Crossing Work 2017 - 2020				
Crossing	Type	Class	Year	Activity
C1541	Culvert	III	2019	Culvert removed and converted into a ford
C1542	Ford	III	2019	Crossing was dipped out
C1544	Ford	III	2019	Crossing was dipped out and armored
C1545	Culvert	III	2019	Critical dip established
C5994	Culvert	II	2019	Installed 18" culvert
C6037	Humboldt	III	2019	Installed 24" culvert
2-17-064-PLU, WOLF				
C731	Culvert	III	2019	Rock armor inlet. Install critical dip
C732	Culvert	III	2019	Added 4-foot extension to culvert.
C6017	Culvert	III	2019	Remove culvert install rolling dip
C6036	Culvert	II	2019	Temporary culvert
2-17-065-LAS, EAST RUN				
C1153	Culvert	II	2019	Remove culvert use as log crossing
C1155	Culvert	III	2019	Install temporary culvert
C1234	Culvert	II	2019	Temporary culvert capped with rock
C1238	Culvert	II	2019	Temporary culvert capped with rock
C1369	Culvert	III	2019	Remove culvert after operations
C1240	Ford	II	2019	Temporary culvert and rock
C1972	Log	III	2019	Temporary log crossing
C1973	Ford	II	2019	Temporary culvert and rock
C19784	Log	II	2019	Temporary log crossing
C1982	Log	III	2019	Temporary log crossing
C5966	Log	II	2019	Temporary log crossing
C6050	Ford	III	2019	Dip crossing after use to prevent diversion
C6058	Culvert	II	2019	Temporary culvert capped with rock
C6060	Log	II	2019	Temporary log crossing
S5662	Log	III	2019	Temporary log skid trail crossing
S5663	Log	III	2019	Temporary log skid trail crossing
S5768	Log	III	2019	Temporary log skid trail crossing
S5769	Log	III	2019	Temporary log skid trail crossing
S5771	Log	III	2019	Temporary log skid trail crossing
S5780	Log	III	2019	Temporary log skid trail crossing
S5790	Log	III	2019	Temporary log skid trail crossing
S5797	Log	III	2019	Temporary log skid trail crossing
S5962	Log	III	2019	Temporary log skid trail crossing
S5964	Log	III	2019	Temporary log skid trail crossing
S5968	Log	III	2019	Temporary log skid trail crossing
S5980	Log	III	2019	Temporary log skid trail crossing
S5988	Log	III	2019	Temporary log skid trail crossing
S6052	Log	III	2019	Temporary log crossing if soil is wet
S6053	Log	II	2019	Temporary log skid trail crossing
2-18-010-SHA, MOSSBACK				
S159	Ford	III	2020	Ford dipped out, disconnected, and slash packed
C175	Ford	III	2020	Crossing was disconnected and rocked
C196	Ford	I	2020	Temporary Spittler Crossing
S6086	Ford	III	2020	Ford crossing used as is
S6090	Ford	III	2020	Ford crossing used as is

Table 1: Summary of Crossing Work 2017 - 2020				
Crossing	Type	Class	Year	Activity
S6091	Ford	III	2020	Ford crossing used as is
S6092	Ford	III	2020	Ford crossing used as is
2-18-037-LAS, CHAPARRAL				
C2746	Ford	II	2018	Add adjacent native rock as fill. Remove
2-18-041-LAS, ROBBERS CREEK				
C6154	Culvert	II	2019	Temporary culvert capped with rock
C6155	Culvert	I	2019	Temporary culvert capped with rock
C6156	Log	I	2019	Temporary spittle crossing
2-18-055-SHA, GRACELAND				
C13	Ford	I	2018	Installed to 30" squash culverts
2-18-056-SHA, OUTPOST				
C441	Ford	III	2019	Buttress rock installed
C482	Ford	III	2019	Temporary Spittler crossing installed
C495	Ford	I	2019	Temporary modified Spittler crossing installed
C1617	Ford	III	2019	Installed to 30" squash culvert
C1619	Ford	III	2019	Inside ditch constructed
S2372	Ford	II	2019	Temporary Spittler crossing installed
C2555	Ford	II	2019	Ford crossing used as is
C5269	Ford	III	2019	Crossing dipped out and slash packed
C5914	Ford	III	2019	Crossing dipped out and disconnected
C5915	Ford	III	2019	New ford was constructed
C6298	Ford	III	2019	Ford was constructed and buttressed
2-18-057-SHA, WEST RUN				
C1107	Log	III	2020	Temporary log crossing
C1119	Log	II	2020	Temporary Spittler crossing
C1126	Log	II	2020	Temporary log crossing
C1127	Log	I	2020	Temporary spittle crossing
C1129	Culvert	III	2020	Remove failed culvert use as log crossing
C1132	Log	II	2020	Temporary spittle crossing
C1136	Log	II	2020	If wet temporary pipe with rock
C1137	Ford	III	2020	Dip crossing when complete
C1138	Log	III	2020	Temporary log crossing
C1141	Log	I	2020	Temporary Spittler capped with rock
C1146	Log	I	2020	Temporary Spittler capped with rock
C1155	Ford	III	2020	Temporary culvert during use
C1175	Culvert	I	2020	Temporary culvert capped with rock
C1182	Log	III	2020	Temporary log crossing
C1198	Culvert	I		Temporary culvert capped with rock
C1234	Ford	II	2020	Rock if wet and disconnect
C1238	Ford	II	2020	Rock if wet and disconnect
C1240	Ford	II	2020	Rock if wet and disconnect
C1972	Log	III	2020	Temporary log crossing
C1973	Ford	III	2020	Rock if wet and disconnect
C1975	Log	III	2020	Temporary log crossing
C1986	Culvert	II	2020	Remove culvert use as dry ford
C5656	Log	III	2020	Temporary log crossing if wet
S5676	Log	III	2020	Temporary log skid crossing

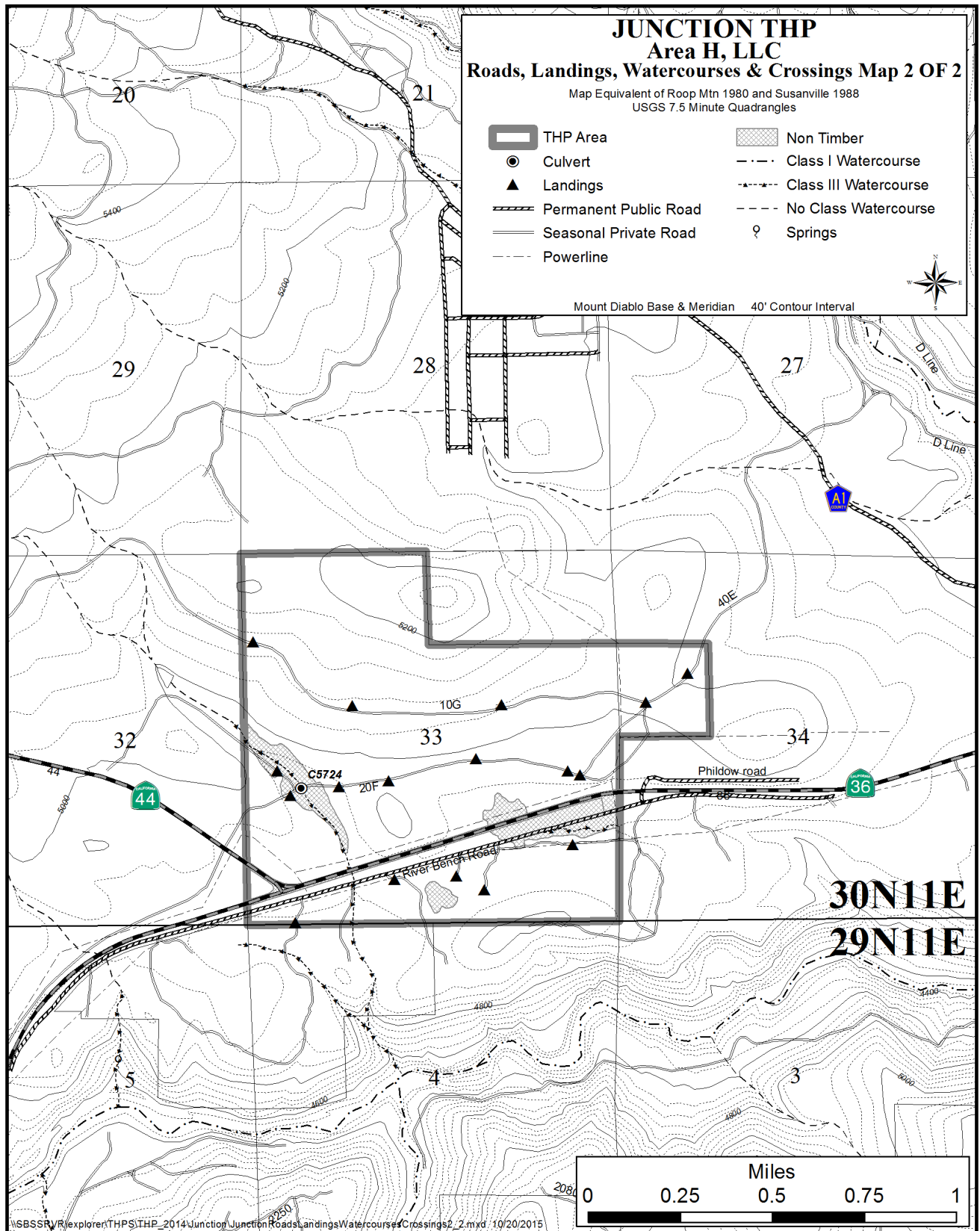
Table 1: Summary of Crossing Work 2017 - 2020				
Crossing	Type	Class	Year	Activity
S6066	Log	II	2020	Temporary log skid crossing
S6125	Log	III	2020	Temporary log skid crossing
S6126	Log	III	2020	Temporary log skid crossing
C6203	Log	I	2020	Temporary Spittler if wet
S6214	Log	II	2020	Temporary log crossing if wet
S6230	Log	III	2020	Temporary log crossing
S6233	Log	II	2020	Temporary log crossing
S6234	Log	II	2020	Temporary log crossing
S6237	Log	II	2020	Temporary Spittler if wet
S6247	Log	I	2020	Temporary Spittler if wet
S6254	Log	II	2020	Temporary Spittler if wet
S6255	Log	I	2020	Temporary Spittler if wet
S6256	Log	I	2020	Temporary Spittler if wet
S6270	Log	III	2020	Temporary log crossing
2-18-059-SIS, ELK HAVEN				
C598	Ford	II	2019	Installed 30" culvert
C1644	Ford	III	2020	Abandoned
C1645	Ford	III	2020	Vegetation removal
C6183	Ford	III	2020	Abandoned
C6184	Ford	III	2020	New ford constructed
2-19-00109-SHA, ROCKY				
C449	Ford	III	2020	Crossing dipped out and disconnected
C460	Ford	II	2020	Ford used as is
C461	Ford	III	2020	Ford used as is
C463	Ford	II	2020	Ford used as is
C464	Ford	II	2020	Ford used as is
C465	Ford	II	2020	Abandoned
C467	Culvert	II	2020	Energy dissipater installed
C468	Ford	III	2020	Crossing rocked and buttress rock installed
C469	Ford	III	2020	Crossing dipped out and disconnected
C470	Ford	III	2020	Crossing dipped out and disconnected
C481	Ford	II	2020	Crossing dipped out and disconnected
C495	Ford	I	2020	Temporary modified Spittler installed
C2162	Ford	II	2020	Ford used as is
C2561	Ford	III	2020	Crossing dipped out and disconnected
C2563	Ford	III	2020	Crossing dipped out and disconnected
C5372	Culvert	II	2020	Energy dissipater installed
C5373	Humboldt	II	2020	Humboldt removed; ford installed
S5395	Ford	II	2020	Ford used as is
S5733	Ford	II	2020	Temporary Spittler crossing installed
C5853	Ford	III	2020	Crossing dipped out and disconnected
C5854	Ford	III	2020	Crossing dipped out and disconnected
S5855	Ford	II	2020	Ford used as is
C6330	Ford	III	2020	Crossing dipped out and disconnected
C6352	Ford	III	2020	Crossing dipped out and disconnected
C6353	Ford	III	2020	Crossing dipped out and disconnected
C6371	Ford	III	2020	Crossing dipped out and disconnected

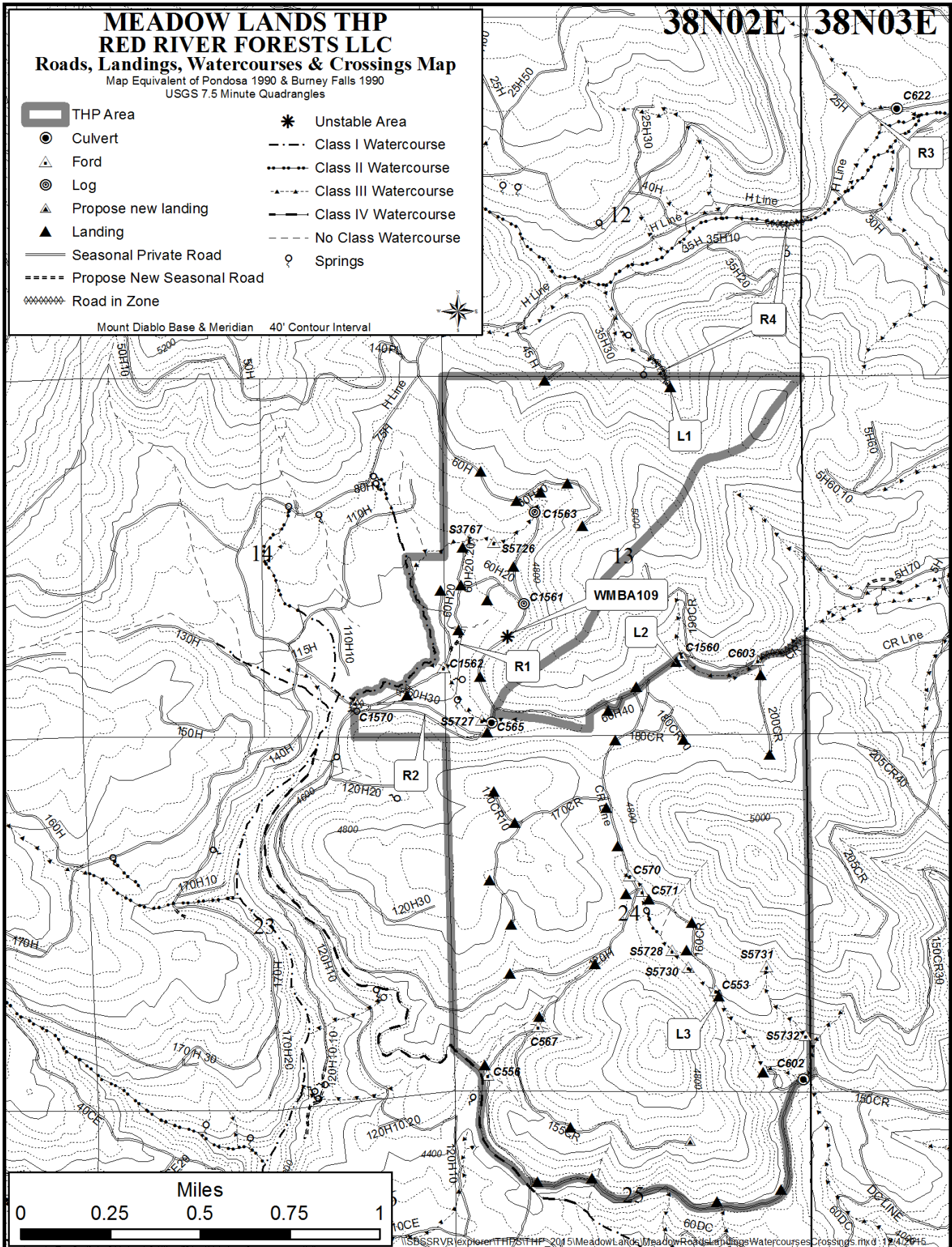
Table 1: Summary of Crossing Work 2017 - 2020				
Crossing	Type	Class	Year	Activity
2-19-00111-SHA, CAYTON RIDGE				
C1602	Culvert	III	2020	Energy dissipater installed
C6360	Ford	II	2020	Installed 24" culvert
2-19-00116-LAS, YARD				
C891	Ford	II	2020	Rocked ford
C896	Ford	II	2020	Temporary culvert capped with rock if wet
S4619	Ford	II	2020	Temporary log crossing if wet
2-19-00128-LAS, WOODWARD				
C948	Ford	II	2020	Reshape crossing add rock
C949	Ford	II	2020	Reshape crossing add rock
C967	Ford	II	2020	Dry ford Class II
C970	Culvert	II	2020	Remove culvert after operations
C3459	Log	II	2020	Temporary log crossing
C6370	Ford	II	2020	Dry ford Class II
S988	Ford	II	2020	Dry ford Class II
S2781	Ford	II	2020	Dry ford Class II
S3420	Ford	II	2020	Dry ford Class II
S3421	Ford	II	2020	Dry ford Class II
S3427	Log	II	2020	Temporary log crossing
S3430	Ford	II	2020	Dry ford Class II
S3431	Log	II	2020	Temporary log crossing
S3432	Ford	II	2020	Dry ford Class II
S3433	Ford	II	2020	Dry ford Class II
S3436	Log	II	2020	Temporary log crossing
S3439	Ford	II	2020	Dry ford Class II
S3441	Log	III	2020	Temporary log crossing
S3444	Log	III	2020	Temporary log crossing
S3445	Log	III	2020	Temporary log crossing
S3457	Log	III	2020	Temporary log crossing
C943	Culvert	I	2020	Replace 2 culverts with 3 squashed culverts
2-19-00133-LAS, PIKES				
C1289	Log	III	2020	Temporary log, Spittler if wet
C6384	Ford	III	2020	Abandon
2-19-00173-LAS, WIND				
C2026	Log	III	2020	Temporary log crossing
2-19-00201-PLU, YELLOW				
C313	Ford	III	2020	Dip and disconnect upon completion
S2808	Log	II	2020	Temporary log crossing

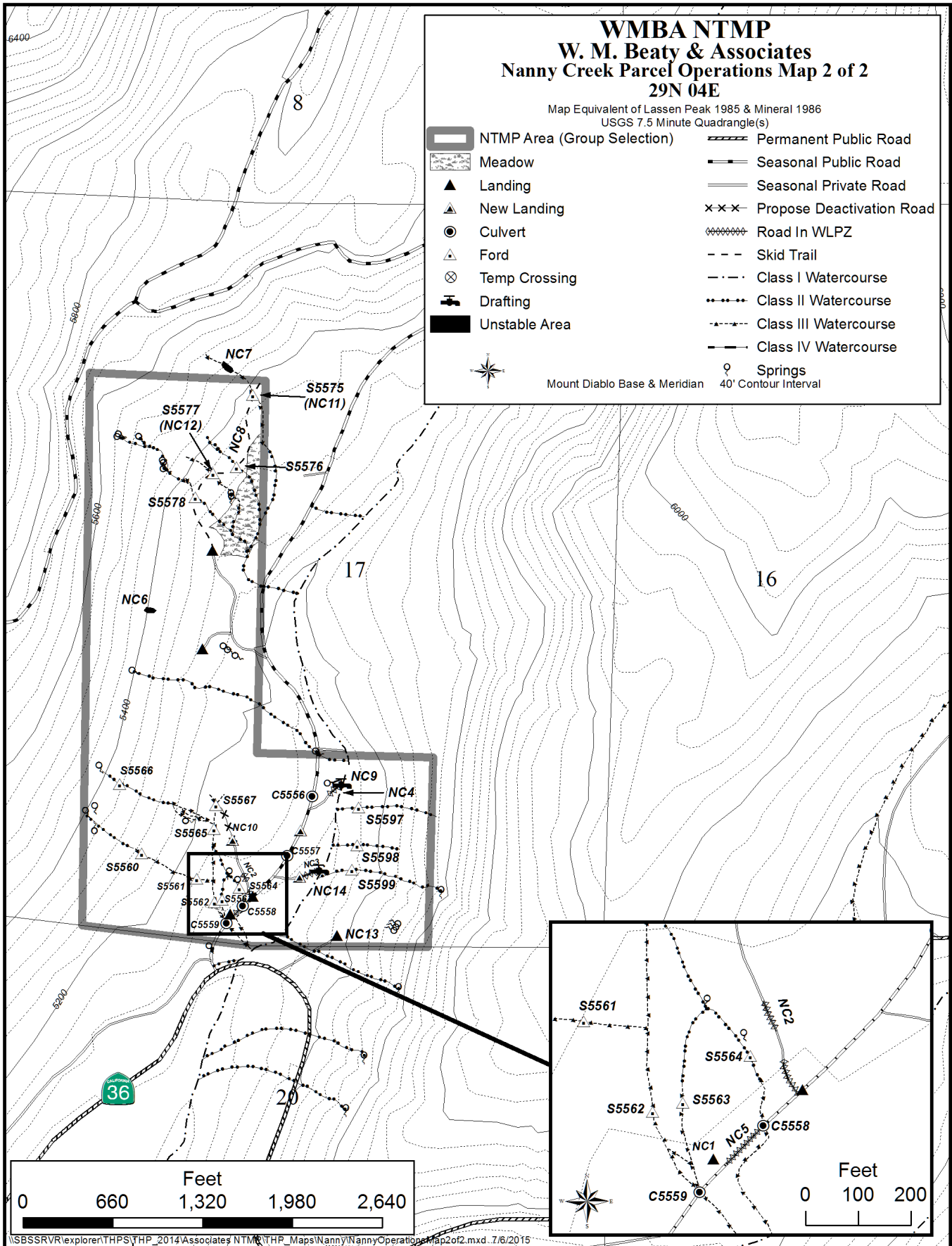


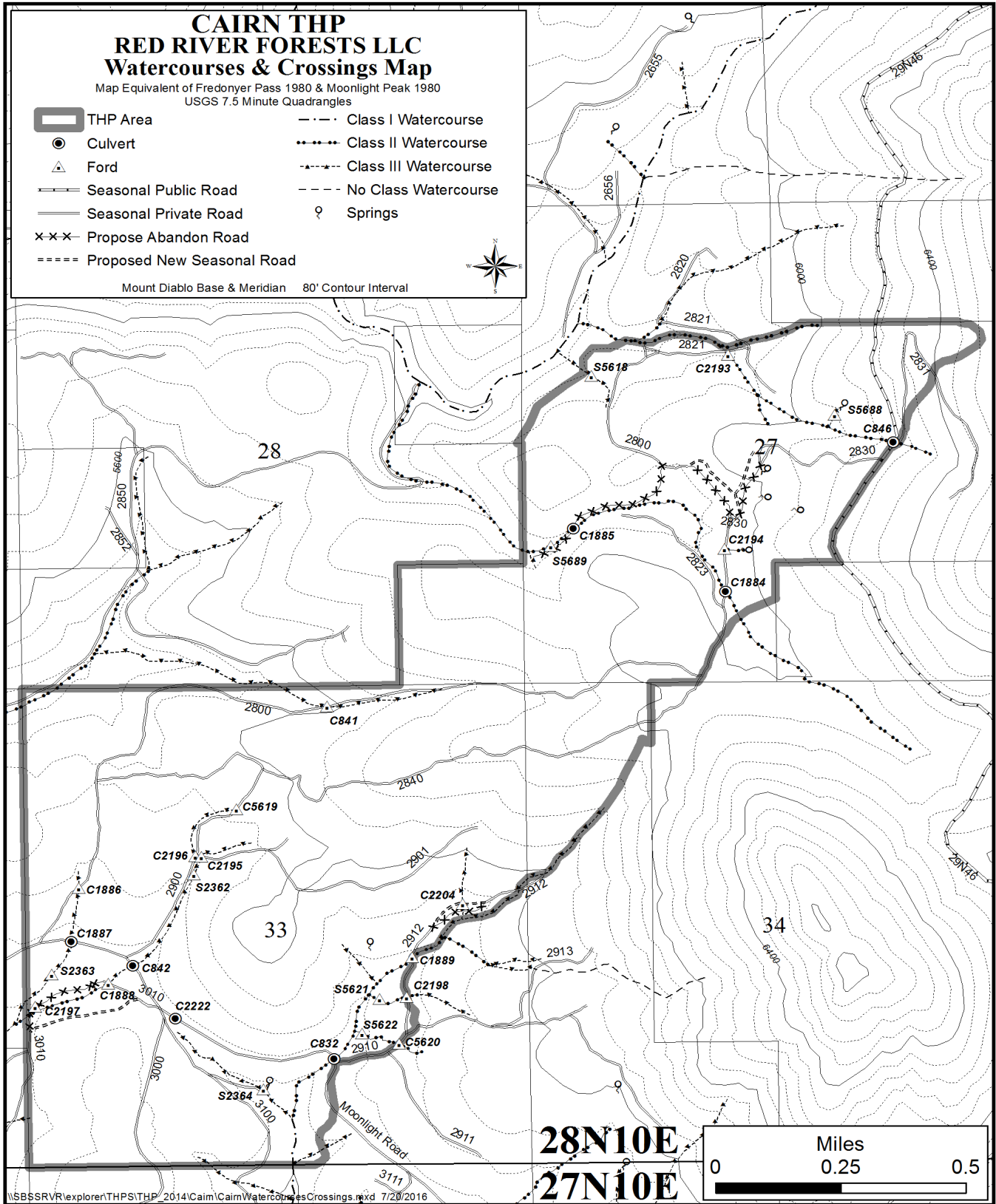
EUDORA THP
SHASTA FORESTS TIMBERLANDS, LLC
Watercourses & Crossings Map 1 of 2
 Map Equivalent of Whitmore 1986 & Inwood 1985
 USGS 7.5 Minute Quadrangles

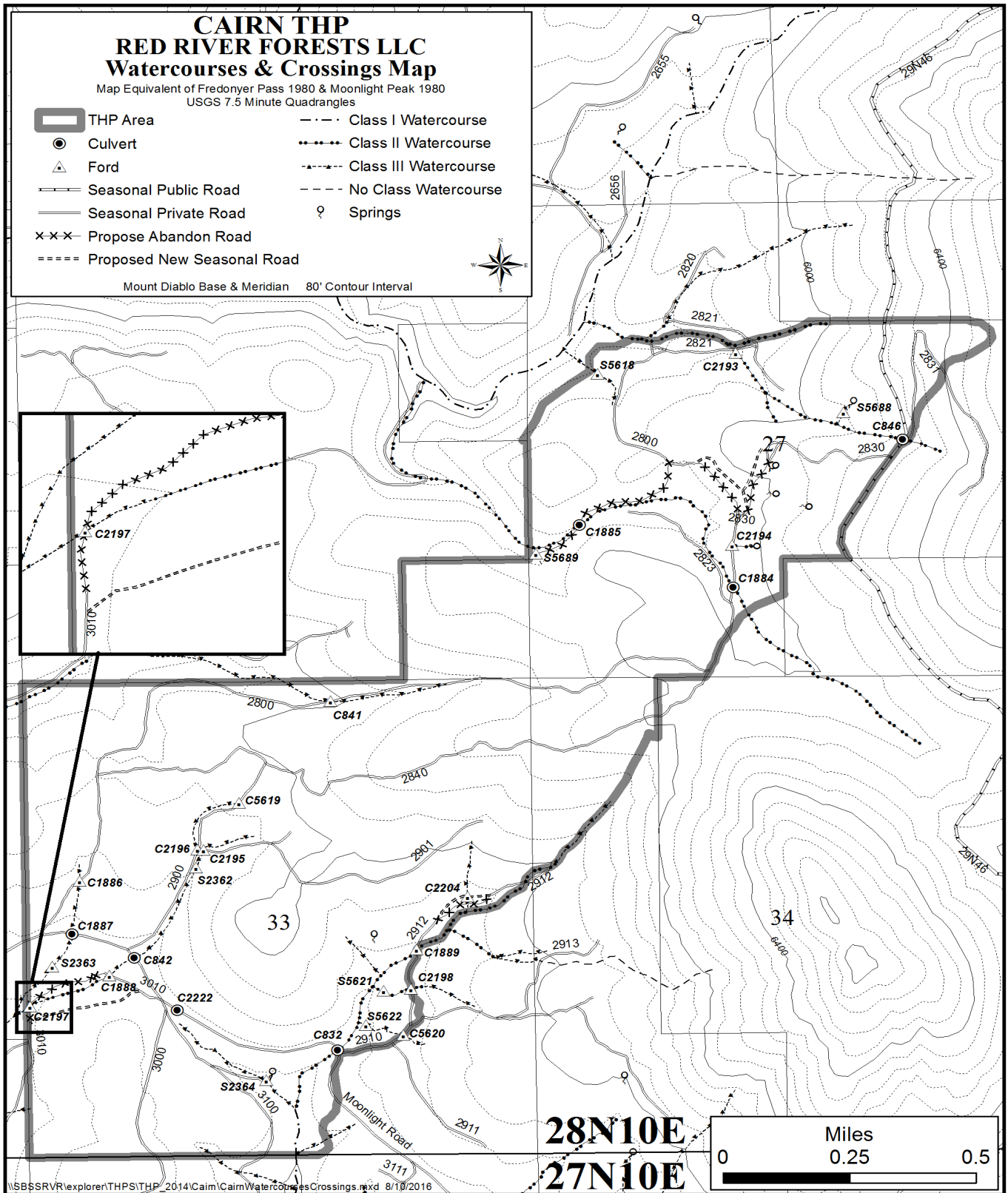
	THP Area		Telephone/Power Lines
	Plantations		Class I Watercourse
	Culvert		Class II-S Watercourse
	Propose Abandon Culvert		Class II-L Watercourse
	Ford		Class III Watercourse
	Temporary Crossing		Class IV Watercourse
	Permanent Public Road		No Class Watercourse
	Seasonal Private Road		Springs
	Propose Abandon Road		40' Contour Interval
	Mount Diablo Base & Meridian		

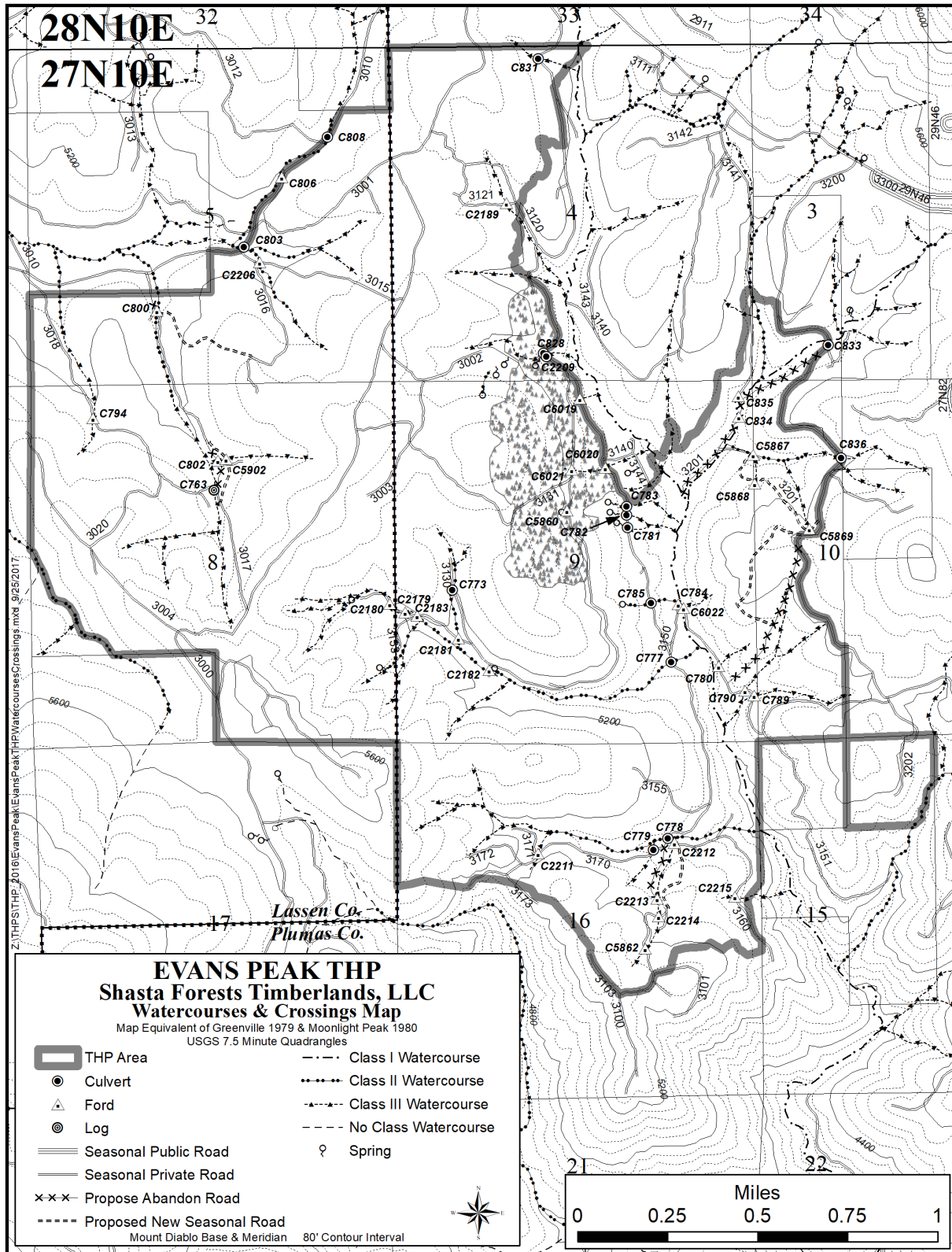


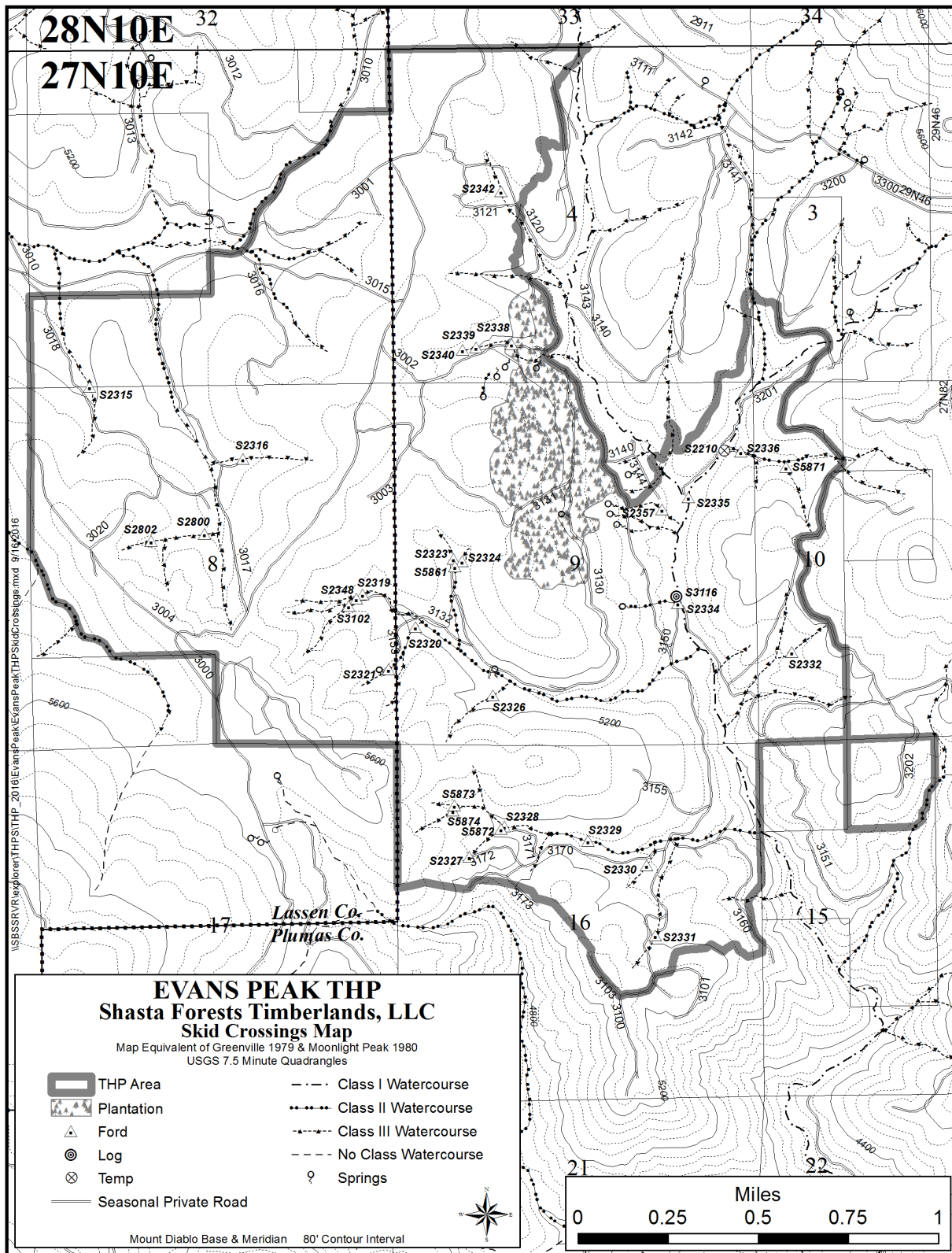


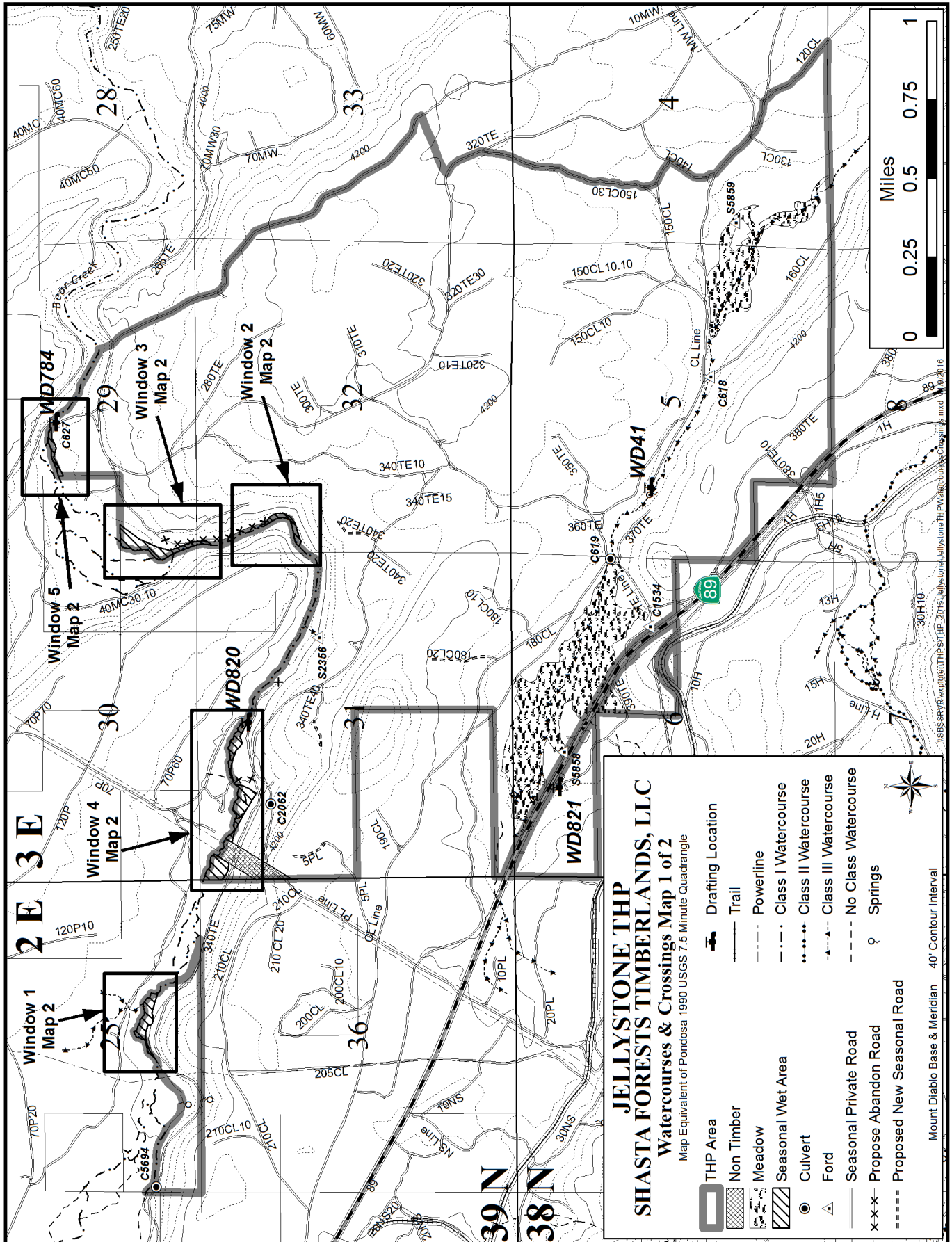


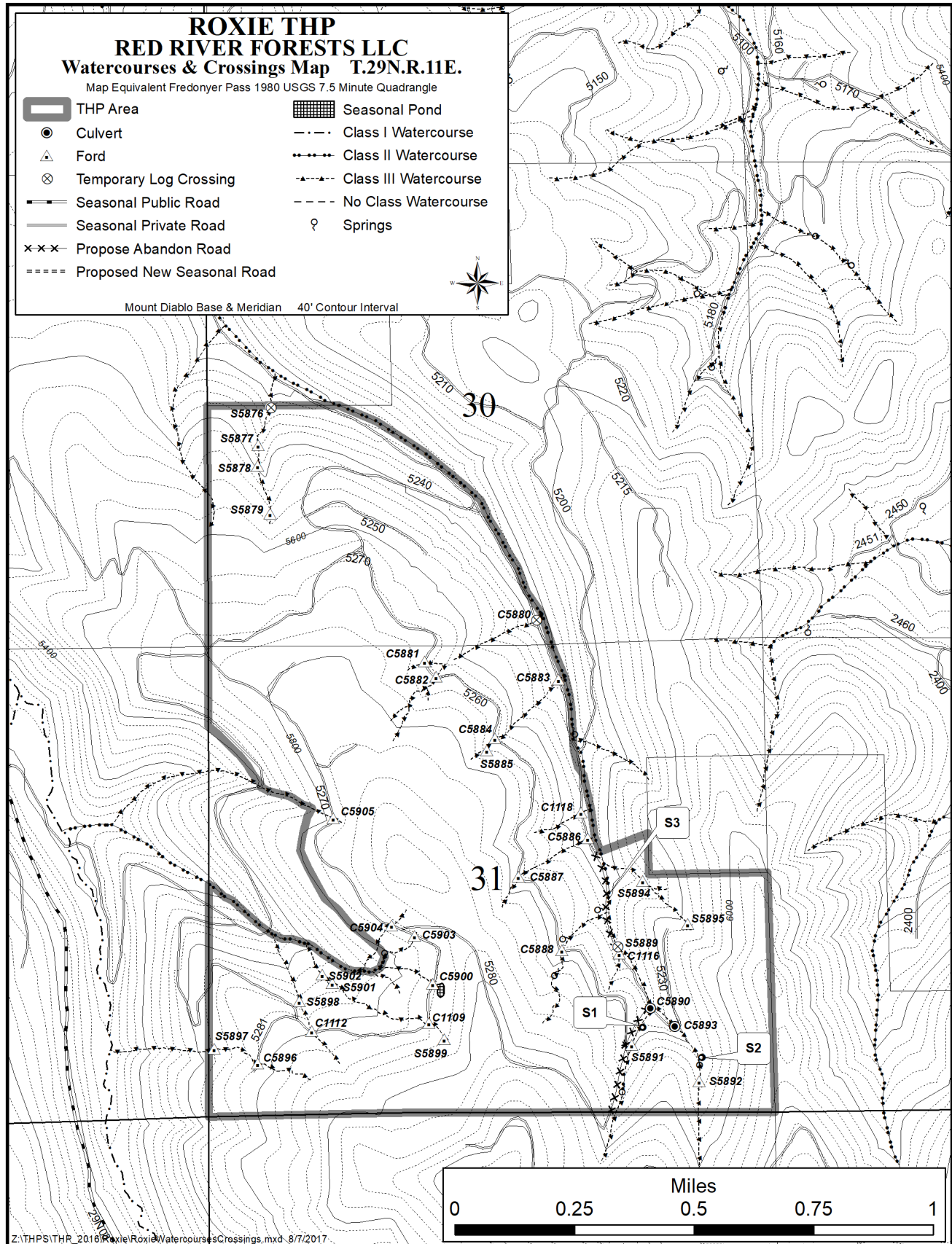


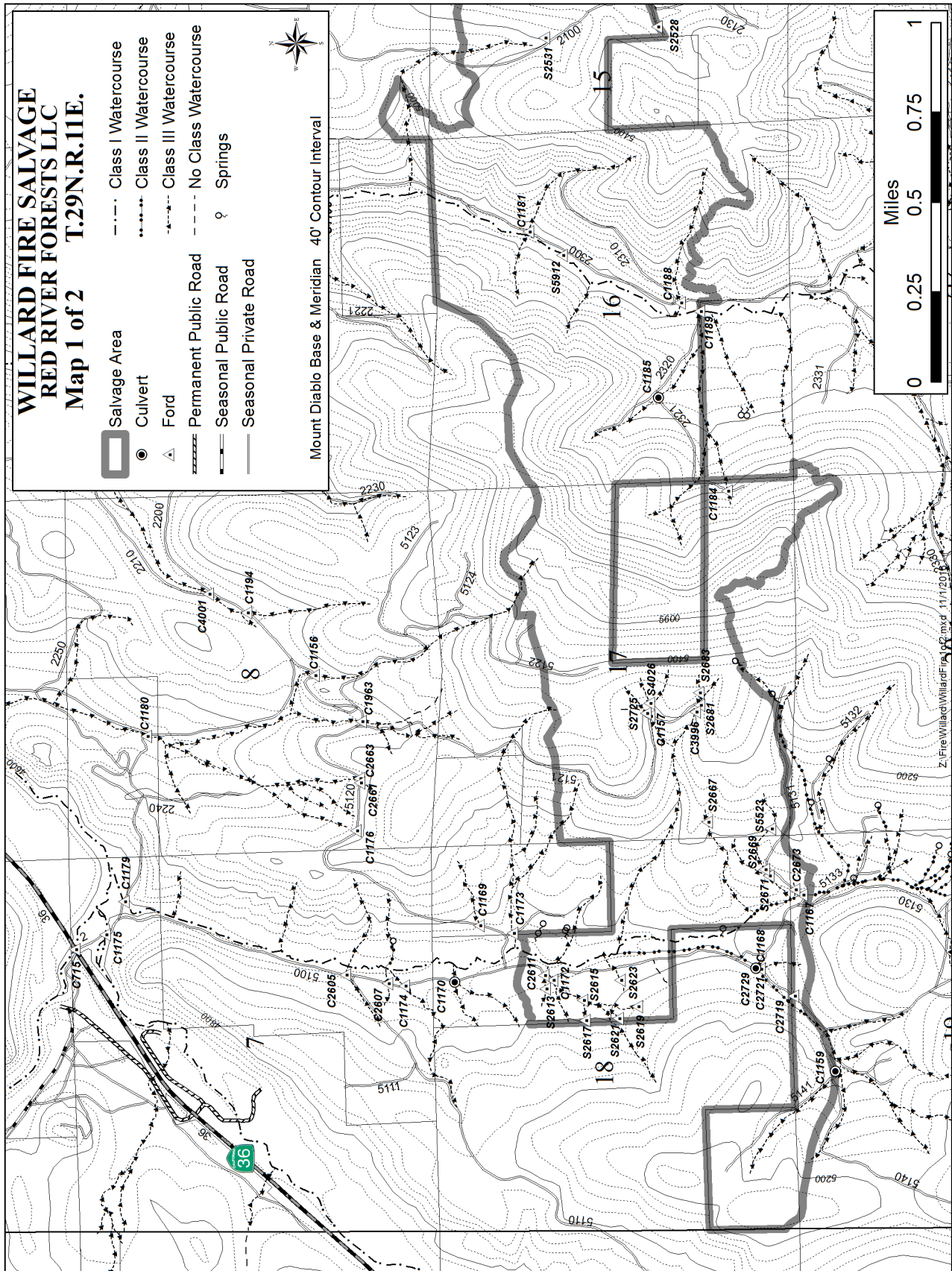


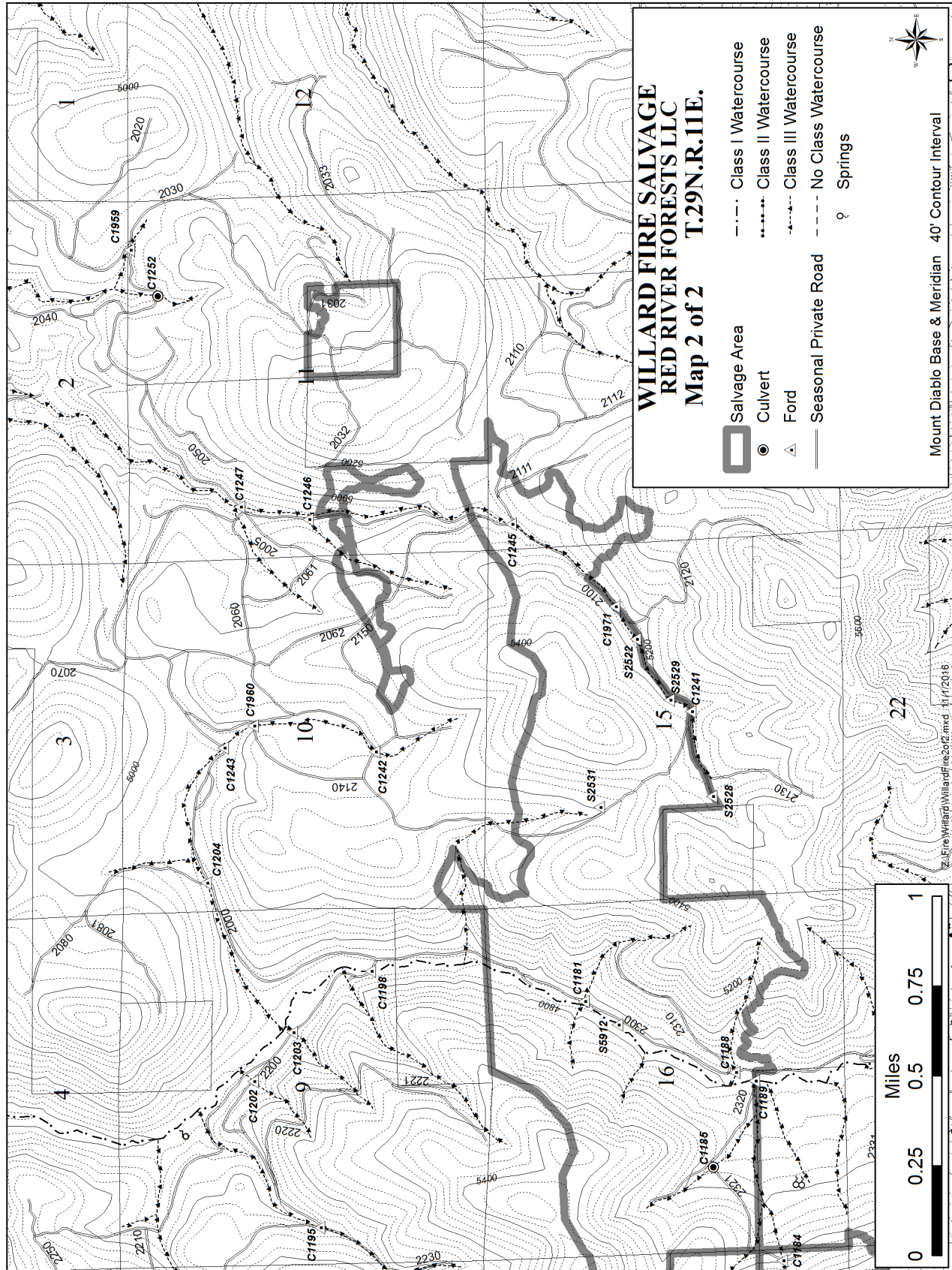


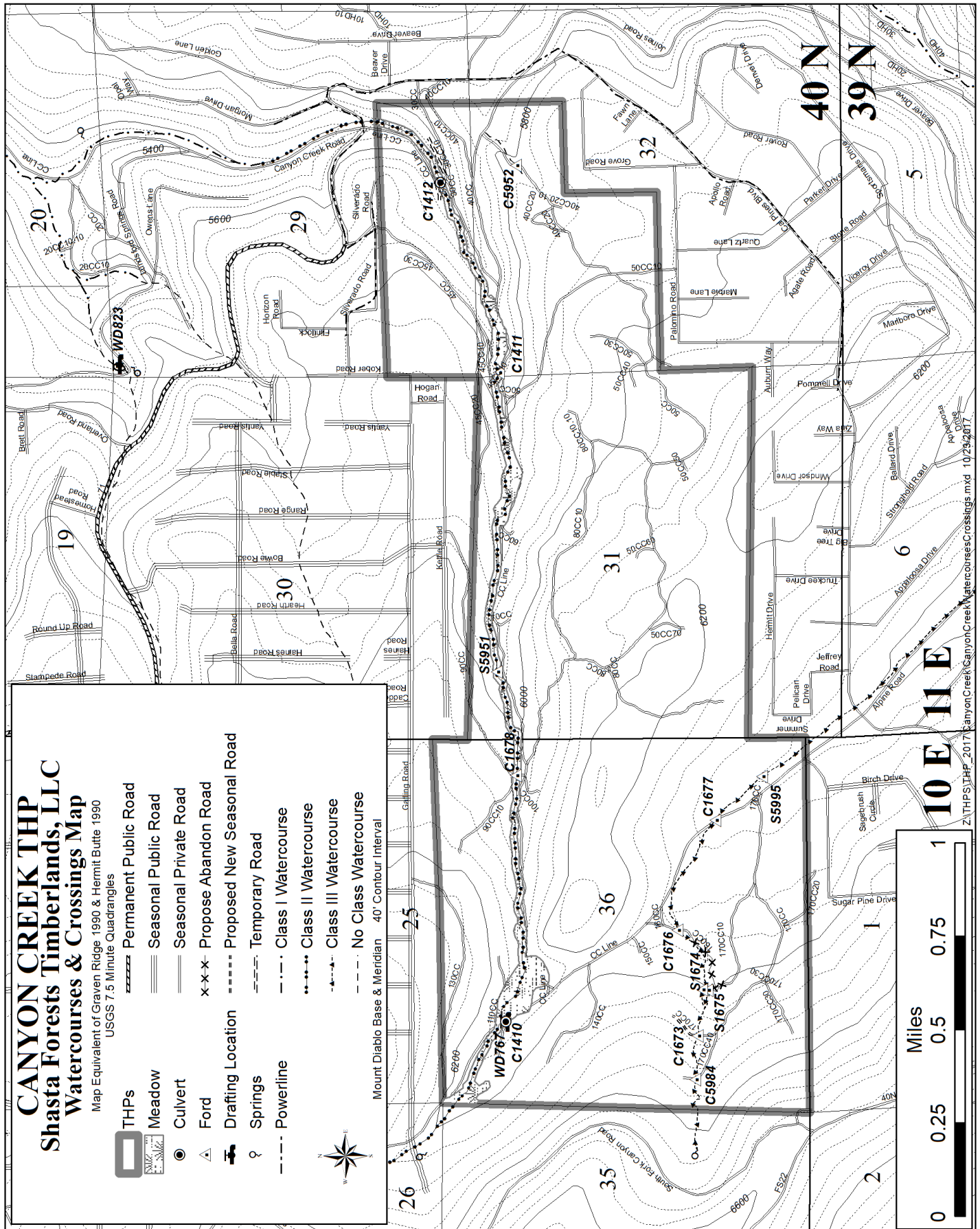












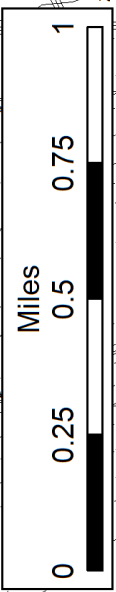
CANYON CREEK TWP

Shasta Forests Timberlands, LLC

Watercourses & Crossings Map

Map Equivalent of Graven Ridge 1990 & Hermit Butte 1990
 USGS 7.5 Minute Quadrangles

- THPs
- Meadow
- Culvert
- Ford
- Drafting Location
- Springs
- Powerline
- Permanent Public Road
- Seasonal Public Road
- Seasonal Private Road
- Propose Abandon Road
- Proposed New Seasonal Road
- Temporary Road
- Class I Watercourse
- Class II Watercourse
- Class III Watercourse
- No Class Watercourse
- 40' Contour Interval



10 E 11 E

40 N
39 N

Z:\THPS\TWP_2017\CanyonCreekWatercoursesCrossings.mxd 10/29/2017

