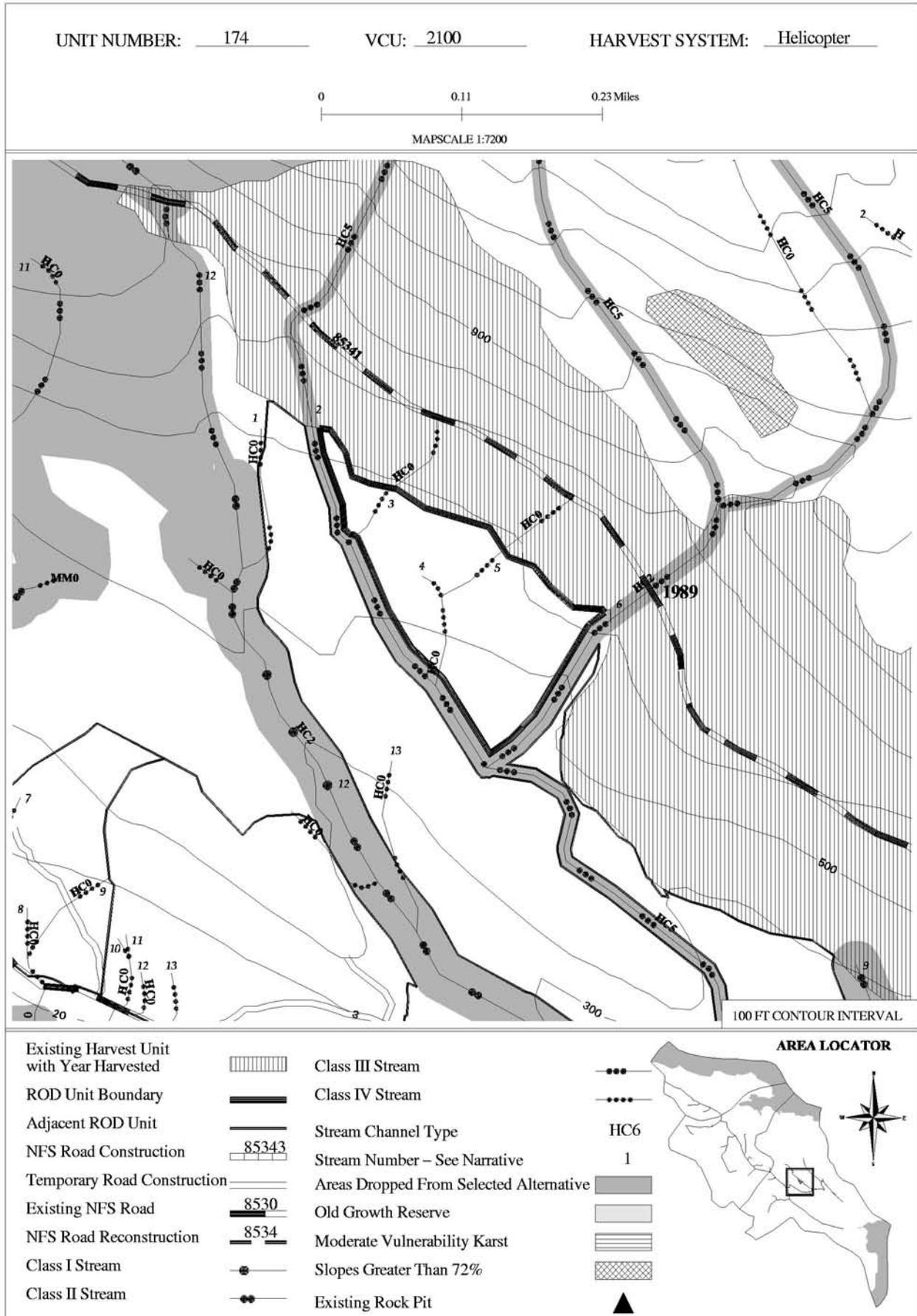


IYOUKTUG TIMBER SALES RECORD OF DECISION
HARVEST UNIT MAP



Unit Data Card – Iyouktug Timber Sales ROD - Selected Alternative
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Unit Number:	174	Selected Alternative		Total Unit Acres:	14.1	Vol Strata Acres:	High: 0 Med: 14.1 Low: 0
VCU Number:	2100	Harvest System:	HE	Net Estimated Harvest Volume (MBF):	170	Prescription /Percent Retention:	ST40

Summary of Concerns, Responses, BMPs and Mitigation
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SILVICULTURE:

Existing Stand Condition/Vegetation: Stand consists of 20-38" DBH western hemlock (43% BA), 12-28" DBH mountain hemlock (36% BA) and 20-38" DBH spruce (21% BA). The southern portion of the unit contains most of the larger diameter trees and the northern portion is almost pure mountain hemlock. Western hemlock advanced regeneration is abundant with some spruce also present. Wind risk is low.

Silvicultural Objective/Desired Future Condition: Maintain or create a stand with three or more distinct age (size) classes of trees that maintains species diversity, provides for a high degree of structural diversity and meets Forest Plan scenery requirements.

Silvicultural Prescription: Uneven-aged management – Single tree selection. Designate up to 40 percent of existing basal (120 sq.ft.per acre) area singly and/or in small clumps to facilitate helicopter yarding. Refer to the intro to unit cards, marking guidelines and detailed RX for more information.

TIMBER/LOGGING: Refer to Silvicultural RX and marking guides for single tree selection guidelines to facilitate helicopter yarding.

ENGINEERING/ROADS: N/A

BOTANY RESOURCES: No concerns

FISH/WATERSHED: Concern: Streams 2 and 6 are Class III HC/MC channels along unit boundaries. **Response:** Category B protection (BMP 12.6, 13.14). No harvest within v-notch (RIP III). **Concern:** Stream 3 is a Class IV HC channel with steep, unstable side-slopes. **Response:** Category B protection (BMP 12.6, 13.14). **Concern:** Streams 4 and 5 are Class IV HC channels. **Response:** Category C protection (BMP 12.6, 13.14). Remove logging debris from channel (BMP 13.16).

GEOLOGY/KARST: No carbonate bedrock found within unit. No karst resource concerns identified.

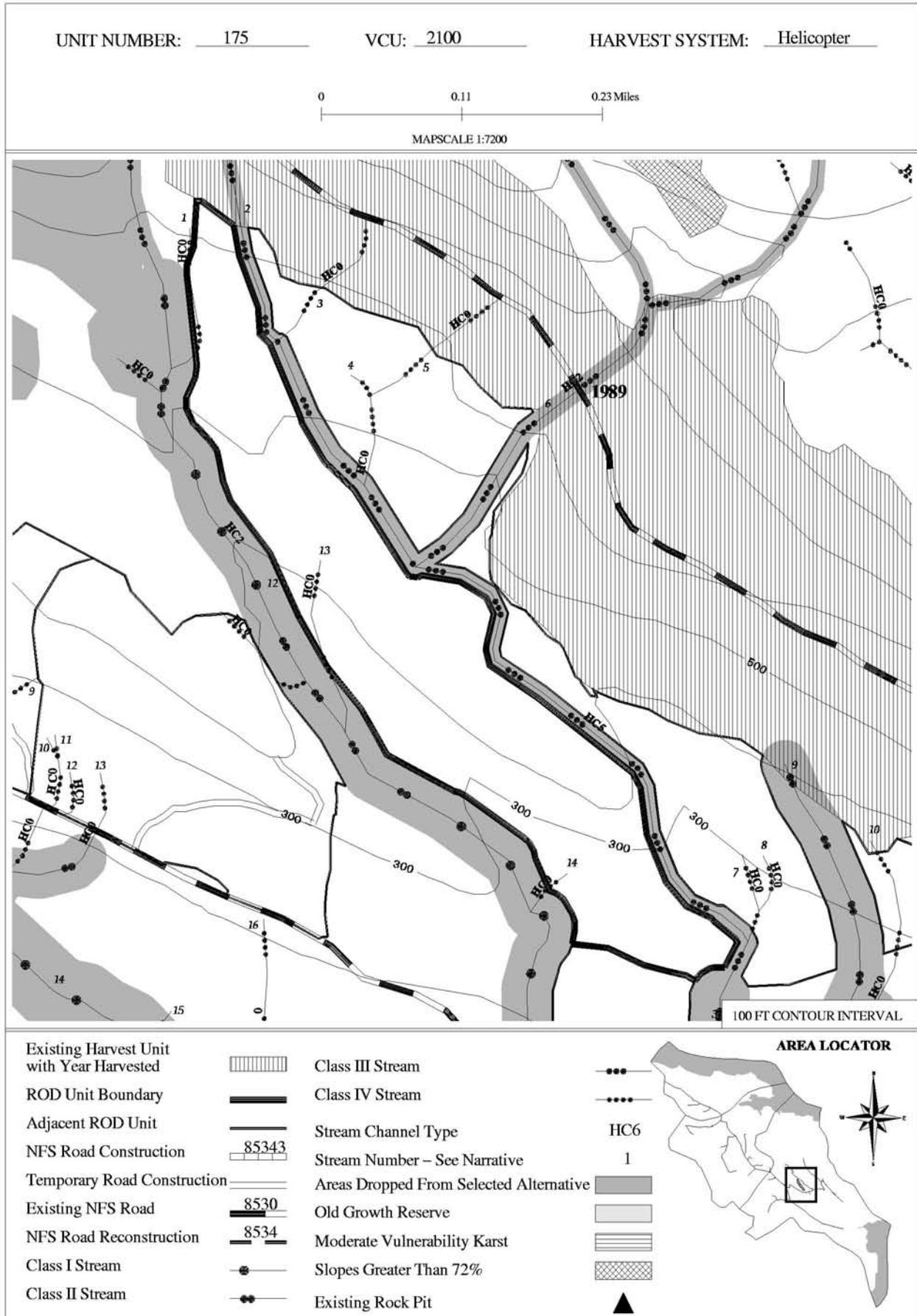
HERITAGE RESOURCES: No concerns

SCENERY/RECREATION: No concerns

SOILS/WETLANDS: Slopes range from 35-55% in Unit 174. **Concern:** A minimum of partial suspension is required to meet soil quality standards (BMP 13.9). **Response:** Unit is proposed as full suspension, which exceeds partial suspension requirements.

WILDLIFE: No concerns

IYOUKTUG TIMBER SALES RECORD OF DECISION
HARVEST UNIT MAP



Unit Data Card – Iyouktug Timber Sales ROD - Selected Alternative
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Unit Number:	175	Selected Alternative		Total Unit Acres:	40.4	Vol Strata Acres:	High: 0 Med: 5.9 Low: 34.5
VCU Number:	2100	Harvest System:	HE	Net Estimated Harvest Volume (MBF):	324	Prescription /Percent Retention:	ST40

Summary of Concerns, Responses, BMPs and Mitigation
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SILVICULTURE:

<p>Existing Stand Condition/Vegetation: This stand consists of many smaller defective 9-19" DBH western hemlock (52% BA), some larger diameter 20-35" DBH spruce (24% BA), 9-23" DBH yellow-cedar (19% BA) and 20-24" DBH mountain hemlock (5% BA). Wind risk is low.</p>
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<p>Silvicultural Objective/Desired Future Condition: Maintain or create a stand with three or more distinct age (size) classes of trees that maintains species diversity, provides for a high degree of structural diversity and meets Forest Plan scenery requirements.</p>

<p>Silvicultural Prescription: Uneven-aged management – Single tree selection. Designate up to 40 percent of existing basal (160 sq.ft.per acre) area singly and/or in small clumps to facilitate helicopter yarding. Refer to the intro to unit cards, marking guidelines and detailed RX for more information.</p>

<p>TIMBER/LOGGING: Refer to Silvicultural RX and marking guides for single tree selection guidelines to facilitate helicopter yarding.</p>

<p>ENGINEERING/ROADS: N/A</p>

<p>BOTANY RESOURCES: No concerns</p>

<p>FISH/WATERSHED: Concern: Stream 1 is a Class IV HC channel with unstable side-slopes that runs into a fish stream. Response: Category B protection (BMP 13.16). Remove logging debris from channel (BMP 13.16). Concern: Stream 2 is Class III HC/MC channel along unit boundary. Response: Category B protection (BMP 12.6, 13.14). No harvest within v-notch (RIP III). Concern: Stream 12 is a Class II HC/MC channel along unit boundary. Response: Category A protection (BMP 12.6, 13.14). No harvest within 100 feet of channel and side-slope break. (RIP III). Concern: Streams 13 and 14 are Class IV HC channels. Response: Category C protection (BMP 12.6, 13.14). Remove logging debris from channel (BMP 13.16).</p>
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<p>GEOLOGY/KARST: No carbonate bedrock found within unit. No karst resource concerns identified.</p>

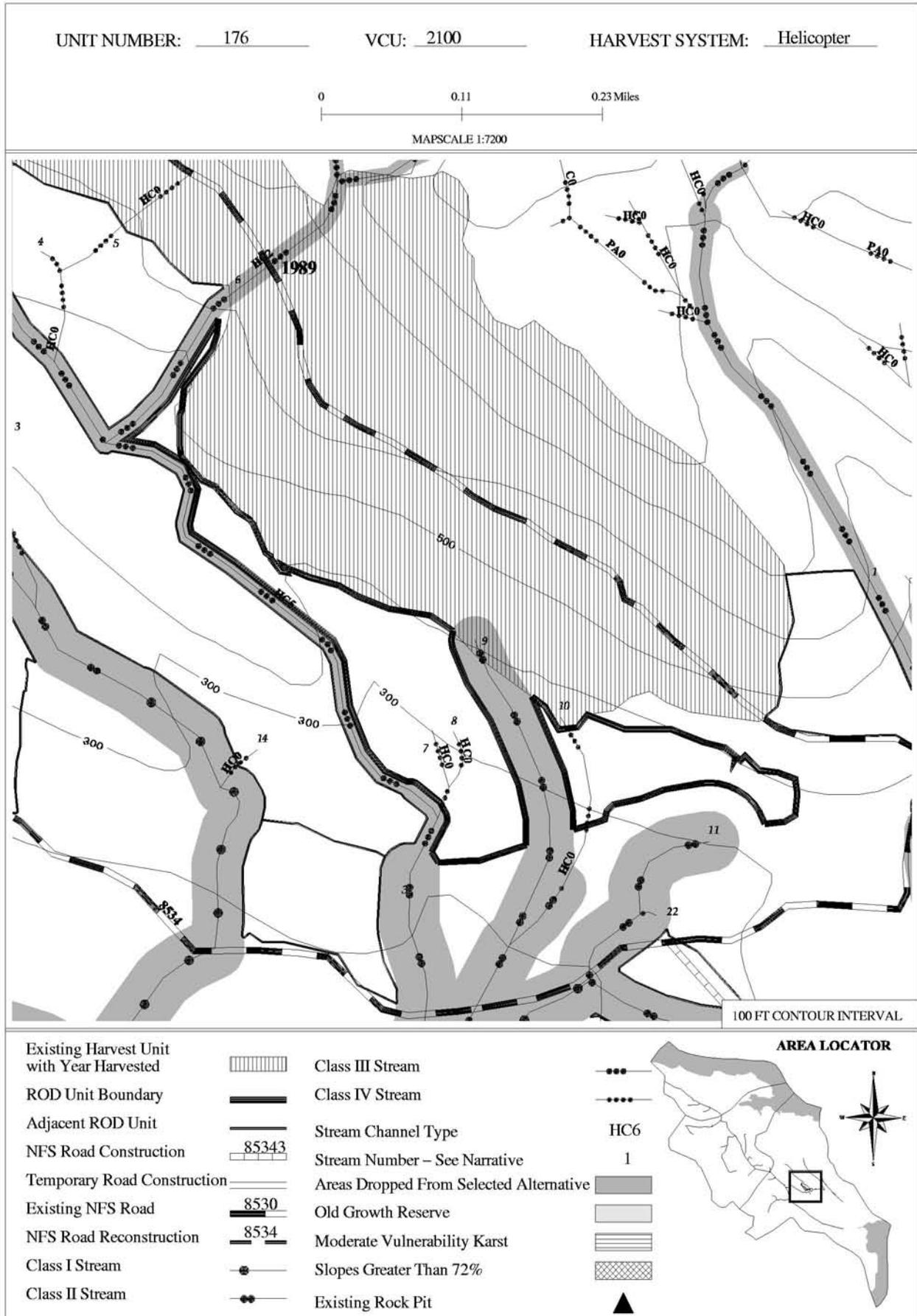
<p>HERITAGE RESOURCES: No concerns</p>

<p>SCENERY/RECREATION: No concerns</p>

<p>SOILS/WETLANDS: Slopes range from 35-55% in Unit 175. Concern: wetlands exist in the northern quarter of Unit 175. Response: Helicopter logging will protect wetlands and meet resource objectives. (BMP 12.5) Rest of unit is suitable for proposed helicopter harvest. (BMP 13.9)</p>

<p>WILDLIFE: Concern: Goshawk observed around the unit. Surveys did not identify a nest site. Response: Goshawk is likely associated with identified nest site. If a goshawk nest is identified in or adjacent to the unit, contact the project biologist; follow Forest Plan direction for the development of the nest buffer.</p>

IYOUKTUG TIMBER SALES RECORD OF DECISION
HARVEST UNIT MAP



Unit Data Card – Iyouktug Timber Sales ROD - Selected Alternative
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Unit Number:	176	Selected Alternative		Total Unit Acres:	21.4	Vol Strata Acres:	High: 0 Med: 6.6 Low: 14.8
VCU Number:	2100	Harvest System:	HE	Net Estimated Harvest Volume (MBF):	121	Prescription /Percent Retention:	ST25

Summary of Concerns, Responses, BMPs and Mitigation
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SILVICULTURE:

<p>Existing Stand Condition/Vegetation: This stand consists primarily of smaller diameter, defective 9-20" DBH western hemlock (63% BA), 12-23" DBH yellow-cedar (19% BA), 20-23" DBH mountain hemlock (13% BA) and a minor component of larger diameter 32-35" DBH spruce (6% BA). Western hemlock advanced regeneration is abundant with some spruce and yellow-cedar also present. The slopes are relatively flat and hydric. Wind risk is low.</p>

<p>Silvicultural Objective/Desired Future Condition: Maintain or create a stand with three or more distinct age (size) classes of trees that maintains species diversity, provides for a high degree of structural diversity and meets Forest Plan scenery requirements.</p>

<p>Silvicultural Prescription: Uneven-aged management – Single tree selection. Designate up to 25 percent of existing basal (140 sq.ft.per acre) area singly and/or in small clumps to facilitate helicopter yarding. Refer to the intro to unit cards, marking guidelines and detailed RX for more information.</p>

<p>TIMBER/LOGGING: Refer to Silvicultural RX and marking guides for single tree selection guidelines to facilitate helicopter yarding.</p>

<p>ENGINEERING/ROADS: N/A</p>

<p>BOTANY RESOURCES: No concerns</p>

<p>FISH/WATERSHED: Concern: Stream 6 is a Class III HC channel that runs along the north and west unit boundaries. Response: Category B protection (BMP 12.6, 13.14). No harvest within v-notch (RIP III). Concern: Streams 7 and 8 are Class IV HC channels. Response: Category C protection (BMP 12.6, 13.14) . Remove logging debris from channel (BMP 13.16). Concern: The lower part of stream 7 is a Class IV HC channel with unstable side-slopes that runs into a fish stream. Response: Category B protection (BMP 13.16). Remove logging debris from channel (BMP 13.16). Concern: Stream 9 is a Class II HC channel. Response: Category A protection (BMP 12.6, 13.14). No harvest within 100 feet and side-slope break (RIP III). Concern: Stream 10 is a Class IV HC channel. Response: Category C protection (BMP 12.6, 13.14). Remove logging debris from channel (BMP 13.16).</p>

<p>GEOLOGY/KARST: No carbonate bedrock found within unit. No karst resource concerns identified.</p>

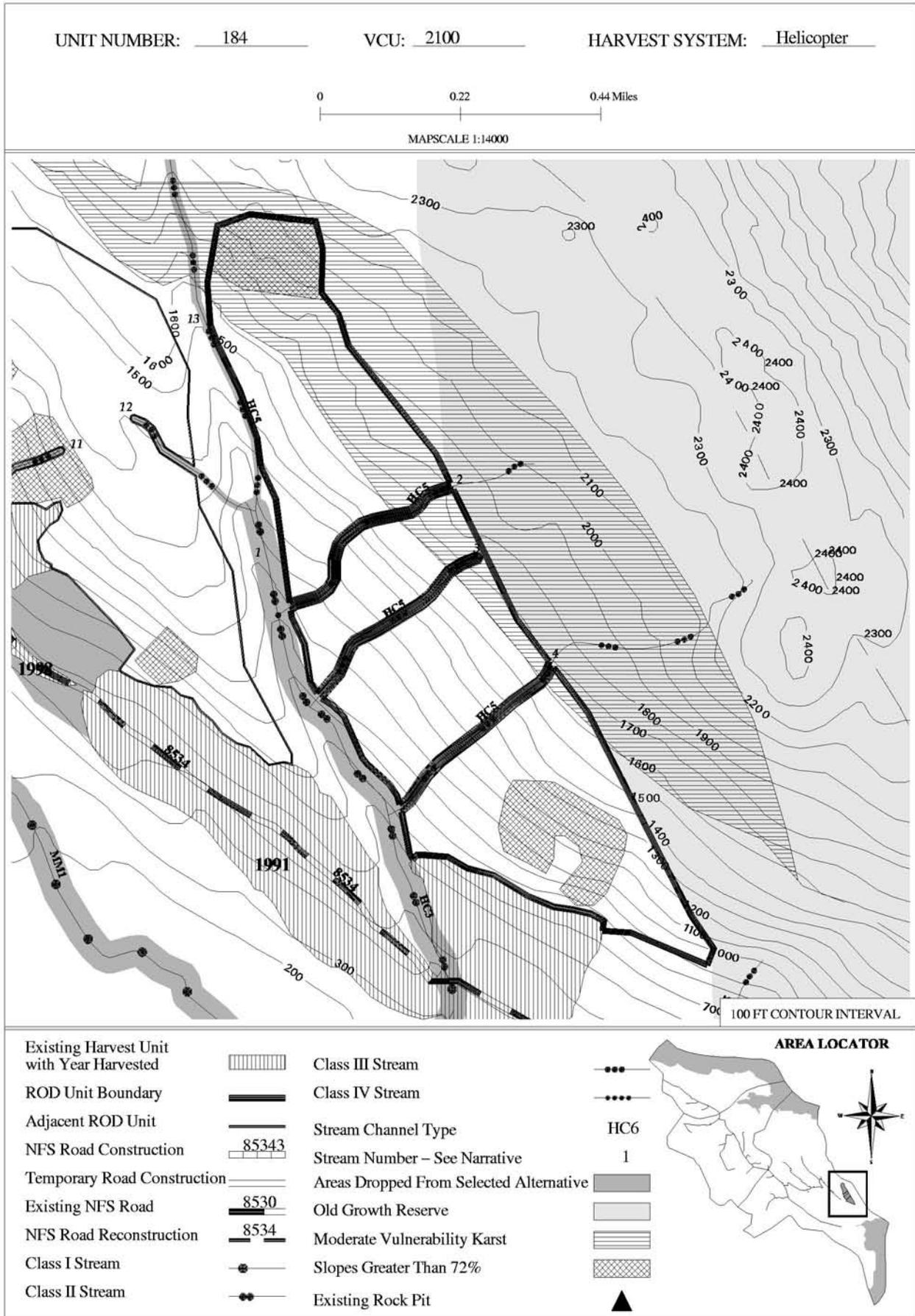
<p>HERITAGE RESOURCES: No concerns</p>

<p>SCENERY/RECREATION: No concerns</p>

<p>SOILS/WETLANDS: Slopes range from 35-55% in Unit 176. Concern: A minimum of partial suspension is required to meet soil quality standards (BMP 13.9). Response: Unit is proposed as full suspension, which exceeds partial suspension requirements.</p>

<p>WILDLIFE: No concerns</p>

IYOUKTUG TIMBER SALES RECORD OF DECISION
HARVEST UNIT MAP



Unit Data Card – Iyouktug Timber Sales ROD - Selected Alternative

Unit Number:	184	Selected Alternative		Total Unit Acres:	202.4	Vol Strata Acres:	High: 151.2 Med: 50.1 Low: 1.1
VCU Number:	2100	Harvest System:	HE	Net Estimated Harvest Volume (MBF):	1,970	Prescription /Percent Retention:	ST25

Summary of Concerns, Responses, BMPs and Mitigation

SILVICULTURE:

Existing Stand Condition/Vegetation: The northern third of stand is comprised predominantly of mountain hemlock and a few scattered spruce. The middle third of unit consists of a mix of mountain hemlock, western hemlock, and tall spruce with little defect. The southern third consists of western hemlock and larger diameter spruce with little defect. Slopes average 60%. Wind risk is moderate to high.

Silvicultural Objective/Desired Future Condition: Maintain or create a stand with three or more distinct age (size) classes of trees that maintains species diversity, provides for a high degree of structural diversity and meets Forest Plan scenery requirements.

Silvicultural Prescription: Uneven-aged management – Single tree selection. Designate up to 25 percent of existing basal (322 sq.ft.per acre) area singly and/or in small clumps to facilitate helicopter yarding. This unit contains stream buffers with RAW zones. For RAW zone retain trees less than 16" DBH within specified distance (refer to fish/watershed section) from windward (southeasterly) edge of stream buffers to minimize windthrow in buffer. Refer to the intro to unit cards, marking guidelines and detailed RX for more information.

TIMBER/LOGGING: Refer to Silvicultural RX and marking guides for single tree selection guidelines to facilitate helicopter yarding.

ENGINEERING/ROADS: N/A

BOTANY RESOURCES: No concerns

FISH/WATERSHED: Concern: GIS-mapped stream 1 is a Class II HC3 channel. **Response:** Category A protection (BMP 12.6, 13.14). No harvest within 100 feet and side-slope break (RIP III). **Concern:** GIS-mapped streams 13, 2, 3, and 4 are Class III HC channels. **Response:** Category B protection (BMP 12.6, 13.14). No harvest within v-notch (RIP III). **Concern:** Windthrow risk is high. **Response:** Manage for windfirmness 120 feet beyond no-cut buffers.

GEOLOGY/KARST: Concern: There are about 56 acres of moderate vulnerability karst along the northern and eastern boundaries of Unit 184. **Response:** A minimum of partial suspension is required to meet karst resource objectives (BMP 13.9).

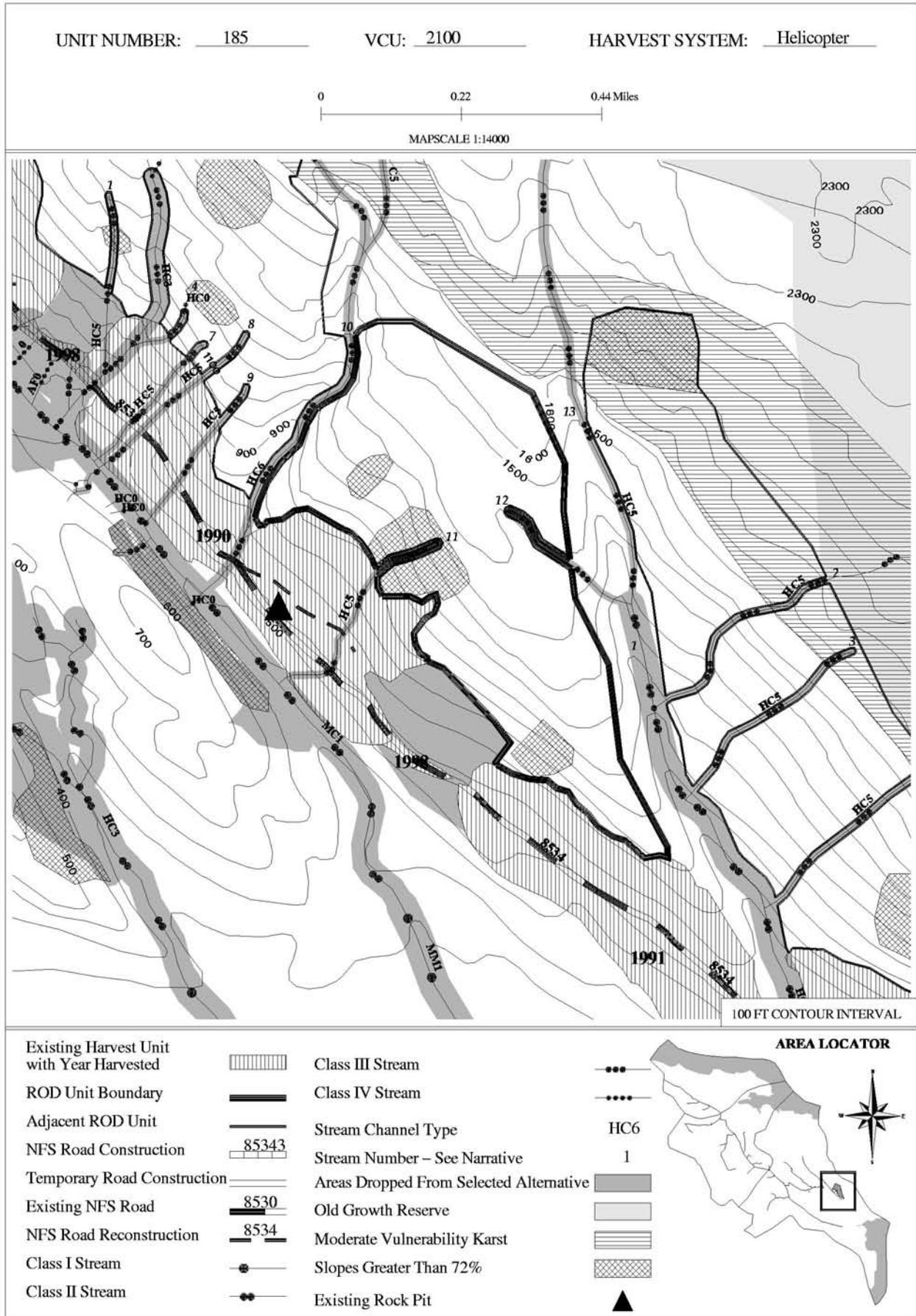
HERITAGE RESOURCES: No concerns

SCENERY/RECREATION: No concerns

SOILS/WETLANDS: Slopes are generally greater than 55% in Unit 184. There are two large areas of slopes greater than 72% for a total of 27 acres. The soils are generally well-drained over bedrock. There are no signs of instability, hollow topography or past landslides in this area. **Concern:** Some landslides may initiate on the slopes greater than 72% and enter streams. **Response:** Do not harvest any slopes greater than 72% within the RAW zone. Slopes up to 80% may be harvested with the proposed helicopter prescription and full suspension. Avoid slopes greater than 80% in Unit 185. (BMP 13.5, 13.9). An onsite analysis for suitability on slopes over 72% was conducted on this unit as per Forest Plan Standards (soil resource report).

WILDLIFE: No concerns

IYOUKTUG TIMBER SALES RECORD OF DECISION
HARVEST UNIT MAP



Unit Data Card – Iyouktug Timber Sales ROD - Selected Alternative					
Unit Number:	185	Selected Alternative	Total Unit Acres:	136.8	Vol Strata Acres: High: 44.0 Med: 49.3 Low: 43.5
VCU Number:	2100	Harvest System:	HE	Net Estimated Harvest Volume (MBF):	1,054 Prescription /Percent Retention: ST25

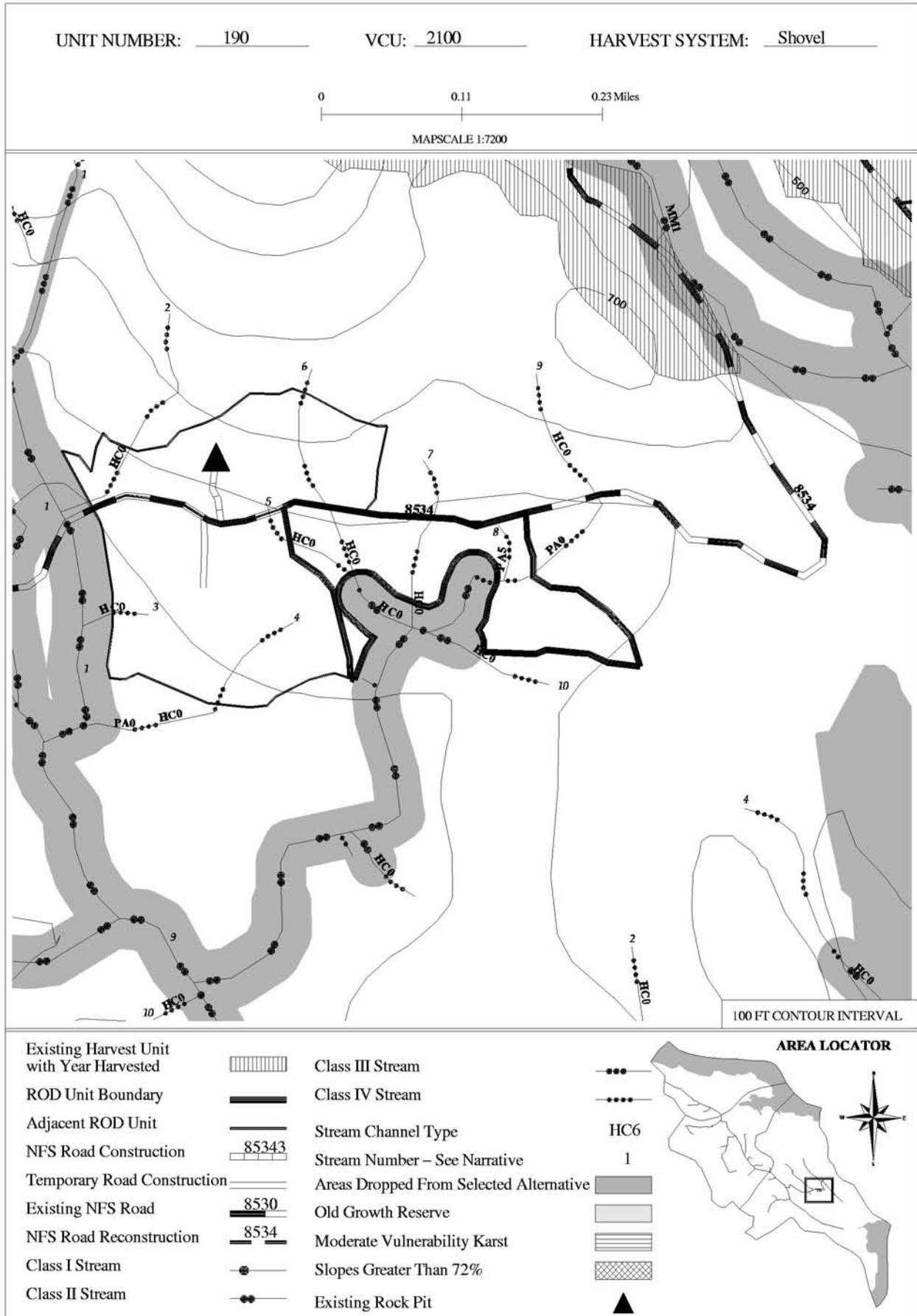
Summary of Concerns, Responses, BMPs and Mitigation
<p>SILVICULTURE:</p> <p>Existing Stand Condition/Vegetation: Stand is comprised predominantly of 9-20"DBH western hemlock (61% BA) and 9-27" DBH mountain hemlock (12% BA) with some larger diameter 12-39" DBH spruce (27% BA). The southern portion of the unit contains a sizeable area of windthrow with significant regeneration among the residuals. Wind risk is moderate to high.</p> <p>Silvicultural Objective/Desired Future Condition: Maintain or create a stand with three or more distinct age (size) classes of trees that maintains species diversity, provides for a high degree of structural diversity and meets Forest Plan scenery requirements.</p> <p>Silvicultural Prescription: Uneven-aged management – Single tree selection. Designate up to 25 percent of existing basal (311 sq.ft.per acre) area singly and/or in small clumps to facilitate helicopter yarding. This unit contains stream buffers with RAW zones. For RAW zone retain trees less than 16" DBH within specified distance (refer to fish/watershed section) from windward (southeasterly) edge of stream buffers to minimize windthrow in buffer. Refer to the intro to unit cards, marking guidelines and detailed RX for more information.</p>
<p>TIMBER/LOGGING: Refer to Silvicultural RX and marking guides for single tree selection guidelines to facilitate helicopter yarding.</p>
<p>ENGINEERING/ROADS: N/A</p>
<p>BOTANY RESOURCES: No concerns</p>
<p>FISH/WATERSHED: Concern: GIS-mapped streams 10,11, and 12 are Class III HC channels. Response: No harvest within 100 feet and side-slope break (RIP III). Manage 120 feet beyond no-cut buffer for windfirmness.</p>
<p>GEOLOGY/KARST: No carbonate bedrock found within unit. No karst resource concerns identified.</p>
<p>HERITAGE RESOURCES: No concerns</p>
<p>SCENERY/RECREATION: No concerns</p>
<p>SOILS/WETLANDS: Slopes range from 20-80% in Unit 185. The soils are generally well drained and moderately deep. There is one 20-acre forested wetland in the middle of the unit, where soils are poorly drained and slopes are generally less than 30% (BMP 12.5). There are about 15 acres of slopes greater than 72%. Most of these areas occur along the backline of the previous harvest. There are no signs of instability, hollow topography or past landslides in this area. Concern: Some landslides may initiate on the slopes greater than 72% and enter streams. Response: Do not harvest any slopes greater than 72% within the RAW zone. Slopes up to 80% may be harvested with the proposed helicopter prescription and full suspension. Avoid slopes greater than 80% in Unit 185. (BMP 13.5, 13.9). An onsite analysis for suitability on slopes over 72% was conducted on this unit as per Forest Plan Standards (soil resource report).</p>

Summary of Concerns, Responses, BMPs and Mitigation

WILDLIFE: Concern: High deer use was observed in the west portion of the unit. **Response:** Proposed harvest system will not create openings greater than 2 acres in size within this habitat. Retention of 60% of the basal area will help maintain deer habitat. **Concern:** Goshawk observed around the unit. Surveys did not identify a nest site. **Response:** Goshawk is likely associated with identified nest site. If a goshawk nest is identified in or adjacent to the unit, contact the project biologist; follow Forest Plan direction for the development of the nest buffer. **Concern:** Red-tailed hawk observed adjacent to unit. **Response:** Maintain a 600-foot no-harvest buffer that is windfirm around active raptor nest sites if identified and restrict harvest and road building activities from March 1 to July 31 within the buffer.

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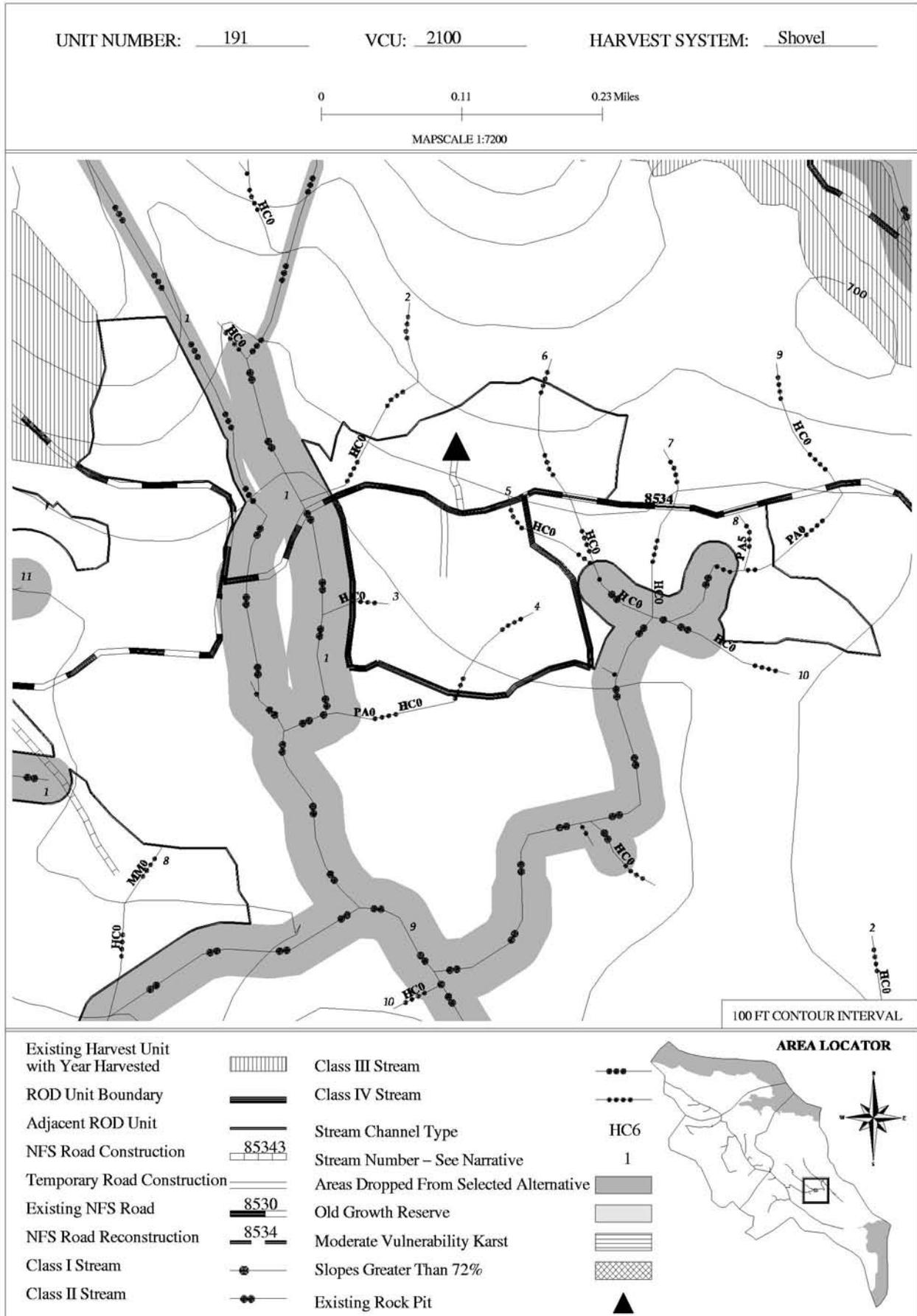
IYOUKTUG TIMBER SALES RECORD OF DECISION
HARVEST UNIT MAP



Unit Data Card – Iyouktug Timber Sales ROD - Selected Alternative							
Unit Number:	190	Selected Alternative	Total Unit Acres:	10.5	Vol Strata Acres: High: 0.3 Med: 10.2 Low: 0		
VCU Number:	2100	Harvest System:	SH	Net Estimated Harvest Volume (MBF):	156	Prescription /Percent Retention:	ST50

Summary of Concerns, Responses, BMPs and Mitigation
<p>SILVICULTURE:</p> <p>Existing Stand Condition/Vegetation: Stand consists primarily of smaller diameter 9-20" western hemlock (67% BA), a few large diameter 40-42" DBH spruce (17% BA) and some small diameter 9-11" DBH yellow-cedar (17% BA). Western hemlock advanced regeneration is abundant with some spruce and yellow-cedar also present. Wind risk is moderate.</p> <p>Silvicultural Objective/Desired Future Condition: Maintain or create a stand with three or more distinct age (size) classes of trees that maintains species diversity, provides for a high degree of structural diversity and meets Forest Plan scenery requirements.</p> <p>Silvicultural Prescription: Uneven-aged management – Single tree selection. Designate up to 50 percent of existing basal (100 sq.ft.per acre) area singly and/or in small clumps or corridors to facilitate shovel yarding. Refer to the intro to unit cards, marking guidelines and detailed RX for more information.</p>
<p>TIMBER/LOGGING: Refer to Silvicultural RX and marking guides for single tree selection guidelines to facilitate shovel yarding.</p>
<p>ENGINEERING/ROADS: N/A</p>
<p>BOTANY RESOURCES: No concerns</p>
<p>FISH/WATERSHED: Concern: Stream 5 (upper), 6, 7, 8, and 9 (upper) are Class IV HC channels. Response: Category C protection (BMP 12.6, 13.14). Equipment will not operate in streamcourses and will not cross streams without a temporary structure (BMP 13.9, 13.14). Temporary structures for crossing streams 8 and 9 will be agreed upon by USFS. Remove logging debris from channel (BMP 13.16). Concern: Stream 6 (lower) and 9 (lower) are Class II HC channels that enter MM channels. Response: Locate unit boundaries north of stream buffers if feasible. Category A protection (BMP 12.6, 13.14). No harvest within 100 feet and side-slope break (RIP III) for HC channels, no harvest within 120 feet of MM channels.</p>
<p>GEOLOGY/KARST: No carbonate bedrock found within unit. No karst resource concerns identified.</p>
<p>HERITAGE RESOURCES: No concerns</p>
<p>SCENERY/RECREATION: No concerns</p>
<p>SOILS/WETLANDS: Slopes range from 15-50% in Unit 190. About half of the unit is forested wetland (BMP 12.5). The soils are poorly drained organic soils in the wetland and somewhat poorly drained, deep mineral soils on slopes greater than 25%. Concern: Shovel yarding may cause rutting due to lack of bearing strength on poorly drained organic soils in unit 806. Response: Operate on a puncheon or a slash mattress to provide adequate bearing strength. (BMP 13.2 and 13.9) Concern: Shovel yarding may cause rutting due to slopes greater than 25% in the western half of the unit. Response: Do not operate shovel on slopes greater than 25%. Utilize the boom, a short choker or cable to remove logs from steeper slopes or directionally fall the trees instead.</p>
<p>WILDLIFE: No concerns</p>

IYOUKTUG TIMBER SALES RECORD OF DECISION
HARVEST UNIT MAP



Unit Data Card – Iyouktug Timber Sales ROD - Selected Alternative

Unit Number:	191	Selected Alternative		Total Unit Acres:	16.1	Vol Strata Acres:	High 0.3: Med: 15.8 Low: 0
VCU Number:	2100	Harvest System:	SH	Net Estimated Harvest Volume (MBF):	239	Prescription /Percent Retention:	ST50

Summary of Concerns, Responses, BMPs and Mitigation

SILVICULTURE:

Existing Stand Condition/Vegetation: Stand consists of 12-30" DBH western hemlock (61% BA) with some larger diameter 24-42" DBH spruce (17% BA), 9-18" DBH yellow-cedar (17% BA) and 12-30" DBH mountain hemlock (6% BA) . The southwest portion of the unit is the most productive with better drained soils. Slopes are relatively flat and poorly drained throughout the rest of the unit. Western hemlock advanced regeneration is abundant with considerable yellow-cedar regeneration and some spruce. Wind risk is moderate.

Silvicultural Objective/Desired Future Condition: Maintain or create a stand with three or more distinct age (size) classes of trees that maintains species diversity, provides for a high degree of structural diversity and meets Forest Plan scenery requirements.

Silvicultural Prescription: Uneven-aged management – Single tree selection. Designate up to 50 percent of existing basal (170 sq.ft.per acre) area singly and/or in small clumps or corridors to facilitate shovel yarding. Refer to the intro to unit cards, marking guidelines and detailed RX for more information.

TIMBER/LOGGING: Single tree selection to be marked in and along corridors to facilitate shovel yarding.

ENGINEERING/ROADS: Temporary road 191A accesses unit from existing Road 8534. Road location will be flagged by USFS prior to construction.

BOTANY RESOURCES: No concerns

FISH/WATERSHED: Concern: Stream 1 is a Class II MM channel on western unit boundary.

Response: Locate unit boundary east of stream buffer. Category A protection (BMP 12.6, 13.14). No harvest within 120 feet of channel (RIP III). **Concern:** Stream 3, 4, and 5 are Class IV HC channels.

Response: Category C protection (BMP 12.6, 13.14). Equipment will not operate in streamcourses and will not cross streams without a temporary structure (BMP 13.9, 13.14). Remove logging debris from channel (BMP 13.16).

GEOLOGY/KARST: No carbonate bedrock found within unit. No karst resource concerns identified.

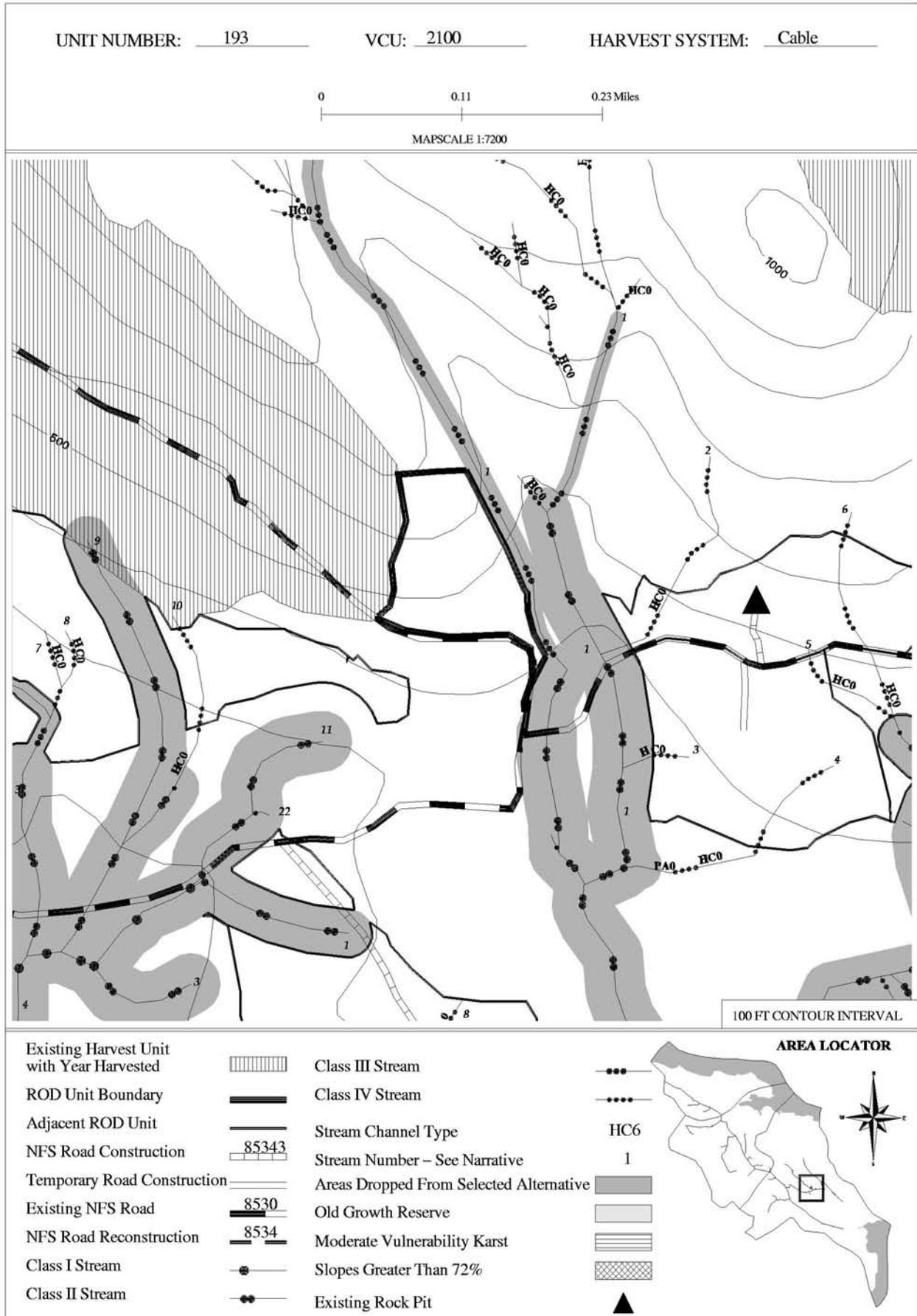
HERITAGE RESOURCES: No concerns

SCENERY/RECREATION: No concerns

SOILS/WETLANDS: Slopes range from 5-25% in Unit 191. The soils are a mosaic of poorly drained organic soils over till and somewhat poorly drained till soils. **Concern:** Shovel yarding may cause rutting due to lack of bearing strength on poorly drained organic soils in Unit 191. **Response:** Operate on a puncheon or a slash mattress to provide adequate bearing strength. (BMP 13.2 and 13.9) **Concern:** Proposed temporary road crosses forested wetlands. No high-value wetlands exist in this unit. **Response:** Avoid placing the road in non-forested areas. Provide adequate cross drainage, remove structures and close the road after harvest. (BMP 14.9) (33 CFR BMPs 4, 5, 6)

WILDLIFE: No concerns

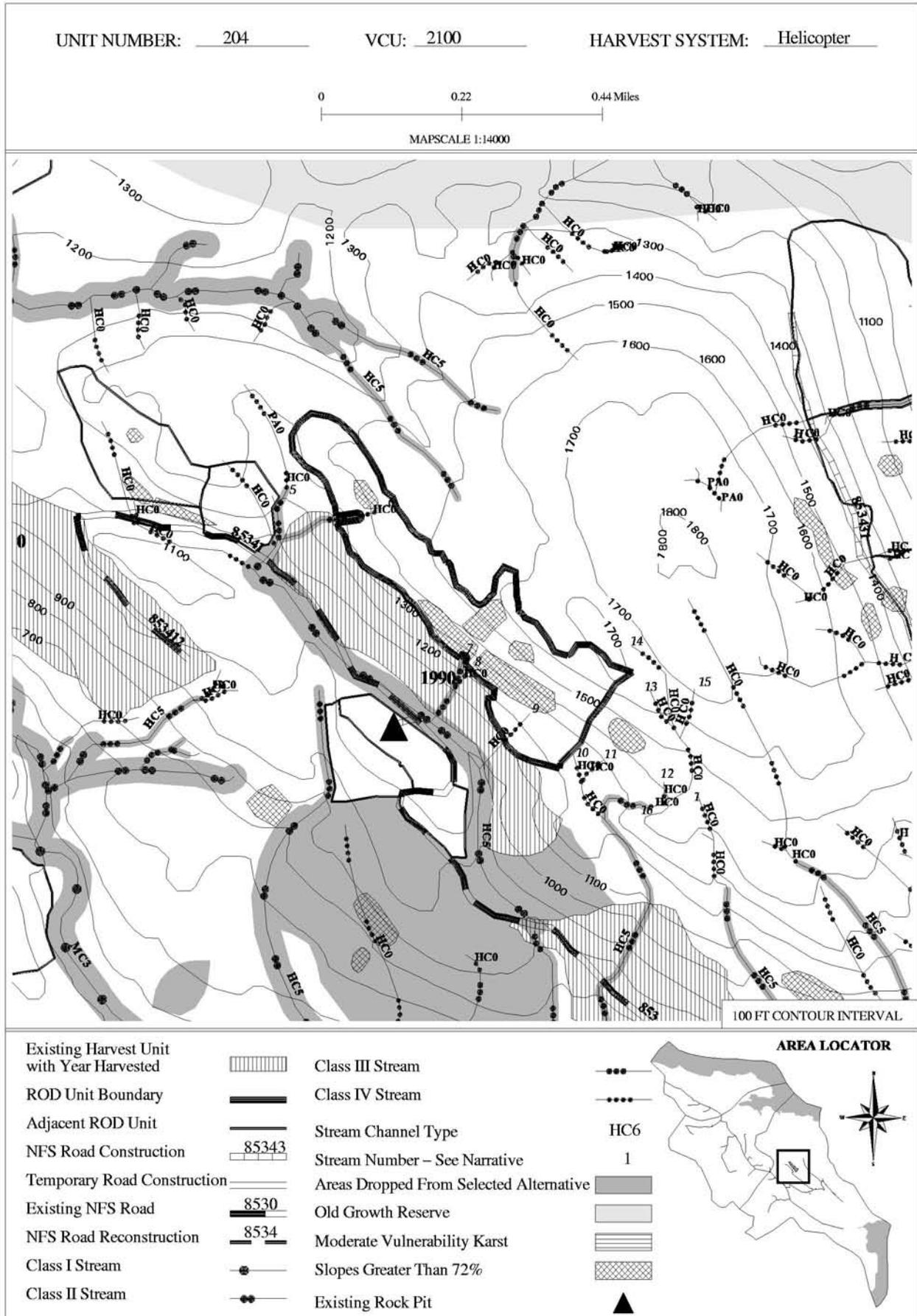
IYOUKTUG TIMBER SALES RECORD OF DECISION
HARVEST UNIT MAP



Unit Data Card – Iyouktug Timber Sales ROD - Selected Alternative					
Unit Number:	193	Selected Alternative	Total Unit Acres:	7.6	Vol Strata Acres: High: 0 Med: 6.3 Low: 1.2
VCU Number:	2100	Harvest System:	C	Net Estimated Harvest Volume (MBF):	159 Prescription /Percent Retention: CC

Summary of Concerns, Responses, BMPs and Mitigation	
SILVICULTURE:	
Existing Stand Condition/Vegetation: Stand consists predominantly of 12-36" DBH western hemlock (73% BA) and 16-47" DBH spruce (27% BA). There is an area of recent salvable windthrow in the southwest corner. Soils are well drained with slopes averaging 35%. Western hemlock advanced regeneration is abundant with some spruce also present. Wind risk is moderate to high.	
Silvicultural Objective/Desired Future Condition: Create an even-aged managed stand of the same species composition as the original stand that meets Forest Plan scenery requirements, uses an economical regeneration method, and is windfirm, free of mistletoe infection and growing at full site potential.	
Silvicultural Prescription: Even-aged management – clearcut: This unit is bounded on the east by a stream buffer (refer to fish/watershed section).	
TIMBER/LOGGING: This unit is comprised of one cable setting.	
ENGINEERING/ROADS: N/A	
BOTANY RESOURCES: No concerns	
FISH/WATERSHED: Concern: Stream 1 is a Class III HC channel along eastern unit boundary. Response: Locate unit boundary west of v-notch. Manage for windfirmness 120 feet from buffer to provide windfirmness. Concern: Lower part of Stream 1 is a Class II HC channel. Response: Locate unit boundary northeast of 100- foot no-harvest buffer (RIP III). Manage for windfirmness 120 feet from buffer.	
GEOLOGY/KARST: No carbonate bedrock found within unit. No karst resource concerns identified.	
HERITAGE RESOURCES: No concerns	
SCENERY/RECREATION: No concerns	
SOILS/WETLANDS: Slopes range from 20-42% in Unit 193. The soils are generally well drained and deep. A minimum of partial suspension is required to meet soil quality standards. (BMP 13.9)	
WILDLIFE: Concern: High deer use observed throughout unit. Response: No design elements or mitigation required to meet Forest Plan standards and guidelines.	

IYOUKTUG TIMBER SALES RECORD OF DECISION
HARVEST UNIT MAP



Unit Data Card – Iyouktug Timber Sales ROD - Selected Alternative
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Unit Number:	204	Selected Alternative		Total Unit Acres:	47.2	Vol Strata Acres:	High: 5.7 Med: 31.4 Low: 10.1
VCU Number:	2100	Harvest System:	HE	Net Estimated Harvest Volume (MBF):	551	Prescription /Percent Retention:	ST40

Summary of Concerns, Responses, BMPs and Mitigation
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SILVICULTURE:

<p>Existing Stand Condition/Vegetation: Stand consists of 9-35" DBH mountain hemlock (41% BA), 9-35" DBH spruce (33% BA) and 16-43" DBH western hemlock (26% BA). There are areas of larger diameter trees scattered throughout unit, especially in the southern portion. Slopes are moderate to steep and the soils are well drained. Western and mountain hemlock advanced regeneration is moderately abundant with some spruce also present. Wind risk is moderate to high.</p>

<p>Silvicultural Objective/Desired Future Condition: Maintain or create a stand with three or more distinct age (size) classes of trees that maintains species diversity, provides for a high degree of structural diversity and meets Forest Plan scenery requirements.</p>

<p>Silvicultural Prescription: Uneven-aged management – Single tree selection. Designate up to 40 percent of existing basal (271 sq.ft.per acre) area singly and/or in small clumps to facilitate helicopter yarding. To offset the wind risk on the ridge top in the center of the unit decrease the basal area removed to 25% and target the tallest trees for removal. Refer to the intro to unit cards, marking guidelines and detailed RX for more information.</p>

<p>TIMBER/LOGGING: Refer to Silvicultural RX and marking guides for single tree selection guidelines to facilitate helicopter yarding.</p>

<p>ENGINEERING/ROADS: N/A</p>

<p>BOTANY RESOURCES: No concerns</p>

<p>FISH/WATERSHED: Concern: Streams 6 (upper), 7, 8, and 9 are Class IV HC channels. Response: Category C protection (BMP 12.6, 13.14). Remove logging debris from channel (BMP 13.16). Concern: Stream 6 (lower) and 7 are Class III HC channels. Response: Category B protection and no harvest within v-notch (RIP-III, BMP 13.16). Manage for windfirmness 120 feet beyond v-notch buffer.</p>
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<p>GEOLOGY/KARST: No carbonate bedrock found within unit. No karst resource concerns identified.</p>

<p>HERITAGE RESOURCES: No concerns</p>

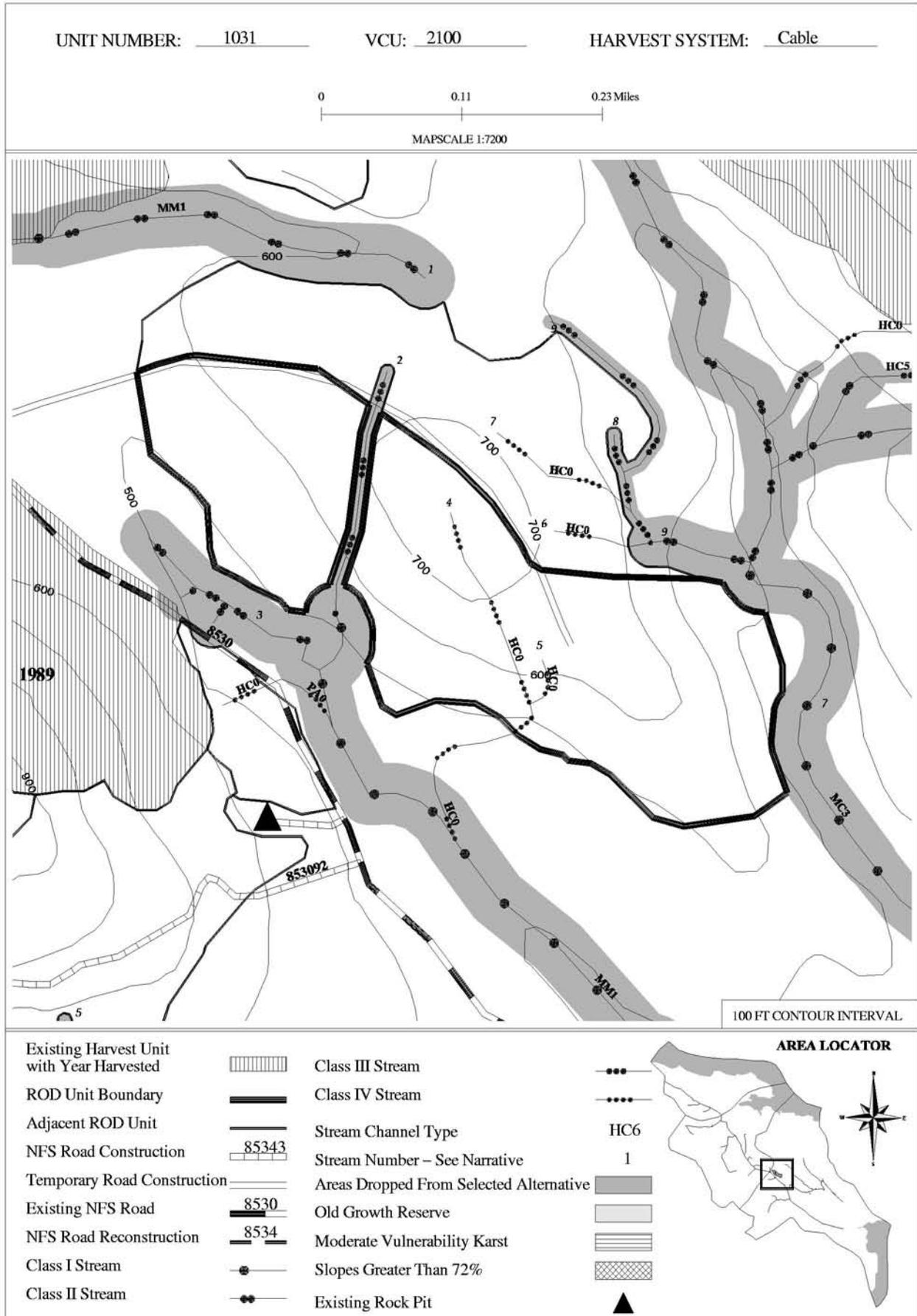
<p>SCENERY/RECREATION: No concerns</p>

<p>SOILS/WETLANDS: Slopes range from 5-90% in Unit 204. The gentle slopes are on the summit and on top of benches. There are about 8 acres of slopes greater than 72% in the unit. Most of the soils are well drained over bedrock at steep slopes without any signs of instability. There is a low risk of landslides entering streams. Concern: Timber harvest may accelerate landsliding on slopes over 80% gradient.</p>
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<p>Response: Avoid slopes greater than 80% when choosing stands or trees for the proposed helicopter prescription. (BMP 13.5) The rest of the unit is suitable for the proposed helicopter with a minimum of partial suspension to meet soil quality standards. (BMP 13.9) Concern: here is about 1 acres of wetland in this unit. Response: Helicopter logging will protect wetlands and meet resource objectives (BMP 12.5). An onsite analysis for suitability on slopes over 72% was conducted on this unit as per Forest Plan Standards (soil resource report).</p>

<p>WILDLIFE: Concern: Bear den located in southeast portion of unit, just north of managed stands and above the 1200 foot contour. Response: Maintain a 200-foot forested buffer around den sites.</p>
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IYOUKTUG TIMBER SALES RECORD OF DECISION
HARVEST UNIT MAP



Unit Data Card – Iyouktug Timber Sales ROD - Selected Alternative

Unit Number:	1031	Selected Alternative		Total Unit Acres:	54.3	Vol Strata Acres:	High: 0.5 Med: 48.0 Low: 5.8
VCU Number:	2100	Harvest System:	C	Net Estimated Harvest Volume (MBF):	1,168	Prescription/ Percent Retention:	CC

Summary of Concerns, Responses, BMPs and Mitigation

SILVICULTURE:

Existing Stand Condition/Vegetation: Stand is comprised of 9-30" DBH western hemlock (39% BA), 9-30" DBH mountain hemlock (33% BA) 9-20" DBH yellow-cedar (25% BA), and a minor component of spruce (3%). Much of the spruce is dead and non-salvable. The majority of trees are in the 9-16" diameter classes. There is significant advanced regeneration of western hemlock and yellow-cedar. Wind risk is estimated to be moderate to high over the entire unit.

Silvicultural Objective/Desired Future Condition: Create an even-aged managed stand of the same species composition as the original stand that meets Forest Plan scenery requirements, uses an economical regeneration method and is windfirm, free of mistletoe infection and growing at full site potential.

Silvicultural Prescription: Even-aged management – clearcut: This unit contains stream buffers with RAW zones (refer to fish/watershed section). For RAW zone retain trees less than 16" DBH within specified distance from windward (southeasterly) edge of stream buffers to minimize windthrow in buffer.

TIMBER/LOGGING: This unit is comprised of three cable settings. The western-most setting accesses the area west of stream #2, a class III stream that requires split yarding. The other two settings access the remaining area and are defined by a logical setting break based on topography and lateral yarding capabilities.

ENGINEERING/ROADS: Temporary road 103A accesses unit from existing Road 853091. Road location will be flagged by USFS prior to construction.

BOTANY RESOURCES: No concerns

FISH/WATERSHED: Concern: Stream 1 is Class II MM channel type. **Response:** Category A protection (BMP 12.6, 13.14). No harvest within 120 feet of channel (RIP III). **Concern:** Streams 2, 8 and the upper portion of 9 are Class II HC channel type. **Response:** Category B protection (BMP 12.6, 13.14). No harvest within v-notch (RIP III). **Concern:** Stream 3 is a Class II PA and HC channel types. **Response:** Category A protection for both (BMP 12.6, 13.14). For the PA channel type, No harvest within 100 feet of channel (RIP III). For the HC channel type, No harvest within 100 feet and side-slope break (RIP III). **Concern:** Streams 4, 5, 6 and 7 are class IV HC channel types. **Response:** Category C protection (BMP 12.6, 13.14). Remove logging debris from channel (BMP 13.16). **Concern:** The lower portion of stream 9 is Class II HC channel type. **Response:** Category A protection (BMP 12.6, 13.14). No harvest within 100 feet and side-slope break (RIP III). **Concern:** Windthrow risk is moderate to high. **Response:** Manage for windfirmness 120 feet beyond no-cut buffers. **Concern:** Temporary road – stream crossings. **Response:** Crossing structures and locations will be approved by USFS prior to construction. Upon completion of unit harvest, restore natural drainage patterns by removing road fill from channels and installing water bars as necessary (BMP 13.16). Seed and fertilize disturbed soil adjacent to streams (BMP 12.17).

GEOLOGY/KARST: No carbonate bedrock found within unit. No karst resource concerns identified.

HERITAGE RESOURCES: No concerns

SCENERY/RECREATION: No concerns

Summary of Concerns, Responses, BMPs and Mitigation

SOILS/WETLANDS: Slopes range from 25-65%. A minimum of partial suspension is required to meet soil quality standards. (BMP 13.9) **Concern:** The proposed temporary road crosses open muskeg between the intersection with 853091 and the unit. Avoiding these wetland is not practicable. There are no high value wetlands in the area. **Response:** Provide adequate cross drainage to allow hillslope flow. Remove all structures after the unit is harvested. (BMP 14.9) (33 CFR BMPs 4, 5, 6)

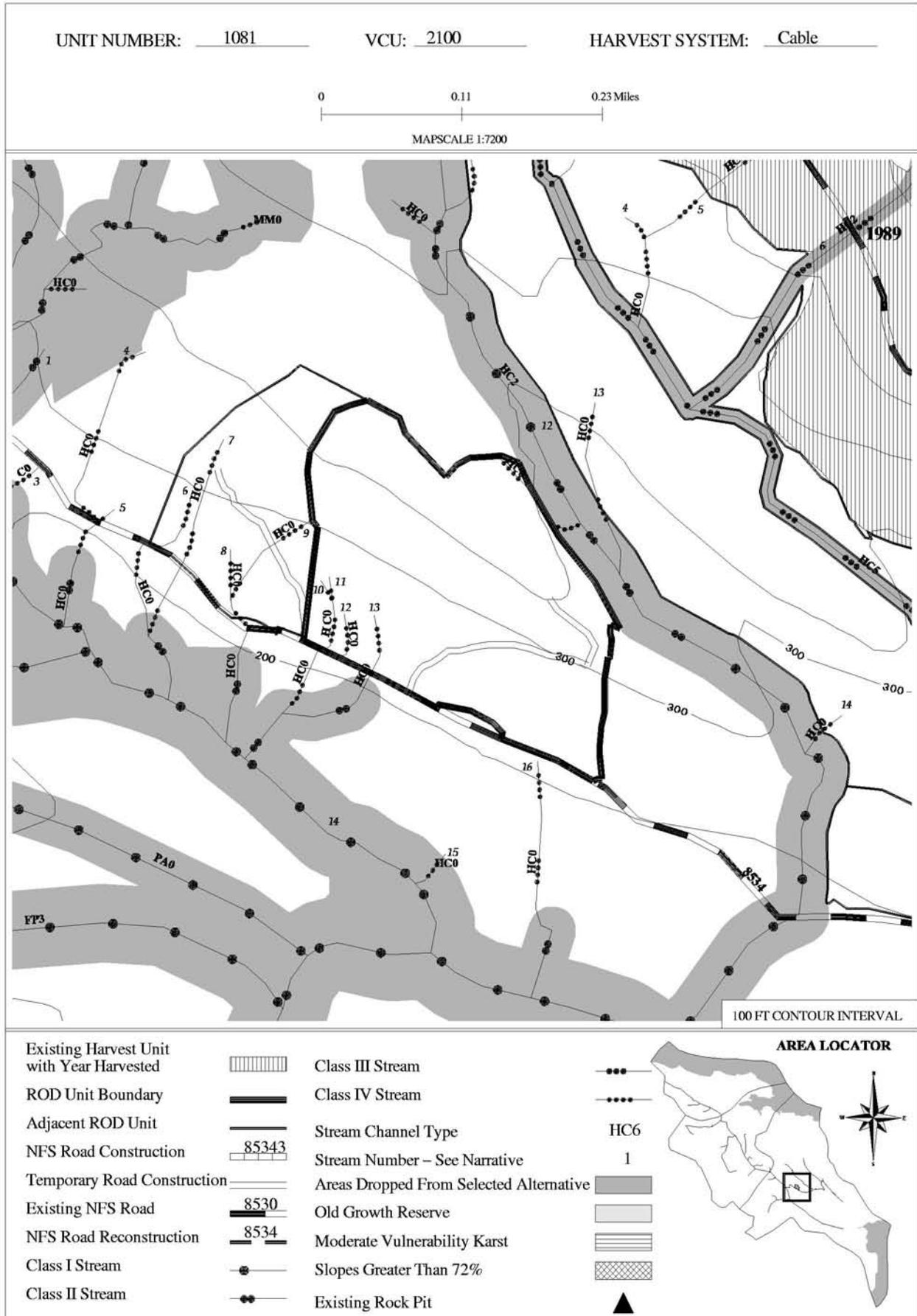
WILDLIFE: Concern: Vancouver Canada geese observed in units. **Response:** No design elements or mitigation required to meet Forest Plan standards and guidelines.

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Unit Data Card – Iyouktug Timber Sales ROD - Selected Alternative					
Unit Number:	1051	Selected Alternative	Total Unit Acres:	7.5	Vol Strata Acres: High: 2.1 Med: 5.4 Low: 0
VCU Number:	2100	Harvest System:	C	Net Estimated Harvest Volume (MBF):	176 Prescription /Percent Retention: CC

Summary of Concerns, Responses, BMPs and Mitigation	
<p>SILVICULTURE: Existing Stand Condition/Vegetation: Stand consists of 16-28" DBH western hemlock, mountain hemlock and spruce each representing approximately 30% of the BA and small amount of 12-16" DBH yellow-cedar (10% BA). Western hemlock advanced regeneration is common with some spruce and yellow-cedar also present. Wind risk is moderate to high. Silvicultural Objective/Desired Future Condition: Create an even-aged managed stand of the same species composition as the original stand that meets Forest Plan scenery requirements, uses an economical regeneration method and is windfirm, free of mistletoe infection and growing at full site potential. Silvicultural Prescription: Even-aged management – clearcut: This unit includes stream buffers with RAW zones. For RAW zone retain trees less than 16" DBH within specified distance (refer to fish/watershed section) from windward (southeasterly) edge of stream buffers to minimize windthrow in buffer.</p>	
<p>TIMBER/LOGGING: This unit is comprised of one cable setting.</p>	
<p>ENGINEERING/ROADS: N/A</p>	
<p>BOTANY RESOURCES: No concerns</p>	
<p>FISH/WATERSHED: Concern: The upper part of stream 9 is Class II HC channel type. Response: Category A protection (BMP 12.6, 13.14). No harvest within 100 feet and side-slope break (RIP III). Concern: The lower part of stream 9 is class II PA channel Type. Response: Category A protection (BMP 12.6, 13.14). No harvest within 100 feet of channel (RIP III). Concern: Stream 10 is Class IV HC Channel Type. Response: Category C protection (BMP 12.6, 13.14). Remove logging debris from channel (BMP 13.16) Concern: Windthrow risk is moderate to high. Response: Manage for windfirmness 120 feet beyond no-cut buffers.</p>	
<p>GEOLOGY/KARST: No carbonate bedrock found within unit. No karst resource concerns identified.</p>	
<p>HERITAGE RESOURCES: No concerns</p>	
<p>SCENERY/RECREATION: No concerns</p>	
<p>SOILS/WETLANDS: Slopes range from 45-65% in Unit 1051. A minimum of partial suspension is required to meet soil quality standards. (BMP 13.9)</p>	
<p>WILDLIFE: Concern: South boundary is adjacent to goshawk nest buffer. Response: Ensure unit boundary does not enter nest buffer. If a goshawk nest is identified in or adjacent to the unit, contact the project biologist; follow Forest Plan direction for the development of the nest buffer.</p>	

IYOUKTUG TIMBER SALES RECORD OF DECISION
HARVEST UNIT MAP



Unit Data Card – Iyouktug Timber Sales ROD - Selected Alternative

Unit Number:	1081	Selected Alternative		Total Unit Acres:	30.0	Vol Strata Acres:	High: 0 Med: 0.1 Low: 29.9
VCU Number:	2100	Harvest System:	C	Net Estimated Harvest Volume (MBF):	435	Prescription /Percent Retention:	CC

Summary of Concerns, Responses, BMPs and Mitigation

SILVICULTURE:

Existing Stand Condition/Vegetation: Stand consists of 9-32" DBH mountain hemlock (47% BA), 9-24" DBH western hemlock (35% BA), and 16-28" DBH yellow-cedar (17% BA). Western hemlock advanced regeneration is common with some spruce and yellow-cedar also present. Wind risk is high.

Silvicultural Objective/Desired Future Condition: Create an even-aged managed stand of the same species composition as the original stand that meets Forest Plan scenery requirements, uses an economical regeneration method and is windfirm, free of mistletoe infection and growing at full site potential.

Silvicultural Prescription: Even-aged management – clearcut: This unit includes stream buffers.

TIMBER/LOGGING: This unit is comprised of two cable settings that are defined by a logical setting break based on topography and lateral yarding capabilities.

ENGINEERING/ROADS: Temporary road 8 accesses unit from existing Road 8534. Road location has been flagged. Deviations to flagged route must be approved by USFS prior to construction.

BOTANY RESOURCES: Numerous rare plant populations; largely low-volume open forested wetland habitat. **Response:** Don't harvest the SW corner of Unit 1081, from the entry point of Temp Rd. 8 running NW above the large muskeg in Unit 108.

FISH/WATERSHED: Concern: Streams 10, 11, 12, and 13 are Class IV HC channels. **Response:** Category C protection (BMP 12.6, 13.14). Remove logging debris from channel (BMP 13.16). **Concern:** Temporary road – stream crossings **Response:** crossing structures and locations will be approved by USFS prior to construction. Upon completion of unit harvest, restore natural drainage patterns by removing road fill from channels and installing water bars as necessary (BMP 13.16). Seed and fertilize disturbed soil adjacent to streams (BMP 12.17).

GEOLOGY/KARST: No carbonate bedrock found within unit. No karst resource concerns identified.

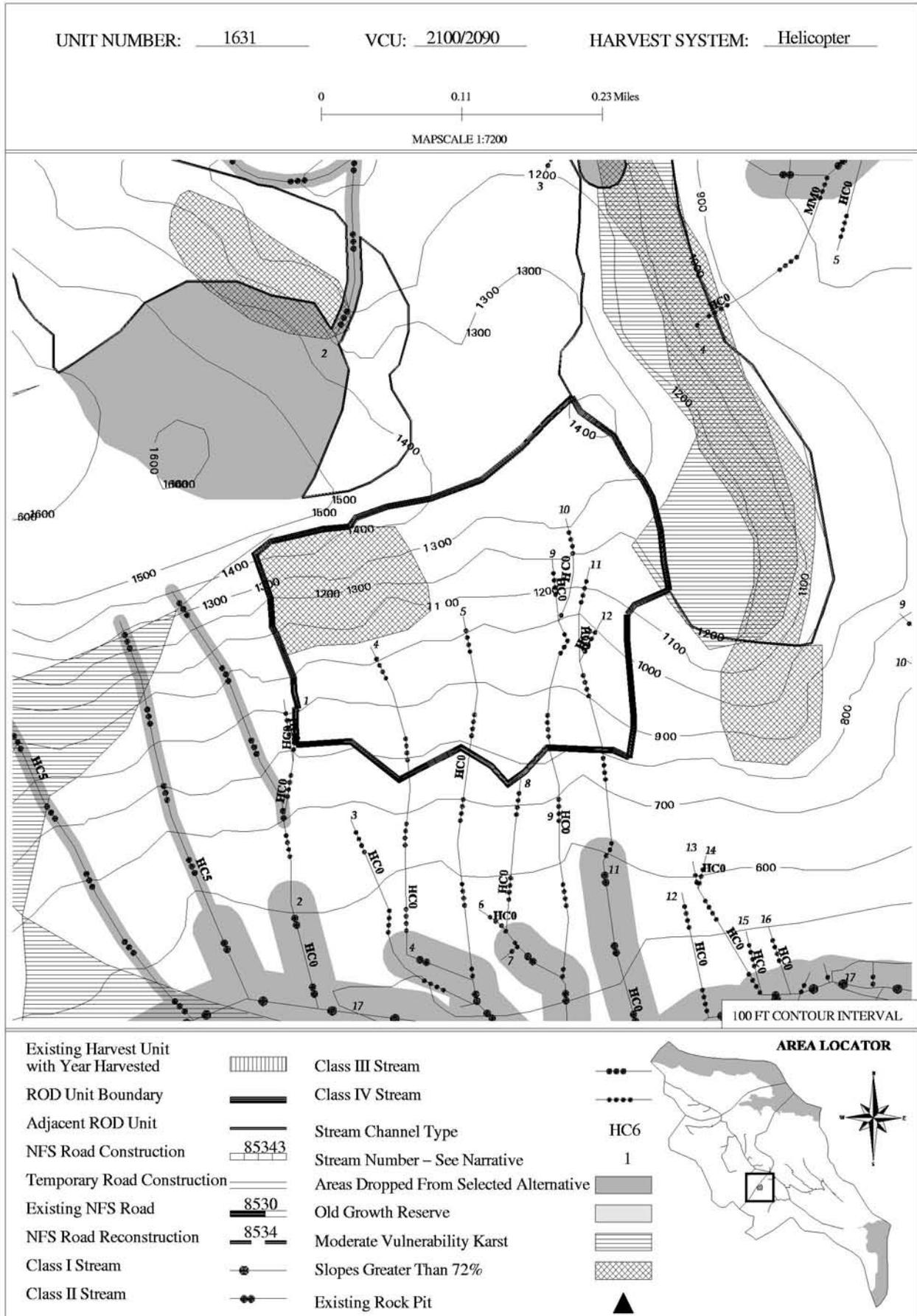
HERITAGE RESOURCES: No concerns

SCENERY/RECREATION: No concerns

SOILS/WETLANDS: Slopes range from 35-65% in Unit 1081. A minimum of partial suspension is required to meet soil quality standards. (BMP 13.9)

WILDLIFE: Concern: Goshawk observed adjacent to the unit. Surveys did not identify a nest site. **Response:** Goshawk is likely associated with identified nest site. If a goshawk nest is identified in or adjacent to the unit, contact the project biologist; follow Forest Plan direction for the development of the nest buffer. **Concern:** Red-tailed hawk was observed around unit. **Response:** Maintain a 600-foot no-harvest buffer that is windfirm around active raptor nest sites if identified and restrict harvest and road building activities from March 1 to July 31 within the buffer.

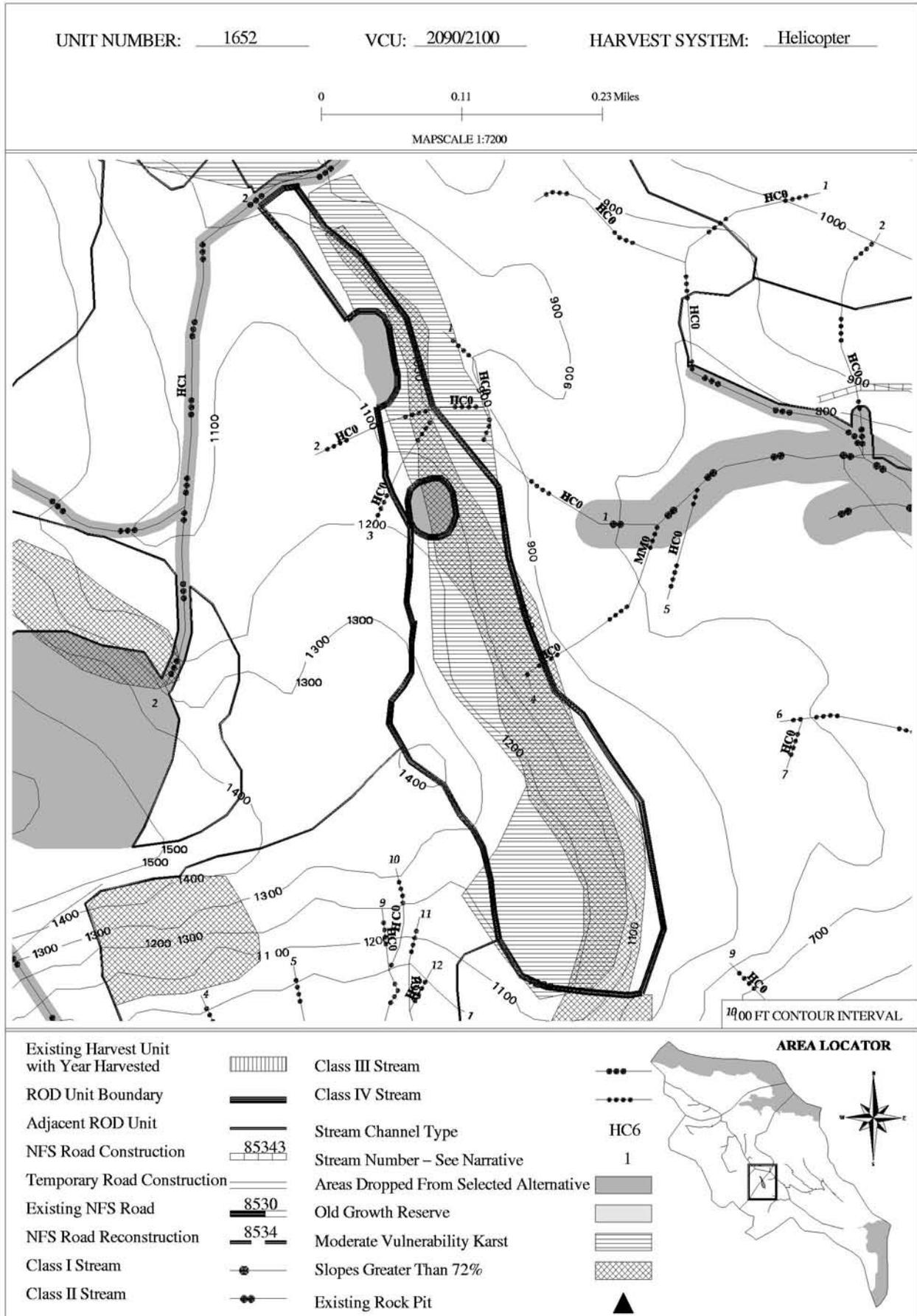
IYOUKTUG TIMBER SALES RECORD OF DECISION
HARVEST UNIT MAP



Unit Data Card – Iyouktug Timber Sales ROD - Selected Alternative					
Unit Number:	1631	Selected Alternative	Total Unit Acres:	41.6	Vol Strata Acres: High: 5.4 Med: 35.4 Low: 0.8
VCU Number:	2100	Harvest System:	HE	Net Estimated Harvest Volume (MBF):	522
				Prescription /Percent Retention:	ST40

Summary of Concerns, Responses, BMPs and Mitigation
<p>SILVICULTURE:</p> <p>Existing Stand Condition/Vegetation: Stand consists of 9-42" DBH western hemlock (70% BA), 12-39" DBH spruce (25% BA), and 9-12" DBH yellow-cedar (3% BA) and 9-12" DBH mountain hemlock (2-3% BA). Western hemlock and yellow-cedar advanced regeneration is moderately abundant with some spruce also present. Wind risk is moderate to high.</p> <p>Silvicultural Objective/Desired Future Condition: Maintain or create a stand with three or more distinct age (size) classes of trees that maintains species diversity, provides for a high degree of structural diversity and meets Forest Plan scenery requirements.</p> <p>Silvicultural Prescription: Uneven-aged management – Single tree selection. Designate up to 40 percent of existing basal (350 sq.ft.per acre) area singly and/or in small clumps to facilitate helicopter yarding. Refer to the intro to unit cards, marking guidelines and detailed RX for more information.</p>
<p>TIMBER/LOGGING: Refer to Silvicultural RX and marking guides for single tree selection guidelines to facilitate helicopter yarding.</p>
<p>ENGINEERING/ROADS: N/A</p>
<p>BOTANY RESOURCES: No concerns</p>
<p>FISH/WATERSHED: Concern: Stream 1, 4, 5, 9, 10, and 12 are Class IV HC channels. Response: Category C protection (BMP 12.6, 13.14). Remove logging debris from channel (BMP 13.16). Concern: Stream 11 is a Class IV HC channel with unstable side-slopes that runs into a fish stream. Response: Category B protection with split yard to protect side-slopes. (BMP 13.16, RIP III). Concern: Temporary road – stream crossings Response: crossing structures and locations will be approved by USFS prior to construction. Upon completion of unit harvest, restore natural drainage patterns by removing road fill from channels and installing water bars as necessary (BMP 13.16). Seed and fertilize disturbed soil adjacent to streams (BMP 12.17)</p>
<p>GEOLOGY/KARST: Concern: There is less than 1 acre of moderate vulnerability karst along the eastern boundary of Unit 1631. Response: A minimum of partial suspension is required to meet karst resource objectives (BMP 13.9).</p>
<p>HERITAGE RESOURCES: No concerns</p>
<p>SCENERY/RECREATION: No concerns</p>
<p>SOILS/WETLANDS: Slopes range from 40-90% in Unit 1631. Concern: There are about 7 acres of slopes greater than 72% in Unit 1631. The poorly drained soils on smooth slopes indicate a high risk for landslides. Response: Avoid this portion of Unit 1631 as any landslides would enter a live stream (BMP 13.5 and 13.9). The rest of 1631 is suitable for the proposed helicopter harvest. Area to the west of Unit 1631 dropped for stability concerns. An onsite analysis for suitability on slopes over 72% was conducted on this unit as per Forest Plan Standards (soil resource report).</p>
<p>WILDLIFE: Concern: Goshawk observed adjacent to the unit. Surveys did not identify a nest site. Response: Goshawk is likely associated with identified nest site. If a goshawk nest is identified in or adjacent to the unit, contact the project biologist; follow Forest Plan direction for the development of the nest buffer.</p>

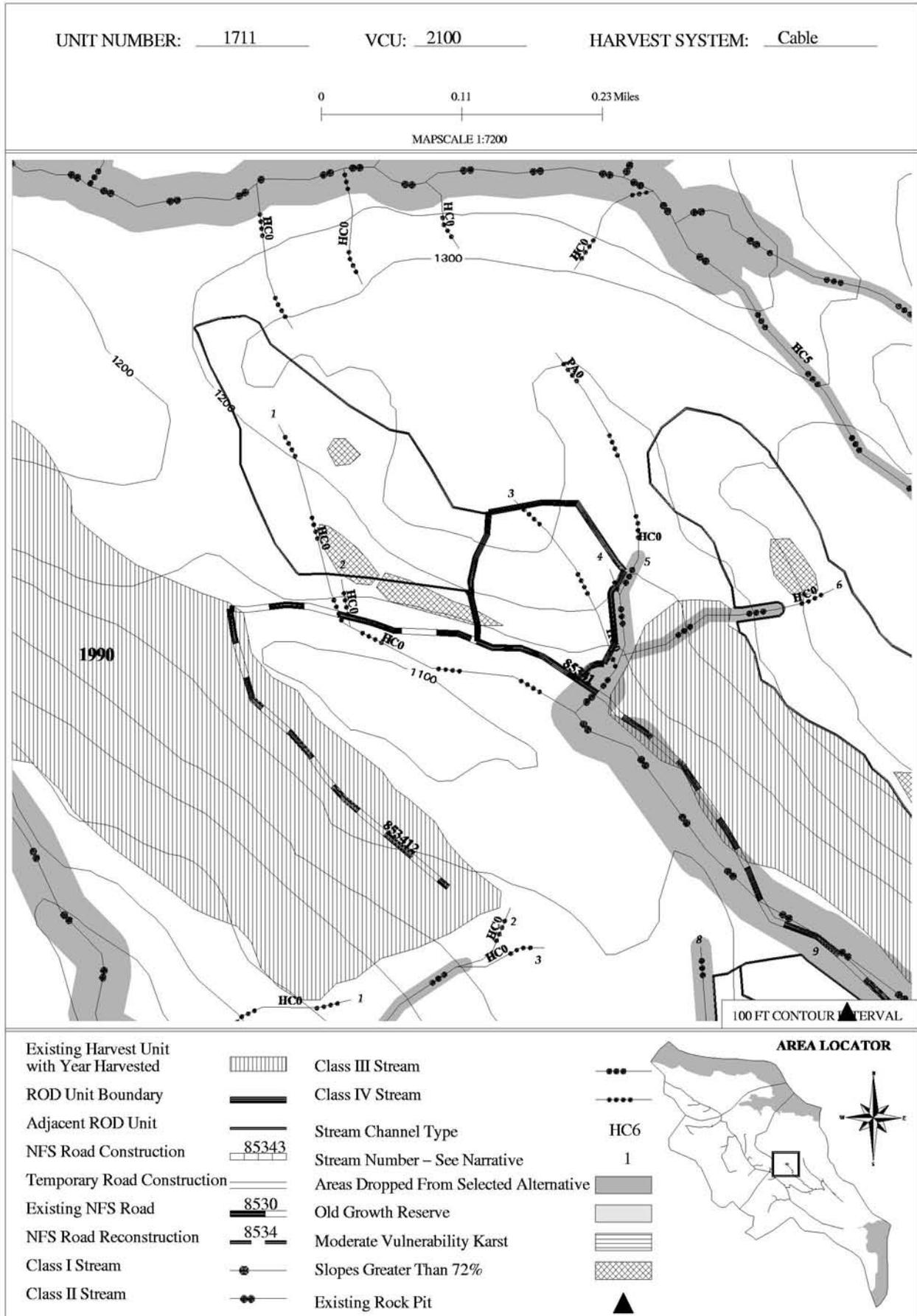
IYOUKTUG TIMBER SALES RECORD OF DECISION
HARVEST UNIT MAP



Unit Data Card – Iyouktug Timber Sales ROD - Selected Alternative					
Unit Number:	1652	Selected Alternative	Total Unit Acres:	36.3	Vol Strata Acres: High: 0 Med: 34.1 Low: 2.2
VCU Number:	2100	Harvest System:	HE	Net Estimated Harvest Volume (MBF):	427
				Prescription /Percent Retention:	ST40

Summary of Concerns, Responses, BMPs and Mitigation
<p>SILVICULTURE:</p> <p>Existing Stand Condition/Vegetation: Stand consists of 12-48" DBH spruce (41% BA), 9-28" DBH western hemlock (37% BA), 12-28" DBH mountain hemlock (22% BA). There is a considerable amount of windthrow near the top of the ridge on the western side of the unit. Western hemlock and spruce advanced regeneration is present but not abundant. Wind risk is moderate to high on the western side.</p> <p>Silvicultural Objective/Desired Future Condition: Maintain or create a stand with three or more distinct age (size) classes of trees that maintains species diversity, provides for a high degree of structural diversity and meets Forest Plan scenery requirements.</p> <p>Silvicultural Prescription: Uneven-aged management – Single tree selection. Designate up to 40 percent of existing basal (250 sq.ft.per acre) area singly and/or in small clumps to facilitate helicopter yarding. To offset the wind risk on the ridge top in the center of the unit decrease the basal area removed to 25% and target the tallest trees for removal. Refer to the intro to unit cards, marking guidelines and detailed RX for more information.</p>
<p>TIMBER/LOGGING: Refer to Silvicultural RX and marking guides for single tree selection guidelines to facilitate helicopter yarding.</p>
<p>ENGINEERING/ROADS: N/A</p>
<p>BOTANY RESOURCES: No concerns</p>
<p>FISH/WATERSHED: Concern: Northern boundary stream is a Class III HC channel. Response: Locate unit boundary south of v-notch and manage for windfirmness within 120 feet of v-notch (BMP 13.16, RIP-III). Concern: Streams 2, 3, and 4 are Class IV HC channels. Response: Category C protection (BMP 12.6, 13.14). Remove logging debris from channel (BMP 13.16).</p>
<p>GEOLOGY/KARST: Concern: There are 4 karst features and 24 acres of moderate vulnerability karst in Unit 1652. Response: The features and their 100 foot no-harvest buffer in the west of Unit 1652 are excluded from the unit and a minimum of partial suspension is require to meet karst resource objectives in the moderate vulnerability area. (BMP 13.2 and 13.9)</p>
<p>HERITAGE RESOURCES: No concerns</p>
<p>SCENERY/RECREATION: No concerns</p>
<p>SOILS/WETLANDS: Slopes range from 50-120% in Unit 1652. Concern: There are about 17 acres of slopes over 72%. The southern 3/4 of this steep area is made up of devil's club and alder- covered cliffs. The soils are shallow over bedrock and are easily disturbed by timber harvest. Response: Avoid the areas greater than 72% along the eastern boundary of the unit. The rest of Unit 1652 is suitable for the proposed helicopter harvest (BM 13.5, 13.9). An onsite analysis was conducted on this unit as per Forest Plan Standards (soil resource report).</p>
<p>WILDLIFE: Concern: Goshawk observed adjacent to the unit. Surveys did not identify a nest site. Response: Goshawk is likely associated with identified nest site. If a goshawk nest is identified in or adjacent to the unit, contact the project biologist; follow Forest Plan direction for the development of the nest buffer.</p>

IYOUKTUG TIMBER SALES RECORD OF DECISION
HARVEST UNIT MAP



Unit Data Card – Iyouktug Timber Sales ROD - Selected Alternative
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Unit Number:	1711	Selected Alternative		Total Unit Acres:	8.2	Vol Strata Acres:	High: 2.3 Med: 3.9 Low: 2.0
VCU Number:	2100	Harvest System:	C	Net Estimated Harvest Volume (MBF):	176	Prescription /Percent Retention:	CC

Summary of Concerns, Responses, BMPs and Mitigation
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SILVICULTURE:

Existing Stand Condition/Vegetation: Stand consists primarily of 24-36" DBH western hemlock (56% B) and 24-48" DBH spruce (44% BA), both of larger diameter. Wind risk is moderate to high.

Silvicultural Objective/Desired Future Condition: Create an even-aged managed stand of the same species composition as the original stand that meets Forest Plan scenery requirements, uses an economical regeneration method, and is windfirm, free of mistletoe infection and growing at full site potential.

Silvicultural Prescription: Even-aged management – clearcut: This unit includes stream buffers with RAW zones. For RAW zone retain trees less than 16" DBH within specified distance (refer to fish/watershed section) from windward (southeasterly) edge of stream buffers to minimize windthrow in buffer.

TIMBER/LOGGING: This unit is comprised of one cable setting.

ENGINEERING/ROADS: N/A

BOTANY RESOURCES: No concerns

FISH/WATERSHED: Concern: Streams 3 and 4 are Class IV HC channels. **Response:** Category C protection (BMP 12.6, 13.14). Remove logging debris from channel (BMP 13.16). **Concern:** Stream 5 is a Class III HC channel. **Response:** Category B protection (BMP 12.6, 13.14). No harvest within v-notch (RIP III). **Concern:** Lower part of Stream 5 is a Class II HC channel. **Response:** Category A protection (BMP 12.6, 13.14). No harvest within 100 feet and side-slope break (RIP III). **Concern:** Windthrow risk is moderate to high. **Response:** Manage for windfirmness 120 feet beyond no-cut buffers.

GEOLOGY/KARST: No carbonate bedrock found within unit. No karst resource concerns identified.

HERITAGE RESOURCES: No concerns

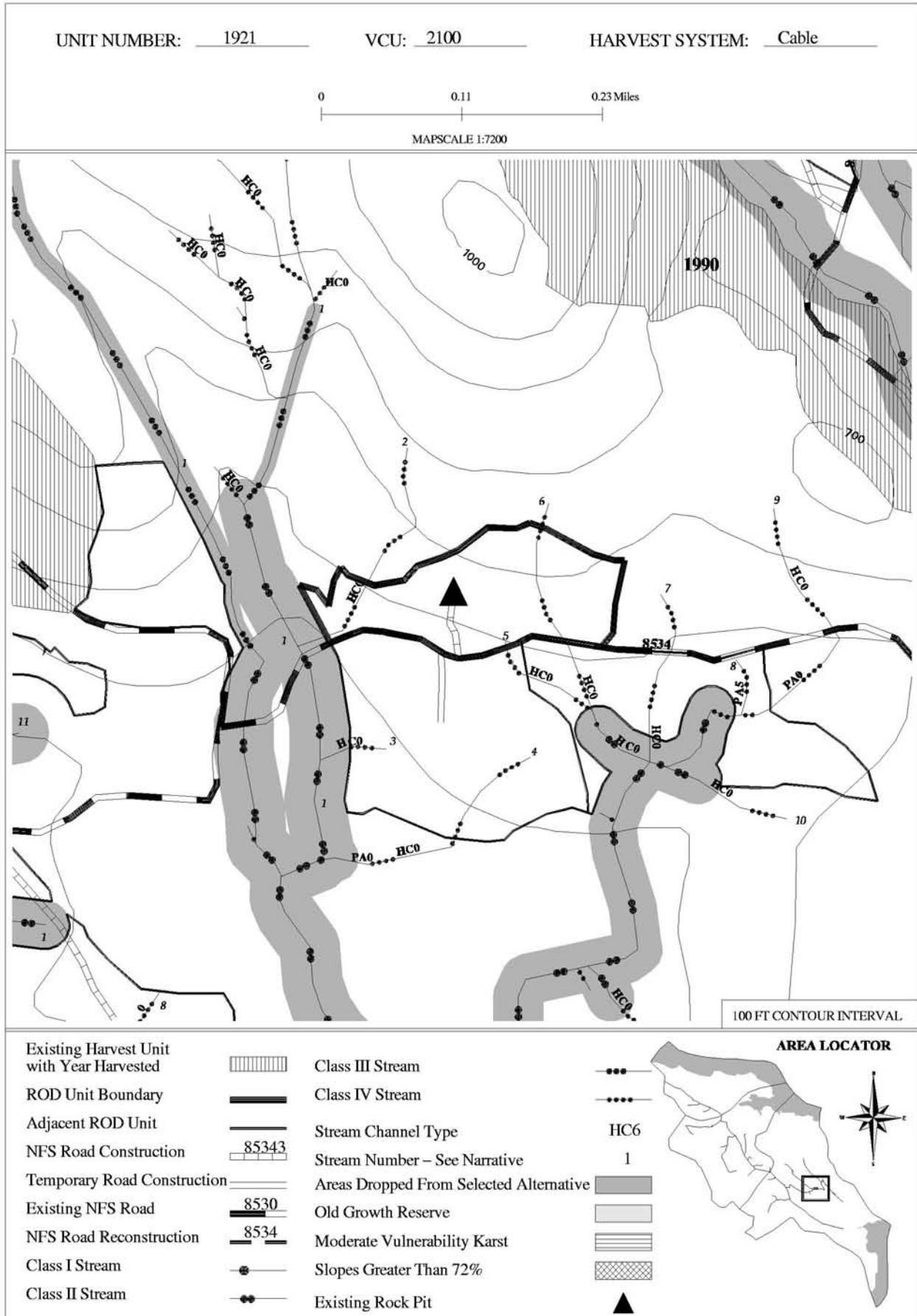
SCENERY/RECREATION: No concerns

SOILS/WETLANDS: Slopes range from 35-65% in Unit 1711. A minimum of partial suspension is required to meet soil quality standards. (BMP 13.9)

WILDLIFE: Concern: Goshawk observed around the unit. Surveys did not identify a nest site.

Response: Goshawk is likely associated with identified nest site. If a goshawk nest is identified in or adjacent to the unit, contact the project biologist; follow Forest Plan direction for the development of the nest buffer.

IYOUKTUG TIMBER SALES RECORD OF DECISION
HARVEST UNIT MAP



Unit Data Card – Iyouktug Timber Sales ROD - Selected Alternative					
Unit Number:	1921	Selected Alternative	Total Unit Acres:	10.8	Vol Strata Acres: High: 2.9 Med: 7.6 Low: 0.3
VCU Number:	2100	Harvest System:	Net Estimated Harvest Volume (MBF):	252	Prescription /Percent Retention: CC

Summary of Concerns, Responses, BMPs and Mitigation
<p>SILVICULTURE: Existing Stand Condition/Vegetation: Stand consists predominantly of average diameter 10-30" DBH western hemlock (82% BA) and larger 22-26" DBH spruce (19% BA). Soils are well drained and slopes are relatively gentle. Western hemlock advanced regeneration is abundant with some spruce also present. Wind risk is moderate to high. Silvicultural Objective/Desired Future Condition: Create an even-aged managed stand of the same species composition as the original stand that meets Forest Plan scenery requirements, uses an economical regeneration method, and is windfirm, free of mistletoe infection and growing at full site potential. Silvicultural Prescription: Even-aged management – clearcut: This unit is bounded on the west by a stream buffer with a RAW zone. For RAW zone retain trees less than 16" DBH within specified distance (refer to fish/watershed section) from windward (southeasterly) edge of stream buffers to minimize windthrow in buffer.</p>
<p>TIMBER/LOGGING: This unit is comprised of two cable settings that are defined by a logical setting break based on topography and lateral yarding capabilities.</p>
<p>ENGINEERING/ROADS: N/A</p>
<p>BOTANY RESOURCES: No concerns</p>
<p>FISH/WATERSHED: Concern: Stream 1 is a Class II MM1 on the western side of unit. Response: Category A protection (BMP 12.6, 13.14). No harvest within 120 feet of channel (RIP III). Manage for windfirmness 120 feet beyond no-cut buffer. Concern: Stream 2, 5, and 6 are Class IV HC channels. Response: Category C protection (BMP 12.6, 13.14). Remove logging debris from channel (BMP 13.16).</p>
<p>GEOLOGY/KARST: No carbonate bedrock found within unit. No karst resource concerns identified.</p>
<p>HERITAGE RESOURCES: No concerns</p>
<p>SCENERY/RECREATION: No concerns</p>
<p>SOILS/WETLANDS: Slopes range from 25-55% slope in Unit 1921. A minimum of partial suspension is required to meet soil quality standards. (BMP 13.9)</p>
<p>WILDLIFE: Concern: High deer use observed throughout unit. Response: No design elements or mitigation required to meet Forest Plan standards and guidelines.</p>

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