



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Schmeagle Hill
Sale TL-341-2024-W00961-01

District: Tillamook

Date: July 27, 2023

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$2,034,491.16	\$178,157.14	\$2,212,648.30
		Project Work:	(\$465,230.00)
		Advertised Value:	\$1,747,418.30



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Schmeagle Hill
Sale TL-341-2024-W00961-01

District: Tillamook

Date: July 27, 2023

Timber Description

Location:

Stand Stocking: 60%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	17	0	100
Alder (Red)	15	0	100

Volume by Grade	2S	3S & 4S 6"-11"	8" - 9"	10" - 11"	12"+	6" - 7"	Total
Douglas - Fir	2,687	3,250	0	0	0	0	5,937
Alder (Red)	0	0	261	400	528	510	1,699
Total	2,687	3,250	261	400	528	510	7,636

Comments:

Additional Costs – Schmeagle Hill

Pond Values Used: June 2023

Region: Astoria, Forest Grove, and Tillamook

Western red cedar and other cedars stumpage price = \$1,214/MBF - \$411.00/MBF = \$803.00/MBF Hemlock

and other conifer stumpage price = \$577/MBF - \$411.00/MBF = \$166.00/MBF

Pulp (Conifer and Hardwood) Price = \$2.50/Ton

FUEL COST ALLOWANCE = \$5.00/Gallon

HAULING COST ALLOWANCE (\$120.00/hr x 10 hr. = \$ 1,200.00) = \$1,200/DAY

BRAND AND PAINT ALLOWANCE = \$2.00/ MBF

Other costs with profit and risk added:

Heliport Construction: \$500/unit x 4 unit = \$2,000

Move-in Machine Cleaning: \$1,000/machine x 4 machines x 2 season = \$8,000

Non-Project and Unsurfaced Road Blocking: 5 Closures @ \$50/Closure = \$250

TOTAL Other Costs with profit and risk to be added = \$10,250

Other Costs without Profit and Risk Added:

Slash piling and sorting (Cable Settings): \$5/ac x 260 ac. = \$1,300

Ditch Cleaning and Bank Sluff Removal:

Mobilization: two times – dump truck w/ tilt bed & small excavator: \$1,030 x 2 = \$2,060

Small excavator (Cat 312 or equivalent): 40 hours @ \$225/ hour = \$9,000

Dump truck: 40 hours @ \$90/ hour = \$3,600

TOTAL Other Costs without Profit and Risk added = \$15,960

ODF Road Maintenance

Spot Rocking: 20cy/MMBF/mile x 7.636MMBF x \$9/cy x 7 miles /7,636 MBF = \$1.26/MBF

Interim Grading: \$1,150/mile x 7 miles x 2 times/ 7,636 MBF = \$2.11/MBF

Final Maintenance Grading: \$1,500/mile x 7 miles/ 7,636 MBF = \$1.38/MBF

Final Maintenance Compaction: \$900/mile x 3 miles/7,636 MBF = \$0.35/MBF

Total Road Maintenance: = \$5.10/MBF



Timber Sale Appraisal
Schmeagle Hill
Sale TL-341-2024-W00961-01

District: Tillamook

Date: July 27, 2023

Logging Conditions

Combination#: 1	Douglas - Fir	13.41%	
	Alder (Red)	13.97%	
Logging System:	Shovel		Process: Harvester Head Delimiting
yarding distance:	Medium (800 ft)		downhill yarding: No
tree size:	Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF		
loads / day:	17		bd. ft / load: 3800
cost / mbf:	\$116.10		
machines:	Forwarder Harvester		

Combination#: 2	Douglas - Fir	27.51%	
	Alder (Red)	22.82%	
Logging System:	Cable: Large Tower >=70		Process: Harvester Head Delimiting
yarding distance:	Short (400 ft)		downhill yarding: No
tree size:	Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF		
loads / day:	12		bd. ft / load: 3800
cost / mbf:	\$172.14		
machines:	Log Loader (A) Forwarder Harvester Tower Yarder (Large)		

Combination#: 3	Douglas - Fir	43.01%	
	Alder (Red)	47.02%	
Logging System:	Cable: Large Tower >=70		Process: Harvester Head Delimiting
yarding distance:	Medium (800 ft)		downhill yarding: No
tree size:	Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF		
loads / day:	9		bd. ft / load: 3800
cost / mbf:	\$229.53		
machines:	Log Loader (A) Forwarder Harvester Tower Yarder (Large)		

Combination#: 4	Douglas - Fir	16.08%	
	Alder (Red)	16.19%	
Logging System:	Cable: Large Tower >=70		Process: Harvester Head Delimiting
yarding distance:	Long (1,500 ft)		downhill yarding: No
tree size:	Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF		
loads / day:	6		bd. ft / load: 3800
cost / mbf:	\$344.29		
machines:	Log Loader (A) Forwarder Harvester Tower Yarder (Large)		



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Schmeagle Hill
Sale TL-341-2024-W00961-01

District: Tillamook

Date: July 27, 2023

Logging Costs

Operating Seasons: 2.00	Profit Risk: 10%
Project Costs: \$465,230.00	Other Costs (P/R): \$10,250.00
Slash Disposal: \$0.00	Other Costs: \$15,960.00

Miles of Road

Road Maintenance: \$5.10

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	0.0	0.0	0.0

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	2.0	4.3
Alder (Red)	\$0.00	2.0	4.3



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Schmeagle Hill
Sale TL-341-2024-W00961-01

District: Tillamook

Date: July 27, 2023

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$216.98	\$5.10	\$1.15	\$145.35	\$1.34	\$36.99	\$0.00	\$2.00	\$2.09	\$411.00
Alder (Red)									
\$219.18	\$5.10	\$1.15	\$145.35	\$1.34	\$37.21	\$0.00	\$2.00	\$2.09	\$413.42

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$753.68	\$342.68	\$0.00
Alder (Red)	\$0.00	\$518.28	\$104.86	\$0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Schmeagle Hill
Sale TL-341-2024-W00961-01

District: Tillamook

Date: July 27, 2023

Summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Alder (Red)	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	5,937	\$342.68	\$2,034,491.16
Alder (Red)	1,699	\$104.86	\$178,157.14

Gross Timber Sale Value

Recovery: \$2,212,648.30

Prepared By: Nathan Atchison

Phone: 503-815-7031



"STEWARDSHIP IN FORESTRY"

Schmeagle Hill

Volume Summary

Unit 1-Modified Clearcut				
19 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	19.98	380	2%	372
Hemlock		0	2%	0
Spruce		0	1%	0
Noble Fir		0	1%	0
Alder	3.18	60	2%	59
TOTAL	23.16	440.0		431

Unit 2-Modified Clearcut				
17 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	21.26	361	2%	354
Hemlock		0	2%	0
Spruce		0	1%	0
Noble Fir		0	1%	0
Alder	2.85	48	2%	47
TOTAL	24.11	409		401

Unit 3- Modified Clearcut				
86 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	20.33	1749	2%	1714
Hemlock		0	1%	0
Spruce		0	1%	0
Noble Fir		0	1%	0
Alder	5.66	487	2%	477
TOTAL	26.00	2236		2191



"STEWARDSHIP IN FORESTRY"

Schmeagle Hill

Volume Summary

Areas 4-Harvest Type				
68 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	18.9	1288	2%	1262
Hemlock		0	5%	0
Spruce		0	5%	0
Noble Fir		0	5%	0
Alder	8.1	553	2%	542
TOTAL	27.1	1841		1804

Areas 5-Harvest Type				
110 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	20.7	2281	2%	2235
Hemlock		0	5%	0
Spruce		0	5%	0
Noble Fir		0	5%	0
Alder	5.3	586	2%	574
TOTAL	26.1	2867		2809



"STEWARDSHIP IN FORESTRY"

Schmeagle Hill

Volume Summary

TOTAL SALE VOLUME		300	acres
SPECIES	Cruised Net (MBF)	Net Sale (MBF)	
Douglas-fir	6059	5937	
Hemlock	0	0	
Spruce	0	0	
Noble Fir	0	0	
Red Alder	1734	1699	
TOTAL	7793	7636	



OREGON DEPARTMENT OF FORESTRY CRUISE REPORT *Schmeagle Hill*

Type of Sale

Regeneration Harvest, Recovery

Legal Description

Section(s) 5, 6, 7, 8 of T2S R7W, Section(s) 31, 32 of T1S R7W W.M.

Sale Acreage

Sale acreage was determined by GPS and orthophotographs along with GIS.

	<u>ACRES</u>	
	<u>Gross</u>	<u>Net</u>
Unit 1 (Modified Clearcut)	29	19
Unit 2 (Modified Clearcut)	24	17
Unit 3 (Modified Clearcut)	114	86
Unit 4 (Modified Clearcut)	88	68
Unit 5 (Modified Clearcut)	158	110
Total	413	300

Gross Acres

Area within the Timber Sale Boundary signs

Net acres

Used for calculating the advertised volume.

Gross acres, less green tree retention, roads, Non-required thinning areas, and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

Cruising Procedures

A. Cruise Method

Timber sale units 1, 2, 3, 4, and 5 were cruised using variable plot sampling. All units were cruised by ODF Staff in February 2023. All conifers 8" DBH and greater containing 20 board feet and all hardwoods 10" DBH and greater containing 30 board feet were recorded on all plots. Species, DBH (to nearest inch), merchantable bole length (to nearest foot), form factor, and defect were recorded for all measure trees. Merchantable heights were recorded to 6" and 7" outside bark for conifers and hardwoods, respectively.

B. Plot size

Unit	BAF	Spacing
1	33.61	250 x 300
2	40.00	250 x 250
3	40.00	300 x 300

4	40.00	350 x 350
5	40.00	350 x 350

C. Grading System

All trees were graded according to Columbia River Log Scaling and Grading Rules. Log lengths favored 40' lengths.

Computation Procedure

Plot data was entered into SuperAce for computation of basal area, advertised volume, volume summary, log stock table, and stand table for each species and type.

Net sale acreage was used for volume calculation.

	Cruise Statistics (Board Foot Volumes)			
Unit	Acres	Number of Plots	SE (%)	CV (%)
1	19	10	14.6	44.0
2	17	13	11.4	39.6
3	86	23	10.0	46.8
4	68	25	9.1	44.8
5	110	31	10.9	60.9
Project Total	300	102	6.1	53.3

Hidden Defect and Breakage

A 2% reduction for conifers and a 2% reduction for hardwood volumes were applied for hidden defect and breakage.

Timber Description

Units 1, 2, 3, 4 and 5 are prescribed modified clearcuts. Unit 1 is a mixed Douglas-fir and red alder stand with no past management. Unit 2 is comprised of Douglas-fir and red alder with minor elements of mixed conifer, past management; thinned in 2008 with West Beagle TS. Unit 3 is a mixed Douglas-fir and red alder stand the east portion of the unit was thinned with West Beagle. Unit 4 is a Douglas-fir dominant stand with no past management. Unit 5 is a mixed Douglas-fir and red alder stand with no past management.

All five stands were burned in the 1933, 1939, and 1951 fires.

Sale Unit	Age	Species	DBH	Merchantable Bole Height (feet)	Merchantable top (inches inside bark)
1	58	Douglas-fir	19.4	61	5
		Red alder	15.2	39	6
2	62	Douglas-fir	15.9	68	5
		Red alder	12.9	37	6
3	65	Douglas-fir	16.4	72	5
		Red alder	14.3	47	6
4	58	Douglas-fir	16.4	71	5
		Red alder	15.1	61	6
5	60	Douglas-fir	18.5	78	5
		Red alder	14.7	47	6

Above data derived from Statistics (type) report using SuperAce 2008, developed by Atterbury consultants, Inc.

Cruiser /Dates

ODF Staff Cruised; March 2023.

Revenue Distribution

BOF – 100%

Tax Code: 901 (88%), 902 (12%)

Deed Numbers: 161, 169, 209, 231

Attachments

Volume Summary Table

Stand Table (3)

Log Stock Tables (3)

Species, Sort, Grade Table (3)

Logging Plan (1)

Stand and Log Stock Tables Species Key

DF – Douglas-fir take

WH – western hemlock leave

RA – red alder take

OC – Other Conifer



PROJECT SUMMARY SHEET

Sale: Schmeagle Hill

CONSTRUCTION

Point	A to B	0+70	stations =	\$337.71
Point	I to J	5+05	stations =	\$3,770.34
Point	K to L	7+05	stations =	\$4,201.64
Point	O to P	12+20	stations =	\$11,249.56
Point	Q to R	0+75	stations =	\$545.14
Point	S to T	3+10	stations =	\$7,644.05
Point	U to V	1+75	stations =	\$2,745.06
Point	Y to Z	11+20	stations =	\$50,250.96
Point	AA to BB	8+10	stations =	\$11,380.37
Point	CC to DD	2+10	stations =	\$4,815.38
Point	EE to FF	1+75	stations =	\$5,073.20
Point	GG to HH	4+15	stations =	\$11,295.37
Point	II to JJ	4+65	stations =	\$17,839.72
Point	KK to LL	5+70	stations =	\$11,578.91
Point	MM to NN	6+20	stations =	\$14,552.06
Point	OO to PP	5+45	stations =	\$10,515.81
Point	QQ to RR	1+70	stations =	\$4,707.01
SUBTOTAL CONSTRUCTION				\$172,502.29

IMPROVEMENT

Point	A to B	343+50	stations =	\$109,908.38
Point	E to F	92+10	stations =	\$10,958.05
Point	G to H	1+90	stations =	\$2,842.68
Point	Q to R	19+25	stations =	\$10,757.96
Point	S to T	1+10	stations =	\$2,494.61
Point	Point W	0+00	stations =	\$1,759.40
Point	Y to Z	38+55	stations =	\$23,037.04
Point	AA to BB	9+10	stations =	\$8,854.08
SUBTOTAL IMPROVEMENT				\$170,612.20

RECONSTRUCTION

Point	A to B	57+15	stations =	\$23,700.56
Point	C to D	27+10	stations =	\$48,548.27
Point	G to H	7+85	stations =	\$11,744.77
Point	M to N	20+10	stations =	\$7,259.48
Point	U to V	6+00	stations =	\$8,661.64
SUBTOTAL RECONSTRUCTION				\$99,914.72

SPECIAL PROJECTS

Brush	9.9	miles of road	\$11,533.50
Stockpile	500yds	4"-0" Jawrun	\$5,890.00
SUBTOTAL SPECIAL PROJECTS			\$17,423.50

MOVE IN

\$4,777.29

GRAND TOTAL

\$465,230.00

SUMMARY OF CONSTRUCTION COST

Table with project details: Sale: Schmeagle Hill, Road: A to B. Construction - 0+70 to 0.01 stations/miles, Improvement - 343+50 to 6.51 stations/miles, Reconstruction - 57+15 to 1.08 stations/miles.

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Table for CONSTRUCTION section with columns: Station, to, Station, Avg. Sideslope, Avg. Dist. To W.A. (mi.), Outslope/Ditch, Cost per Station, Drill & Shoot, Endhaul, TOTAL. Total: \$128.10.

IMPROVEMENT: CLEARING AND GRUBBING -

Table for IMPROVEMENT: CLEARING AND GRUBBING - Widening. Total: \$206.28.

IMPROVEMENT: EXCAVATION -

Table for IMPROVEMENT: EXCAVATION - Pullback and Widening. Total: \$3,542.00.

IMPROVEMENT: ENDHAUL -

Table for IMPROVEMENT: ENDHAUL - Pullback, Widening, Spread & compact. Total: \$3,300.76.

RECONSTRUCTION: CLEARING AND GRUBBING -

Table for RECONSTRUCTION: CLEARING AND GRUBBING - Widening and Scattering. Total: \$3,942.16.

RECONSTRUCTION: EXCAVATION -

Table for RECONSTRUCTION: EXCAVATION - Widening. Total: \$2,219.80.

RECONSTRUCTION: ENDHAUL -

Table for RECONSTRUCTION: ENDHAUL - Widening and Spread & compact. Total: \$425.32.

CULVERTS - MATERIALS & INSTALLATION

Table for CULVERTS - MATERIALS & INSTALLATION including Culverts, Half Rounds, and Culvert Stakes & Markers. Total: \$6,453.50.

ROCK

Table for ROCK section listing materials like Jawrun, Crushed, Rip Rap, Energy Dissipator, etc. Total: \$68,259.50.

SPECIAL PROJECTS

Table for SPECIAL PROJECTS including Construct Landing, Construct turnarounds, Construct waste areas, etc. Total: \$45,469.23.

GRAND TOTAL \$133,946.65

SUMMARY OF CONSTRUCTION COST

Sale: **Schmeagle Hill**

Road: **C to D**

Construction -	0+00	stations	Improvement -	0+00	stations	Reconstruction -	27+10	stations
	0.00	miles		0.00	miles		0.51	miles

RECONSTRUCTION: CLEARING AND GRUBBING -

Widening	0.016	acres @	\$955.00 per acre =	\$15.28	
TOTAL CLEARING AND GRUBBING				\$15.28	

RECONSTRUCTION: EXCAVATION -

Widening	82	cy. @	\$2.20 per c.y. =	\$180.40	
TOTAL EXCAVATION				\$180.40	

RECONSTRUCTION: ENDHAUL -

Widening	10+10	to	10+95	82	cy. @	\$1.28 per c.y. =	\$104.96
Spread & compact				82	cy. @	\$0.55 per c.y. =	\$45.10
TOTAL ENDHAUL				\$150.06			

CULVERTS - MATERIALS & INSTALLATION

Culverts

60	LF of 18"	\$1,515.00		50	LF of 24"	\$1,912.50
60	LF of 30"	\$3,000.00				
		<u>\$4,515.00</u>				<u>\$1,912.50</u>

Culvert Stakes & Markers

4	markers	\$36.00
---	---------	---------

TOTAL CULVERTS \$6,463.50

ROCK

0+00 to	27+10	1,540	cy. of	Jawrun	@	\$16.35 per c.y. =	\$25,179.00
Junction Rock	0+00	30	cy. of	Jawrun	@	\$16.18 per c.y. =	\$485.40
Fill Construction	11+95	300	cy. of	Pitrun	@	\$14.73 per c.y. =	\$4,419.00
Culvert Bedding/Backfill	11+95	30	cy. of	Crushed	@	\$7.22 per c.y. =	\$216.60
Fill Widening	11+95	50	cy. of	Jawrun	@	\$14.73 per c.y. =	\$736.50
Energy Dissipator	11+95	10	cy. of	Rip Rap	@	\$14.00 per c.y. =	\$140.00
Culvert Bedding	20yds each	40	cy. of	Crushed	@	\$7.37 per c.y. =	\$294.80
Energy Dissipator	5yds each	10	cy. of	Rip Rap	@	\$14.15 per c.y. =	\$141.50
Landing Rock	21+40	50	cy. of	Jawrun	@	\$16.50 per c.y. =	\$825.00
Landing Rock	27+10	50	cy. of	Jawrun	@	\$16.58 per c.y. =	\$829.00
Energy Dissipator	24+30	5	cy. of	Rip Rap	@	\$14.32 per c.y. =	\$71.60
				TOTAL ROCK \$33,338.40			

SPECIAL PROJECTS

Remove Fill @ station 11+95 -	4.00	hours @	\$420.00 per hour	\$1,680.00
Construct Landings	2.00	hours @	\$220.00 per hour	\$440.00
Construct waste areas -	1.00	hours @	\$220.00 per hour	\$220.00
Construct Ditchouts	2.00	@	\$65.00 each	\$130.00
Construct Fill @ station 11+95	6.00	hours @	\$265.00 per hour	\$1,590.00
Reconstruct fill @ station 24+30	3.00	hours @	\$540.00 per hour	\$1,620.00
Endhaul stumps from landings -	0.25	hours @	\$385.00 per hour	\$96.25
Grade and shape road -	27.10	stations @	\$24.40 per station	\$661.24
Roll subgrade w/ vibratory roller prior to rocking -	27.10	stations @	\$19.40 per station	\$525.74
Remove vegetation from road surface	4.00	hours @	\$220.00 per hour	\$880.00
Grass seed and fertilize -	1.24	acres @	\$310.00 per acre	\$384.40
Mulching -	0.200	acres @	\$865.00 per acre	\$173.00
TOTAL SPECIAL PROJECTS				\$8,400.63

GRAND TOTAL \$48,548.27

SUMMARY OF CONSTRUCTION COST

Sale: **Schmeagle Hill**

Road: **E to F**

<u>Construction -</u>	<u>0+00</u>	stations	<u>Improvement -</u>	<u>92+10</u>	stations	<u>Reconstruction -</u>	<u>0+00</u>	stations
	0.00	miles		1.74	miles		0.00	miles

CULVERTS - MATERIALS & INSTALLATION

Culvert Stakes & Markers

7 markers \$63.00

TOTAL CULVERTS \$63.00

ROCK

Spot Rock	As Directed	100	cy. of	Crushed	@	\$9.54 per c.y.=	\$954.00
Landing Rock	22+60	50	cy. of	Jawrun	@	\$16.37 per c.y.=	\$818.50
Landing Rock	71+10	50	cy. of	Jawrun	@	\$16.99 per c.y.=	\$849.50
Landing Rock	77+55	70	cy. of	Jawrun	@	\$17.07 per c.y.=	\$1,194.90
Landing Rock	80+75	50	cy. of	Jawrun	@	\$17.11 per c.y.=	\$855.50
Landing Rock	86+05	80	cy. of	Jawrun	@	\$17.18 per c.y.=	\$1,374.40
Turnaround	9+50	50	cy. of	Jawrun	@	\$16.20 per c.y.=	\$810.00
TOTAL ROCK							\$6,856.80

SPECIAL PROJECTS

Construct Landings -	8.00	hours @	\$385.00	per hour	\$3,080.00
Remove gate assembly -	1.35	stations @	\$145.00	per station	\$195.75
Construct waste areas -	1.00	hours @	\$220.00	per hour	\$220.00
Clean culverts	3.00	@	\$65.00	each	\$195.00
Endhaul stumps from landing -	0.50	hours @	\$385.00	per hour	\$192.50
Grass seed and fertilize -	0.50	acres @	\$310.00	per acre	\$155.00
TOTAL SPECIAL PROJECTS					\$4,038.25

GRAND TOTAL \$10,958.05

SUMMARY OF CONSTRUCTION COST

Sale: **Schmeagle Hill**

Road: **G to H**

<u>Construction -</u>	<u>0+00</u>	stations	<u>Improvement -</u>	<u>1+90</u>	stations	<u>Reconstruction -</u>	<u>7+85</u>	stations
	0.00	miles		0.04	miles		0.15	miles

ROCK

0+00 to	9+75	590	cy. of	Jawrun	@	\$16.71	per c.y.=	\$9,858.90
Junction Rock	0+00	30	cy. of	Jawrun	@	\$16.65	per c.y.=	\$499.50
Landing Rock	9+75	100	cy. of	Jawrun	@	\$16.77	per c.y.=	\$1,677.00
TOTAL ROCK								\$12,035.40

SPECIAL PROJECTS

Construct Landing -	1.00	hours @	\$220.00	per hour	\$220.00
Construct waste areas -	1.00	hours @	\$220.00	per hour	\$220.00
Construct ditchouts -	2.00	@	\$60.00	each	\$120.00
Construct Ditchlines-No Endhaul -	2.70	stations @	\$90.00	per station	\$243.00
Endhaul stumps from landing -	0.50	hours @	\$385.00	per hour	\$192.50
Grade and shape road -	9.75	stations @	\$24.40	per station	\$237.90
Pluck and Endhaul Vegetative Material -	2.00	stations @	\$385.00	per station	\$770.00
Roll subgrade	9.75	stations @	\$19.40	per station	\$189.15
Remove large stumps -	2.00	@	\$110.00	each	\$220.00
Grass seed and fertilize -	0.45	acres @	\$310.00	per acre	\$139.50
TOTAL SPECIAL PROJECTS					\$2,552.05

GRAND TOTAL **\$14,587.45**

SUMMARY OF CONSTRUCTION COST

Sale: **Schmeagle Hill**

Road: **I to J**

Construction -	5+05	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.10	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station	=	Drill & Shoot	Endhaul	
0+00		5+05	12%		Outslope	\$125				\$631.25
									TOTAL	\$631.25

ROCK

0+00 to		1+00		60	cy. of	Jawrun	@	\$16.66 per c.y.=		\$999.60
Junction Rock		0+00		30	cy. of	Jawrun	@	\$16.65 per c.y.=		\$499.50
									TOTAL ROCK	\$1,499.10

SPECIAL PROJECTS

Construction Landings -	2.00	hours @	\$220.00	per hour	\$440.00	
Pluck and Endhaul Vegetative Material -	1.00	hours @	\$385.00	per hour	\$385.00	
Endhaul stumps from landing -	0.50	hours @	\$385.00	per hour	\$192.50	
Grade and shape road -	5.05	stations @	\$24.40	per station	\$123.22	
Roll subgrade	5.05	stations @	\$19.40	per station	\$97.97	
Remove large stumps -	3.00	@	\$110.00	each	\$330.00	
Grass seed and fertilize -	0.23	acres @	\$310.00	per acre	\$71.30	
					TOTAL SPECIAL PROJECTS	\$1,639.99

GRAND TOTAL **\$3,770.34**

SUMMARY OF CONSTRUCTION COST

Sale: **Schmeagle Hill**

Road: **K to L**

Construction -	7+05	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.13	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station	=	Drill & Shoot	Endhaul	
0+00		7+05	10%		Outslope	\$125	=			\$881.25
									TOTAL	\$881.25

ROCK

0+00 to		1+00		60	cy. of	Jawrun	@	\$16.78	per c.y.=	\$1,006.80
Junction Rock		0+00		30	cy. of	Jawrun	@	\$16.77	per c.y.=	\$503.10
									TOTAL ROCK	\$1,509.90

SPECIAL PROJECTS

Construct Landing -	1.00	hours @	\$220.00	per hour	\$220.00
Pluck and Endhaul Vegetative Material-	2.00	hours @	\$385.00	per hour	\$770.00
Endhaul stumps from landing -	0.50	hours @	\$385.00	per hour	\$192.50
Grade and shape road -	7.05	stations @	\$24.40	per station	\$172.02
Roll subgrade w/ vibratory roller prior to rocking -	7.05	stations @	\$19.40	per station	\$136.77
Remove large stumps -	2.00	@	\$110.00	each	\$220.00
Grass seed and fertilize -	0.32	acres @	\$310.00	per acre	\$99.20
					TOTAL SPECIAL PROJECTS
					\$1,810.49

GRAND TOTAL **\$4,201.64**

SUMMARY OF CONSTRUCTION COST

Sale: **Schmeagle Hill**

Road: **M to N**

Construction -	0+00	stations	Improvement -	0.00	stations	Reconstruction -	20+10	stations
	0.00	miles		0.00	miles		0.38	miles

CULVERTS - MATERIALS & INSTALLATION

Culverts

40 LF of 24" \$1,530.00

Culvert Stakes & Markers

1 markers \$9.00

TOTAL CULVERTS \$1,539.00

ROCK

0+00 to	1+00	60	cy. of	Jawrun	@	\$16.81 per c.y.=	\$1,008.60
Junction Rock	0+00	30	cy. of	Jawrun	@	\$16.80 per c.y.=	\$504.00

TOTAL ROCK \$1,512.60

SPECIAL PROJECTS

Construct Landings -	3.00	hours @	\$220.00	per hour	\$660.00
Construct Fill @ 6+50-	4.00	hours @	\$220.00	per hour	\$880.00
Pluck & Endhaul Vegetative Material-	3.00	hours @	\$385.00	per hour	\$1,155.00
Widen road	1.00	hours @	\$220.00	per hour	\$220.00
Endhaul stumps from landing -	0.50	hours @	\$385.00	per hour	\$192.50
Grade and shape road -	20.10	stations @	\$24.40	per station	\$490.44
Roll subgrade w/ vibratory roller prior to rocking -	20.10	stations @	\$19.40	per station	\$389.94
Remove large stumps -	2.00	@	\$110.00	each	\$220.00

TOTAL SPECIAL PROJECTS \$4,207.88

GRAND TOTAL \$7,259.48

SUMMARY OF CONSTRUCTION COST

Sale: Schmeagle Hill			Road: O to P		
Construction -	12+20	stations	Improvement -	0+00	stations
	0.23	miles		0.00	miles
Reconstruction -	0+00	stations			
	0.00	miles			

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Avg. Sideslope</u>	<u>Avg. Dist.</u> <u>To W.A. (mi.)</u>	<u>Outslope/Ditch</u>	<u>Cost per Station</u>	=	<u>Drill & Shoot</u>	<u>Endhaul</u>	
0+00		12+20	25%		Ditch	\$304				\$3,708.80
									TOTAL	\$3,708.80

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>	60	LF of 18"	\$1,515.00		
<u>Culvert Stakes & Markers</u>	2	markers	\$18.00		
				TOTAL CULVERTS	\$1,533.00

ROCK										
0+00	to	1+00	60	cy. of	Jawrun	@	\$16.94	per c.y.=	\$1,016.40	
Junction Rock		0+00	30	cy. of	Jawrun	@	\$19.27	per c.y.=	\$578.10	
Culvert Fill Covering		2+55	30	cy. of	Jawrun	@	\$19.32	per c.y.=	\$579.60	
Culvert Fill Covering		5+95	30	cy. of	Jawrun	@	\$19.39	per c.y.=	\$581.70	
									TOTAL ROCK	\$2,755.80

SPECIAL PROJECTS

Construct Landings	2.00	hours @	\$220.00	per hour	\$440.00	
Endhaul stumps from landing -	0.50	hours @	\$385.00	per hour	\$192.50	
Grade and shape road -	12.20	stations @	\$24.40	per station	\$297.68	
Roll subgrade w/ vibratory roller prior to rocking -	12.20	stations @	\$19.40	per station	\$236.68	
Remove large stumps -	14.00	@	\$110.00	each	\$1,540.00	
Remove culverts from state lands	2.00	@	\$371.50	total	\$371.50	
Grass seed and fertilize -	0.56	acres @	\$310.00	per acre	\$173.60	
					TOTAL SPECIAL PROJECTS	\$3,251.96

GRAND TOTAL **\$11,249.56**

SUMMARY OF CONSTRUCTION COST

Sale: **Schmeagle Hill**

Road: **Q to R**

Construction -	0+75	stations	Improvement -	19+25	stations	Reconstruction -	0+00	stations
	0.01	miles		0.36	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station	=	Drill & Shoot	Endhaul	
19+25		20+00			Ditch	\$168				\$126.00
									TOTAL	\$126.00

ROCK

9+70 to		20+00	370	cy. of	Jawrun	@	\$17.67 per c.y.=		\$6,537.90	
Junction Rock		19+25	30	cy. of	Jawrun	@	\$18.11 per c.y.=		\$543.30	
Landing Rock		20+00	70	cy. of	Jawrun	@	\$18.13 per c.y.=		\$1,269.10	
									TOTAL ROCK	\$8,350.30

SPECIAL PROJECTS

Construct Landing	7.00	hours @	\$220.00	per hour	\$1,540.00	
Endhaul stumps from landing -	0.50	hours @	\$385.00	per hour	\$192.50	
Grade and shape road -	20.00	stations @	\$24.40	per station	\$488.00	
Clean Ditch	1.10	stations @	\$90.00	per station	\$99.00	
Roll subgrade w/ vibratory roller prior to rocking -	20.00	stations @	\$19.40	per station	\$388.00	
Remove large stumps -	1.00	@	\$110.00	each	\$110.00	
Grass seed and fertilize -	0.03	acres @	\$310.00	per acre	\$9.30	
					TOTAL SPECIAL PROJECTS	\$2,826.80

GRAND TOTAL **\$11,303.10**

SUMMARY OF CONSTRUCTION COST

Sale: **Schmeagle Hill**

Road: **S to T**

<u>Construction -</u>	<u>3+10</u>	stations	<u>Improvement -</u>	<u>1+10</u>	stations	<u>Reconstruction -</u>	<u>0+00</u>	stations
	0.06	miles		0.02	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Avg. Sideslope</u>	<u>Avg. Dist.</u> <u>To W.A. (mi.)</u>	<u>Outslope/Ditch</u>	<u>Cost per Station</u>	=	<u>Drill & Shoot</u>	<u>Endhaul</u>	
1+10		4+20	12%		Ditch	\$198				\$613.80
									TOTAL	\$613.80

ROCK

0+00	to	4+20	270	cy. of	Jawrun	@	\$17.97	per c.y.=	\$4,851.90	
Junction Rock		0+00	30	cy. of	Jawrun	@	\$17.91	per c.y.=	\$537.30	
Landing Rock		4+20	80	cy. of	Jawrun	@	\$18.03	per c.y.=	\$1,442.40	
Junction Rock		1+10	30	cy. of	Jawrun	@	\$18.03	per c.y.=	\$540.90	
									TOTAL ROCK	\$7,372.50

SPECIAL PROJECTS

Construct Landing	1.00	hours @	\$220.00	per hour	\$220.00	
Endhaul Slash from Road	2.00	hours @	\$385.00	per hour	\$770.00	
Construct waste areas -	1.50	hours @	\$220.00	per hour	\$330.00	
Endhaul stumps & Slash from landing -	1.00	hours @	\$385.00	per hour	\$385.00	
Grade and shape road -	4.20	stations @	\$24.40	per station	\$102.48	
Roll subgrade w/ vibratory roller prior to rocking -	4.20	stations @	\$19.40	per station	\$81.48	
Remove large stumps -	2.00	@	\$110.00	each	\$220.00	
Grass seed and fertilize -	0.14	acres @	\$310.00	per acre	\$43.40	
					TOTAL SPECIAL PROJECTS	\$2,152.36

GRAND TOTAL **\$10,138.66**

SUMMARY OF CONSTRUCTION COST

Sale:

Schmeagle Hill

Road:

U to V

<u>Construction -</u>	<u>1+75</u>	stations	<u>Improvement -</u>	<u>0+00</u>	stations	<u>Reconstruction -</u>	<u>6+00</u>	stations
	0.03	miles		0.00	miles		0.11	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Avg. Sideslope</u>	<u>Avg. Dist.</u> <u>To W.A. (mi.)</u>	<u>Outslope/Ditch</u>	<u>Cost per Station</u>	=	<u>Drill & Shoot</u>	<u>Endhaul</u>	
6+00		7+75	10%		Outslope	\$125				\$218.75
									TOTAL	\$218.75

ROCK

0+00 to	7+75	430	cy. of	Jawrun	@	\$17.99	per c.y.=	\$7,735.70	
Junction Rock	0+00	30	cy. of	Jawrun	@	\$17.91	per c.y.=	\$537.30	
Landing Rock	7+75	80	cy. of	Jawrun	@	\$18.08	per c.y.=	\$1,446.40	
								TOTAL ROCK	\$9,719.40

SPECIAL PROJECTS

Plucking and Endhauling Vegetative Material	1.00	hours @	\$385.00	per hour	\$385.00	
Widen Road -	0.50	hours @	\$220.00	per hour	\$110.00	
Construct Landing -	1.00	hours @	\$220.00	per hour	\$220.00	
Endhaul stumps from landing -	0.50	hours @	\$385.00	per hour	\$192.50	
Grade and shape road -	7.75	stations @	\$24.40	per station	\$189.10	
Roll subgrade w/ vibratory roller prior to rocking -	7.75	stations @	\$19.40	per station	\$150.35	
Remove large stumps -	1.00	@	\$110.00	each	\$110.00	
Grass seed and fertilize -	0.36	acres @	\$310.00	per acre	\$111.60	
					TOTAL SPECIAL PROJECTS	\$1,468.55

GRAND TOTAL **\$11,406.70**

SUMMARY OF CONSTRUCTION COST

Sale: **Schmeagle Hill**

Road: **Point W**

<u>Construction -</u>	<u>0+00</u>	stations	<u>Improvement -</u>	<u>0+00</u>	stations	<u>Reconstruction -</u>	<u>0+00</u>	stations
	0.00	miles		0.00	miles		0.00	miles

ROCK							
Shoulder Repair	0+00	60	cy. of	Rip Rap	@	\$16.97 per c.y.=	\$1,018.20
Shoulder Repair	0+00	40	cy. of	Jawrun	@	\$18.53 per c.y.=	\$741.20
							TOTAL ROCK
							\$1,759.40

GRAND TOTAL **\$1,759.40**

SUMMARY OF CONSTRUCTION COST

Sale: **Schmeagle Hill**

Road: **AA to BB**

Construction -	8+10	stations	Improvement -	9+10	stations	Reconstruction -	0+00	stations
	0.15	miles		0.17	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station	=	Drill & Shoot	Endhaul	
9+10		10+80	15%		Ditch	\$210	=			\$357.00
10+80		11+75	30%		Ditch	\$356	=			\$338.20
11+75		14+15	10%		Ditch	\$198	=			\$475.20
14+15		15+20	26%		Ditch	\$304	=			\$319.20
15+20		16+85	37%		Ditch	\$356	=		\$970.00	\$1,557.40
16+85		17+20	10%		Ditch	\$198	=		\$415.00	\$484.30
									TOTAL	\$3,531.30

IMPROVEMENT: CLEARING AND GRUBBING -

Widening	0.003	acres @		\$955.00	per acre =	\$2.87		\$2.87
								TOTAL CLEARING AND GRUBBING

IMPROVEMENT: EXCAVATION -

Widening	8	cy. @		\$2.20	per c.y. =	\$17.60		\$17.60
								TOTAL EXCAVATION

IMPROVEMENT: ENDHAUL -

Widening	2+75	to	3+45	8	cy. @	\$1.39	per c.y. =	\$11.12	
Spread & compact				8	cy. @	\$0.55	per c.y. =	\$4.40	
								TOTAL ENDHAUL	\$15.52

ROCK

9+10 to	17+20		500	cy. of	Jawrun	@	\$18.15	per c.y. =	\$9,075.00	
9+95 to	16+25		100	cy. of	Crushed	@	\$10.71	per c.y. =	\$1,071.00	
Junction Rock	0+00		30	cy. of	Jawrun	@	\$18.07	per c.y. =	\$542.10	
Landing Rock	11+15		80	cy. of	Jawrun	@	\$18.31	per c.y. =	\$1,464.80	
Landing Rock	17+20		70	cy. of	Jawrun	@	\$18.43	per c.y. =	\$1,290.10	
Spot Rock	As Directed		20	cy. of	Crushed	@	\$8.68	per c.y. =	\$173.60	
									TOTAL ROCK	\$13,616.60

SPECIAL PROJECTS

Construct Landings	2.00	hours @		\$220.00	per hour	\$440.00			
Construct waste areas -	1.50	hours @		\$220.00	per hour	\$330.00			
Construct ditchouts -	2.00	@		\$60.00	each	\$120.00			
Endhaul stumps from landing -	0.50	hours @		\$385.00	per hour	\$192.50			
Grade and shape road -	17.20	stations @		\$24.40	per station	\$419.68			
Roll subgrade w/ vibratory roller prior to rocking -	17.20	stations @		\$19.40	per station	\$333.68			
Remove large stumps -	10.00	@		\$110.00	each	\$1,100.00			
Grass seed and fertilize -	0.37	acres @		\$310.00	per acre	\$114.70			
								TOTAL SPECIAL PROJECTS	\$3,050.56

GRAND TOTAL **\$20,234.45**

SUMMARY OF CONSTRUCTION COST

Sale: **Schmeagle Hill**

Road: **CC to DD**

Construction -	2+10	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.04	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station	=	Drill & Shoot	Endhaul	
0+00		2+10	5%		Ditch	\$183				\$384.30
									TOTAL	\$384.30

ROCK

0+00 to		2+10	120	cy. of	Jawrun	@	\$17.77	per c.y.=	\$2,132.40	
Junction Rock		0+00	30	cy. of	Jawrun	@	\$17.75	per c.y.=	\$532.50	
Landing Rock		2+10	80	cy. of	Jawrun	@	\$17.79	per c.y.=	\$1,423.20	
									TOTAL ROCK	\$4,088.10

SPECIAL PROJECTS

Construct Landing	1.00	hours @	\$220.00	per hour	\$220.00	
Grade and shape road -	2.10	stations @	\$24.40	per station	\$51.24	
Roll subgrade w/ vibratory roller prior to rocking -	2.10	stations @	\$19.40	per station	\$40.74	
Grass seed and fertilize -	0.10	acres @	\$310.00	per acre	\$31.00	
					TOTAL SPECIAL PROJECTS	\$342.98

GRAND TOTAL **\$4,815.38**

SUMMARY OF CONSTRUCTION COST

Sale: **Schmeagle Hill**

Road: **Y to Z**

Construction -	11+20	stations	Improvement -	38+55	stations	Reconstruction -	0+00	stations
	0.21	miles		0.73	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station	=	Drill & Shoot	Endhaul	
38+55		40+30	34%		Ditch	\$356	=		\$1,875.00	\$2,498.00
40+30		43+05	61%		Ditch	\$3,044	=		\$8,210.00	\$16,581.00
43+05		44+40	41%		Ditch	\$458	=		\$2,265.00	\$2,883.30
44+40		47+70	35%		Ditch	\$356	=		\$5,330.00	\$6,504.80
44+70		48+40	63%		Ditch	\$3,446	=		\$1,715.00	\$14,465.20
48+40		49+75	28%		Ditch	\$304	=		\$285.00	\$695.40
									TOTAL	\$43,627.70

IMPROVEMENT: CLEARING AND GRUBBING -

Widening	0.024	acres @	\$955.00 per acre =	\$22.92	
					TOTAL CLEARING AND GRUBBING
					\$22.92

IMPROVEMENT: EXCAVATION -

Widening	54	cy. @	\$2.20 per c.y. =	\$118.80	
					TOTAL EXCAVATION
					\$118.80

IMPROVEMENT: ENDHAUL -

Widening	6+90	to	7+65	8	cy. @	\$1.27 per c.y. =	\$10.16
Widening	21+75	to	26+35	46	cy. @	\$1.27 per c.y. =	\$58.42
Spread & compact				54	cy. @	\$0.55 per c.y. =	\$29.70
							TOTAL ENDHAUL
							\$98.28

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>	30	LF of 18"	\$757.50		
<u>Culvert Stakes & Markers</u>		1 markers	\$9.00		
					TOTAL CULVERTS
					\$766.50

ROCK

32+15 to	49+75	1,010	cy. of	Jawrun	@	\$18.28 per c.y. =	\$18,462.80
39+30 to	48+40	170	cy. of	Crushed	@	\$10.29 per c.y. =	\$1,749.30
Spot Rock	As Directed	100	cy. of	Crushed	@	\$8.52 per c.y. =	\$852.00
Landing Rock	49+75	70	cy. of	Jawrun	@	\$18.48 per c.y. =	\$1,293.60
Landing Rock	20+80	70	cy. of	Jawrun	@	\$17.87 per c.y. =	\$1,250.90
Erosion Control	35+25	10	cy. of	Jawrun	@	\$15.87 per c.y. =	\$158.70
Energy Dissipator	44+40	5	cy. of	Rip Rap	@	\$15.37 per c.y. =	\$76.85
							TOTAL ROCK
							\$23,844.15

SPECIAL PROJECTS

Construct Landing	1.00	hours @	\$220.00	per hour	\$220.00
Construct waste areas -	1.00	hours @	\$220.00	per hour	\$220.00
Construct ditchouts -	3.00	@	\$60.00	each	\$180.00
Construct/clean ditch No Endhaul -	1.20	stations @	\$90.00	per station	\$108.00
Construct/clean ditch Endhaul -	1.60	stations @	\$145.00	per station	\$232.00
Endhaul stumps from landing -	0.50	hours @	\$385.00	per hour	\$192.50
Grade and shape road -	49.75	stations @	\$24.40	per station	\$1,213.90
Roll subgrade w/ vibratory roller prior to rocking -	49.75	stations @	\$19.40	per station	\$965.15
Remove large stumps -	12.00	@	\$110.00	each	\$1,320.00
Grass seed and fertilize -	0.51	acres @	\$310.00	per acre	\$158.10
					TOTAL SPECIAL PROJECTS
					\$4,809.65

GRAND TOTAL **\$73,288.00**

SUMMARY OF CONSTRUCTION COST

Sale: **Schmeagle Hill**

Road: **EE to FF**

Construction -	1+75	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.03	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station	=	Drill & Shoot	Endhaul	
0+00		1+75	10%		Ditch	\$198			\$335.00	\$681.50
									TOTAL	\$681.50

ROCK

0+00 to		1+75		100	cy. of	Jawrun	@	\$18.21	per c.y.=	\$1,821.00
Junction Rock		0+00		30	cy. of	Jawrun	@	\$18.16	per c.y.=	\$544.80
Landing Rock		1+75		70	cy. of	Jawrun	@	\$18.26	per c.y.=	\$1,278.20
									TOTAL ROCK	\$3,644.00

SPECIAL PROJECTS

Construct Landing	1.00	hours @	\$220.00	per hour	\$220.00	
Endhaul stumps from landing -	0.25	hours @	\$385.00	per hour	\$96.25	
Grade and shape road -	1.75	stations @	\$24.40	per station	\$42.70	
Roll subgrade w/ vibratory roller prior to rocking -	1.75	stations @	\$19.40	per station	\$33.95	
Remove large stumps -	3.00	@	\$110.00	each	\$330.00	
Grass seed and fertilize -	0.08	acres @	\$310.00	per acre	\$24.80	
					TOTAL SPECIAL PROJECTS	\$747.70

GRAND TOTAL **\$5,073.20**

SUMMARY OF CONSTRUCTION COST

Sale: **Schmeagle Hill**

Road: **GG to HH**

Construction -	4+15	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.08	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	<u>Avg. Dist.</u> To W.A. (mi.)	Outslope/Ditch	Cost per Station	=	<u>Drill & Shoot</u>	<u>Endhaul</u>	
0+00		1+65	16%		Ditch	\$210	=		\$960.00	\$1,306.50
1+65		2+85	35%		Ditch	\$356	=		\$960.00	\$1,387.20
2+85		4+15	18%		Ditch	\$233	=			\$302.90
									TOTAL	\$2,996.60

ROCK

0+00	to	4+15	270	cy. of	Jawrun	@	\$18.28	per c.y.=	\$4,935.60	
1+95	to	2+85	20	cy. of	Crushed	@	\$11.00	per c.y.=	\$220.00	
Junction Rock		0+00	30	cy. of	Jawrun	@	\$18.23	per c.y.=	\$546.90	
Landing Rock		4+15	70	cy. of	Jawrun	@	\$18.33	per c.y.=	\$1,283.10	
									TOTAL ROCK	\$6,985.60

SPECIAL PROJECTS

Construct Landing -	1.00	hours @	\$220.00	per hour	\$220.00	
Endhaul stumps from landing -	0.50	hours @	\$385.00	per hour	\$192.50	
Grade and shape road -	4.15	stations @	\$24.40	per station	\$101.26	
Roll subgrade w/ vibratory roller prior to rocking -	4.15	stations @	\$19.40	per station	\$80.51	
Remove large stumps -	6.00	@	\$110.00	each	\$660.00	
Grass seed and fertilize -	0.19	acres @	\$310.00	per acre	\$58.90	
					TOTAL SPECIAL PROJECTS	\$1,313.17

GRAND TOTAL **\$11,295.37**

SUMMARY OF CONSTRUCTION COST

Sale: **Schmeagle Hill**

Road: **II to JJ**

Construction -	4+65	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.09	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station	=	Drill & Shoot	Endhaul	
0+00		1+05	59%		Ditch	\$1,382	=		\$4,430.00	\$5,881.10
1+05		4+65	13%		Ditch	\$198	=			\$712.80
									TOTAL	\$6,593.90

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>	30	LF of 18"	\$757.50
<u>Culvert Stakes & Markers</u>	1	markers	\$9.00

TOTAL CULVERTS **\$766.50**

ROCK

0+00	to	4+65	300	cy. of	Jawrun	@	\$18.55	per c.y.=	\$5,565.00
3+65	to	4+30	20	cy. of	Crushed	@	\$11.26	per c.y.=	\$225.20
Junction Rock		0+00	30	cy. of	Jawrun	@	\$18.49	per c.y.=	\$554.70
Landing Rock		3+65	70	cy. of	Jawrun	@	\$18.57	per c.y.=	\$1,299.90
Landing Rock		4+65	70	cy. of	Jawrun	@	\$18.60	per c.y.=	\$1,302.00
Energy Dissipator		0+60	5	cy. of	Rip Rap	@	\$16.25	per c.y.=	\$81.25
									TOTAL ROCK \$9,028.05

SPECIAL PROJECTS

Construct Landings -	2.00	hours @	\$220.00	per hour	\$440.00
Endhaul stumps from landing -	0.50	hours @	\$385.00	per hour	\$192.50
Grade and shape road -	4.65	stations @	\$24.40	per station	\$113.46
Roll subgrade w/ vibratory roller prior to rocking -	4.65	stations @	\$19.40	per station	\$90.21
Remove large stumps -	5.00	@	\$110.00	each	\$550.00
Grass seed and fertilize -	0.21	acres @	\$310.00	per acre	\$65.10
					TOTAL SPECIAL PROJECTS \$1,451.27

GRAND TOTAL **\$17,839.72**

SUMMARY OF CONSTRUCTION COST

Sale: **Schmeagle Hill**

Road: **KK to LL**

Construction -	5+70 0.11	stations miles	Improvement -	0+00 0.00	stations miles	Reconstruction -	0+00 0.00	stations miles
----------------	--------------	-------------------	---------------	--------------	-------------------	------------------	--------------	-------------------

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station	=	Drill & Shoot	Endhaul	
0+00		5+70	20%		Ditch	\$253	=			\$1,442.10
									TOTAL	\$1,442.10

ROCK

0+00 to	5+70	360	cy. of	Jawrun	@	\$18.68	per c.y.=		\$6,724.80	
Junction Rock	0+00	30	cy. of	Jawrun	@	\$18.62	per c.y.=		\$558.60	
Landing Rock	5+70	80	cy. of	Jawrun	@	\$18.74	per c.y.=		\$1,499.20	
Traction Rock	As Needed	15	cy. of	Crushed	@	\$11.43	per c.y.=		\$171.45	
									TOTAL ROCK	\$8,954.05

SPECIAL PROJECTS

Construct Landing -	1.00	hours @	\$220.00	per hour		\$220.00	
Endhaul stumps from landing -	0.50	hours @	\$385.00	per hour		\$192.50	
Grade and shape road -	5.70	stations @	\$24.40	per station		\$139.08	
Roll subgrade w/ vibratory roller prior to rocking -	5.70	stations @	\$19.40	per station		\$110.58	
Remove large stumps -	4.00	@	\$110.00	each		\$440.00	
Grass seed and fertilize -	0.26	acres @	\$310.00	per acre		\$80.60	
						TOTAL SPECIAL PROJECTS	\$1,182.76

GRAND TOTAL **\$11,578.91**

SUMMARY OF CONSTRUCTION COST

Sale: **Schmeagle Hill**

Road: **MM to NN**

<u>Construction -</u>	<u>6+20</u>	stations	<u>Improvement -</u>	<u>0+00</u>	stations	<u>Reconstruction -</u>	<u>0+00</u>	stations
	0.12	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Avg. Sideslope</u>	<u>Avg. Dist.</u> <u>To W.A. (mi.)</u>	<u>Outslope/Ditch</u>	<u>Cost per Station</u>	=	<u>Drill & Shoot</u>	<u>Endhaul</u>	
0+00		2+00	45%		Outslope	\$373	=			\$746.00
2+00		6+20	25%		Outslope	\$229	=			\$961.80
									TOTAL	\$1,707.80

ROCK

0+00	to	6+20	380	cy. of	Jawrun	@	\$18.78	per c.y.=	\$7,136.40	
Junction Rock		0+00	30	cy. of	Jawrun	@	\$18.72	per c.y.=	\$561.60	
Landing Rock		4+05	70	cy. of	Jawrun	@	\$18.80	per c.y.=	\$1,316.00	
Landing Rock		6+20	80	cy. of	Jawrun	@	\$18.85	per c.y.=	\$1,508.00	
Traction Rock		As Needed	20	cy. of	Crushed	@	\$11.57	per c.y.=	\$231.40	
									TOTAL ROCK	\$10,753.40

SPECIAL PROJECTS

Construct Landings -	2.00	hours @	\$220.00	per hour	\$440.00	
Endhaul stumps from landing -	0.50	hours @	\$385.00	per hour	\$192.50	
Grade and shape road -	6.20	stations @	\$24.40	per station	\$151.28	
Roll subgrade w/ vibratory roller prior to rocking -	6.20	stations @	\$19.40	per station	\$120.28	
Remove large stumps -	10.00	@	\$110.00	each	\$1,100.00	
Grass seed and fertilize -	0.28	acres @	\$310.00	per acre	\$86.80	
					TOTAL SPECIAL PROJECTS	\$2,090.86

GRAND TOTAL **\$14,552.06**

SUMMARY OF CONSTRUCTION COST

Sale: **Schmeagle Hill**

Road: **00 to PP**

Construction -	5+45	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.10	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station	=	Drill & Shoot	Endhaul	
0+00		5+45	12%		Outslope	\$125				\$681.25
									TOTAL	\$681.25

ROCK

0+00 to		5+45	340	cy. of	Jawrun	@	\$18.91	per c.y.=		\$6,429.40
Junction Rock		0+00	30	cy. of	Jawrun	@	\$18.85	per c.y.=		\$565.50
Landing Rock		5+45	70	cy. of	Jawrun	@	\$18.96	per c.y.=		\$1,327.20
									TOTAL ROCK	\$8,322.10

SPECIAL PROJECTS

Construct Landing -	1.00	hours @	\$220.00	per hour		\$220.00	
Endhaul stumps from landing -	0.25	hours @	\$385.00	per hour		\$96.25	
Grade and shape road -	5.45	stations @	\$24.40	per station		\$132.98	
Roll subgrade w/ vibratory roller prior to rocking -	5.45	stations @	\$19.40	per station		\$105.73	
Remove large stumps -	8.00	@	\$110.00	each		\$880.00	
Grass seed and fertilize -	0.25	acres @	\$310.00	per acre		\$77.50	
						TOTAL SPECIAL PROJECTS	\$1,512.46

GRAND TOTAL **\$10,515.81**

SUMMARY OF CONSTRUCTION COST

Sale: **Schmeagle Hill**

Road: **QQ to RR**

Construction -	1+70	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.03	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station	=	Drill & Shoot	Endhaul	
0+00		1+70	12%		Outslope	\$125				\$212.50
									TOTAL	\$212.50

ROCK

0+00 to		1+70	100	cy. of	Jawrun	@	\$16.76	per c.y.=	\$1,676.00	
Junction Rock		0+00	30	cy. of	Jawrun	@	\$18.97	per c.y.=	\$569.10	
Landing Rock		1+70	70	cy. of	Jawrun	@	\$16.77	per c.y.=	\$1,173.90	
									TOTAL ROCK	\$3,419.00

SPECIAL PROJECTS

Construct Landing -	1.00	hours @	\$220.00	per hour	\$220.00	
Endhaul stumps from landing -	0.25	hours @	\$385.00	per hour	\$96.25	
Grade and shape road -	1.70	stations @	\$24.40	per station	\$41.48	
Roll subgrade w/ vibratory roller prior to rocking -	1.70	stations @	\$19.40	per station	\$32.98	
Remove large stumps -	6.00	@	\$110.00	each	\$660.00	
Grass seed and fertilize -	0.08	acres @	\$310.00	per acre	\$24.80	
					TOTAL SPECIAL PROJECTS	\$1,075.51

GRAND TOTAL **\$4,707.01**

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	North Fork Trask	Location:	Sec. 25, T1S, R8W, W.M.
Sale:	Schmeagle Hill	Road:	130 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	130 c.y.
Drill Pct.:	0%	In Place Total:	93 c.y.

Load Dump Truck: \$2.00 /cu.yd. x 130 cu.yds. = \$260.00
Subtotal \$260.00

Move in Excavator 1 @ \$703.14 = \$703.14
Subtotal \$703.14

Base Cost= \$7.41 Per Cu.Yd. TOTAL PRODUCTION COSTS \$963.14

Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base Cost. \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST
A to B Energy Dissipator (Rip Rap)	4.07	1.70	7.41	13.18	10	\$131.80
A to B Energy Dissipator (Rip Rap)	10.71	1.70	7.41	19.82	30	\$594.60
C to D Energy Dissipator (Rip Rap)	4.89	1.70	7.41	14.00	10	\$140.00
C to D Energy Dissipator (Rip Rap)	5.04	1.70	7.41	14.15	10	\$141.50
C to D Energy Dissipator (Rip Rap)	5.21	1.70	7.41	14.32	5	\$71.60
Point W (Rip Rap)	7.86	1.70	7.41	16.97	60	\$1,018.20
Y to Z Energy Dissipator (Rip Rap)	6.26	1.70	7.41	15.37	5	\$76.85
				Total C.Y.	130	Sub Total \$2,174.55

TOTAL ROCKING COSTS \$2,174.55

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	1.5" Stockpile	Location:	Sec. 15, T2S, R7W, W.M.
Sale:	Schmeagle Hill	Road:	875 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	875 c.y.
Drill Pct.:	0%	In Place Total:	625 c.y.

Load Dump Truck: _____ \$1.20 /cu.yd. x _____ 875 cu.yds. = _____ \$1,050.00
Subtotal _____ \$1,050.00

Move in Loader 1 @ \$588.14 = _____ \$588.14
Subtotal _____ \$588.14

Base Cost= _____ \$1.87 Per Cu.Yd. TOTAL PRODUCTION COSTS \$1,638.14

Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base Cost. \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST
A to B 34660 35095 (Crushed)	5.35	3.55	1.87	10.77	80	\$861.60
A to B Traction Rock (Crushed)	5.97	3.55	1.87	11.39	200	\$2,278.00
Y to Z 3930 4840 (Crushed)	4.87	3.55	1.87	10.29	170	\$1,749.30
AA to BB 995 1625 (Crushed)	5.29	3.55	1.87	10.71	100	\$1,071.00
GG to HH 195 285 (Crushed)	5.58	3.55	1.87	11.00	270	\$2,970.00
II to JJ 365 430 (Crushed)	5.84	3.55	1.87	11.26	20	\$225.20
KK to LL Traction Rock As Needed (Crus	6.01	3.55	1.87	11.43	15	\$171.45
MM to NN Traction Rock As Needed (Cr	6.15	3.55	1.87	11.57	20	\$231.40
				Total C.Y.	875	Sub Total \$9,557.95

TOTAL ROCKING COSTS \$9,557.95

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	2" Stockpile	Location:	Sec. 9 , T2S, R7W, W.M.
Sale:	Schmeagle Hill	Road:	620 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	620 c.y.
Drill Pct.:	0%	In Place Total:	443 c.y.

Load Dump Truck: _____ \$1.20 /cu.yd. x _____ 620 cu.yds. = _____ \$744.00
Subtotal _____ \$744.00

Move in Loader 1 @ \$588.14 = _____ \$588.14
Subtotal _____ \$588.14

Base Cost= _____ \$2.15 Per Cu.Yd. TOTAL PRODUCTION COSTS \$1,332.14

Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base Cost. \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST
A to B Culvert Bedding/Backfill (Crushed)	3.68	1.70	2.15	7.53	30	\$225.90
A to B Culvert Bedding/Backfill (Crushed)	5.50	1.70	2.15	9.35	100	\$935.00
A to B Spot Rock (Crushed)	3.06	3.55	2.15	8.76	200	\$1,752.00
C to D Culvert Bedding/Backfill (Crushed)	3.37	1.70	2.15	7.22	30	\$216.60
C to D Culvert Bedding (Crushed)	3.52	1.70	2.15	7.37	40	\$294.80
E to F Spot Rock (Crushed)	3.84	3.55	2.15	9.54	100	\$954.00
Y to Z Spot Rock (Crushed)	2.82	3.55	2.15	8.52	100	\$852.00
AA to BB Spot Rock (Crushed)	2.98	3.55	2.15	8.68	20	\$173.60
				Total C.Y.	620	Sub Total \$5,403.90

TOTAL ROCKING COSTS \$5,403.90

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	<u>Toll Pit</u>	Location:	Sec. 16 , T2S, R7W, W.M.
Sale:	<u>Schmeagle Hill</u>	Road:	<u>13595 c.y.</u>
Swell:	<u>1.40</u>	Stockpile:	<u>c.y.</u>
Shrinkage:	<u>1.16</u>	Total Truck Loads:	<u>13595 c.y.</u>
Drill Pct.:	<u>100%</u>	In Place Total:	<u>9711 c.y.</u>

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact. \$2,000.00

Drill & Shoot:	<u>\$3.60</u> /cu.yd.	x	<u>9711</u> cu.yds.	=	\$34,959.60
Load Crusher:	<u>\$1.20</u> /cu.yd.	x	<u>13595</u> cu.yds.	=	\$16,314.00
Crush Rock:	<u>\$4.30</u> /cu.yd.	x	<u>13595</u> cu.yds.	=	\$58,458.50
Load Dump Truck:	<u>\$1.20</u> /cu.yd.	x	<u>13595</u> cu.yds.	=	\$16,314.00

Subtotal \$128,046.10

Move In/Set-up Crusher	1	@	\$ 2,110	=	\$2,110.00
Move In and set up Drill and Compressor	1	@	\$584.84	=	\$584.84
Move in Roller and Compactor	1	@	\$373.30	=	\$373.30
Move in Grader	1	@	\$586.03	=	\$586.03
Move in Loader	1	@	\$588.14	=	\$588.14
Move in Excavator	1	@	\$703.14	=	\$703.14
Move in Trucks	2	@	\$145.12	=	\$290.24
					Subtotal \$5,235.69

TOTAL PRODUCTION COSTS \$133,281.79

Base Cost= \$9.80 Per Cu. Yd.

Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base/load Cost. \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST
A to B 34350 40135 (Jawrun)	5.15	3.55	9.80	18.50	3190	\$59,015.00
A to B Landing Rock (Jawrun)	4.27	3.55	9.80	17.62	80	\$1,409.60
A to B Erosion Control (Jawrun)	2.31	1.25	9.80	13.36	40	\$534.40
A to B Widening (Jawrun)	3.93	3.50	9.80	17.23	20	\$344.60
A to B Widening (Jawrun)	4.40	3.50	9.80	17.70	10	\$177.00
C to D 0 2710 (Jawrun)	3.05	3.50	9.80	16.35	1540	\$25,179.00
C to D Junction Rock (Jawrun)	2.88	3.50	9.80	16.18	30	\$485.40
C to D Fill Construction (Pitrun)	3.03	1.90	9.80	14.73	300	\$4,419.00
C to D Fill Widening (Jawrun)	3.03	1.90	9.80	14.73	50	\$736.50
C to D Landing Rock (Jawrun)	3.15	3.55	9.80	16.50	50	\$825.00
C to D Landing Rock (Jawrun)	3.23	3.55	9.80	16.58	50	\$829.00
E to F Landing Rock (Jawrun)	3.02	3.55	9.80	16.37	50	\$818.50
E to F Landing Rock (Jawrun)	3.64	3.55	9.80	16.99	50	\$849.50
E to F Landing Rock (Jawrun)	3.72	3.55	9.80	17.07	70	\$1,194.90
E to F Landing Rock (Jawrun)	3.76	3.55	9.80	17.11	50	\$855.50
E to F Landing Rock (Jawrun)	3.83	3.55	9.80	17.18	80	\$1,374.40
E to F Turnaround (Jawrun)	2.85	3.55	9.80	16.20	50	\$810.00
G to H 0 975 (Jawrun)	3.36	3.55	9.80	16.71	590	\$9,858.90
G to H Junction Rock (Jawrun)	3.30	3.55	9.80	16.65	30	\$499.50
G to H Landing Rock (Jawrun)	3.42	3.55	9.80	16.77	100	\$1,677.00
I to J 0 100 (Jawrun)	3.31	3.55	9.80	16.66	60	\$999.60
I to J Junction Rock (Jawrun)	3.30	3.55	9.80	16.65	30	\$499.50
K to L 0 100 (Jawrun)	3.43	3.55	9.80	16.78	60	\$1,006.80
K to L Junction Rock (Jawrun)	3.42	3.55	9.80	16.77	30	\$503.10
M to N 0 100 (Jawrun)	3.46	3.55	9.80	16.81	60	\$1,008.60
M to N Junction Rock (Jawrun)	3.45	3.55	9.80	16.80	30	\$504.00
O to P 0 100 (Jawrun)	3.59	3.55	9.80	16.94	60	\$1,016.40
O to P Junction Rock (Jawrun)	5.92	3.55	9.80	19.27	30	\$578.10
O to P Culvert Fill Covering (Jawrun)	5.97	3.55	9.80	19.32	30	\$579.60
O to P Culvert Fill Covering (Jawrun)	6.04	3.55	9.80	19.39	30	\$581.70
Q to R 970 2000 (Jawrun)	4.67	3.20	9.80	17.67	370	\$6,537.90
Q to R Junction Rock (Jawrun)	4.76	3.55	9.80	18.11	30	\$543.30
Q to R Landing Rock (Jawrun)	4.78	3.55	9.80	18.13	70	\$1,269.10
S to T 0 420 (Jawrun)	4.62	3.55	9.80	17.97	270	\$4,851.90
S to T Junction Rock (Jawrun)	4.56	3.55	9.80	17.91	30	\$537.30
S to T Landing Rock (Jawrun)	4.68	3.55	9.80	18.03	80	\$1,442.40
S to T Junction Rock (Jawrun)	4.68	3.55	9.80	18.03	30	\$540.90
U to V 0 775 (Jawrun)	4.64	3.55	9.80	17.99	430	\$7,735.70
U to V Junction Rock (Jawrun)	4.56	3.55	9.80	17.91	30	\$537.30
U to V Landing Rock (Jawrun)	4.73	3.55	9.80	18.08	80	\$1,446.40
Point W (Jawrun)	7.48	1.25	9.80	18.53	40	\$741.20
Y to Z 3215 4975 (Jawrun)	4.93	3.55	9.80	18.28	1010	\$18,462.80
Y to Z Landing Rock (Jawrun)	5.13	3.55	9.80	18.48	70	\$1,293.60
Y to Z Landing Rock (Jawrun)	4.52	3.55	9.80	17.87	70	\$1,250.90
Y to Z Erosion Control (Jawrun)	4.82	1.25	9.80	15.87	10	\$158.70
AA to BB 910 1720 (Jawrun)	4.80	3.55	9.80	18.15	500	\$9,075.00
AA to BB Junction Rock (Jawrun)	4.72	3.55	9.80	18.07	30	\$542.10
AA to BB Landing Rock (Jawrun)	4.96	3.55	9.80	18.31	80	\$1,464.80
AA to BB Landing Rock (Jawrun)	5.08	3.55	9.80	18.43	70	\$1,290.10
CC to DD 0 210 (Jawrun)	4.42	3.55	9.80	17.77	120	\$2,132.40
CC to DD Junction Rock (Jawrun)	4.40	3.55	9.80	17.75	30	\$532.50
CC to DD Landing Rock (Jawrun)	4.44	3.55	9.80	17.79	80	\$1,423.20
EE to FF 0 175 (Jawrun)	4.86	3.55	9.80	18.21	100	\$1,821.00
EE to FF Junction Rock (Jawrun)	4.81	3.55	9.80	18.16	30	\$544.80
EE to FF Landing Rock (Jawrun)	4.91	3.55	9.80	18.26	70	\$1,278.20
GG to HH 0 415 (Jawrun)	4.93	3.55	9.80	18.28	270	\$4,935.60
GG to HH Junction Rock (Jawrun)	4.88	3.55	9.80	18.23	30	\$546.90
GG to HH Landing Rock (Jawrun)	4.98	3.55	9.80	18.33	70	\$1,283.10
II to JJ 0 465 (Jawrun)	5.20	3.55	9.80	18.55	300	\$5,565.00
II to JJ Junction Rock 0 (Jawrun)	5.14	3.55	9.80	18.49	30	\$554.70
II to JJ Landing Rock 365 (Jawrun)	5.22	3.55	9.80	18.57	70	\$1,299.90
II to JJ Landing Rock 465 (Jawrun)	5.25	3.55	9.80	18.60	70	\$1,302.00
II to JJ Energy Dissipator 0+60 (Rip Raj)	5.20	1.25	9.80	16.25	5	\$81.25
KK to LL 0 570 (Jawrun)	5.33	3.55	9.80	18.68	360	\$6,724.80
KK to LL Junction Rock 0 (Jawrun)	5.27	3.55	9.80	18.62	30	\$558.60
KK to LL Landing Rock 570 (Jawrun)	5.39	3.55	9.80	18.74	80	\$1,499.20
MM to NN 0 620 (Jawrun)	5.43	3.55	9.80	18.78	380	\$7,136.40
MM to NN Junction Rock 0 (Jawrun)	5.37	3.55	9.80	18.72	30	\$561.60
MM to NN Landing Rock 405 (Jawrun)	5.45	3.55	9.80	18.80	70	\$1,316.00
MM to NN Landing Rock 620 (Jawrun)	5.50	3.55	9.80	18.85	80	\$1,508.00
OO to PP 0 545 (Jawrun)	5.56	3.55	9.80	18.91	340	\$6,429.40
OO to PP Junction Rock 0 (Jawrun)	5.50	3.55	9.80	18.85	30	\$565.50
OO to PP Landing Rock 545 (Jawrun)	5.61	3.55	9.80	18.96	70	\$1,327.20
QQ to RR 0 170 (Jawrun)	3.41	3.55	9.80	16.76	100	\$1,676.00
QQ to RR Junction Rock 0 (Jawrun)	5.62	3.55	9.80	18.97	30	\$569.10
QQ to RR Landing Rock 170 (Jawrun)	3.42	3.55	9.80	16.77	70	\$1,173.90
500yd 4'-0" Jawrun Stockpile	1.28	0.70	9.80	11.78	500	\$5,890.00
Total C.Y.				13595	Sub Total	\$239,127.75

TOTAL ROCKING COSTS \$239,127.75

Move-In Calculations for Project Work not Involving Rocking/Pit Work

Sale: **Schmeagle Hill**

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
30.4	Pavement	30
0.0	Main Lines	7
3.6	Steep Grades	2

No.	EQUIPMENT DESCRIPTION	Move in Cost	Pilot Cars	Within Area Move (\$/mile)	Begin Mileage	End Mileage	Total Miles	Within Area Cost	Total Cost
1	Brush Cutter	\$455.80		\$4.00	0.00	6.40	6.4	\$25.60	\$481.40
1	Graders	\$586.03		\$3.65	0.00	7.30	7.3	\$26.65	\$612.68
1	Rollers (smooth/grid) & Compactors	\$373.30		\$5.00	0.00	7.30	7.3	\$36.50	\$409.80
1	Excavators (Large)	\$703.14	1	\$44.80	0.00	7.30	7.3	\$327.04	\$1,030.18
1	Tractor (D8)	\$763.94	2	\$15.10	0.00	4.00	4	\$60.40	\$824.34
2	Dump Truck (Off Hiway)	\$1,349.54	1	\$4.75	0.00	7.30	7.3	\$69.35	\$1,418.89
TOTAL MOVE-IN COSTS:								\$4,777.29	

TC		TLOGSTVB		Log Stock Table - MBF																	
Project:										SCHH											
T01S R07W S31 T0100										T01S R07W S31 T0100											
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1												
01S	07W	31	UNIT1	0100	19.00	10	60	Date	5/10/2023												
									Time	7:43:35AM											
Spp	T	So	Gr	Log	Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches											
										2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DF		CO	2	40		238		238	62.6					12	22	102	39	52	10		
DF		CO	3	19		1		1	.2					1							
DF		CO	3	20		1		1	.1					1							
DF		CO	3	21		2		2	.6						2						
DF		CO	3	22		1		1	.2												
DF		CO	3	29		3		3	.8												
DF		CO	3	36		1		1	.3												
DF		CO	3	38		1		1	.3												
DF		CO	3	40		111	.5	111	29.2					11	30	33	11	17	8		
DF		CO	4	13		1		1	.2												
DF		CO	4	14		0		0	.1					0							
DF		CO	4	17		0		0	.1					0							
DF		CO	4	19		1		1	.3												
DF		CO	4	20		4		4	1.2												
DF		CO	4	21		1		1	.2												
DF		CO	4	22		1		1	.4												
DF		CO	4	24		3		3	.8												
DF		CO	4	26		1		1	.3												
DF		CO	4	28		5		5	1.4												
DF		CO	4	30		1		1	.3												
DF		CO	4	36		1		1	.3												
DF		CO	4	40		2		2	.4												
DF		Totals				380		380	85.3			19	15	35	34	23	42	110	39	52	10
RA		H	4	36		4	16.7	3	5.7					3							
RA		H	3	18		9		9	15.2						9						
RA		H	3	24		4		4	7.3						4						
RA		H	3	40		7	5.6	7	11.5							7					
RA		H	4	19		1		1	1.5												
RA		H	4	24		3		3	4.8												
RA		H	4	25		3		3	4.5												
RA		H	4	26		1		1	1.1												
RA		H	4	27		1		1	1.0												
RA		H	4	29		4		4	6.4												
RA		H	4	30		2		2	3.0												
RA		H	4	31		2		2	3.5												
RA		H	4	35		5		5	7.9												
RA		H	4	40		16	2.0	16	26.5						5						
RA		Totals				62	2.3	60	13.6				33	3	5	14	7				
WH		CO	3	40		3		3	100.0												
WH		Totals				3		3	.7												
RC		CO	4	40		2		2	100.0												
RC		Totals				2		2	.4												
Total All Species						447		445	100.0			21	47	41	39	36	49	110	39	52	10

TC		Stand Table Summary														
TSTNDSUM		Project SCHH														
T01S R07W S31 T0100											T01S R07W S31 T0100					
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1							
01S	07W	31	UNIT1	0100	19.00	10	60	Date:	05/10/2021							
								Time:	7:43:36AM							
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF
DF		8	1	77	55	9.629	3.36	9.63	4.9	20.0	1.33	47	193	25	9	4
DF		9	1	92	65	7.608	3.36	7.61	6.8	30.0	1.47	52	228	28	10	4
DF		12	1	85	77	4.279	3.36	4.28	17.1	60.0	2.09	73	257	40	14	5
DF		13	1	83	88	3.646	3.36	3.65	23.8	70.0	2.47	87	255	47	16	5
DF		14	1	77	72	3.144	3.36	6.29	13.2	40.0	2.36	83	252	45	16	5
DF		15	1	80	87	2.739	3.36	5.48	18.1	55.0	2.82	99	301	54	19	6
DF		16	2	84	78	4.814	6.72	4.81	19.9	70.0	2.73	96	337	52	18	6
DF		17	1	80	93	2.132	3.36	4.26	23.1	65.0	2.80	98	277	53	19	5
DF		18	1	83	95	1.902	3.36	3.80	28.2	90.0	3.06	107	342	58	20	7
DF		19	2	84	92	3.414	6.72	6.83	29.1	95.0	5.66	199	649	108	38	12
DF		20	3	83	111	4.622	10.08	9.24	36.2	115.0	9.55	335	1,063	181	64	20
DF		22	2	89	113	2.546	6.72	5.09	49.0	202.5	7.11	249	1,031	135	47	20
DF		23	2	82	120	2.330	6.72	5.82	45.9	176.0	7.62	267	1,025	145	51	19
DF		24	2	88	121	2.140	6.72	5.35	50.6	218.0	7.72	271	1,166	147	51	22
DF		26	1	86	125	.912	3.36	1.82	70.0	290.0	3.64	128	529	69	24	10
DF		27	3	82	125	2.536	10.08	5.92	65.5	244.3	11.04	387	1,445	210	74	27
DF		28	4	84	132	3.144	13.44	7.86	69.1	297.0	15.48	543	2,334	294	103	44
DF		29	3	86	122	2.198	10.08	4.40	86.7	353.3	10.86	381	1,553	206	72	30
DF		31	2	84	127	1.282	6.72	2.56	100.4	432.5	7.34	258	1,109	139	49	21
DF		32	1	85	111	.602	3.36	1.20	99.2	405.0	3.40	119	487	65	23	9
DF		33	1	91	136	.566	3.36	1.70	83.8	420.0	4.06	142	713	77	27	14
DF		34	1	91	132	.533	3.36	1.60	89.5	443.3	4.08	143	709	78	27	13
DF		35	1	88	156	.503	3.36	1.51	109.4	550.0	4.71	165	830	89	31	16
DF		36	2	89	137	.951	6.72	2.85	102.8	521.7	8.36	293	1,488	159	56	28
DF		38	1	87	127	.427	3.36	.85	153.5	725.0	3.73	131	619	71	25	12
DF		47	1	88	140	.279	3.36	.84	182.8	940.0	4.36	153	787	83	29	15
DF		Totals	42	84	92	68.878	141.16	115.26	42.6	173.4	139.84	4,907	19,981	2,657	932	380
RA		11	2	88	67	10.186	6.72	10.19	9.8	35.0	2.75	100	356	52	19	7
RA		13	1	83	63	3.646	3.36	3.65	20.1	50.0	2.02	73	182	38	14	3
RA		14	2	90	58	6.288	6.72	6.29	21.7	60.0	3.75	136	377	71	26	7
RA		15	3	78	60	8.216	10.08	8.22	28.4	60.0	6.42	233	493	122	44	9
RA		16	3	87	64	7.221	10.08	12.04	17.3	64.0	5.73	208	770	109	40	15
RA		18	1	74	65	1.902	3.36	1.90	31.0	50.0	1.62	59	95	31	11	2
RA		19	1	83	64	1.707	3.36	1.71	50.3	140.0	2.36	86	239	45	16	5
RA		20	1	87	60	1.541	3.36	1.54	34.7	150.0	1.47	53	231	28	10	4
RA		23	1	88	63	1.165	3.36	1.16	33.8	30.0	1.08	39	35	21	7	1
RA		24	1	88	80	1.070	3.36	2.14	53.3	185.0	3.14	114	396	60	22	8
RA		Totals	16	85	63	42.942	53.78	48.83	22.6	65.0	30.34	1,103	3,175	576	210	60
WH		18	1	74	70	1.902	3.36	1.90	46.4	90.0	2.82	88	171	54	17	3
WH		Totals	1	74	70	1.902	3.36	1.90	46.4	90.0	2.82	88	171	54	17	3
RC		16	1	72	68	2.407	3.36	2.41	34.3	40.0	1.94	82	96	37	16	2
RC		Totals	1	72	68	2.407	3.36	2.41	34.3	40.0	1.94	82	96	37	16	2
Totals		60	84	81		116.129	201.66	168.40	36.7	139.1	174.94	6181	23,424	3,324	1,174	445

TC		TLOGSTVB		Log Stock Table - MBF																
Project:										SCHH										
T01S R07W S32 T0100										T01S R07W S32 T0100										
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1											
01S	07W	32	UNIT2	0100	17.00	13	74	Date	5/10/2023											
									Time	6:49:09AM										
Spp	T	S	So	Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches										
										MBF	Def	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15
DF		CO	2		40	122	.7	122	33.6					57	12	19	34			
DF		CO	3		20	3		3	.9					3						
DF		CO	3		21	2		2	.5					2						
DF		CO	3		22	0		0	.1		0									
DF		CO	3		28	4		4	1.2					4						
DF		CO	3		29	1		1	.2		1									
DF		CO	3		40	172	.2	171	47.4		33	54		76	5	3				
DF		CO	4		14	0		0	.1					0						
DF		CO	4		15	1		1	.4		1									
DF		CO	4		16	0		0	.1					0						
DF		CO	4		19	1		1	.3		1			0						
DF		CO	4		20	1		1	.4		1									
DF		CO	4		21	1		1	.4		1									
DF		CO	4		23	1		1	.2		1									
DF		CO	4		24	5		5	1.3		5									
DF		CO	4		26	1		1	.4		1									
DF		CO	4		27	3		3	.8		3									
DF		CO	4		28	1		1	.3		1									
DF		CO	4		29	2		2	.6		2									
DF		CO	4		30	4		4	1.0		4									
DF		CO	4		31	2		2	.7		2									
DF		CO	4		33	3		3	.9		3									
DF		CO	4		37	2		2	.5		2									
DF		CO	4		38	3		3	.9		3									
DF		CO	4		39	4		4	1.1		4									
DF		CO	4		40	18		18	5.0		10	8								
DF		CO	4		41	3		3	.7		3									
DF		Totals				363		361	83.9		48	42	55		86	62	15	19	34	
RA		H	3		40	5		5	10.3					5						
RA		H	4		15	2		2	4.0		2									
RA		H	4		16	2		2	3.3		2									
RA		H	4		17	1		1	1.4		1									
RA		H	4		19	2		2	4.0		2									
RA		H	4		26	3		3	5.9		3									
RA		H	4		27	2		2	4.9		2									
RA		H	4		33	5		5	9.9		5									
RA		H	4		34	1		1	3.1		1									
RA		H	4		39	1		1	2.2		1									
RA		H	4		40	26	3.6	25	51.0		6	18								
RA		Totals				49	1.9	48	11.2		25	18	5							
SS		CO	3		20	2	7.1	2	45.6					2						
SS		CO	4		26	2		2	54.4		2									
SS		Totals				5	3.4	4	1.0		2			2						
WH		CO	2		40	10		10	60.3								10			
WH		CO	3		30	3		3	20.7			3								
WH		CO	3		40	3		3	17.2				3							
WH		CO	4		14	0		0	1.7			0								

TC TLOGSTVB

Log Stock Table - MBF
Project: SCHH

T01S R07W S32 T0100

T01S R07W S32 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	2
01S	07W	32	UNIT2	0100	17.00	13	74	Date	5/10/2023
								Time	6:49:09AM

Spp	T	S	So	Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches										
										MBF	Def	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15
						16		16	3.8				4		3			10		
					Totals								51	67	77	91	65	17	19	44

TC		Stand Table Summary														
TSTNDSUM		Project SCHH														
T01S R07W S32 T0100											T01S R07W S32 T0100					
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1							
01S	07W	32	UNIT2	0100	17.00	13	74	Date:	04/28/2021							
								Time:	6:36:05AM							
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF
DF		9	2	69	56	13.929	6.15	6.96	11.6	40.0	2.30	81	279	39	14	5
DF		10	1	86	90	5.641	3.08	5.64	11.3	40.0	1.81	64	226	31	11	4
DF		11	2	86	87	9.325	6.15	18.65	10.5	50.0	5.61	197	932	95	33	16
DF		12	3	87	94	11.753	9.23	23.51	12.1	50.0	8.10	284	1,175	138	48	20
DF		13	1	92	101	3.338	3.08	6.68	16.2	75.0	3.08	108	501	52	18	9
DF		14	2	83	92	5.757	6.15	11.51	16.4	62.5	5.39	189	720	92	32	12
DF		15	9	85	92	22.566	27.69	42.62	21.3	80.0	25.83	906	3,410	439	154	58
DF		16	8	87	100	17.629	24.62	35.26	23.6	94.4	23.69	831	3,328	403	141	57
DF		17	3	83	107	5.856	9.23	11.71	28.3	105.0	9.46	332	1,230	161	56	21
DF		18	1	89	98	1.741	3.08	3.48	32.8	120.0	3.26	114	418	55	19	7
DF		19	3	84	105	4.688	9.23	9.38	36.6	130.0	9.77	343	1,219	166	58	21
DF		20	3	88	100	4.231	9.23	8.46	37.8	133.3	9.13	320	1,128	155	54	19
DF		21	2	84	118	2.558	6.15	6.40	37.5	142.0	6.83	240	908	116	41	15
DF		22	4	82	89	4.662	12.31	8.16	40.4	140.0	9.39	330	1,142	160	56	19
DF		23	1	80	88	1.066	3.08	2.13	46.8	140.0	2.84	100	299	48	17	5
DF		24	1	78	107	.979	3.08	1.96	51.9	145.0	2.90	102	284	49	17	5
DF		26	1	85	137	.835	3.08	2.50	56.2	253.3	4.01	141	634	68	24	11
DF		28	1	85	114	.720	3.08	1.44	78.6	310.0	3.22	113	446	55	19	8
DF		30	1	85	134	.627	3.08	1.88	71.6	326.7	3.84	135	614	65	23	10
DF		32	2	77	121	1.102	6.15	2.20	105.2	367.5	6.61	232	810	112	39	14
DF		33	2	84	128	1.036	6.15	2.59	98.6	424.0	7.28	255	1,098	124	43	19
DF		34	1	79	106	.488	3.08	.98	121.5	470.0	3.38	119	459	57	20	8
DF	Totals	54	84	92		120.529	166.15	214.11	25.8	99.3	157.72	5,534	21,259	2,681	941	361
RA		10	3	77	63	16.924	9.23	16.92	9.6	33.3	4.49	163	564	76	28	10
RA		11	2	79	35	9.325	6.15	9.32	9.2	25.0	2.36	86	233	40	15	4
RA		14	4	84	81	11.513	12.31	17.27	20.4	61.7	9.71	353	1,065	165	60	18
RA		15	2	82	69	5.015	6.15	5.01	34.1	100.0	4.71	171	501	80	29	9
RA		17	1	89	81	1.952	3.08	3.90	24.4	85.0	2.62	95	332	44	16	6
RA		18	1	94	73	1.741	3.08	1.74	27.1	50.0	1.30	47	87	22	8	1
RA		25	1	55	67	.903	3.08	.90	39.7	70.0	.98	36	63	17	6	1
RA	Totals	14	80	64		47.373	43.08	55.08	17.3	51.7	26.16	951	2,846	445	162	48
WH		13	1	82	32	3.338	3.08	3.34	19.1	60.0	2.04	64	200	35	11	3
WH		26	1	93	134	.835	3.08	2.50	59.7	306.7	4.78	149	768	81	25	13
WH	Totals	2	84	52		4.173	6.15	5.84	36.5	165.7	6.82	213	968	116	36	16
SS		11	1	88	50	4.662	3.08	4.66	10.4	30.0	1.25	48	140	21	8	2
SS		25	1	71	67	.903	3.08	.90	47.6	130.0	1.12	43	117	19	7	2
SS		28	1	83	98	.720	3.08									
SS	Totals	3	85	58		6.285	9.23	5.56	16.4	46.2	2.37	91	257	40	16	4
OC		23	1	80	68	1.066	3.08									
OC	Totals	1	80	68		1.066	3.08									
Totals		74	83	82		179.425	227.69	280.60	24.2	90.3	193.07	6790	25,330	3,282	1,154	431

TC		TLOGSTVB		Log Stock Table - MBF													
Project:										SCHH							
T02S R07W S05 T0100										T02S R07W S05 T0100							
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1								
02S	07W	05	UNIT3	0100	86.00	23	114	Date	4/28/2023								
									Time	6:40:22AM							
Spp	T	So	Gr	Log	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches								
									2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23
DF	CO	2	16		12		12	.7							12		
DF	CO	2	32		17		17	1.0					17				
DF	CO	2	40		764	1.1	756	43.2					341	225	165	26	
DF	CO	3	24		12		12	.7			3		9				
DF	CO	3	27		2		2	.1				2					
DF	CO	3	28		6		6	.4				6					
DF	CO	3	31		3		3	.2			3						
DF	CO	3	33		10		10	.6				10					
DF	CO	3	40		713	.2	712	40.7			194	165	346	7			
DF	CO	4	12		2		2	.1		2							
DF	CO	4	13		1		1	.1		1							
DF	CO	4	14		4		4	.2		3		1					
DF	CO	4	15		4		4	.2		4							
DF	CO	4	16		3		3	.2		3							
DF	CO	4	17		10		10	.6		10							
DF	CO	4	20		4		4	.2		4							
DF	CO	4	21		18		18	1.0		18							
DF	CO	4	22		19		19	1.1		5	13						
DF	CO	4	23		3		3	.2		3							
DF	CO	4	24		17		17	1.0		17							
DF	CO	4	25		7		7	.4		7							
DF	CO	4	26		2		2	.1			2						
DF	CO	4	27		9		9	.5		7	2						
DF	CO	4	29		4		4	.2		4							
DF	CO	4	30		6		6	.4		6							
DF	CO	4	31		3		3	.2			3						
DF	CO	4	33		14		14	.8		14							
DF	CO	4	36		14		14	.8			3		12				
DF	CO	4	37		10		10	.6		10							
DF	CO	4	38		7		7	.4		7							
DF	CO	4	39		4		4	.2		4							
DF	CO	4	40		54		54	3.1		54							
DF	Totals				1,758		1,749	78.2		184	222	183	355	365	236	176	26
RA	CO	3	38		3		3	.6			3						
RA	CO	3	40		17		17	3.5			17						
RA	CO	4	13		4		4	.8		4							
RA	H	2	16		28		28	5.8					9	19			
RA	H	2	17		11		11	2.2				11					
RA	H	2	28		16	3.6	15	3.1						15			
RA	H	3	16		9		9	1.8					9				
RA	H	3	40		93		93	19.1				93					
RA	H	4	12		1		1	.2			1						
RA	H	4	13		7		7	1.4			7						
RA	H	4	14		2		2	.3			2						
RA	H	4	16		2		2	.4			2						
RA	H	4	17		2		2	.4			2						
RA	H	4	18		2		2	.4			2						
RA	H	4	19		3		3	.7			3						
RA	H	4	20		1		1	.2			1						

Log Stock Table - MBF

Project: SCHH

T02S R07W S05 T0100

T02S R07W S05 T0100

Twp Rge Sec Tract Type Acres Plots Sample Trees
02S 07W 05 UNIT3 0100 86.00 23 114

Page 2
Date 4/28/2023
Time 6:40:22AM

Spp	T	S	So	Gr	Log	Gross	% Def	Net	% Spc	Net Volume by Scaling Diameter in Inches										
										MBF	MBF	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23
RA	H	4	23			12		12	2.5			3	10							
RA	H	4	24			11		11	2.2			11								
RA	H	4	26			8		8	1.7			8								
RA	H	4	27			3		3	.7			3								
RA	H	4	28			21		21	4.4			21								
RA	H	4	30			11		11	2.2			3	7							
RA	H	4	31			4		4	.9			4								
RA	H	4	32			25	7.7	23	4.7			11	11							
RA	H	4	34			10		10	2.0			10								
RA	H	4	35			11		11	2.3			11								
RA	H	4	36			17	8.3	15	3.2			15								
RA	H	4	38			11		11	2.3			11								
RA	H	4	39			10		10	2.0			10								
RA	H	4	40			138	1.3	136	28.0			84	53							
RA		Totals				493	1.2	487	21.8			233	98	93	19	9	34			
Total All Species						2,251		2,236	100.0		184	455	282	448	385	246	210	26		

TC		TSTNDSUM											Stand Table Summary			
Project														SCHH		
T02S R07W S05 T0100											T02S R07W S05 T0100					
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1							
02S	07W	05	UNIT3	0100	86.00	23	114	Date:	04/28/2022							
								Time:	6:40:21AM							
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF
DF		8	1	70	74	6.395	2.23	6.40	5.1	20.0	.93	33	128	80	28	11
DF		9	2	83	90	10.106	4.46	15.16	6.9	33.3	2.98	105	505	257	90	43
DF		11	4	83	91	13.530	8.93	20.30	11.9	45.0	6.86	241	913	590	207	79
DF		12	1	82	101	2.842	2.23	5.68	13.0	50.0	2.11	74	284	182	64	24
DF		13	5	87	95	12.109	11.16	24.22	13.9	53.0	9.62	338	1,284	827	290	110
DF		14	2	83	112	4.176	4.46	8.35	18.1	62.5	4.31	151	522	371	130	45
DF		16	3	85	107	4.796	6.70	9.59	24.5	95.0	6.71	235	911	577	202	78
DF		17	7	87	102	9.601	15.13	22.03	23.7	88.1	14.86	521	1,942	1,278	448	167
DF		18	8	87	110	10.106	17.86	21.47	29.5	111.8	18.02	632	2,400	1,550	544	206
DF		19	4	87	119	4.535	8.93	11.34	30.5	125.0	9.86	346	1,417	848	297	122
DF		20	7	89	110	7.163	15.63	15.35	34.9	131.3	15.26	535	2,016	1,312	461	173
DF		21	5	82	124	4.640	11.16	9.28	44.6	170.0	11.81	414	1,578	1,015	356	136
DF		22	4	83	123	3.383	8.93	8.46	38.8	148.0	9.35	328	1,252	805	282	108
DF		23	5	86	130	3.869	11.16	10.83	40.7	165.0	12.56	441	1,787	1,080	379	154
DF		24	2	87	131	1.421	4.46	3.55	49.2	200.0	4.98	175	711	428	150	61
DF		25	2	89	127	1.310	4.46	3.27	53.7	226.0	5.01	176	740	431	151	64
DF		27	2	81	138	1.123	4.46	2.25	68.9	287.5	4.41	155	646	379	133	56
DF		28	1	88	143	.522	2.23	1.57	65.9	306.7	2.94	103	480	253	89	41
DF		30	1	71	100	.455	2.23	.91	78.8	205.0	2.04	72	186	176	62	16
DF		31	1	85	133	.426	2.23	1.28	69.7	306.7	2.54	89	392	218	77	34
DF		32	1	81	128	.400	2.23	.40	151.1	600.0	1.72	60	240	148	52	21
DF	Totals	68	84	104		102.907	151.30	201.69	25.9	100.8	148.89	5,224	20,334	12,805	4,493	1,749
RA		10	1	71	37	3.189	1.74	3.19	11.1	30.0	.98	35	96	84	31	8
RA		11	5	77	73	13.176	8.70	15.81	14.1	48.3	6.13	223	764	527	192	66
RA		12	5	86	67	11.072	8.70	15.50	13.4	51.4	5.72	208	797	492	179	69
RA		13	5	87	69	9.434	8.70	11.32	18.0	56.7	5.62	204	642	483	176	55
RA		14	3	79	63	4.881	5.22	4.88	25.1	60.0	3.38	123	293	290	106	25
RA		15	3	83	63	4.252	5.22	4.25	21.7	60.0	2.53	92	255	218	79	22
RA		16	6	83	91	7.473	10.43	13.70	20.8	73.6	7.82	285	1,009	673	245	87
RA		17	2	84	82	2.207	3.48	4.41	23.2	72.5	2.82	103	320	242	88	28
RA		18	6	86	77	5.905	10.43	9.84	24.2	80.0	6.55	238	787	563	205	68
RA		19	2	85	74	1.767	3.48	.88	44.2	120.0	1.07	39	106	92	34	9
RA		22	2	86	98	1.318	3.48	3.29	30.4	130.0	2.75	100	428	237	86	37
RA		26	2	74	67	.943	3.48	1.42	47.3	116.7	1.84	67	165	158	58	14
RA	Totals	42	82	71		65.615	73.04	88.50	19.4	64.0	47.20	1,716	5,662	4,059	1,476	487
OC		14	1	85	59	1.627	1.74									
OC		15	1	86	118	2.126	2.61									
OC		17	1	83	89	1.655	2.61									
OC		20	1	86	125	.797	1.74									
OC	Totals	4	85	96		6.205	8.70									
Totals		114	84	91		174.727	233.04	290.19	23.9	89.6	196.09	6941	25,996	16,864	5,969	2,236

TC TLOGSTVB		Log Stock Table - MBF																	
Project:										SCHH									
T02S R07W S05 T0100										T02S R07W S05 T0100									
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees				Page	2							
02S	07W	05	UNIT4	0100	68.00	25	102				Date	5/10/2023							
											Time	6:32:01AM							
S	So Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches												
Spp	T	rt de	Len	MBF	Def	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
Total All Species			1,861		1,858	100.0		119	360	267	442	265	191	175	40				

TC		TSTNDSUM											Stand Table Summary			
Project														SCHH		
T02S R07W S05 T0100											T02S R07W S05 T0100					
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1		Date: 05/10/2022					
02S	07W	05	UNIT4	0100	68.00	25	102	Time:	6:32:02AM							
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net	Net	Totals			
		DBH	Trees	FF				Ht	Tot		Net	Net	Cu.Ft.	Bd.Ft.	Tons	Cunits
DF		9	2	77	66	9.877	4.36	9.88	9.3	35.0	2.60	91	346	177	62	24
DF		11	2	79	94	6.612	4.36	9.92	12.4	46.7	3.51	123	463	239	84	31
DF		12	5	80	91	13.890	10.91	22.22	13.6	47.5	8.60	302	1,056	585	205	72
DF		13	4	83	96	9.468	8.73	18.94	13.4	46.3	7.25	255	876	493	173	60
DF		14	4	82	99	8.164	8.73	16.33	17.7	62.5	8.23	289	1,020	559	196	69
DF		15	3	80	106	5.334	6.55	10.67	21.5	80.0	6.54	230	853	445	156	58
DF		16	2	85	95	3.125	4.36	6.25	22.5	82.5	4.00	140	516	272	95	35
DF		17	6	82	99	8.305	13.09	16.61	25.8	91.7	12.20	428	1,523	830	291	104
DF		18	5	81	114	6.173	10.91	14.82	28.1	100.0	11.85	416	1,482	806	283	101
DF		19	9	82	110	9.973	19.64	22.16	32.0	112.0	20.23	710	2,482	1,375	483	169
DF		20	4	80	125	4.000	8.73	11.00	31.1	117.3	9.76	342	1,290	663	233	88
DF		21	3	85	117	2.721	6.55	5.44	41.7	166.7	6.47	227	907	440	154	62
DF		22	3	87	129	2.480	6.55	7.44	38.9	171.1	8.24	289	1,273	561	197	87
DF		23	1	81	100	.756	2.18	1.51	52.2	175.0	2.25	79	265	153	54	18
DF		24	3	82	112	2.083	6.55	4.86	51.5	201.4	7.13	250	979	485	170	67
DF		25	1	78	112	.640	2.18	1.28	64.9	225.0	2.37	83	288	161	56	20
DF		26	3	82	122	1.775	6.55	4.14	64.3	262.9	7.59	266	1,089	516	181	74
DF		27	1	85	115	.549	2.18	1.65	53.4	233.3	2.51	88	384	170	60	26
DF		28	3	82	130	1.531	6.55	3.57	67.8	287.1	6.90	242	1,026	469	165	70
DF		29	1	85	141	.476	2.18	1.43	74.1	350.0	3.01	106	499	205	72	34
DF		35	1	78	118	.327	2.18	.65	132.0	500.0	2.46	86	327	167	59	22
DF	Totals	66	81	100	98.259	144.00	190.77	26.4	99.3	143.71	5,042	18,942	9,772	3,429	1,288	
RA	10	2	77	90	10.512	5.73	15.77	11.1	50.0	4.82	175	788	327	119	54	
RA	11	1	80	114	4.344	2.87	8.69	11.0	45.0	2.63	96	391	179	65	27	
RA	12	1	81	98	3.650	2.87	7.30	11.9	40.0	2.39	87	292	163	59	20	
RA	13	2	77	110	6.220	5.73	9.33	21.1	70.0	5.41	197	653	368	134	44	
RA	15	3	82	102	7.008	8.60	14.02	22.9	88.3	8.83	321	1,238	601	218	84	
RA	16	4	82	93	8.212	11.47	14.37	25.0	91.4	9.89	360	1,314	673	245	89	
RA	17	3	82	92	5.456	8.60	10.91	26.7	96.7	8.01	291	1,055	544	198	72	
RA	18	2	77	82	3.244	5.73	3.24	35.5	130.0	3.16	115	422	215	78	29	
RA	19	2	86	93	2.912	5.73	5.82	34.7	117.5	5.55	202	684	377	137	47	
RA	20	1	81	81	1.314	2.87	2.63	37.6	115.0	2.71	99	302	185	67	21	
RA	21	1	86	107	1.192	2.87	2.38	41.9	140.0	2.75	100	334	187	68	23	
RA	25	1	88	86	.841	2.87	.84	87.4	360.0	2.02	73	303	137	50	21	
RA	28	1	87	95	.670	2.87	.67	120.9	530.0	2.23	81	355	152	55	24	
RA	Totals	24	80	96	55.575	68.80	95.98	22.9	84.7	60.41	2,197	8,131	4,108	1,494	553	
OC	15	1	82	75	1.304	1.60										
OC	17	1	82	119	1.015	1.60	2.03	30.9	120.0	1.57	63	244	107	43	17	
OC	20	1	87	114	.733	1.60										
OC	Totals	3	83	99	3.052	4.80	2.03	30.9	120.0	1.57	63	244	107	43	17	
Totals		93	81	99	156.887	217.60	288.77	25.3	94.6	205.69	7302	27,317	13,987	4,965	1,858	

Log Stock Table - MBF

Project: SCHH

T02S R07W S07 T0100

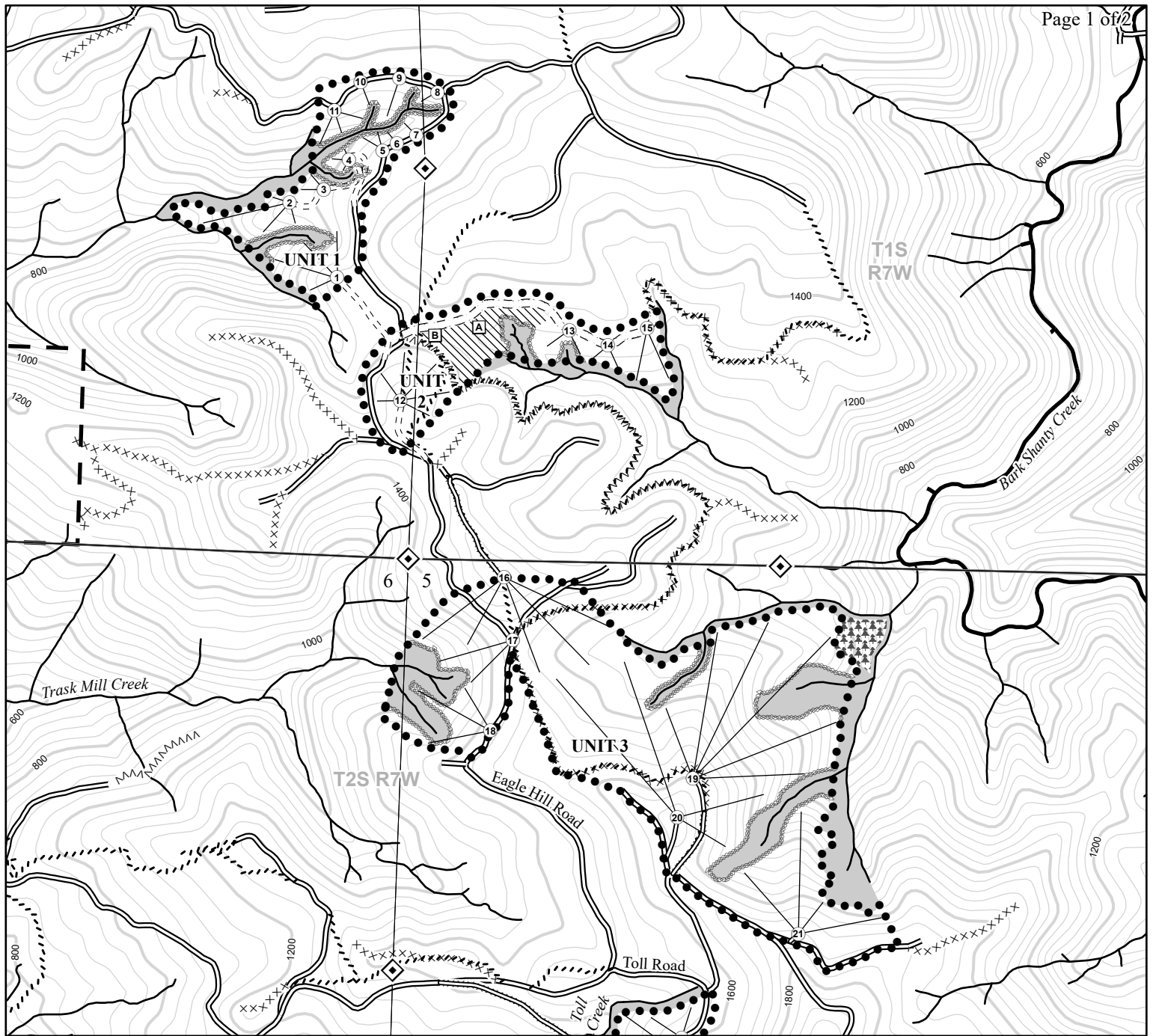
T02S R07W S07 T0100

Twp Rge Sec Tract Type Acres Plots Sample Trees
02S 07W 07 UNIT5 0100 110.00 31 124

Page 2
Date 5/10/2023
Time 6:37:40AM

Spp	T	S	So	Gr	Log	Gross	% Def	Net	% Spc	Net Volume by Scaling Diameter in Inches								
										MBF	MBF	2-3	4-5	6-7	8-9	10-11	12-13	14-15
RA	H	4	29	8	25.0	6	1.0				6							
RA	H	4	30	20		20	3.4				20							
RA	H	4	31	11		11	1.8				11							
RA	H	4	33	6		6	1.1				6							
RA	H	4	34	6		6	1.1				6							
RA	H	4	35	9		9	1.6				9							
RA	H	4	36	9		9	1.5				9							
RA	H	4	37	11		11	1.9				11							
RA	H	4	38	7		7	1.3				7							
RA	H	4	39	7		7	1.3				7							
RA	H	4	40	223	1.4	220	37.5				84	136						
RA		Totals		598	1.9	586	20.5				236	154	126	50	20			
Total All Species				2,892		2,867	100.0			152	384	479	545	363	380	510	53	

TC		TSTNDSUM											Stand Table Summary			
Project														SCHH		
T02S R07W S07 T0100											T02S R07W S07 T0100					
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1							
02S	07W	07	UNIT5	0100	110.00	31	124	Date:	05/10/2022							
								Time:	6:37:41AM							
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF
DF		11	3	88	83	8.760	5.78	11.68	12.3	47.5	4.08	143	555	449	157	61
DF		12	2	86	92	4.907	3.85	7.36	14.3	53.3	3.00	105	393	330	116	43
DF		13	2	87	103	4.181	3.85	6.27	18.0	73.3	3.22	113	460	355	124	51
DF		14	4	82	102	7.211	7.71	12.62	18.0	58.6	6.47	227	739	711	250	81
DF		15	3	79	87	4.711	5.78	7.85	20.6	62.0	4.62	162	487	508	178	54
DF		16	5	85	109	6.901	9.64	15.18	22.1	84.5	9.55	335	1,284	1,051	369	141
DF		17	7	80	105	8.558	13.49	17.12	25.9	97.1	12.63	443	1,663	1,389	488	183
DF		18	4	84	106	4.362	7.71	8.72	31.2	110.0	7.75	272	960	853	299	106
DF		19	2	86	113	1.957	3.85	4.89	30.8	112.0	4.29	151	548	472	166	60
DF		20	5	84	121	4.417	9.64	12.37	32.0	123.6	11.28	396	1,528	1,241	435	168
DF		21	8	86	123	6.410	15.42	17.63	35.7	142.7	17.91	628	2,516	1,970	691	277
DF		22	4	83	118	2.920	7.71	7.30	41.2	154.0	8.58	301	1,124	944	331	124
DF		23	2	84	119	1.336	3.85	3.34	47.2	198.0	4.49	158	661	494	173	73
DF		24	3	83	125	1.840	5.78	4.91	50.0	206.3	7.00	246	1,012	770	270	111
DF		25	6	83	121	3.392	11.56	7.35	51.5	212.3	10.78	378	1,560	1,185	416	172
DF		26	4	82	131	2.091	7.71	5.75	56.4	230.0	9.25	324	1,322	1,017	357	145
DF		27	3	83	132	1.454	5.78	4.36	55.9	232.2	6.95	244	1,013	765	268	111
DF		28	4	85	128	1.803	7.71	4.51	67.1	296.0	8.61	302	1,334	948	332	147
DF		30	1	78	122	.393	1.93	1.18	65.3	243.3	2.19	77	287	241	85	32
DF		31	1	82	127	.368	1.93	.74	87.5	335.0	1.83	64	246	202	71	27
DF		32	2	78	123	.690	3.85	1.73	89.2	346.0	4.38	154	597	482	169	66
DF		36	1	79	43	.273	1.93	.27	125.5	200.0	.97	34	55	107	38	6
DF		37	1	74	153	.258	1.93	.77	118.0	506.7	2.60	91	392	286	100	43
DF	Totals	77	84	107		79.192	148.39	163.89	32.6	126.5	152.46	5,349	20,735	16,770	5,884	2,281
RA		11	4	77	67	9.598	6.33	9.60	13.7	45.0	3.61	131	432	397	145	48
RA		12	4	71	74	8.065	6.33	8.07	11.5	37.5	2.55	93	302	281	102	33
RA		13	5	80	67	8.590	7.92	8.59	20.2	60.0	4.77	173	515	525	191	57
RA		14	3	79	78	4.444	4.75	5.93	21.4	67.5	3.48	127	400	383	139	44
RA		15	6	79	79	7.742	9.50	11.61	21.8	66.7	6.95	253	774	765	278	85
RA		16	8	78	84	9.073	12.67	13.61	24.1	80.8	9.02	328	1,100	992	361	121
RA		17	3	82	85	3.014	4.75	5.02	31.3	98.0	4.33	157	492	476	173	54
RA		18	5	79	75	4.481	7.92	7.17	30.7	86.2	6.05	220	618	666	242	68
RA		19	1	78	90	.804	1.58	.80	44.2	120.0	.98	36	97	107	39	11
RA		20	1	72	86	.726	1.58	1.45	38.1	95.0	1.52	55	138	167	61	15
RA		21	1	83	64	.658	1.58	.66	53.5	70.0	.97	35	46	106	39	5
RA		22	2	81	84	1.200	3.17	1.80	49.4	130.0	2.44	89	234	269	98	26
RA		24	1	80	96	.504	1.58	.50	92.7	360.0	1.29	47	181	141	51	20
RA	Totals	44	78	76		58.900	69.68	74.81	23.3	71.3	47.96	1,744	5,331	5,276	1,919	586
SS		15	1	69	58	1.051	1.29									
SS	Totals	1	69	58		1.051	1.29									
Totals		122	81	93		139.144	219.35	238.71	29.7	109.2	200.42	7094	26,066	22,046	7,803	2,867



- Legend**
- ◆ Corners
 - Cable Landing
 - Tractor Landing
 - Cable Logging
 - ▨ Ground Based
 - Recreation Trail
 - == Surfaced Road
 - - - Unsurfaced Road
 - xxx Blocked Road
 - v v v Abandoned Road
 - Type-F Stream
 - Type-N Stream
 - ▲▲▲ Green Tree Retention
 - Sections
 - 200' Contour
 - 40' Contour
 - ▤ Riparian Boundary
 - Timber Sale Boundary
 - ┌┐ Property Line

LOGGING PLAN

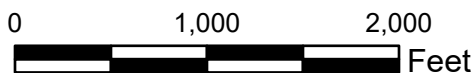
FOR TIMBER SALE CONTRACT TL-341-2024-W00961-01
 SCHMEAGLE HILL
 PORTIONS OF SECTIONS 5, 6, 7, 8 of T2S R7W, AND 31, 32 of T1S R7W W.M.
 TILLAMOOK COUNTY, OREGON

Tillamook District GIS
 JUNE 2023

This product is for informational use and may not be
 suitable for legal, engineering, or surveying purposes.

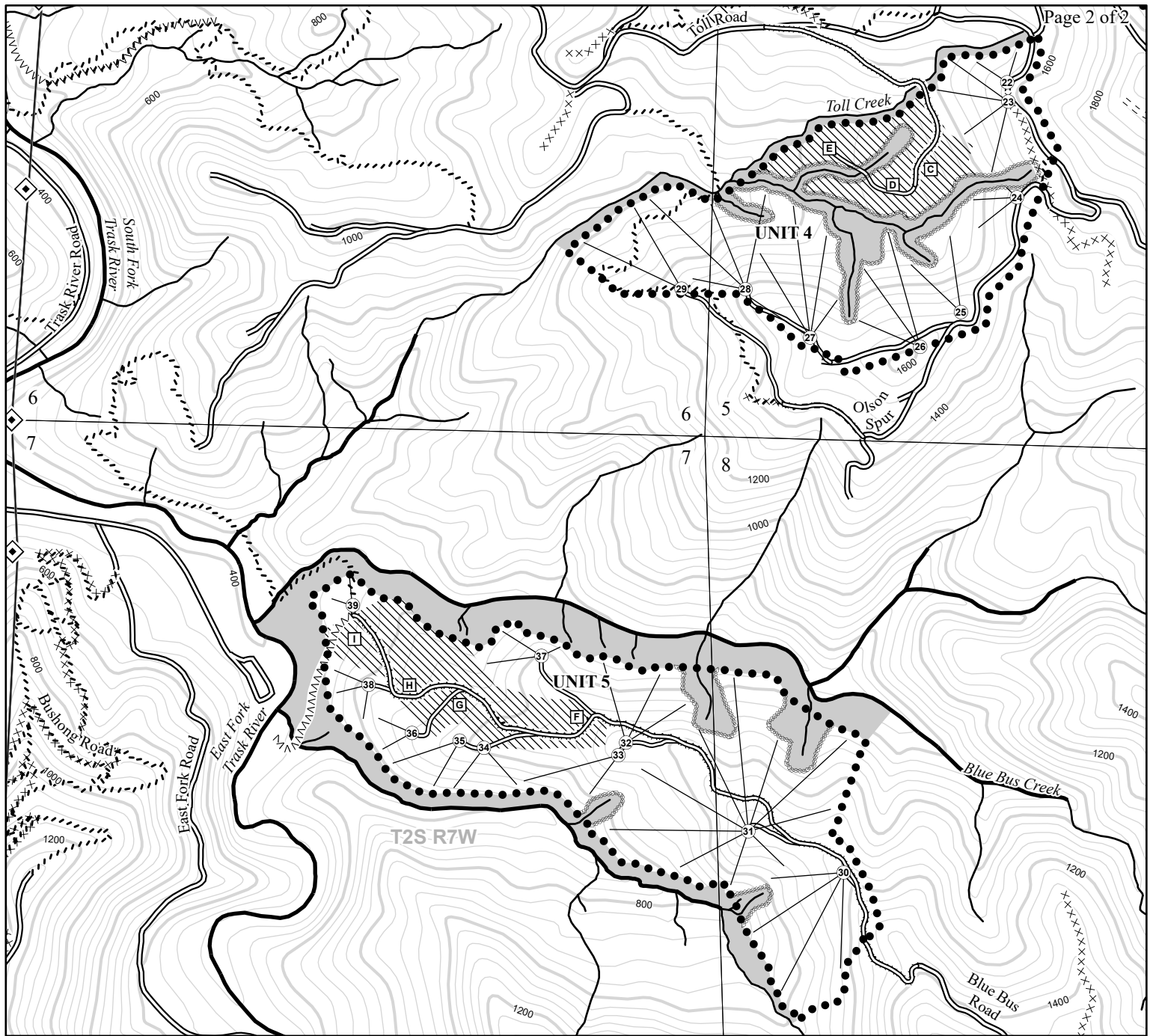
1:12,000

1 inch = 1,000 feet



NET ACRES

	GROUND	CABLE	TOTAL
UNIT 1	0	19	19
UNIT 2	5	12	17
UNIT 3	0	86	86
UNIT 4	14	54	68
UNIT 5	21	89	110
TOTAL	40	260	300



- Legend**
- ◆ Corners
 - Cable Landing
 - Tractor Landing
 - Cable Logging
 - ▨ Ground Based
 - ⋯ Recreation Trail
 - == Highways
 - == Surfaced Road
 - - - Unsurfaced Road
 - xxx Blocked Road
 - v v v Abandoned Road
 - Type-F Stream
 - Type-N Stream
 - Sections
 - 200' Contour
 - 40' Contour
 - ⊘ Riparian Boundary
 - Timber Sale Boundary
 - ┌┐ Property Line

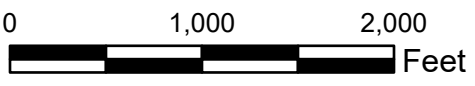
LOGGING PLAN

FOR TIMBER SALE CONTRACT TL-341-2024-W00961-01
 SCHMEAGLE HILL
 PORTIONS OF SECTIONS 5, 6, 7, 8 of T2S R7W, AND 31, 32 of T1S R7W W.M.
 TILLAMOOK COUNTY, OREGON

Tillamook District GIS
 JUNE 2023

This product is for informational use and may not be suitable for legal, engineering, or surveying purposes.

1:12,000
 1 inch = 1,000 feet



NET ACRES

	GROUND	CABLE	TOTAL
UNIT 1	0	19	19
UNIT 2	5	12	17
UNIT 3	0	86	86
UNIT 4	14	54	68
UNIT 5	21	89	110
TOTAL	40	260	300