

APPENDIX R

**ROAD CROSSINGS, POTENTIAL CONSTRUCTION
WORKER TRAVEL ROUTES, AND TYPICAL
CONSTRUCTION CREWS AND EQUIPMENT
ASSOCIATED WITH THE CAPACITY
REPLACEMENT PROJECT**

TABLE R-1

Roads Crossed by the Loops Associated with the Capacity Replacement Project

Facility/County	Milepost	Road Name	Surface	Proposed Crossing Method
Sumas Loop				
Whatcom	1484.41	Jones Road	Paved	Open-cut
	1483.87	Rock Road	Paved	Open-cut
	1483.82	Clarke Road (not built yet)	Dirt	Open-cut
	1483.29	Trail	Dirt	Open-cut
	1483.00	Hillview Road	Paved	HDD/open-cut
	1482.86	Kendall Road (State Highway 27)	Paved	HDD/open-cut
	1482.23	Sumas Road (old railroad grade)	Dirt	Open-cut
	1481.66	Benner Ridge Circle	Gravel	Open-cut
	1481.61	Benner Ridge Drive	Gravel	Open-cut
	1481.52	Minaker Road	Paved	Open-cut
	1481.49	Robinson Driveway	Gravel	Open-cut
	1481.48	Private Drive off Minaker Road	Gravel	Open-cut
	1480.02	Kamphouse Driveway	Paved	Open-cut
	1480.01	North Pass Road	Paved	Open-cut
	1478.69	Private Drive off Lebrant Road	Gravel	Open-cut
	1478.61	Lebrant Road	Paved	Open-cut
	1478.38	Fuller Driveway	Gravel	Open-cut
	1478.24	Larsen Driveway	Gravel	Open-cut
	1478.22	Jrnel Driveway	Gravel	Open-cut
	1478.16	South Pass Road	Paved	Open-cut
	1477.88	Pen Driveway	Gravel	Open-cut
	1477.83	Ladwig Driveway	Gravel	Open-cut
	1477.64	Great Western Lumber Company Road	Dirt	Open-cut
	1477.39	Private Drive off Goodwin Road	Gravel	Open-cut
	1477.10	Private Drive off Gilmore Road	Gravel	Open-cut
	1476.96	Private Drive off Gilmore Road	Gravel	Open-cut
	1476.83	Gilmore Road	Paved	Open-cut
	1476.54	Private Drive off Goodwin Road	Gravel	Open-cut
	1476.29	Cabrant Road	Paved	Open-cut
	1476.03	Private Drive off Goodwin Road	Gravel	Open-cut
	1475.76	Private Drive off Ocean Road	Gravel	Open-cut
	1475.55	Hopewell Road	Paved	Open-cut
	1475.30	Wallace Lane	Gravel	Open-cut
	1474.96	Private Drive off Goodwin Road	Gravel	Open-cut
	1474.66	Trillium Corp. / DNR Timber Road #1	Gravel	Open-cut
	1474.19	Trillium Corp. / DNR Timber Road #3	Gravel	Open-cut
	1474.00	Trillium Rock Quarry Road	Paved	Bore
	1473.67	Hoff Lane	Gravel	Open-cut
	1473.49	Hoff Road	Paved	Open-cut
	1472.77	Private Road off Finsrud Road	Gravel	Open-cut
	1472.71	Private Road off Finsrud Road	Gravel	Open-cut
	1472.57	Finsrud Road	Gravel	Open-cut
	1472.39	Driveway to Log Home Manufacturer	Gravel	Open-cut
	1472.25	Road to Block Valves 17-8 & 17L-8	Gravel	Open-cut
	1472.12	Private Drive	Gravel	Open-cut
	1472.04	Hilliard Road	Gravel	Open-cut

TABLE R-1 (cont'd)

Roads Crossed by the Loops Associated with the Capacity Replacement Project

Facility/County	Milepost	Road Name	Surface	Proposed Crossing Method
	1471.68	Groot Driveway	Gravel	Bore
	1471.36	East 45 th Drive	Gravel	Open-cut
	1470.92	Unnamed Road	Dirt	Open-cut
	1470.78	Webb Driveway	Gravel	Open-cut
	1470.67	Webb Driveway	Gravel	Open-cut
	1470.40	Engholm Driveway	Gravel	Open-cut
	1470.35	Mitchell Road	Gravel	Open-cut
	1470.31	Mitchell Driveway	Gravel	Open-cut
	1470.06	Schroeder Driveway	Gravel	Open-cut
	1469.95	Water Street	Gravel	Open-cut
	1469.24	Cronk Street	Gravel	Open-cut
	1469.15	Marshall Hill Road	Gravel	Open-cut
	1469.14	Forest Driveway	Gravel	Open-cut
	1468.91	Mount Baker Highway	Paved	Bore
	1468.12	Rutsatz Road	Paved	HDD/open-cut
	1467.43	Williams Lake Road	Gravel	Open-cut
	1467.01	Carroll Driveway	Gravel	Open-cut
	1466.73	Potter Road	Paved	Open-cut
	1466.33	Craig Driveway	Gravel	Open-cut
	1466.21	Baker Driveway off Nelson Road	Gravel	Open-cut
	1465.45	Nelson Road	Paved	Open-cut
	1464.73	Strand Road	Paved	Open-cut
	1463.75	Homesteader Road	Gravel	Open-cut
	1463.01	Wild Rose Road	Gravel	Open-cut
	1461.82	Mosquito Lake Road	Paved	Open-cut
Mount Vernon Loop				
Skagit	1431.25	WDNR Logging Road	Gravel	Open-cut
Snohomish	1429.72	Finn Settlement Road / 44 th Avenue NE	Paved	Open-cut
	1429.56	Private Logging Road off Finn Settlement (extension of Road Below)	Gravel	Open-cut
	1429.16	Private Logging Road off Finn Settlement	Gravel	Open-cut
	1428.64	Private Drive off Highway 9 (forks into 2)	Gravel	Open-cut
	1428.51	Private Logging Road off Highway 9	Gravel	HDD/open-cut
	1428.48	Old Pipeline Construction Road off Logging Road	Dirt	HDD/open-cut
	1427.97	Power Line/Logging Road off Main Logging Road	Gravel	Open-cut
	1427.60	59 th NE Avenue / Tree Farm Road	Paved	Open-cut
	1427.53	Private Drive off 59 th Avenue to block valves	Gravel	Open-cut
	1427.49	Private Drive off 59 th Avenue	Gravel	Open-cut
	1427.43	Private Drive off 59 th Avenue	Gravel	Open-cut
	1427.35	Private Drive	Gravel	Open-cut
	1426.76	Unnamed Road	Dirt	Open-cut
	1426.66	Grandview Road	Paved	Open-cut
	1425.84	Hammond Rhododendron Nursery Driveway	Gravel	Open-cut
	1425.78	Private Drive off Hammond Rhododendron Nursery Driveway	Gravel	Open-cut
	1424.74	Lake Armstrong Road	Paved	Open-cut

TABLE R-1 (cont'd)

Roads Crossed by the Loops Associated with the Capacity Replacement Project

Facility/County	Milepost	Road Name	Surface	Proposed Crossing Method
	1424.15	State Highway 530	Paved	HDD/bore
	1424.14	Private Drive off Highway 530 (Mulally)	Dirt	HDD/open-cut
	1424.07	Private Drive off Highway 530	Gravel	Open-cut
	1424.06	Private Drive off Highway 530	Gravel	Open-cut
	1423.97	Arlington Heights Road (234 th Street NE)	Paved	HDD/bore
	1423.49	Country Charm Dairy Farm Road / Gilman Avenue	Gravel	HDD/open-cut
	1422.59	92 nd Avenue NE	Gravel	Open-cut
	1422.41	212 th Street NE / Tueit Road	Paved	Open-cut
	1421.98	Baily Driveway	Gravel	Open-cut
	1421.89	Eskelin Driveway	Gravel	Open-cut
	1421.82	97 th Avenue NE – located in permanent easement	Gravel	Parallel open-cut on west edge of road
	1421.72	200 th Street NE	Paved	Open-cut
	1421.26	Bowen Driveway	Gravel	Open-cut
	1420.62	Mosses / Murril Driveway	Gravel	Open-cut
	1420.61	Burn Road	Paved	Open-cut
	1420.07	Private Drive off Burn Road	Gravel/Dirt	Open-cut
	1419.10	Private Drive off 156 th Street NE (Power Line Road)	Gravel	Open-cut
	1418.75	156 th Avenue NE	Paved	Open-cut
	1418.65	Bell Driveway	Gravel	Open-cut
	1418.38	Private Drive off 111 th (Shoemaker)	Gravel	Open-cut
	1418.18	Logging Road	Gravel	Open-cut
	1416.41	120 th Street (Beechcraft Drive)	Paved	Open-cut
	1415.91	112 th Street NE (Lady Hawke Subdivision)	Paved	Open-cut
	1415.83	Private Drive off of 123 rd Avenue NE	Paved	Open-cut
	1415.81	123 rd Avenue NE	Paved	Open-cut
	1415.78	Private Drive off of 123 rd Avenue NE	Gravel	Open-cut
	1415.52	107 th Street	Paved	Open-cut
	1415.18	Private Drive off of 123 rd Avenue NE	Gravel	Open-cut
	1415.10	Private Drive	Gravel	Open-cut
	1415.04	Private Drive	Gravel	Open-cut
	1414.91	Private Drive off of 123 rd Avenue NE	Gravel	Open-cut
	1414.86	96 th Street NE	Gravel	Open-cut
	1414.72	Private Road off of 123 rd Avenue NE (Tree Farm Road)	Gravel	Open-cut
	1414.10	84 th Street NE / Getchell Road	Paved	Open-cut
	1413.85	Private Drive off of 123 rd Avenue NE	Gravel	Open-cut
	1413.66	77 th Street NE	Gravel	Open-cut
	1413.32	Private Drive off of 68 th Street NE	Gravel	Open-cut
	1413.26	Private Drive off of 68 th Street NE	Gravel	Open-cut
	1413.10	68 th Street NE/Benson Road	Paved	Open-cut
	1412.60	60 th Street NE	Gravel	Open-cut
	1411.96	Private Drive	Gravel	Open-cut
	1411.73	Private Drive off of 44 th Street NE	Gravel	Open-cut
	1411.59	44 th Street NE	Paved	Open-cut

TABLE R-1 (cont'd)

Roads Crossed by the Loops Associated with the Capacity Replacement Project

Facility/County	Milepost	Road Name	Surface	Proposed Crossing Method
	1411.37	State Highway 92	Paved	Bore
	1411.33	Northwest Pipeline Valve Yard Driveway	Gravel	Open-cut
	1411.14	Hartford-Machias Road/131 st Street NE	Paved	Open-cut
	1411.09	Private Drive off Hartford-Machias Road	Gravel	Open-cut
	1410.92	Private Drive	Gravel	Open-cut
	1410.79	134 th Avenue NE	Gravel	Open-cut
	1410.60	28 th Street NE	Paved	Open-cut
	1410.28	Private Road off Hartford-Machias Road (Perma Gas)	Gravel	Open-cut
	1410.27	Withrow Driveway	Gravel	Open-cut
	1410.08	Private Drive	Gravel	Open-cut
	1409.98	Norgaard Wood Products Driveway	Gravel	Open-cut
	1409.97	Hartford-Machias Road/131 st Street NE	Paved	Open-cut
	1409.96	Centennial Trail	Paved	Open-cut
	1409.82	Northwest Pipeline Lake Stevens Meter Station Driveway	Gravel	Open-cut
	1409.79	16 th Street NE / Robinett Road	Paved	Open-cut
	1409.78	Private Drive	Gravel	Open-cut
	1409.76	Private Drive	Gravel	Open-cut
	1409.75	Private Drive off of 16 th Street NE	Gravel	Open-cut
Snohomish Loop				
Snohomish	1393.72	234 th Street SE	Paved	Open-cut
	1393.66	Unnamed Street	Gravel	Open-cut
	1393.47	238 th Street SE	Paved	Open-cut
King	1392.32	Private Drive	Gravel	Open-cut
	1392.17	Private Drive	Gravel	Open-cut
	1391.67	Private Drive	Gravel	Open-cut
	1391.61	186 th Avenue NE	Gravel	Open-cut
	1391.45	214 th Avenue NE	Paved	Open-cut
	1391.44	Meter Station drive	Gravel	Open-cut
	1391.33	Woodinville Duvall Road NE	Paved	Bore
	1391.05	165 th Street NE	Paved	Open-cut
	1391.03	Private Drive	Gravel	Open-cut
	1390.99	164 th Street NE	Paved	Open-cut
	1390.90	Private Drive	Gravel	Open-cut
	1390.85	161 st Street NE	Paved	Open-cut
	1390.72	159 th Street NE	Paved	Open-cut
	1390.64	Private Drive	Gravel	Open-cut
	1390.59	156 th Street NE	Paved	Open-cut
	1390.54	Private Drive	Gravel	Open-cut
	1390.51	Private Drive	Gravel	Open-cut
	1390.49	Private Drive	Gravel	Open-cut
	1390.46	154 th Street NE	Paved	Open-cut
	1390.42	Private Drive	Gravel	Open-cut
	1390.37	Private Drive	Gravel	Open-cut
	1390.33	Private Drive	Gravel	Open-cut
	1390.26	151 st Street NE	Paved	Open-cut

TABLE R-1 (cont'd)

Roads Crossed by the Loops Associated with the Capacity Replacement Project

Facility/County	Milepost	Road Name	Surface	Proposed Crossing Method
	1390.17	Private Drive	Gravel	Open-cut
	1390.08	Private Drive	Paved	Open-cut
	1390.04	Private Drive	Gravel	Open-cut
	1389.93	NE 144 th Place	Paved	Open-cut
	1389.86	Water Line	NA	Open-cut
	1389.59	141 st Street NE	Paved	Open-cut
	1389.49	214 th Way NE	Paved	Open-cut
	1389.32	NE 139 th St	Paved	Open-cut
	1388.98	133 rd Street NE	Paved	Bore
	1387.67	Walking Trail	Dirt	Open-cut
	1387.62	Walking Trail	Dirt	Open-cut
	1387.61	Walking Trail	Dirt	Open-cut
	1387.59	Water Line	NA	Open-cut
	1387.57	Walking Trail	Dirt	Open-cut
	1387.53	Walking Trail	Dirt	Open-cut
	1387.33	Novelty Hill Road NE	Paved	Bore
	1386.74	Bridle Crossing Way NE	Paved	Bore
	1386.31	Private Drive	Gravel	Open-cut
	1386.19	85 th Street NE	Paved	Open-cut
	1386.01	Private Drive	Gravel	Open-cut
	1385.92	Private Drive	Dirt	Open-cut
	1385.85	Private Drive	Dirt	Open-cut
	1385.79	76 th Street NE	Paved	Open-cut
	1385.41	Union Hill Road NE	Paved	Bore/possible open-cut
	1385.38	Meter Station Road	Gravel	Open-cut
	1385.09	Private Drive	Gravel	Open-cut
	1384.94	60 th Street NE	Paved	Open-cut
	1384.82	Private Drive	Gravel	Open-cut
	1384.75	57 th Court NE	Paved	Open-cut
	1384.68	Private Drive	Gravel	Open-cut
	1384.63	Private Drive	Gravel	Open-cut
	1384.62	Private Drive	Gravel	Open-cut
	1384.59	Private Drive	Gravel	Open-cut
	1384.59	Private Drive	Gravel	Open-cut
	1384.50	Private Drive	Gravel	Open-cut
	1384.46	Private Drive	Gravel	Open-cut
	1384.44	228 th Avenue NE	Paved	Open-cut
	1384.27	47 th Street NE	Paved	Open-cut
	1383.90	State Highway 202/Redmond Fall City Road	Paved	Bore
	1383.88	Private Drive	Gravel	Open-cut
	1383.76	Private Drive	Gravel	Open-cut
	1382.98	25 th Way NE	Paved	Open-cut
	1382.74	19 th Drive NE	Paved	Open-cut
	1382.54	18 th Place NE	Paved	Open-cut
	1382.31	15 th Place NE	Paved	Open-cut
	1382.22	Private Drive	Gravel	Open-cut
	1382.21	Development road	Dirt	Open-cut

TABLE R-1 (cont'd)

Roads Crossed by the Loops Associated with the Capacity Replacement Project

Facility/County	Milepost	Road Name	Surface	Proposed Crossing Method
	1382.18	14 th Street	Paved	Open-cut
	1382.10	14 th Street	Paved	Open-cut
	1382.09	Trail	Dirt	Open-cut
Fort Lewis Loop				
Pierce	1337.97	Private Drive	Gravel	Open-cut
	1337.58	200 th Street E / Orting Prairie Road	Paved	Bore
	1337.12	Private Drive	Gravel	Open-cut
	1337.10	46 th Avenue E	Paved	Open-cut
	1337.02	208 th Street E	Paved	Open-cut
	1336.89	Private Drive	Gravel	Open-cut
	1336.88	44 th Avenue E	Paved	Open-cut
	1336.54	214 th Street E	Paved	Open-cut
	1336.35	38 th Avenue E	Paved	Bore
	1336.26	217 th Street E	Paved	Open-cut
	1335.87	35 th Avenue E	Paved	Open-cut
	1335.77	224 th Street E	Paved	Bore
	1335.66	225 th Street Ct E	Gravel	Open-cut
	1335.59	226 th Street Ct E	Gravel	Open-cut
	1335.52	227 th Street E	Gravel	Open-cut
	1335.49	32 nd Avenue E	Gravel	Open-cut
	1335.43	Private Drive	Gravel	Open-cut
	1335.26	Private Drive	Gravel	Open-cut
	1335.21	State Highway 7 / Mountain Highway E	Paved	Bore
	1334.43	Private Road	Dirt	Open-cut
	1333.08	Rice Candle Road / Goodacres Road	Paved	Open-cut
	1332.94	8th Avenue E	Paved	Open-cut
	1332.88	Private Road	Gravel	Open-cut
	1332.86	Private Road	Gravel	Open-cut
	1332.80	Private Road	Gravel	Open-cut
	1332.72	Private Road	Gravel	Open-cut
	1332.67	Private Road	Gravel	Open-cut
	1332.33	Private Road	Gravel	Open-cut
	1332.00	Private Road	Gravel	Open-cut
	1331.93	Private Road	Gravel	Open-cut
	1331.92	Private Road	Gravel	Open-cut
	1331.63	Private Road	Gravel	Open-cut
	1331.50	Private Road	Gravel	Open-cut
	1331.30	8 th Avenue S / Harts Lake Loop	Paved	Open-cut
	1331.18	Private Road	Gravel	Open-cut
	1331.03	Private Road	Gravel	Open-cut
	1330.87	Private Road	Gravel	Open-cut
	1330.72	Unnamed Road	Gravel	Open-cut
	1330.60	Private Road	Gravel	Open-cut
	1330.58	288 th Street S / Zephrow Plowmacher	Paved	Bore
	1330.41	Private Drive	Gravel	Open-cut
	1329.91	Schudy Road S	Paved	Open-cut
	1329.73	24 th Avenue S	Gravel	Open-cut

TABLE R-1 (cont'd)

Roads Crossed by the Loops Associated with the Capacity Replacement Project

Facility/County	Milepost	Road Name	Surface	Proposed Crossing Method
Thurston	1329.47	304 th Street S	Gravel	Open-cut
	1329.31	Private Drive	Gravel	Open-cut
	1329.26	29 th Avenue S	Gravel	Open-cut
	1329.24	Private Drive	Gravel	Open-cut
	1328.68	Private Road	Gravel	Open-cut
	1328.26	40 th Avenue S / Hawk Peterson Road	Paved	Open-cut
	1327.57	Private Road	Gravel	Open-cut
	1327.46	48 th Avenue S	Paved	Open-cut
	1327.39	Private Drive	Gravel	Open-cut
	1326.85	54 th Avenue S	Gravel	Open-cut
	1326.67	Tisch Road S	Paved	Open-cut
	1326.47	Coffel Road S	Paved	Open-cut
	1325.61	Private Drive	Gravel	Open-cut
	1325.57	348 th Street S	Paved	Open-cut
	1325.20	State Highway 702	Paved	Bore
	1325.06	Private Drive off 74 th Avenue S	Gravel	Open-cut
	1325.01	74 th Avenue S	Paved	Open-cut
	1324.63	Harts Lake Loop Road	Paved	Bore
	1324.45	360 th St. S	Gravel	Open-cut
	1323.97	Private Drive	Gravel	Open-cut
	1323.84	Centralia Canal Road	Gravel	Open-cut
	1323.78	Cook Road SE	Paved	Bore
	1323.73	Private Drive	Gravel	Open-cut
	1323.54	Chause Lane SE	Gravel	Open-cut
	1323.39	Chause Lane SE	Gravel	Open-cut
	1323.03	Private Drive	Gravel	Open-cut
	1322.95	Bald Hill Road SE	Paved	Bore
	1322.82	Private Drive	Gravel	Open-cut
	1323.06	Private Drive	Gravel	Open-cut
	1322.68	Private Drive	Gravel	Open-cut
	1322.67	120 th Avenue SE	Gravel	Open-cut
	1322.66	Private Drive	Gravel	Open-cut
	1322.64	Private Drive	Gravel	Open-cut
	1322.41	Private Drive	Gravel	Open-cut
	1322.38	Witland Lane SE	Gravel	Open-cut
	1322.35	Private Drive	Gravel	Open-cut
	1322.00	Private Gravel Drive off Vail Loop Road SE	Gravel	Open-cut
	1321.98	Private Drive	Gravel	Open-cut
	1321.86	Private Drive	Gravel	Open-cut
	1321.43	Private Drive	Gravel	Open-cut
1321.17	Private Drive	Gravel	Open-cut	
1321.06	Loop off Rocking Lane SE	Gravel	Open-cut	
1321.02	Rocking Lane SE	Gravel	Open-cut	
1320.53	Vail Road SE	Paved	Bore	
1320.36	Private Drive	Gravel	Open-cut	
1319.98	Private Drive	Gravel	Open-cut	
1319.75	Morris Road SE	Paved	Bore	
1319.63	143 rd Avenue SE	Paved	Open-cut	

TABLE R-1 (cont'd)

Roads Crossed by the Loops Associated with the Capacity Replacement Project

Facility/County	Milepost	Road Name	Surface	Proposed Crossing Method
	1319.10	Martinson Street SE	Paved	Open-cut
	1318.86	Private Drive	Gravel	Open-cut
	1318.77	148 th Avenue SE	Paved	Bore
	1318.56	Private Drive	Gravel	Open-cut
	1318.40	Private Drive	Gravel	Open-cut
	1318.12	Fallow Lane	Gravel	Open-cut
	1317.86	Private Drive	Gravel	Open-cut
	1317.85	McIntosh Lane SE	Gravel	Open-cut
	1316.99	Private Drive	Gravel	Open-cut
	1316.95	Private Drive	Gravel	Open-cut
	1316.84	Private Drive	Gravel	Open-cut
	1316.81	Runyon Road SE	Paved	Bore
	1317.39	Private Drive	Gravel	Open-cut
	1316.72	Private Drive	Gravel	Open-cut
	1316.68	Private Drive	Gravel	Open-cut
	1316.66	Private Drive	Gravel	Open-cut
	1316.43	Vail Cutoff SE	Paved	Bore
	1316.09	Private Road	Gravel	Open-cut
	1315.89	Vail Loop Road SE	Paved	Bore
	1315.74	Private Drive	Gravel	Open-cut

NA = Not applicable.

TABLE R-2		
Potential Construction Worker Travel Routes Along the Sumas Loop		
Facility	Origin/Route	
	Bellingham	Mount Vernon
Sumas Industrial Park Yard	North on SR 539 (Guide Meridian Road) to SR 546. East on SR 546 to SR 9. North on SR 9 to Sumas. North on Bob Mitchell Ave. to yard.	North on I-5 to SR 20 (Exit 229). East on SR 20 to SR 9 (Sedro-Woolley). North on SR 9 to Sumas. North on Bob Mitchell Road to yard.
Jones Road Yard (Lots 1 and 2)	North on SR 539 (Guide Meridian Road) to SR 546. East on SR 546 to SR 9. North on SR 9 to Sumas. East on Jones Road to yard.	North on I-5 to SR 20 (Exit 229). East on SR 20 to SR 9 (Sedro-Woolley). North on SR 9 to Sumas and Jones Road. East on Jones Road to yard.
Bellingham GSX Yard	North on I-5 north to Birch Bay Lynden Road (Exit 271). West on Birch Bay Lynden Road to Portal Way. North on Portal Way to yard.	North on I-5 north to Birch Bay Lynden Road (Exit 271). West on Birch Bay Lynden Road to Portal Way. North on Portal Way to yard.
Nooksack Yard	West on SR 542 (Mount Baker Highway) to SR 9. North of SR 9 to Nooksack. Through Nooksack on SR 9 (Nooksack Road) to Baird Road and yard.	North on I-5 to SR 20 (Exit 229). East on SR 20 to SR 9 (Sedro-Woolley). North on SR 9 to Nooksack. Through Nooksack on SR 9 (Nooksack Road) to Baird Road and yard.

TABLE R-3		
Potential Construction Worker Travel Routes Along the Mount Vernon Loop		
Facility	Origin/Route	
	Everett	Arlington
Burlington Yard	North on I-5 to Exit 231. East on N. Garl St. to Old Highway 99 N. North on Old Highway 99 N to N. Hill Blvd. East on N. Hill Blvd. to Park Lane. South on Park Lane to yard.	East on SR 530 to I-5. North on I-5 to Exit 231. East on N. Garl St. to Old Highway 99 N. North on Old Highway 99 N to N. Hill Blvd. East on N. Hill Blvd. to Park Lane. South on Park Lane to yard.
Skagit Yard	North on I-5 to SR 20 (Exit 229). East on SR 20 to SR 9 (Sedro-Woolley) and Metcalf Street. South on Metcalf Street to yard.	East on SR 530 to I-5. North on I-5 to SR 20 (Exit 229). East on SR 20 to Sedro-Woolley and Metcalf Street. South on Metcalf Street to yard.
Arlington Yard	North on I-5 to 172nd St. NE (Exit 206). East on 172nd St. NE to 67th Ave. NE and yard.	Various city roads.
Second Arlington Yard	North on I-5 to 172nd St. NE (exit 206). East on 172nd St. NE to 67th Ave. NE. North on 67th Ave. to 191st Place NE and yard.	Various city roads.

TABLE R-4

Potential Construction Worker Travel Routes Along the Snohomish Loop

Facility	Origin/Route	
	Bellevue	Renton
Maltby 1a and 1b Yards	North on I-405 to SR 522 (Exit 23B). East on SR 522 to Paradise Lake Road/Yew Way. North on Yew Way to 212th St. SE. West on 212th St. SE to yard.	North on I-405 to SR 522 (Exit 23B). East on SR 522 to Paradise Lake Road/Yew Way. North on Yew Way to 212th St. SE. West on 212th St. SE to yard.
Maltby 2a, 2b, and 2c Yards	North on I-405 to SR 522 (Exit 23B). East on SR 522 to Paradise Lake Road/Yew Way. North on Yew Way to 212th St. SE. West on 212th St. SE to yard.	North on I-405 to SR 522 (Exit 23B). East on SR 522 to Paradise Lake Road/Yew Way. North on Yew Way to 212th St. SE. West on 212th St. SE to yard.

TABLE R-5

Potential Construction Worker Travel Routes Along the Fort Lewis Loop

Facility	Origin/Route				
	Tacoma	Puyallup	Fife	Olympia	Lacey
4647 - 192nd Yard	South on I-5 to SR 512. East to SR 7. South on SR 7 to 176th St. E. East on 176th St. E to 38th Ave. E. South on 38th Ave. E to yard.	West on SR 512 to Canyon Road E. South on Canyon Road E to 192nd E. St. West on 192nd E St. to yard.	South on I-5 to SR 512. East on SR 512 to SR 7. South on SR 7 to 176th St. E. East on 176th to 38th Ave. E. South on 38th Ave. E to yard.	North on I-5 to SR 512. East to SR 7. South on SR 7 to 176th St. E. East on 176th St. E to 38th Ave. E. South on 38th Ave. E to yard.	North on I-5 to SR 512. East on SR 512 to SR 7. South on SR 7 to 176th St. E. East on 176th St. E to 38th Ave. E. South on 38th Ave. E to yard.
4667 - 192nd Yard	South on I-5 to SR 512. East on SR 512 to SR 7. South on SR 7 to 176th St. E. East on 176th St. to 38th Ave. E. South on 38th Ave. E to 192nd St. E. East on 192nd St. E to yard.	West on SR 512 to Canyon Road E. South on Canyon Road E to yard.	South on I-5 to SR 512. East on SR 512 to SR 7. South on SR 7 to 176th St. E. East on 176th St. E to 38th Ave. E. South on 38th Ave. E to 192nd St. E. East on 192nd St. E to yard.	North on I-5 to SR 512. East on SR 512 to SR 7. South on SR 7 to 176th St. E. East on 176th St. E to 38th Ave. E. South on 38th Ave. E to 192nd St. E. East on 192nd St. E to yard.	North on I-5 to SR 512. East on SR 512 to SR 7. South on SR 7 to 176th St. E. East on 176th St. E to 38th Ave. E. South on 38th Ave. E to 192nd St. E. East on 192nd St. E to yard.
Yelm Yard	South on I-5 to Nisqually Road/Old Pacific Highway SE (Exit 116). South on Old Pacific Highway SE to SR 510. East on SR 510 to 1st St. NE (Yelm). North on 1st St NE to Rhoton Road. North on Rhoton Road to Railroad Ave. NW. North on Railroad Ave. NW to yard.	West on SR 512 to I-5. South on I-5 to Nisqually Road/Old Pacific Highway SE (Exit 116). South on Old Pacific Highway SE to SR 510. East on SR 510 to 1st St. NE (Yelm). North on 1st St NE to Rhoton Road. North on Rhoton Road to Railroad Ave NW. North on Railroad Ave NW to yard.	South on I-5 to Nisqually Road/Old Pacific Highway SE (Exit 116). South on Old Pacific Highway SE to SR 510. East on SR 510 to 1st St. NE (Yelm). North on 1st St. NE to Rhoton Road. North on Rhoton Road to Railroad Ave. NW. North on Railroad Ave. NW to yard.	North on I-5 to Marvin Road SE (Exit 111). South on Marvin Road to Pacific Highway SE/SR 510. East on SR 510 to 1st St. NE (Yelm). North on 1st St NE to Rhoton Road. North on Rhoton Road to Railroad Ave NW. North on Railroad Ave. NW to yard.	South on Marvin Road to Pacific Highway SE/SR 510. East on SR 510 to 1st St. NE (Yelm). North on 1st St NE to Rhoton Road. North on Rhoton Road to Railroad Ave NW. North on Railroad Ave. NW to yard.

TABLE R-6

Potential Construction Worker Travel Routes to the Compressor Stations

Facility/Origin	Travel Route
Mount Vernon Compressor Station	
Sedro-Woolley	South on SR 9 to Beaver Lake Road. South on Beaver Lake Road to Lange Road. North on Lange Road to compressor station.
Mount Vernon	East on College Way (SR 538) to SR 9. North on SR 9 to Gunderson Road. East on Gunderson Road to Lange Road. North on Lange Road to compressor station.
Snohomish Compressor Station	
Bellevue	North on I-405 to SR 522. East on SR 522 to Echo Lake Road. South on Echo Lake Road to compressor station.
Bothell	South on I-405 to SR 522. East on SR 522 to Echo Lake Road. South on Echo Lake Road to compressor station.
Chehalis Compressor Station	
Centralia	South on I-5 to SR 12 (Exit 68). East on SR 12 to Meier Road. South on Meier Road to W. Meier Road. West on W. Meier Road to compressor station.
Washougal Compressor Station	
Vancouver	West on Lewis and Clark Highway (SR 14) to SR 140 (Washougal). North on SR 140 to SE Blair Road. West on SE Blair Road to NE Zeek Road. East on Zeek Road to NE Brown Road. North on Brown Road to compressor station.

TABLE R-7

Typical Construction Crews and Equipment Associated with the Capacity Replacement Project

Crew	Equipment	Labor	Quantity	
Clearing (to include timber crew)	Dozers (D8)		0	
	Excavators		6	
	Skidders		2	
	Front-end track loaders		0	
	Tub grinders		3	
	Stump grinders		3	
	Hot saws		1	
	Processors		1	
	Mat haulers (articulating 8 wheel dr.)		2	
	Mowers		3	
	Recyclers		1	
	Chippers		2	
	Rake tractors		3	
	Fuel trucks		1	
	Service trucks		1	
	Tractors/low boy trailers		2	
	Tractors w/ floats		2	
	Log trucks		4	
	1-ton trucks (with tools)		3	
			Operator foreman	2
			Straw boss	2
			Operators	15
		Loggers	4	
		Teamsters	13	
		Laborers	25	
		Oilers/swampers	13	
	Buses for loggers		1	
	Pickups		17	
Environmental crew	1-ton trucks		2	
	Gators (John Deer)		2	
	Ditch witches (silt fence)		2	
	Pickups		3	
			Foreman	2
			Straw boss	2
			Teamsters	2
			Swampers	2
			Operators	4
		Laborers	18	
Grade right-of-way	Dozers (D8)		2	
	Dozers (D7)		2	

TABLE R-7 (cont'd)

Typical Construction Crews and Equipment Associated with the Capacity Replacement Project			
Crew	Equipment	Labor	Quantity
	Excavators		2
	Tractors/low boy trailers		1
	End dump trucks		0
		Operator foreman	1
		Straw boss	1
		Operators	6
		Teamsters	1
		Laborers	1
		Oilers	1
	1-ton trucks (with tools)		1
	Pickups		8
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26-inch-diameter pipe removal, cut up, haul off, offloading, skids, storage	Excavators (with pipe shoe)		3
	Trenchers		0
	Dozers (D6)		1
	John Henry (hoe with drill)		0
	1-ton trucks (with tools)		2
	Long-end dump trucks		2
	Trucks w/ float		4
	185 air compressors		2
	Air spades		4
	Sidebooms (583)		3
	Welding rigs		4
	Cranes (offload)		1
		Foreman	1
		Straw boss	1
		Operators	8
		Teamsters	8
		Oilers	8
		Laborers	12
		Welders	4
		Welder helpers	4
	Pickups		10
<hr/>			
Total trench	Excavators		8
	Trenchers		0
	Dozers (D6)		3
	John Henry		1
	1-ton trucks (with tools)		2
	End dump trucks		0
	Hammers		2
	185 air compressors		2
	Air spades		2
		Foreman	1

TABLE R-7 (cont'd)

Typical Construction Crews and Equipment Associated with the Capacity Replacement Project			
Crew	Equipment	Labor	Quantity
		Straw boss	1
		Operators	12
		Teamsters	2
		Oilers	2
		Laborers	12
		Powder monkeys	0
	Pickups		14
<hr/>			
Load, haul, string			
	Cranes		1
	Fork lifts		1
	Dozers (D6 for pulling trucks)		1
	Excavators with suction (in place of sideboom) 375 cat		1
	Tractors/float		1
	Boom trucks		2
	3-ton trucks		2
	Stringing trucks		6
		Foreman	1
		Straw boss	1
		Operators	4
		Teamsters	11
		Laborers	16
		Oilers	5
	Buses		1
	Pickups		6
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Bend, line up, weld			
	Bending machines		1
	Sidebooms (583)		4
	Internal clamps		1
	Tack rigs		2
	Welding rigs		16
	1-ton trucks for buffers		1
	Generators		2
	Line up clamps		5
		Bending engineer	1
		Bending man	1
		Operators	7
		Pipe foreman	1
		Welder foreman	1
		Straw boss (pipe man helper)	1
		Spacers	2
		Stabbers	1
		Welders	16

TABLE R-7 (cont'd)

Typical Construction Crews and Equipment Associated with the Capacity Replacement Project			
Crew	Equipment	Labor	Quantity
		Welder helpers	16
		Laborers	15
	Pickups		11
	Buses		1
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Jeep, field joint, patch			
	Wench trucks		2
	1-ton trucks		2
	Sand pots		4
	185 air compressors		4
	Flocking machines		2
	Sidebooms (572)		2
	Sand blast sand		850
	Coating skids		2
		Coating Foreman	2
		Straw Boss	2
		Operators	2
		Teamsters	4
		Oilers	4
		Laborers	10
	Buses		1
	Pickups		6
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Lower-in			
	Excavators (clam)		2
	Sidebooms (583)		5
	Dozers (D7)		1
	Skid trucks		2
	1-ton trucks with tools		2
		Foreman	1
		Straw boss	1
		Operators	8
		Teamsters	4
		Laborers	8
		Oilers	4
		Additional laborers	8
	Pickups		10
	Buses		1
<hr/>			
Furnish, haul, and install pad dirt from source other than spoil			
	Dump trucks		0
	Dump trucks		0
	580 rubber-tire backhoes		0
	Operators		
	Quary spalls		
	Sand		0

TABLE R-7 (cont'd)

Typical Construction Crews and Equipment Associated with the Capacity Replacement Project				
Crew	Equipment	Labor	Quantity	
	Cdf			0
<hr/>				
Pad ditch from spoil bank				
	Ozzie padders			2
	50,000 lb excavators			2
	1-ton trucks			2
		Foreman		1
		Operators		4
		Teamsters		2
		Laborers		6
		Oilers		2
	Pickups			5
<hr/>				
Backfill				
	Excavator/trackhoes			4
	Dozers (D6)			1
	Skid trucks			1
		Foreman		1
		Straw boss		1
		Operators		5
		Teamsters		1
		Laborers		7
		Oilers		1
		Laborers (placement)		8
	Pickups			7
	Buses			1
<hr/>				
Loose end tie-ins				
	Sidebooms (583)			6
	50,000 lb excavators			6
	Tractors/lowboy trailers			1
	Boom trucks			1
	1-ton trucks w/tools			3
	Skid trucks			3
	Sand pots			1
	185 air compressors			1
	Flocking machines			1
	Welding rigs			6
		Foreman		3
		Straw boss		3
		Operators		12
		Welders		6
		Welder helpers		6
		Teamsters		8
		Oilers		8
		Laborers		20

TABLE R-7 (cont'd)

Typical Construction Crews and Equipment Associated with the Capacity Replacement Project			
Crew	Equipment	Labor	Quantity
	Buses		1
	Pickups		18
Hydrostatic test and dry			
	Water trucks		
	Fill pumps		1
	Transfer pumps		1
	Test rigs		1
	Test trailers		1
	Pigs poly		20
	Pigs drying		150
	Brush pigs		2
	Caliper pigs		1
	1,800 air compressors		2
	Dehydrators		1
	2-ton w/float		1
	Boom trucks		1
		Testing man	1
		Laborers	2
		Teamsters	2
		Oilers	2
	Dewater structures		4
	Tanks		10
Final tie-ins			
	Sidebooms (583)		2
	50,000 lb excavators		1
	Welding rigs		4
	Tractors/lowboy trailers		1
	Boom trucks		1
	1-ton trucks		1
	Sand pots		1
	185 air compressors		1
	Flocking machines		1
		Foreman	1
		Straw boss	1
		Operators	3
		Welders	4
		Welder helpers	4
		Teamsters	3
		Oilers	3
		Laborers	6
	Buses		1
	Pickups		5

TABLE R-7 (cont'd)

Typical Construction Crews and Equipment Associated with the Capacity Replacement Project			
Crew	Equipment	Labor	Quantity
Final cleanup			
	Dozers (D7)		2
	Dozers (D6)		2
	Trackhoes		2
	Tractors/lowboy trailers		1
	Road graders		1
	1-ton trucks		2
		Foreman	1
		Straw boss	1
		Operators	7
		Laborers	13
		Teamsters	3
		Oilers	3
	Buses		1
	Pickups		9