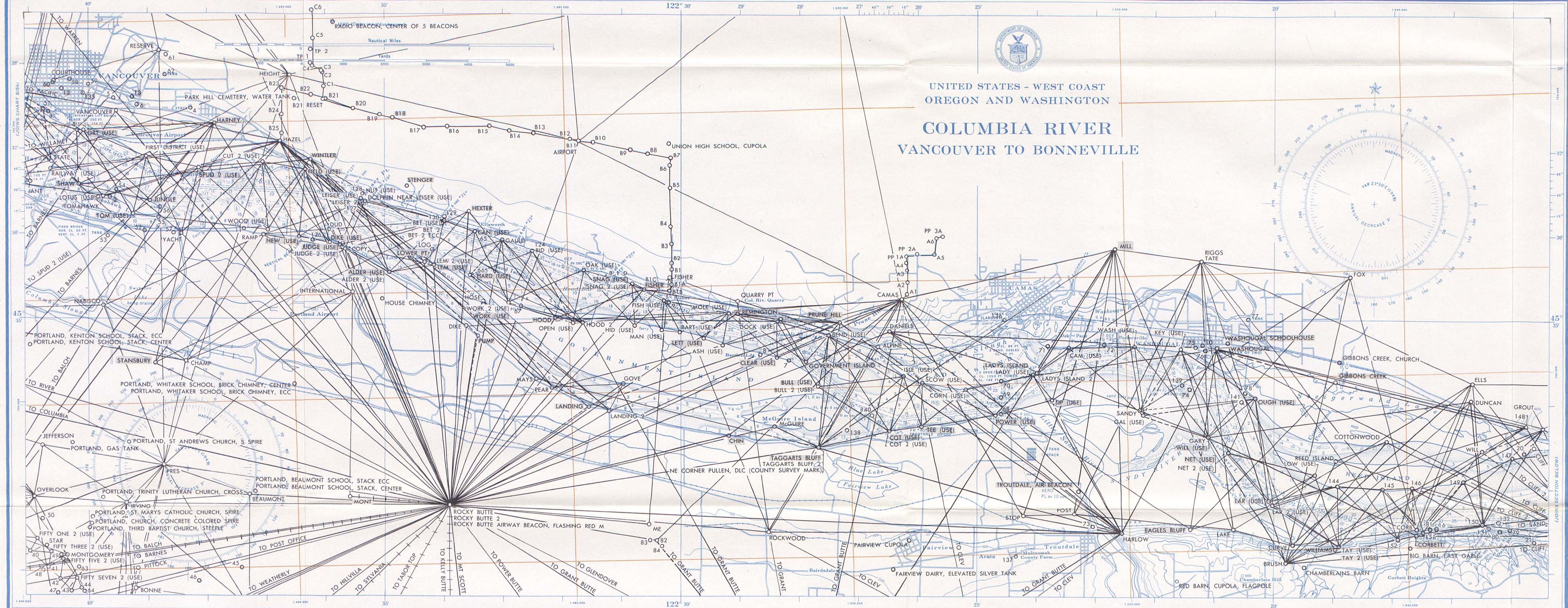
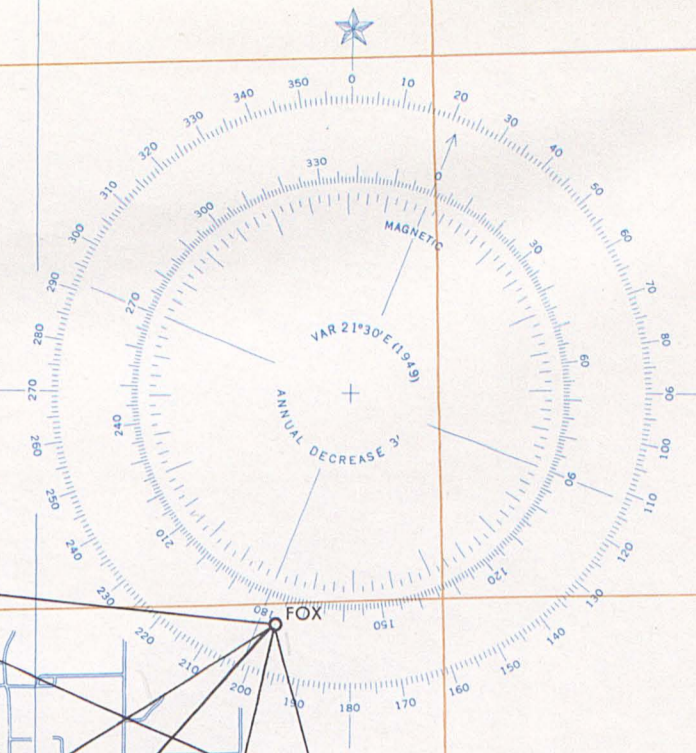
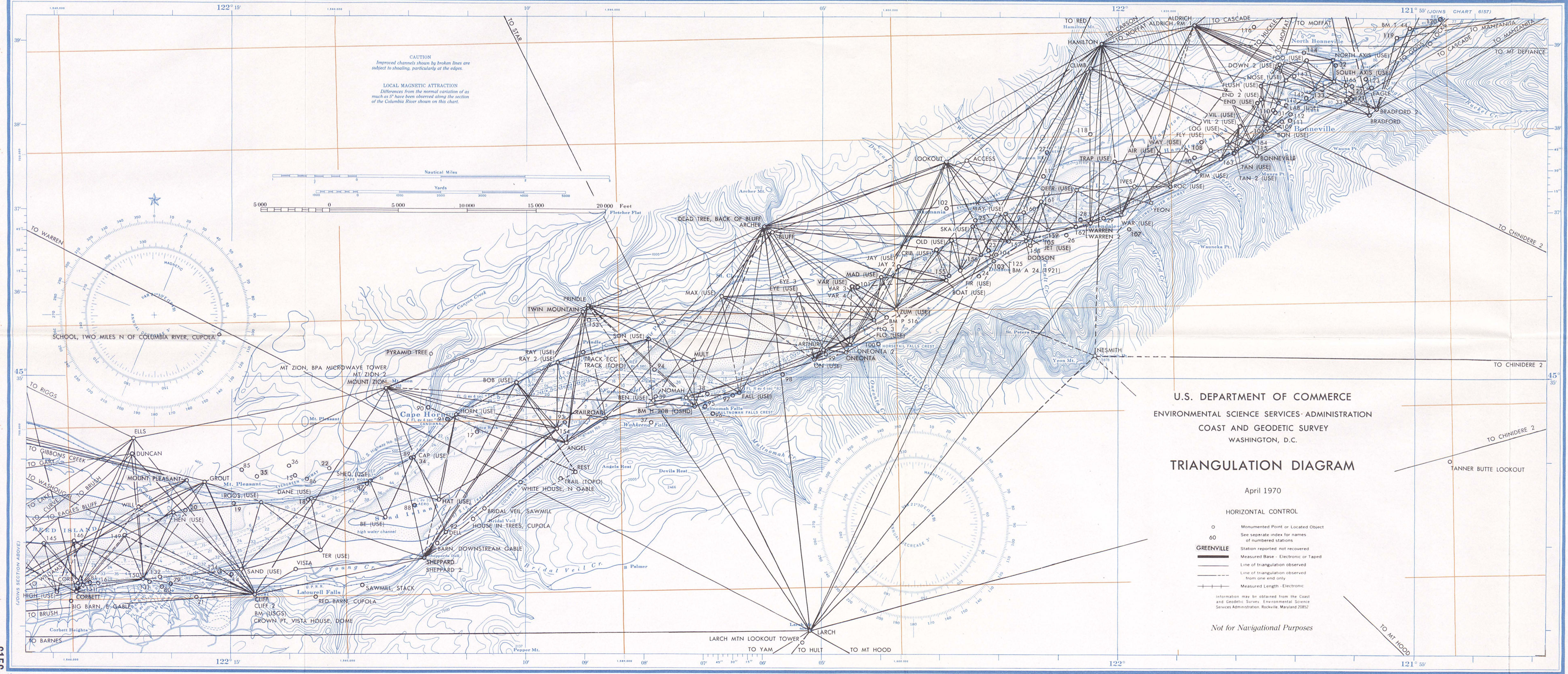


UNITED STATES - WEST COAST
OREGON AND WASHINGTON
COLUMBIA RIVER
VANCOUVER TO BONNEVILLE



- 1 QUARTERMASTERS WHARF
- 2 RAILROAD DEPOT, NW GABLE
- 3 VANCOUVER, SAWMILL PIPE
- 4 VANCOUVER, UPSTREAM ONE OF FIVE STACKS
- 5 VANCOUVER, DEAF & DUMB SCHOOL
- 6 VANCOUVER, STATE SCHOOL FOR THE DEAF, BRICK STACK
- 7 VANCOUVER, BARRACKS FLAGSTAFF, WEST
- 8 VANCOUVER, LOWER FLAGSTAFF
- 9 VANCOUVER, UPPER FLAGSTAFF
- 10 BARTLETT'S (KNAPS) BARN, N GABLE
- 11 LEVENS HOUSE, E GABLE
- 12 FISHERS WHARF, SE PILE
- 13 WASHOUGAL CHURCH, FLAGSTAFF
- 14 VANCOUVER, PRESBYTERIAN CHURCH
- 15 VANCOUVER, GARRISON FLAGSTAFF
- 16 ROOSTER ROCK, POLE
- 17 MT PLEASANT CHURCH, SPIRE
- 18 CORBETT (1901)
- 19 LONE ROCK
- 20 PHOCCA ROCK, HIGHEST PT
- 21 UPPER FISH WHEEL
- 22 MIDDLE FISH WHEEL
- 23 LOWER FISH WHEEL
- 24 SMALL WHITE BARN, N GABLE
- 25 BARN, W GABLE
- 26 MCGOWANS CANNERY, N GABLE
- 27 BARN, NEAR MCGOWANS, N GABLE
- 28 BUTTERS LANDING, ICE HOUSE
- 29 WARRENDALE, CHURCH SPIRE
- 30 PORTLAND-SPOKANE AIRWAY, BEACON NO 3A
- 31 CASTLE ROCK
- 32 GORMANS BARN
- 33 WARRENS CANNERY
- 34 WARRENDALE CANNERY, W WING
- 35 WARRENDALE CANNERY, W WING N GABLE
- 36 SMALL FISH HOUSE OPPOSITE RIM, DOWNSTREAM GABLE (USE)
- 37 HAMPTONS FISH WHEEL
- 38 RAILWAY WATER TANK
- 39 FISH WHEEL ON N SHORE OPPOSITE BRADFORD ISLAND
- 40 OC (USE)
- 41 CAPE HORN TREE
- 42 WHITE HOUSE, SMALL CHIMNEY
- 43 BIG BARN, S GABLE
- 44 DEAD TREE, NEAR CABIN FALLS
- 45 SIGN BOARD
- 46 TALL POST
- 47 FIFTY TWO 2 (USE)
- 48 FIFTY FOUR 2 (USE)
- 49 FIFTY SIX 2 (USE)
- 50 PORTLAND, ALBERS BROTHERS MILLING CO, TANK
- 51 FIFTY EIGHT 2 (USE)
- 52 PORTLAND, UNION PACIFIC RR CO, TANK
- 53 FIFTY NINE 2 (USE)
- 54 KERR
- 55 PORTLAND, MILK BOTTLE STORE
- 56 PORTLAND, DOERNBECHER MFG CO, STACK
- 57 PORTLAND, UNION DEPOT
- 58 PORTLAND, CROWN MILLS, BLACK TANK
- 59 PORTLAND, CROWN MILLS, BLUE TANK
- 60 PORTLAND, UNION PACIFIC RR CO, STACK
- 61 VANCOUVER, COLUMBIA RIVER PAPER MILLS, TANK
- 62 N PORTLAND, YACHT CLUB, CUPOLA, FLAGSTAFF
- 63 N PORTLAND, BLACK TANK, CENTER
- 64 DIKE A, DOLPHIN AT N END
- 65 DIKE B, DOLPHIN AT S END
- 66 TOMCHAWK ISLAND, UPPER DIKE LIGHT
- 67 N PORTLAND, COLUMBIA EDGEWATER GOLF CLUB, FLAGPOLE
- 68 VANCOUVER, ST JAMES CHURCH, CROSS
- 69 VANCOUVER, CHURCH, RED ROOF, CROSS
- 70 VANCOUVER, COUNTY COURT HOUSE, CLOCK TOWER, CUPOLA, FINIAL
- 71 VANCOUVER, SILVER ELEVATED TOWER TOPPED TANK, FINIAL
- 72 VANCOUVER, SILVER ELEVATED TANK, CONICAL TOP
- 73 PORTLAND, VAN & STORAGE CO, POLE ON TOWER WITH SIGN
- 74 PORTLAND, KERR-GIFFORD ELEVATOR (NEAR STEEL BRIDGE) FLAGSTAFF
- 75 ELLSWORTH CANNERY, DOWNSTREAM CORNER
- 76 GOVERNMENT ISLAND, LIGHT
- 77 HOOB BAR, LIGHT
- 78 TRANSMISSION TOWER, S SIDE OF COLUMBIA RIVER, APEX
- 79 TRANSMISSION TOWER, MIDSTREAM, APEX
- 80 TRANSMISSION TOWER, N SIDE OF COLUMBIA RIVER, S SIDE OF LADYS ISLAND, APEX
- 81 CAMAS, OLSEN SAWMILL, BLACK STACK
- 82 PARKER LANDING, LIGHT
- 83 TROUTDALE, BISSINGER & CO, WOOL PULLEY, ELEVATED BLACK TANK
- 84 WASHOUGAL, LIGHT
- 85 WASHOUGAL, CHURCH, CUPOLA, FLAGSTAFF
- 86 WASHOUGAL, CHURCH, BELFRY, FINIAL
- 87 WASHOUGAL, WOOLEN MILLS, ELEVATED SILVER TANK, SMALLER OF TWO
- 88 ELEVATED SILVER TANK, NE OF WASHOUGAL
- 89 WHITEWASHED PILE AT SE CORNER OF OLD DOCK NEAR OUGH (USE)
- 90 ONION ROCK, LONE TREE
- 91 CAPE HORN RANGE REAR
- 92 RAILROAD BLOCK SIGNAL NO 214
- 93 CORBETT LIGHT
- 94 FCC MONITORING STATION, E RADIO MAST
- 95 FCC MONITORING STATION, W RADIO MAST
- 96 FCC MONITORING STATION, ANTENNA POLE
- 97 WHITE BARN, RIVER CUPOLA
- 98 MT PLEASANT STANDARD SCHOOL, CUPOLA, FINIAL
- 99 CAPE HORN, LIGHT
- 100 PORTLAND-SPOKANE AIRWAY, BEACON 2, ON ISLAND
- 101 CAPE HORN, AUXILIARY BEACON 2
- 102 ROCK SHED ROOF, SOUTHEAST CORNER
- 103 CANDIANA, LIGHT
- 104 PORTLAND-SPOKANE AUXILIARY AIRWAY, BEACON 2
- 105 DOLPHIN NEAR WED (USE)
- 106 FASHION REEF LIGHT
- 107 MULTNOMAH FALLS TAVERN, ROCK CHIMNEY AT E END
- 108 MULTNOMAH FALLS, CREST
- 109 MULTNOMAH FALLS, LIGHT
- 110 RAILROAD SEMAPHORE, N OF TRACK, MIDWAY BETWEEN ONEONTA AND MULTNOMAH FALLS
- 111 RAILROAD SEMAPHORE, TALLER OF TWO, E OF ONEONTA
- 112 HORSETAIL FALLS, CREST
- 113 HORSETAIL FALLS, SE CORNER OF E ONE OF TWO HOUSES SKAMANIA SCHOOL, CUPOLA
- 114 DODDSON, COLUMBIA RIVER POTTERY CO, FLAGSTAFF
- 115 RAILROAD SEMAPHORE, N ONE OF TWO, E OF DODDSON
- 116 MCGOWAN, LIGHT
- 117 BONNEVILLE, SW BARRACKS, SW CORNER
- 118 PORTLAND-SPOKANE, AUXILIARY AIRWAY, BEACON 3A
- 119 HAMILTON ISLAND, LARGE BARN NEAR CENTER, DOWNSTREAM GABLE
- 120 BONNEVILLE FISH HATCHERY, CUPOLA
- 121 BONNEVILLE FISH HATCHERY, FLAGPOLE
- 122 BONNEVILLE, ELEVATED BLACK TANK
- 123 BONNEVILLE, USE HEADQUARTERS, FLAGSTAFF
- 124 BONNEVILLE, USE HEADQUARTERS, CUPOLA, FLAGSTAFF
- 125 BONNEVILLE, CIVIC CENTER, N GABLE
- 126 BONNEVILLE, ELEVATED SILVER TANK
- 127 MACHINE SHOP N OF BONNEVILLE DAM, DOWNSTREAM GABLE
- 128 RAILROAD SEMAPHORE (RED ARM), TRACK NEAR TANNER
- 129 PORTLAND-SPOKANE, AUXILIARY AIRWAY, BEACON 3B (1 3/4 MILES WEST OF AIRWAY BEACON 3B)
- 130 PORTLAND-SPOKANE, AUXILIARY AIRWAY, BEACON 3A (1 1/2 MILE SOUTH OF AIRWAY BEACON 3A)
- 131 PORTLAND-SPOKANE, AUXILIARY AIRWAY, BEACON 3A (1/2 MILE NORTHEAST OF AIRWAY BEACON 3A)
- 132 T2N, P7E, SECS 15, 22 (COUNTY ENGINEERS MON)
- 133 SHERIDAN PT, LIGHT
- 134 PORTLAND-SPOKANE AIRWAY, BEACON, OVER HIGHWAY TUNNEL AT EAGLE CREEK
- 135 BRADFORD SLOUGH, LIGHT
- 136 BRADFORD SLOUGH, ENTRANCE LIGHT
- 137 OUTDOOR BRICK FURNACE, CHIMNEY
- 138 DODDSON, RR SIGNAL
- 139 PORTLAND, PORTLAND-COLUMBIA AIRPORT BEACON
- 140 MEASURED NAUTICAL MILE FRONT RANGE WEST
- 141 MEASURED NAUTICAL MILE WEST RANGE, FRONT BEACON
- 142 MEASURED NAUTICAL MILE WEST RANGE, REAR BEACON
- 143 REAR RANGE WEST
- 144 REAR RANGE EAST
- 145 MEASURED NAUTICAL MILE EAST RANGE, REAR BEACON
- 146 MEASURED NAUTICAL MILE FRONT RANGE EAST
- 147 MEASURED NAUTICAL MILE EAST RANGE, FRONT BEACON
- 148 ROOSTER ROCK UPPER RANGE FRONT
- 149 ROOSTER ROCK UPPER RANGE REAR
- 150 WIND (USE)
- 151 ROOSTER ROCK LOWER RANGE REAR
- 152 VANCOUVER, EPISCOPAL CHURCH
- 153 CAMAS, CROWN-WILLAMETTE PAPER CO, BRICK STACK
- 137 TROUTDALE, MULTNOMAH CO, FARM, ELEVATED TANK
- 138 MCGUIRE ISLAND RANGE, REAR LIGHT
- 139 WASHOUGAL LIGHT 50
- 140 GOVERNMENT ISLAND RANGE, FRONT LIGHT 3A
- 141 WASHOUGAL LOWER RANGE, FRONT LIGHT
- 142 BONNEVILLE BPA UPSTREAM TOWER 1
- 143 BONNEVILLE BPA DOWNSTREAM TOWER 1
- 144 BRADFORD ISLAND, BPA UPSTREAM TOWER 4
- 145 REED (USE)
- 146 IS 2 (USE)
- 147 LAND 2 (USE)
- 148 HEN (USE)
- 149 MOUNT PLEASANT
- 150 NEL 2 (USE)
- 151 TUN (USE)
- 152 TUNNEL
- 153 TUNNEL POINT TREE
- 154 COR (USE)
- 155 HIGH (USE)
- 156 TOWER NO 72, ECC (TOPO)
- 157 VEI
- 158 POP (USE)
- 159 DOD (USE)
- 160 LITE (USE)
- 161 TUMALT
- 162 BAR (USE)
- 163 NEE (USE)
- 164 GORMANS HOUSE
- 165 AL (USE)
- 166 UP (USE)
- 167 TANNER 2
- 168 BONNE



U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY
WASHINGTON, D.C.

TRIANGULATION DIAGRAM

April 1970

HORIZONTAL CONTROL

- Monumented Point or Located Object
- Station reported not received
- Measured Base - Electronic or Taped
- Line of triangulation observed
- Line of triangulation observed from one end only
- Measured Length - Electronic

Information may be obtained from the Coast and Geodetic Survey, Environmental Sciences Services Administration, Receiving, Manual 2002

Not for Navigational Purposes

- 74 WASHOUGAL, LIGHT
- 75 WASHOUGAL, CHURCH, CUPOLA, FLAGSTAFF
- 76 WASHOUGAL, CHURCH, BELFRY, FINIAL
- 77 WASHOUGAL, WOOLEN MILLS, ELEVATED SILVER TANK, SMALLER OF TWO
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