CONTROL LEG NO. 1

STA. OSHD N11-14 TO STA. OSHD RPPC 662+43.2 BASIS OF BEARINGS: S 08*34'35"W RECORD STATE PLANE GRID DISTANCE: 27,353.628 MEASURED STATE PLANE GRID DISTANCE: 27,353.097

RELATIVE ERROR OF CLOSURE=1:51.512

STA. OSHD N11-14 EL.=3821'

N=401.639.66

N=398.367.99

N=395,744.35

N=393,385,44

N=387,830.86

N=384,604.11

N=381,152.91

STA. OTAK11 EL.=4143'

E=2,361,592.29

E=2,363,203.25

E=2,363,188.23

E=2,362,666.79

E=2,363,873.98

E=2.364.348.41

E=2,364,940.80

EL.=3854'

EL.=3836'

EL.=3754'

EL.=3654'

EL.=3678'

EL.=3755'

EL.=3960'

MEASURED DISTANCE: 2835.774

OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE

MEASURED ANGLE: 17'31'13"

ADJUSTED ANGLE: 17'30'57"

MEASURED GRID DISTANCE: 2835.010

ADJUSTED GRID DISTANCE: 2835.065

N=378,429.72 E=2,362,144.72}HELD

GRID FACTOR: 0.9997307

MEAS. AND ADJ. ANGLE: 157'33'46" STA. OSHD RPPC 662+43.2 EL.=4286'

N=378,320.73 E=2,361,464.42 CALC.-HELD

STA. OTAK2

STA. OTAK3

STA. OTAK4

STA. OTAK5

STA. OTAK6

STA. OTAK7

STA. OTAK8

CONTROL LEG NO. 2

STA. OSHD RPPC 662+43.2 TO STA. OVER 1987 BASIS OF BEARINGS: S 45°49'20"W RECORD STATE PLANE GRID DISTANCE: 7,750.243 MEASURED STATE PLANE GRID DISTANCE: 7,749.895 RELATIVE ERROR OF CLOSURE=1:22.270

STA. OSHD RPPC 662+43.2 EL.=4286' OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE N=405,368.48 E=2,365,543.66 CALC.—HELD N=405,485.26 E=2,366,225.13 HELD N=378,320.73 E=2,361,464.42 CALC.-HELD N=378,429.72 E=2,362,144.72 HELD MEASURED DISTANCE: 3778.161 MEASURED DISTANCE: 918.304 GRID FACTOR: 0.9997358 GRID FACTOR: 0.99972675 MEASURED GRID DISTANCE: 3777.163 MEASURED GRID DISTANCE: 918.053 ADJUSTED GRID DISTANCE: 3777.236 ADJUSTED GRID DISTANCE: 918.094 ADJUSTED LDP DISTANCE: 3778.324 ADJUSTED LDP DISTANCE: 918.359 STA. OTAK11 EL.=4143' OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE N=401,755.37N=379,182.90N=379,292.14E=2,365,622.10 E=2.361.779.94 E=2,362,460.33 MEASURED DISTANCE: 3325.687 MEASURED DISTANCE: 1274.247 GRID FACTOR: 0.9997366 GRID FACTOR: 0.9997284 MEASURED GRID DISTANCE: 3324.811 MEASURED GRID DISTANCE: 1273.901 ADJUSTED GRID DISTANCE: 3324.876 ADJUSTED GRID DISTANCE: 1273.958 ADJUSTED LDP DISTANCE: 3325.833 ADJUSTED LDP DISTANCE: 1274.325 MEAS. AND ADJ. ANGLE: 181°04'45' MEAS. AND ADJ. ANGLE: 296°22'42" STA. OTAK12 EL.=4217' OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE N=398,482.75 N=378,259.12 N=378,368.10E=2,365,029.54 E=2,362,657.22 E=2,363,337.86 MEASURED DISTANCE: 2666.832 MEASURED DISTANCE: 2253.176 GRID FACTOR: 0.99974005 GRID FACTOR: 0.99972355 MEASURED GRID DISTANCE: 2666.139 MEASURED GRID DISTANCE: 2252.553 ADJUSTED GRID DISTANCE: 2666,190 ADJUSTED GRID DISTANCE: 2252.654 ADJUSTED LDP DISTANCE: 2666,959 ADJUSTED LDP DISTANCE: 2253.303 MEAS. AND ADJ. ANGLE: 179'59'13" MEAS. AND ADJ. ANGLE: 187'53'12" STA. OTAK13 EL.=4367' OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE N=395,858.35N=376,428.27N=376,536.72E=2.364.554.97 E=2.363.969.63 E=2,364,650.65 MEASURED DISTANCE: 2650.486 MEASURED DISTANCE: 1771.762 GRID FACTOR: 0.9997453 GRID FACTOR: 0.9997184 MEASURED GRID DISTANCE: 2649.811 MEASURED GRID DISTANCE: 1771.263 ADJUSTED GRID DISTANCE: 2649.863 ADJUSTED LDP DISTANCE: 2650.626 ADJUSTED GRID DISTANCE: 1771.343 ADJUSTED LDP DISTANCE: 1771.853 MEAS. AND ADJ. ANGLE: 196°51'05" MEAS. AND ADJ. ANGLE: 163'08'53" STA. OTAK14 EL.=4458' OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE N=393,498.76N=375,349.61N=375,457.74E=2,363,347.43 E=2,366,056.09 E=2,365,374.67 MEASURED DISTANCE: 5580.287 MEASURED DISTANCE: 1072.331 GRID FACTOR: 0.9997485
MEASURED GRID DISTANCE: 5578.884 GRID FACTOR: 0.99971435 MEASURED GRID DISTANCE: 1072.025 ADJUSTED GRID DISTANCE: 1072.073
ADJUSTED LDP DISTANCE: 1072.382
MEAS. AND ADJ. ANGLE: 224'33'25" ADJUSTED GRID DISTANCE: 5578.992 ADJUSTED LDP DISTANCE: 5580.599 MEAS. AND ADJ. ANGLE: 147°32'08" STA. OTAK15 EL.=4555' OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE N=387,942.59N=374,287.78N=374,395.61E=2,363,869.02 E=2,365,522.56 E=2,366,204.03 MEASURED DISTANCE: 3227.543 MEASURED DISTANCE: 1124.623 GRID FACTOR: 0.99974765
MEASURED GRID DISTANCE: 3226.728 GRID FACTOR: 0.9997115
MEASURED GRID DISTANCE: 1124.298 ADJUSTED GRID DISTANCE: 3226.792 ADJUSTED GRID DISTANCE: 1124.350 ADJUSTED LDP DISTANCE: 3227.721 ADJUSTED LDP DISTANCE: 1124.673 MEAS. AND ADJ. ANGLE: 185°05'47" MEAS. AND ADJ. ANGLE: 260'03'24" STA. OTAK16 EL.=4589' OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE N=384,714.91 N=373,942.72N=374,050.45E=2,363,884.04 E=2,364,452.47E=2,365,133.63 MEASURED DISTANCE: 3809.575 MEASURED DISTANCE: 1365.108 GRID FACTOR: 0.99974215 GRID FACTOR: 0.99970875
MEASURED GRID DISTANCE: 1364.710 MEASURED GRID DISTANCE: 3808.593 ADJUSTED GRID DISTANCE: 3808.666 ADJUSTED GRID DISTANCE: 1364.771 ADJUSTED LDP DISTANCE: 3809.764 ADJUSTED LDP DISTANCE: 1365.164 MEAS. AND ADJ. ANGLE: 205'17'20" MEAS. AND ADJ. ANGLE: 224°12'58" STA. OTAK17 EL.=4668' OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE N=381,262.71N=374,548.34N=374,656.24 E=2,362,272.63 E=2,363,229.43 E=2,363,910.24

STA. OTAK17 EL.=4668' OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE N=374,548.34 N=374,656.24E=2.363.229.43 E=2,363,910.24 MEASURED DISTANCE: 1368.437 GRID FACTOR: 0.99970425 MEASURED GRID DISTANCE: 1368.032 ADJUSTED GRID DISTANCE: 1368.094 ADJUSTED LDP DISTANCE: 1368,488 MEAS. AND ADJ. ANGLE: 112'34'32' STA. OTAK18 EL.=4778' OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE N=373,649.34N=373,756.98 E=2,362,198.18 E=2,362,878.69 MEASURED DISTANCE: 1257.403 GRID FACTOR: 0.9997005 MEASURED GRID DISTANCE: 1257.026 ADJUSTED GRID DISTANCE: 1257.082 ADJUSTED LDP DISTANCE: 1257.445 MEAS. AND ADJ. ANGLE: 233'36'14" STA. OTAK19 EL.=4830' OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE N=373,921.91 N=374.029.63 N=374,029.63 E=2,360,971.01 E=2,361,651.17 MEASURED DISTANCE: 1775.674 GRID FACTOR: 0.99969715 MEASURED GRID DISTANCE: 1775.136 ADJUSTED GRID DISTANCE: 1775.216 ADJUSTED LDP DISTANCE: 1775.727 MEAS. AND ADJ. ANGLE: 142'58'40" STA. OTAK20 EL.=4922' OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE N=373,185.77 N=373,293.28 E=2,359,355.62 E=2.360.035.31 MEASURED DISTANCE: 1647.961 GRID FACTOR: 0.9996927 MEASURED GRID DISTANCE: 1647,455 ADJUSTED GRID DISTANCE 1647.529 ADJUSTED LDP DISTANCE: 1648.004 MEAS. AND ADJ. ANGLE: 208'33'11" STA. OTAK21 EL.=5020' OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE -N=373,302.24N=373,409.78E=2,357,712.22E=2,358,391.43 MEASURED DISTANCE: 956.591 GRID FACTOR: 0.99968935 MEASURED GRID DISTANCE: 956,294 ADJUSTED GRID DISTANCE: 956.336 ADJUSTED LDP DISTANCE: 956.612

MEAS. AND ADJ. ANGLE: 136'54'14"

N=372,807.22

E=2,357,648.45

N=373,027.11 E=2,356,584.80 HELD

OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE

MEASURED DISTANCE: 1086.125

MEASURED GRID DISTANCE: 1085.783

ADJUSTED GRID DISTANCE: 1085,832

ADJUSTED LDP DISTANCE: 1086.144

MEAS. AND ADJ. ANGLE: 230°43'22"

OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE

MEASURED ANGLE: 57'49'03"

ADJUSTED ANGLE: 57'49'12"

N=372,919.68 E=2,355,906.10 CALC.-HELD

GRID FACTOR: 0.99968515

STA. OTAK22 EL.=5065'

N=372,699.85

STA. OVER 1987 EL.=5199'

STA. OTAK24 EL.=5073'

E=2,356,969.45

NOTE: ALL OREGON STATE PLANE-NORTH ZONE COORDINATE DATA SHOWN IS NAD 27.

CONTROL LEG NO. 3

STA. OVER 1987 TO STA. USBPR 34-56 BASIS OF BEARINGS: S 10'14'45"W RECORD STATE PLANE GRID DISTANCE: 15,966.510 MEASURED STATE PLANE GRID DISTANCE: 15,966.128 RELATIVE ERROR OF CLOSURE=1:41,797

STA. OVER 1987 EL.=5199' OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE N=372,919.68 E=2,355,906.10 CALC.-HELD N=373,027.11 E=2,356,584.80 HELD MEASURED DISTANCE: 956.637 GRID FACTOR: 0.9996851 MEASURED GRID DISTANCE: 956.336 ADJUSTED GRID DISTANCE: 956.359 ADJUSTED LDP DISTANCE: 956.634 STA. OTAK24 EL.=5073' OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE N=372,023.88 N=372,131.06E=2,356,919.81 E=2,356,241.02

MEASURED DISTANCE: 745.702 GRID FACTOR: 0.9996892 MEASURED GRID DISTANCE: 745.470 ADJUSTED GRID DISTANCE: 745.487 ADJUSTED LDP DISTANCE: 745.703 MEAS. AND ADJ. ANGLE: 219°50'19' EL.=5043'

STA. OTAK25 OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE N=371,320.46N=371,427.43E=2,355,994.14 E=2,356,672.86 MEASURED DISTANCE: 3023.894 GRID FACTOR: 0.99969475

MEASURED GRID DISTANCE: 3022.971 ADJUSTED GRID DISTANCE: 3023,043 ADJUSTED LDP DISTANCE: 3023,914 MEAS. AND ADJ. ANGLE: 179'49'27' STA. OTAK26 EL.=4872'

OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE N=368,464.93 N=368,571.08E=2,355,001.80 E=2,355,680.23 MEASURED DISTANCE: 1062.456

GRID FACTOR: 0.9997009 MEASURED GRID DISTANCE: 1062.138 ADJUSTED GRID DISTANCE: 1062.164 ADJUSTED LDP DISTANCE: 1062.469 MEAS. AND ADJ. ANGLE: 169'31'21"

STA. OTAK27 EL.=4818' OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE N=367,414.95N=367,520.80E=2,354,841.39 E=2,355,519.78 MEASURED DISTANCE: 1823.555

GRID FACTOR: 0.99970535 MEASURED GRID DISTANCE: 1823.018 ADJUSTED GRID DISTANCE: 1823.062 ADJUSTED LDP DISTANCE: 1823.587 MEAS. AND ADJ. ANGLE: 165°31'28"

STA. OTAK28 EL.=4712' OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE N=365,601.19N=365,706.51 E=2,355,025.30 E=2,355,703.75 MEASURED DISTANCE: 639.204

GRID FACTOR: 0.99970925
MEASURED GRID DISTANCE: 639.018 ADJUSTED GRID DISTANCE: 639.034
ADJUSTED LDP DISTANCE: 639.217 MEAS. AND ADJ. ANGLE: 237'12'13"

STA. OTAK29 EL.=4675' OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE N=365,307.84 E=2,355,204.09 N=365,202.63 E=2,354,525.79

MEASURED DISTANCE: 1670.407 GRID FACTOR: 0.9997122 MEASURED GRID DISTANCE: 1669.926 ADJUSTED GRID DISTANCE: 1669.966 ADJUSTED LDP DISTANCE: 1670.447 MEAS. AND ADJ. ANGLE: 199'32'04" STA. OTAK30 EL.=4596'

OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE N=364.657.51 N=364,762.56E=2,352,947.30 E=2,353,625.14 MEASURED DISTANCE: 1499.826

GRID FACTOR: 0.9997174 MEASURED GRID DISTANCE: 1499.402 ADJUSTED GRID DISTANCE: 1499.438 ADJUSTED LDP DISTANCE: 1499.870 MEAS. AND ADJ. ANGLE: 105'03'38"

STA. OTAK31 El.=4474' OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE N=363.161.71 N=363.266.33 E=2,353,051.66 MEASURED DISTANCE: 3298.596

GRID FACTOR: 0.99972345 MEASURED GRID DISTANCE: 3297.684 ADJUSTED GRID DISTANCE: 3297.762 ADJUSTED LDP DISTANCE: 3298.712 MEAS. AND ADJ. ANGLE: 181'28'58" STA. OTAK32 EL.=4385'

OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE N=359.867.11 N=359,970.78 E=2.353.195.99 E=2,353,873.91 MEASURED DISTANCE: 2663.164

GRID FACTOR: 0.99972705 MEASURED GRID DISTANCE: 2662.437 ADJUSTED GRID DISTANCE: 2662.501 ADJUSTED LDP DISTANCE: 2663.268 MEAS. AND ADJ. ANGLE: 185'18'18"

STA. USBPR 34-56 EL.=4377' OREGON STATE PLANE-NORTH ZONE LOCAL DATUM PLANE N=357,207.78 E=2,353,066.09 CALC.-HELD

N=357,310.69 E=2,353,743.97 HELD

JULY 21, 1992

2/1992 JAC Calculated Date DTD 2/1992 Drawn Date DLL 2/1992 Checked Date <u>REVISIONS</u> REGISTERED **PROFESSIONAL** LAND SURVEYOR

John A. Conten **OREGON** JULY 15, 1983

JOHN A. CARLSON 2044 ≥ \geq

DIVISION

HIGHWAY

TRANSPORTATION

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DEPARTMENT

STATE

FOR

30E Δ S HIGHWAYSECTION 12, T.10S 8 ,32 RE(DAY 0X ,31, 0 30 OUNTY 9 7 N 9 ₹ % ETON-CREE 5,20,21 NDLE ONG 5,16, ш — 0 δ S CT10

SE engineers 17355 S.W. BOONES FERRY ROAD LAKE OSWEGO, OREGON 97035 (503)635-3618 FAX (503)635-5395

Sheet No.

Project No.