SYSTEM

LAT. '83(98)

(NORTH)

42°13′03.44166″N

42°12′50.11857″N

42°08′31.93061″N

STATION

NAME

BM1903

ASH

BC2

EM1

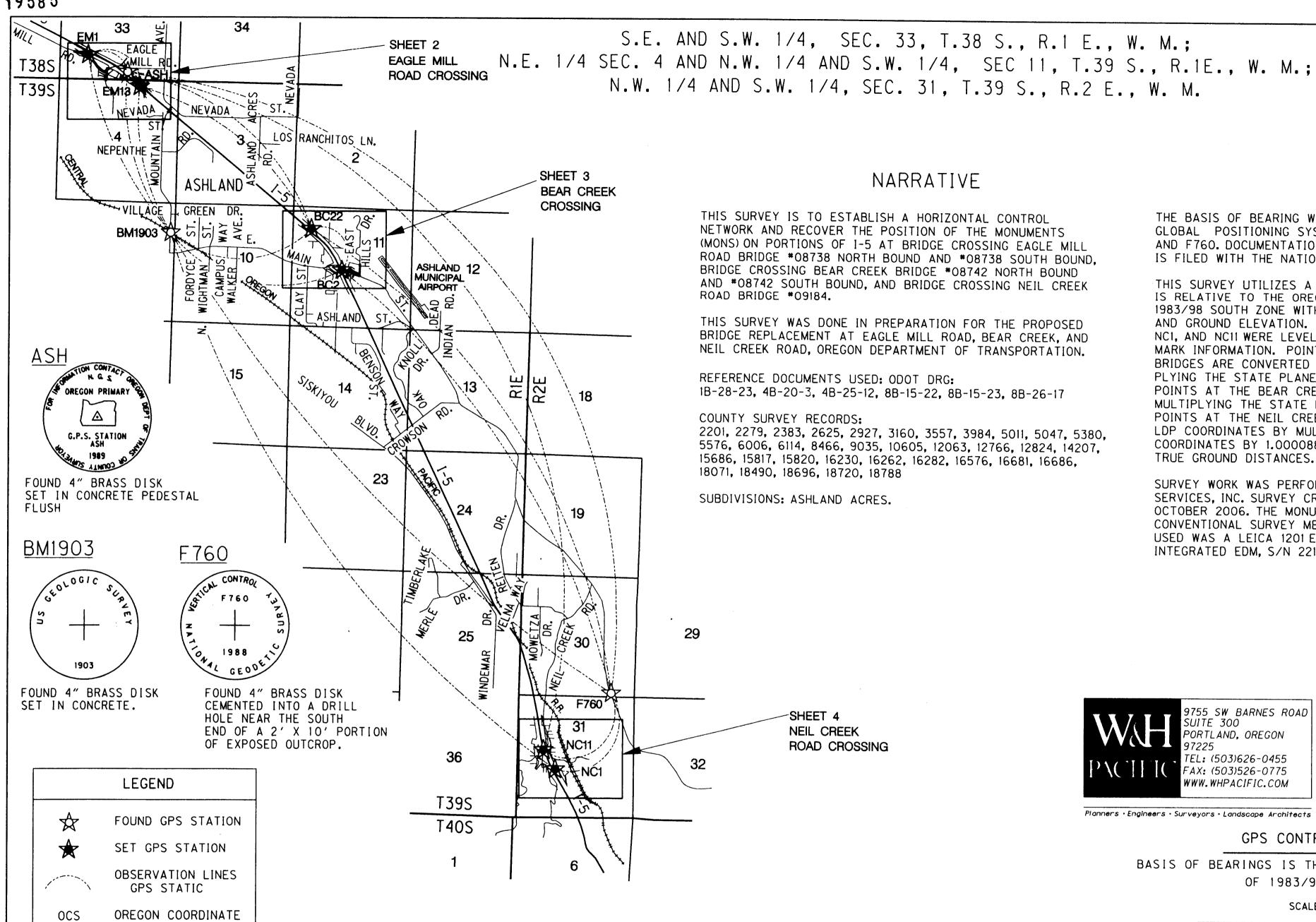
BC22

EMI3

F760

NC11

NC1



**ELLIPSE** 

HEIGHT

(FT)

1800.74

1751.86

1810.71

1757.16

1711.94

2201.67

LONG. '83(98)

(WEST)

122°42′48.79533″W

122°42′17.74433″W

122°37′28.75101″W

42°07′58.63307″N | 122°38′00.57849″W | 2548.57

42°11′47.05732″N | 122°41′56.75482″W

42°12′56.39412″N | 122°42′25.16923″W

42°11'32.81285"N | 122°40'15.12083"W

42°11′50.38037″N | 122°40′33.79535″W

42°08'06.66206"N | 122°38'07.77961"W

OCS

NORTHING

(FT)

200890.19 4325388.62

1733.89 | 207313.41 | 4323977.22 | 1811.97

2490.96 | 178140.02 | 4342050.27 | 2568.23

OCS

EASTING

(FT)

207963.20 4323435.40 1830.04

199249.08 4332999.22 1888.57

201063.38 4331640.07 1835.06

208723.31 4321676.95 1790.13

180622.45 | 4345055.01 | 2279.01

177313.65 4342571.99 2625.82

GPS CONTROL POINT COORDINATE TABLE

ORTHO. EL. SEPARATION

GEOIDAL

(FT)

-78.Q5

-78.00

-77.86

-77.90

-78.13

-78.08

-77.34

-77.25

-77.27

CONVERGENCE

ANGLE

-01°30′16.22692′

-01°30′35.66656″

-01°29′06.69250″

-01°29′19.46896′

-01°30′51.83068″

-01°30′30.58646″

-01°27′12.87282″

-01°27′34.64750″

-01°27′39.57413″

NAVD '88

(FT)

1878.79

NARRATIVE

THIS SURVEY IS TO ESTABLISH A HORIZONTAL CONTROL NETWORK AND RECOVER THE POSITION OF THE MONUMENTS (MONS) ON PORTIONS OF 1-5 AT BRIDGE CROSSING EAGLE MILL ROAD BRIDGE \*08738 NORTH BOUND AND \*08738 SOUTH BOUND, BRIDGE CROSSING BEAR CREEK BRIDGE \*08742 NORTH BOUND AND #08742 SOUTH BOUND, AND BRIDGE CROSSING NEIL CREEK

THIS SURVEY WAS DONE IN PREPARATION FOR THE PROPOSED BRIDGE REPLACEMENT AT EAGLE MILL ROAD, BEAR CREEK, AND NEIL CREEK ROAD, OREGON DEPARTMENT OF TRANSPORTATION.

1B-28-23, 4B-20-3, 4B-25-12, 8B-15-22, 8B-15-23, 8B-26-17

2201, 2279, 2383, 2625, 2927, 3160, 3557, 3984, 5011, 5047, 5380, 5576, 6006, 6114, 8466, 9035, 10605, 12063, 12766, 12824, 14207. 15686, 15817, 15820, 16230, 16262, 16282, 16576, 16681, 16686,

SCALE

**FACTOR** 

1.000037286 | 0.999951155

1.000031702 0.999947906

1.000038447 | 0.999951839

1.000037016 | 0.999952969

1.000031141 | 0.999949258

1.000032203 | 0.999949270

1.000053594 | 0.999948297

1.000056465 0.999930870

1.000055770 | 0.999936627

COMBINED

FACTOR

THE BASIS OF BEARING WAS ESTABLISHED BY HOLDING GLOBAL POSITIONING SYSTEM (GPS) POINTS, "ASH" AND F760. DOCUMENTATION OF THESE GPS STATIONS IS FILED WITH THE NATIONAL GEODETIC SURVEY OFFICE.

. VECEINED ...

3-28-07 By 66

This server Consists of

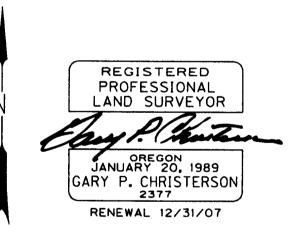
O (4) (1) New 2010 JACKSCH COMINTY SURVEYCR

4 sheets, king

THIS SURVEY UTILIZES A LOCAL DATUM PLANE (LDP) WHICH IS RELATIVE TO THE OREGON COORDINATE SYSTEM (OCS) OF 1983/98 SOUTH ZONE WITH RESPECT TO THE LOCAL LATITUDE AND GROUND ELEVATION. POINTS ASH, EM1, EM2, BC2, BC22, NCI, AND NCII WERE LEVELED THROUGH USING LOCAL BENCH MARK INFORMATION. POINTS AT THE EAGLE MILL ROAD BRIDGES ARE CONVERTED TO LDP COORDINATES BY MULTI-PLYING THE STATE PLANE COORDINATES BY 1.00005074. POINTS AT THE BEAR CREEK BRIDGES ARE CONVERTED BY MULTIPLYING THE STATE PLANE COORDINATES BY 1.00004764 POINTS AT THE NEIL CREEK ROAD BRIDGE ARE CONVERTED TO LDP COORDINATES BY MULTIPLYING THE STATE PLANE COORDINATES BY 1.00008886. THE LDP COORDINATES DEFINE TRUE GROUND DISTANCES.

SURVEY WORK WAS PERFORMED BY ARCTIC SLOPE TECHNICAL SERVICES. INC. SURVEY CREWS FROM AUGUST 2006 TO OCTOBER 2006. THE MONUMENTS WERE SURVEYED BY CONVENTIONAL SURVEY METHODS. THE SURVEY EQUIPMENT USED WAS A LEICA 1201 ELECTRONIC THEODOLITE WITH INTEGRATED EDM. S/N 221129.





GPS CONTROL SCHEMATIC

BASIS OF BEARINGS IS THE OREGON COORDINATE SYSTEM OF 1983/98, SOUTH ZONE

SCALE 1" = 3000'

3000' 1500' 3000' 6000' 9000' FEET

## GPS CONTROL AND I-5 HORIZONTAL RECOVERY MAP

I-5: EAGLE MILL BRIDGE \*08738N AND \*08738S. BEAR CREEK BRIDGE \*08742N AND \*08742S. NEIL CREEK ROAD BRIDGE #09184 JACKSON COUNTY

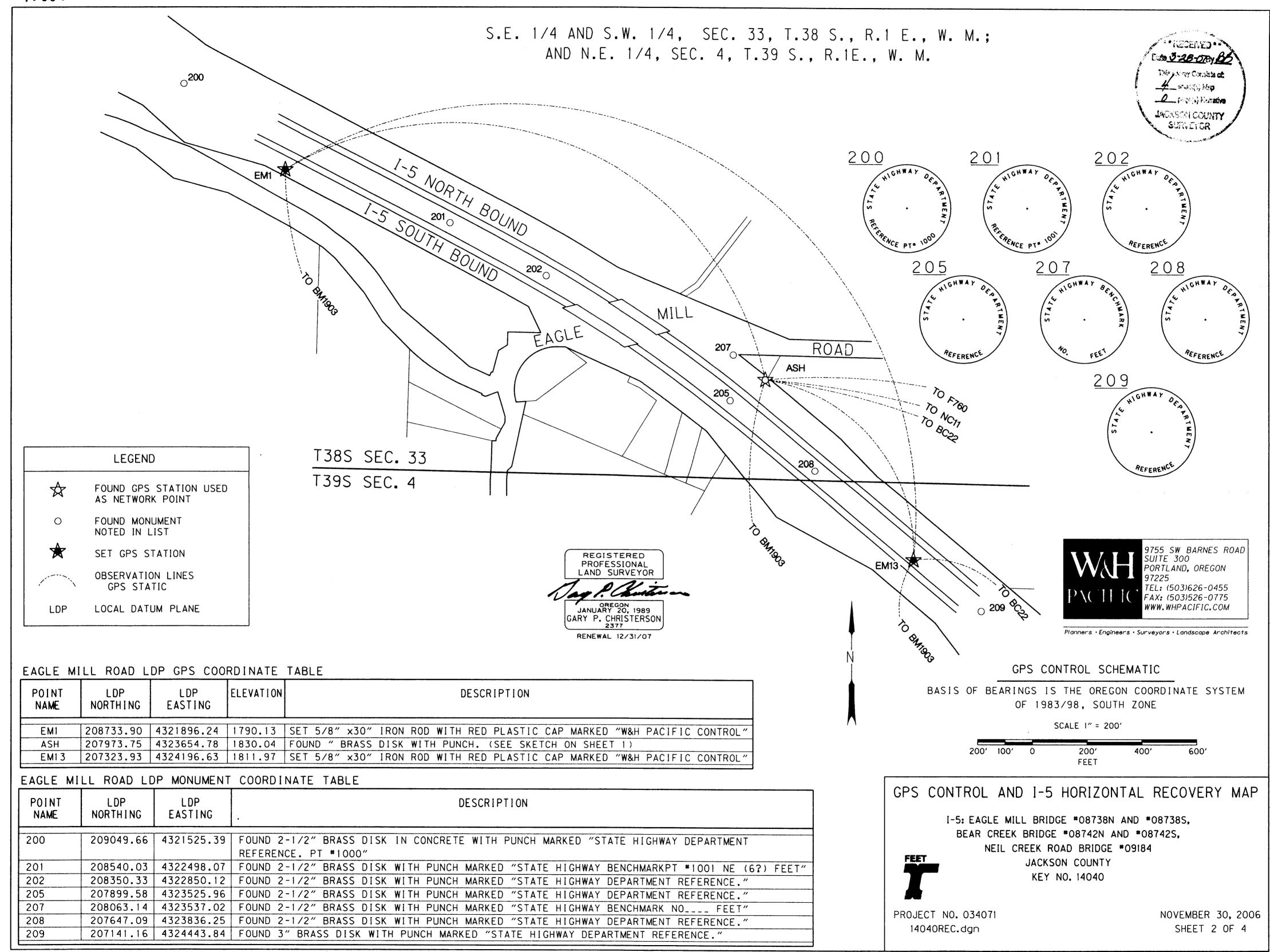


KEY NO. 14040

14040REC.dgn

NOVEMBER 30, 2006 SHEET 1 OF 4

PROJECT NO. 034071

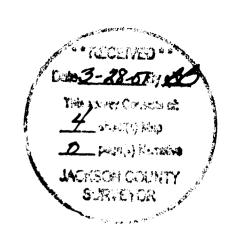


TO BM1903

BC22

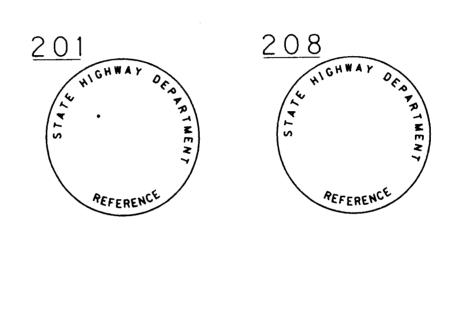
BEAR

N.W. 1/4 AND S.W. 1/4, SEC 11, T.39 S., R.1E., W. M.



BEAR CREEK LDP GPS COORDINATE TABLE

POI NA		LDP NORTHING	LDP EASTING	ELEVATION	DESCRIPTION
B	3C2	199258.58	4333205.65	1888.57	SET 5/8" IRON ROD WITH RED PLASTIC CAP MARKED "W&H PACIFIC CONTROL"
	3C22	201072.96	4331846.44	1835.06	THE DESCRIPTION OF THE PROPERTY OF THE PROPERT



LEGEND FOUND MONUMENT NOTED IN LIST SET GPS STATION OBSERVATION LINES GPS STATIC LOCAL DATUM PLANE LDP



9755 SW BARNES ROAD SUITE 300 PORTLAND, OREGON 97225 TEL: (503)626-0455 FAX: (503)526-0775 WWW.WHPACIFIC.COM

Planners · Engineers · Surveyors · Landscape Architects

REGISTERED PROFESSIONAL LAND SURVEYOR OREGON JANUARY 20, 1989 GARY P. CHRISTERSON 2377 RENEWAL 12/31/07

GPS CONTROL SCHEMATIC

BASIS OF BEARINGS IS THE OREGON COORDINATE SYSTEM OF 1983/98, SOUTH ZONE

SCALE 1" = 200'

200'	100'	0	200′	400′	600′
			FEET		

## GPS CONTROL AND I-5 HORIZONTAL RECOVERY MAP

I-5: EAGLE MILL BRIDGE #08738N AND #08738S, BEAR CREEK BRIDGE #08742N AND #08742S, NEIL CREEK ROAD BRIDGE #09184 JACKSON COUNTY



KEY NO. 14040

PROJECT NO. 034071 14040REC.dgn

NOVEMBER 30, 2006 SHEET 3 OF 4

05.40	ODEEN	LDD	MONITIMENT	COORDINATE	TARLE
BEAR	CKEEK	LUP	MONOMENI	COORDINATE	IADLL

POINT NAME	LDP NORTHING	LDP EASTING	DESCRIPTION		
201	201382.05	4331345.72	FOUND 2-1/2" ALUMINIUM CAP IN CONCRETE WITH PUNCH MARKED "STATE HIGHWAY DEPARTMENT REFERENCE"		
208	200781.65	4332066.72	FOUND BRASS DISK IN CONCRETE		

CREEK

TO BM1903

BC2

