

SHEET INDEX

- 1. SHEET INDEX, CONTROL NETWORK SCHEMATIC, SHEET LAYOUT, CONTROL NARRATIVE, SURVEY NARRATIVE AND REFERENCES
- 2.-4. SURVEY

NARRATIVE

THE PURPOSE OF THIS SURVEY IS TO RESOLVE THE EXISTING RIGHT OF WAY CENTER LINE AND RETRACE THE EXISTING RIGHT OF WAY MARGINS FOR A PORTION OF THE JOHN DAY-BURNS HIGHWAY (US395) FROM HIGHWAY MILEPOINT 4.3 TO MILEPOINT 4.8. THIS SURVEY MEETS THE REQUIREMENTS FOR A RECOVERY SURVEY AS OUTLINED IN THE OREGON REVISED STATUTES, SECTION 209.155.

THIS SURVEY WAS PERFORMED IN INTERNATIONAL FEET UNITS. THIS SURVEY WAS PERFORMED BETWEEN THE MONTHS OF SEPTEMBER 2015 AND AUGUST 2016. THE SURVEY EQUIPMENT USED CONSISTED OF LEICA GS-14 RECEIVERS, A LEICA MS-50 TOTAL STATION, AND LEICA VIVA SURVEY CONTROLLERS.

CONTROL NARRATIVE

PRIMARY CONTROL WAS ESTABLISHED ON THIS PROJECT BY USING GPS AND THE ONLINE POSITIONING USER SERVICE (OPUS) TO ESTABLISH A POSITION ON POINTS 501 AND 507. POINTS 502 THROUGH 506 WERE ESTABLISHED USING THE TOTAL STATION BY HOLDING THE GPS DERIVED COORDINATES FOR POINTS 501 AND 507. THE COORDINATE SYSTEM FOR THIS PROJECT IS THE OREGON STATE PLANE COORDINATE SYSTEM, NAD83 (2011) EPOCH 2010, NORTH ZONE. COORDINATES WERE MOVED TO GROUND BY UTILIZING A LOCAL DATUM PLANE (LDP) COORDINATE SYSTEM. TO CONVERT THE PROJECT LDP COORDINATES TO THE OREGON COORDINATE SYSTEM, NAD83 (2011) EPOCH 2010, NORTH ZONE, MULTIPLY THE VALUES BY A COMBINED FACTOR OF 0.99983450. THE BASIS OF BEARINGS IS GRID BEARINGS THAT WERE ESTABLISHED BY HOLDING THE GPS DERIVED OREGON STATE PLANE, NORTH ZONE, NAD 83(2011) EPOCH 2010, OPUS POSITIONS FOR POINTS 501 AND 507.

JOHN DAY - BURNS HIGHWAY (US HWY. 395)

"C" LINE (CONSTRUCTED LINE)

THE RECORD SHAPE OF THE CONSTRUCTED CENTER LINE FOR JOHN DAY - BURNS HIGHWAY WAS RECREATED AS SHOWN ON OREGON DEPARTMENT OF TRANSPORTATION (ODOT) DRAWING 10B-5-8 AND POSITIONED BY HOLDING PRORATED DISTANCE BETWEEN THE MONUMENTS FOUND AT RECORD STATION 103+19.88 P.S. AND ROTATING THE RECORD SHAPE TO HOLD A PRORATED OFFSET OF THE MONUMENTS FOUND ON THE LEFT SIDE OF CENTER LINE AT STATION 123+50.00 P.O.T. ERROR IN STATIONING WAS PLACED IN THE STATION EQUATION AT STATION 123+46.76 BK.

"RW" LINE (LOCATED LINE)

THE RECORD SHAPE OF THE LOCATED CENTER LINE FOR JOHN DAY - BURNS HIGHWAY WAS RECREATED AS SHOWN ON ODOT DRAWING 8B-9-22 AND POSITIONED BY HOLDING THE CALCULATED POINT OF INTERSECTION (P.I.) AT STATION "RW"107+76.92 AND ROTATING THE RECORD SHAPE TO HOLD THE BEARING (S 22°41'06" W) OF THE BACK TANGENT OF SAID P.I. THE RESULTING RIGHT OF WAY ALIGNMENT FIR VERY WELL WITH THE MONUMENTED CONSTRUCTED CENTER LINE ALIGNMENT SHOWN ON ODOT DRAWING 10B-5-8.

THE RIGHT OF WAY MARGINS WERE ESTABLISHED BY HOLDING THE RIGHT OF WAY WIDTHS SHOWN ON SAID ODOT DRAWING 8B-9-22.

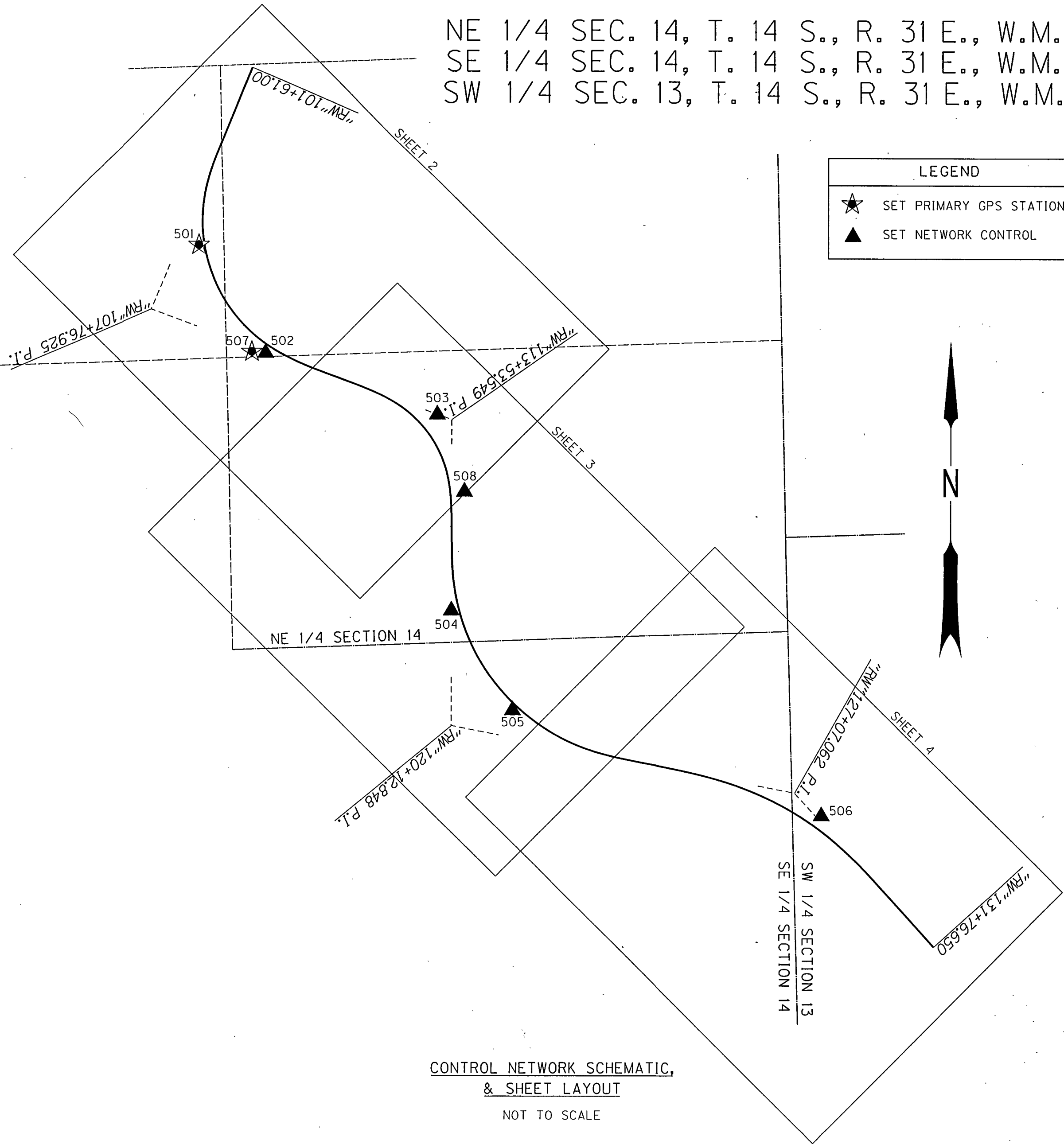
REFERENCES

- 1. ODOT DRG. NO. 8B-9-22 BY THE OREGON STATE HIGHWAY DEPT., DATED MAY 1958
- 2. ODOT DRG. NO. 10C-32-11 BY THE OREGON STATE HIGHWAY DEPT., DATED JULY 1958
- 3. ODOT DRG. NO. 10B-5-8 BY THE OREGON STATE HIGHWAY DEPT., DATED JULY 1960
- 4. ODOT DRG. NO. 10B-9-17 BY OREGON DEPARTMENT OF TRANSPORTATION, DATED MAR. 1996
- 5. MAP OF SURVEY NO. 1890 BY JASON L. HATFIELD, FILED APRIL 6, 2010

NETWORK POINT COORDINATE TABLE

PT ID	LDP NORTHING	LDP EASTING	DATE	DESCRIPTION
501	256022.38	8607096.41	11/09/2015	SET MAG NAIL
502	255766.41	8607252.76	11/09/2015	SET MAG NAIL
503	255622.10	8607657.10	11/09/2015	SET 5/8" IRON ROD WITH RED PLASTIC CAP MARKED "ODOT SURVEY OPERATIONS"
504	255159.31	8607689.68	11/09/2015	SET MAG NAIL
505	254924.97	8607834.53	11/09/2015	SET MAG NAIL
506	254677.36	8608560.13	11/09/2015	SET 5/8" IRON ROD WITH 1-1/2" ALUMINUM CAP MARKED "ODOT"
507	255769.98	8607220.32	11/09/2015	SET HUB AND TACK
508	255439.88	8607720.59	11/09/2015	SET HUB AND TACK

NE 1/4 SEC. 14, T. 14 S., R. 31 E., W.M.
SE 1/4 SEC. 14, T. 14 S., R. 31 E., W.M.
SW 1/4 SEC. 13, T. 14 S., R. 31 E., W.M.



CONTROL NETWORK SCHEMATIC,
& SHEET LAYOUT
NOT TO SCALE

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501	256022.38	8607096.41	11/09/2015	SET MAG NAIL
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REGISTERED
PROFESSIONAL
LAND SURVEYOR

OREGON
JAN. 14, 2003
BRET N. ELITHORP
63148

RENEWAL: DEC. 31, 2017

OREGON DEPARTMENT OF TRANSPORTATION
HORIZONTAL CONTROL, RECOVERY, AND RETRACEMENT SURVEY
US395 CANYON CREEK FLOOD MITIGATION
JOHN DAY-BURNS HIGHWAY
GRANT COUNTY, OR

FOR ODOT REGION 5
3012 ISLAND AVE
LA GRANDE, OR 97850

SEPTEMBER 20, 2016
NO SCALE
SHEET 1 OF 4