

SHEET INDEX

1. SHEET LAYOUT, CONTROL POINT SCHEMATIC, BASIS OF BEARING & NARRATIVE
2. CONTROL POINT AND FOUND MONUMENT TABLES, LIST OF REFERENCES & CONTROL POINT CONFIDENCE LEVEL LIMITS
- 3.-4. MONUMENT RECOVERY SURVEY

NW 1/4 SEC 2 T37S R2W WM
 NE 1/4 SEC 2 T37S R2W WM
 SE 1/4 SEC 2 T37S R2W WM
 SW 1/4 SEC 2 T37S R2W WM
 NE 1/4 SEC 3 T37S R2W WM
 SE 1/4 SEC 34 T36S R2W WM
 SW 1/4 SEC 35 T36S R2W WM

** RECEIVED **
 DATE 4-29-13 BY *[Signature]*
 This survey consists of:
 4 sheet(s) Map
 0 page(s) Narrative
 JACKSON COUNTY SURVEYOR

LEGEND	
	SET GPS POINT (ORGN RTK)
	FOUND GPS POINT (ORGN RTK)
	EDGE OF PAVEMENT



SEE SHEET 2 FOR CONTROL POINT COORDINATE TABLE & CONFIDENCE LEVEL LIMITS TABLE

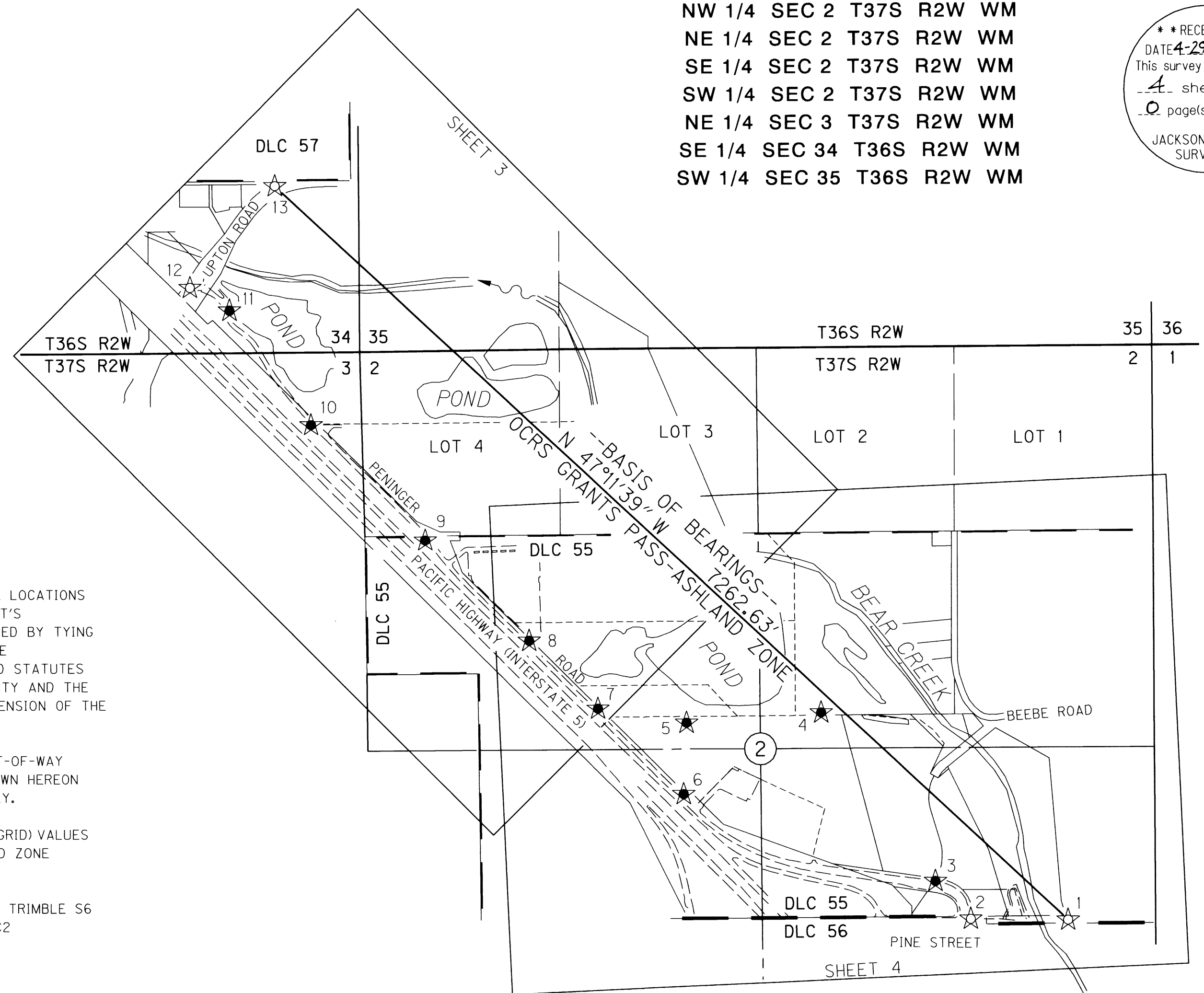
NARRATIVE

THE PURPOSE OF THIS SURVEY IS TO PROVIDE FOR THE PERPETUATION OF THE LOCATIONS OF SURVEY MONUMENTS OF RECORD THAT MAY BE DESTROYED BY THIS PROJECT'S CONSTRUCTION. PERPETUATION OF THE MONUMENT LOCATIONS WAS ACCOMPLISHED BY TYING THE MONUMENTS TO THE PROJECT CONTROL NETWORK. THIS SURVEY MEETS THE REQUIREMENTS FOR A RECOVERY SURVEY AS OUTLINED IN THE OREGON REVISED STATUTES CHAPTER 209.155. THIS SURVEY WAS MADE AT THE REQUEST OF JACKSON COUNTY AND THE OREGON DEPARTMENT OF TRANSPORTATION IN SUPPORT OF THE PROPOSED EXTENSION OF THE BEAR CREEK GREENWAY TRAIL FROM PINE STREET TO UPTON ROAD.

THIS SURVEY DOES NOT CONSTITUTE A PROPERTY BOUNDARY SURVEY OR RIGHT-OF-WAY RETRACEMENT SURVEY. ALL PROPERTY LINES AND RIGHT-OF-WAY LINES AS SHOWN HEREON ARE APPROXIMATE. SAID LINES ARE SHOWN FOR GRAPHIC REPRESENTATION ONLY.

ALL DISTANCES, COORDINATES AND BEARINGS SHOWN HEREON ARE PROJECTED (GRID) VALUES BASED ON THE OREGON COORDINATE REFERENCE SYSTEM GRANTS PASS-ASHLAND ZONE PROJECTION PARAMETERS. THIS SURVEY USES INTERNATIONAL FEET UNITS.

SURVEY EQUIPMENT USED CONSISTED OF TWO TRIMBLE R8 GPS RECEIVERS, ONE TRIMBLE S6 ROBOTIC TOTAL STATION, ONE SOKKIA SDL30 DIGITAL LEVEL, ONE TRIMBLE TSC2 CONTROLLER AND ONE TRIMBLE TSC3 CONTROLLER.



CONTROL NARRATIVE

PROJECT: BEAR CREEK GREENWAY TRAIL:
 PINE STREET TO UPTON ROAD
 LOCATION: JACKSON COUNTY, OREGON
 OBEC PROJECT: 0019-0100.29
 SURVEY DATUM:
 HORIZONTAL - OCRS: GRANTS PASS-ASHLAND ZONE
 NAD83 (CORS96) EPOCH 2002 (INTERNATIONAL FEET)

**OREGON COORDINATE REFERENCE SYSTEM (OCRS)
 GRANTS PASS-ASHLAND ZONE PARAMETERS**

TRANSVERSE MERCATOR PROJECTION
 NORTH AMERICAN DATUM OF 1983
 LATITUDE OF GRID ORIGIN : 41°45'00" N
 CENTRAL MERIDIAN : 123°20'00" W
 FALSE NORTHING: 0.000 M (0.00 FT)
 FALSE EASTING: 50,000.000 M (164041.9948 FT)
 CENTRAL MERIDIAN SCALE: 1.000043 (EXACT)

HORIZONTAL CONTROL SURVEY

PRIMARY CONTROL FOR THIS PROJECT WAS ESTABLISHED BY USING THE OREGON REAL TIME GPS NETWORK (ORGN) TO ESTABLISH HORIZONTAL POSITIONS FOR CONTROL POINTS 1 THROUGH 13. THE MEAN NORTHINGS AND EASTINGS OF TWO SEPARATE OBSERVATIONS WITH A MINIMUM DURATION OF 180 EPOCHS, UNDER DIFFERENT SATELLITE CONSTELLATIONS, WERE HELD FIXED.

CONTROL POINTS FOR THIS SURVEY WERE NOT SET ON AND DO NOT REPRESENT PROPERTY LINES OR RIGHT-OF-WAY LINES AND ARE INTENDED FOR USE BY JACKSON COUNTY, THE OREGON DEPARTMENT OF TRANSPORTATION (ODOT) AND OBEC CONSULTING ENGINEERS (OBEC) IN SUPPORT OF FUTURE PROJECTS. IT IS NOT THE INTENT OF JACKSON COUNTY, ODOT, OR OBEC TO PERPETUATE THESE CONTROL POINTS AS MONUMENTS.

VERTICAL CONTROL SURVEY

VERTICAL CONTROL IS BASED ON THE NAVD88 (GEOID12) VERTICAL DATUM AND WAS ESTABLISHED BY HOLDING THE ORGN DERIVED ELEVATION OF CONTROL POINT NUMBER 1. A DIGITAL LEVEL LOOP WAS THEN RUN THROUGH CONTROL POINTS 2 THROUGH 13.

**CONTROL POINT SCHEMATIC,
 BASIS OF BEARING & SHEET LAYOUT**
 NOT TO SCALE

FILE NAME: 17883ret.dgn

OBEC CONSULTING ENGINEERS
 Corporate Office: 920 COUNTRY CLUB ROAD, SUITE 100B EUGENE, OREGON 97401-6089, 541-683-6090
 3990 FAIRVIEW INDUSTRIAL DRIVE SE, SUITE 200 SALEM, OREGON 97302-1166, 503-589-4100
 831 OHARE PARKWAY MEDFORD, OREGON 97504-4005, 541-774-5590
 www.obec.com 5000 MEADOWS ROAD, SUITE 420 LAKE OSWEGO, OREGON 97035, 503-620-6103

REGISTERED PROFESSIONAL LAND SURVEYOR
[Signature]
 OREGON
 JULY 12, 2005
 ARON JAMES CUTSFORTH
 65696
 RENEWAL: DEC. 31, 2013

JACKSON COUNTY & OREGON DEPARTMENT OF TRANSPORTATION
 HORIZONTAL CONTROL AND MONUMENT RECOVERY SURVEY
 BEAR CREEK GREENWAY TRAIL: PINE STREET TO UPTON ROAD
 JACKSON COUNTY

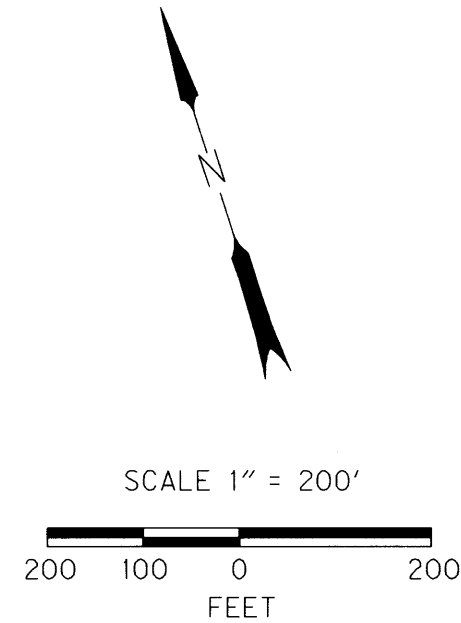
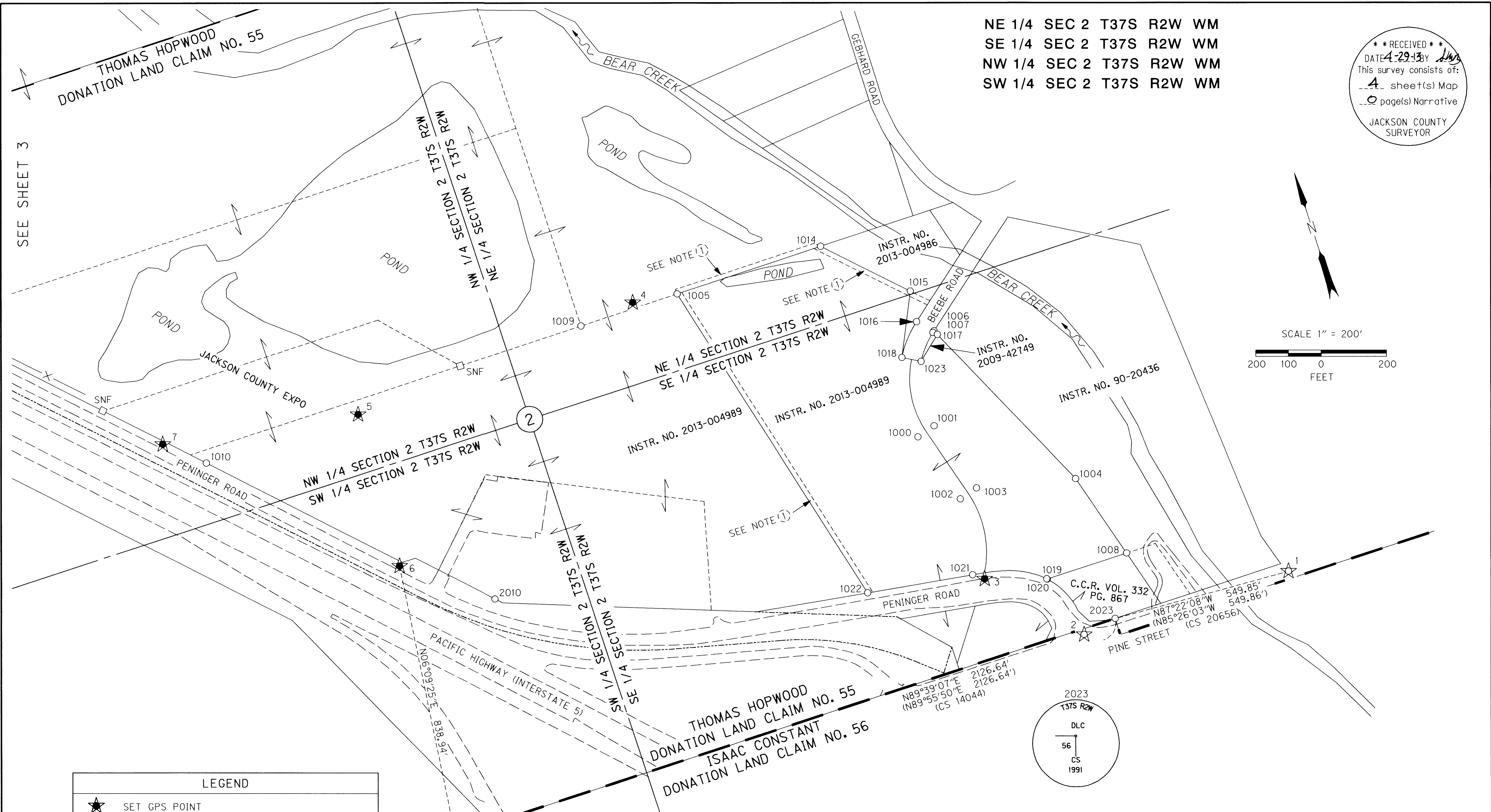
ODOT REGION 3 APRIL, 2013
 100 ANTELOPE ROAD NO SCALE
 WHITE CITY, OR 97503 KEY NO. 17883 SHEET 1 OF 4

J. COLTON	OBEC	DESIGNED: A. CUTSFORTH	PROJ. NO. 0019-100.29
APPROVED BY:	GROUP MANAGER	DRAWN: A. CUTSFORTH	CHK'D: W. DONOVAN

NE 1/4 SEC 2 T37S R2W WM
SE 1/4 SEC 2 T37S R2W WM
NW 1/4 SEC 2 T37S R2W WM
SW 1/4 SEC 2 T37S R2W WM

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SEE SHEET 3

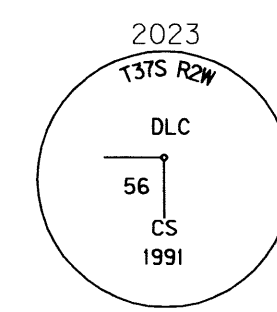
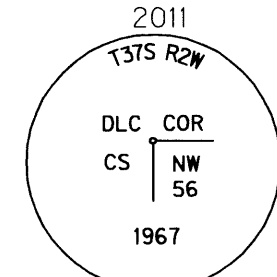


LEGEND

- ★ SET GPS POINT (ORGN RTK)
- ☆ FOUND GPS POINT (ORGN RTK)
- () RECORD DATA AS NOTED
- EDGE OF PAVEMENT
- FOUND MONUMENT AS NOTED IN TABLE
- SURVEY MONUMENT OF RECORD, SEARCHED FOR - NOT FOUND
- SNF SEARCHED FOR - NOT FOUND
- C.C.R. CURCUIT COURT RECORDS OF JACKSON COUNTY, OREGON

NOTE (1) EXISTING 15 FOOT WIDE WATER LINE EASEMENTS PER INST. 2012-021382 AND 2012-026233

SEE SHEET 2 FOR RECOVERED MONUMENT LIST
AND CONTROL POINT TABLE



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4/29/2013
ARON JAMES CUTSFORTH
65696
RENEWAL: DEC. 31, 2013

FILE NAME: 17883ret.dgn

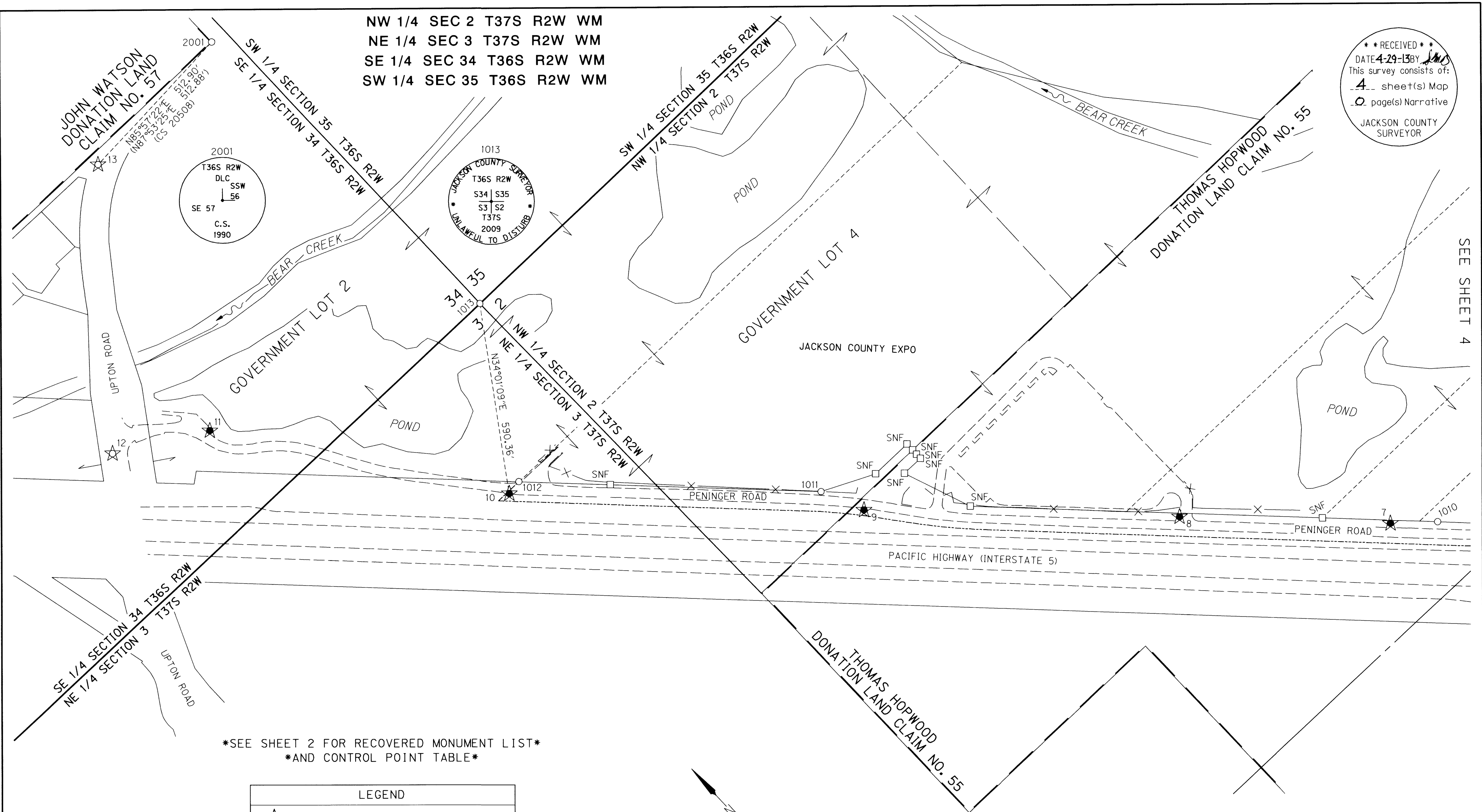
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JACKSON COUNTY & OREGON DEPARTMENT OF TRANSPORTATION
HORIZONTAL CONTROL AND MONUMENT RECOVERY SURVEY
BEAR CREEK GREENWAY TRAIL: PINE STREET TO UPTON ROAD
JACKSON COUNTY

ODOT REGION 3
100 ANTELOPE ROAD
WHITE CITY, OR 97503
DESIGNED: A. CUTSFORTH
DRAWN: A. CUTSFORTH

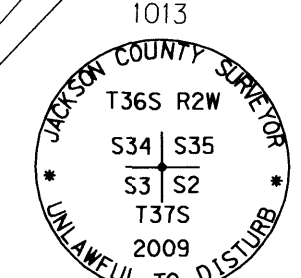
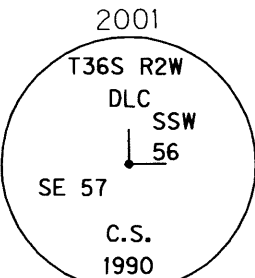
APRIL, 2013
1" = 200'
KEY NO. 17883
CHK'D: W. DONOVAN

SHEET 4 OF 4
PROJ. NO. 0019-100.29



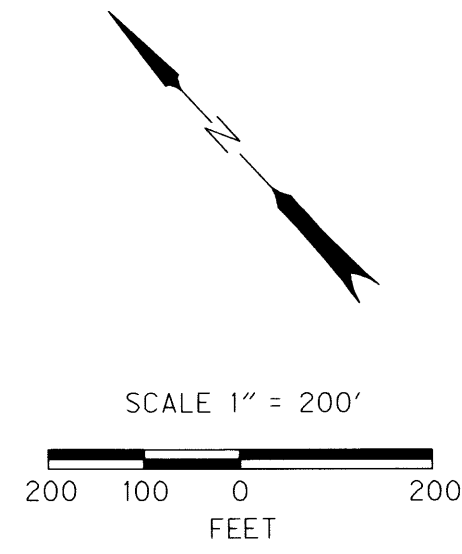
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★	SET GPS POINT (ORGN RTK)
☆	FOUND GPS POINT (ORGN RTK)
()	RECORD DATA AS NOTED
—	EDGE OF PAVEMENT
○	FOUND MONUMENT AS NOTED IN TABLE
□	SURVEY MONUMENT OF RECORD, SEARCHED FOR - NOT FOUND
SNF	SEARCHED FOR - NOT FOUND



4/29/2013
 REGISTERED PROFESSIONAL LAND SURVEYOR
 ARON JAMES CUTSFORTH
 65696
 RENEWAL: DEC. 31, 2013

OBEC CONSULTING ENGINEERS
 Corporate Office: 920 COUNTRY CLUB ROAD, SUITE 100B EUGENE, OREGON 97401-6089, 541-683-6090
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JACKSON COUNTY & OREGON DEPARTMENT OF TRANSPORTATION
 HORIZONTAL CONTROL AND MONUMENT RECOVERY SURVEY
 BEAR CREEK GREENWAY TRAIL: PINE STREET TO UPTON ROAD
 JACKSON COUNTY
 ODOT REGION 3 APRIL, 2013
 100 ANTELOPE ROAD 1" = 200'
 WHITE CITY, OR 97503 KEY NO. 17883 SHEET 3 OF 4
 DESIGNED: A. CUTSFORTH PROJ. NO. 0019-100.29
 DRAWN: A. CUTSFORTH CHK'D: W. DONOVAN

FILE NAME: 17883ret.dgn

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REFERENCES

1. CS 1637, BY MARK E. BOYDEN, DATED MARCH 2, 1961
2. CS 1971, BY MARK E. BOYDEN, DATED APRIL, 1962
3. CS 20508, BY LOGAN MILES, DATED SEPTEMBER, 2009
4. CS 20656, BY ARON CUTSFORTH, DATED APRIL, 2010
5. CS 14044, BY JAMES E. HIBBS, DATED JUNE 6, 1994
6. CS 21217, BY ROBERT V. NEATHAMER, DATED FEBRUARY 26, 2013
7. ODOT RIGHT-OF-WAY DRAWING NO. 8B-8-23
8. ODOT RIGHT-OF-WAY DRAWING NO. 1A-13-26R
9. INSTRUMENT NO. 74-1660
10. INSTRUMENT NO. 74-7189
11. INSTRUMENT NO. 90-20436
12. INSTRUMENT NO. 2009-42749
13. INSTRUMENT NO. 2010-28968
14. INSTRUMENT NO. 2013-004986
15. INSTRUMENT NO. 2013-004989
16. CIRCUIT COURT RECORDS VOL. 332, PAGE 867

FD = FOUND
 CS = COUNTY SURVEY
 ID = INSIDE DIAMETER
 OD = OUTSIDE DIAMETER
 OPC = ORANGE PLASTIC CAP
 JCCR = JACKSON COUNTY CORNER RECORDS

1.96 SIGMA (95%) CONFIDENCE LEVEL
 LIMITS-RTK GPS CONFIDENCE TABLE

PT NO	SOLUTION	RMS
1	WIDE AREA RTK - L1 FIXED	0.02'
2	WIDE AREA RTK - L1 FIXED	0.02'
3	WIDE AREA RTK - L1 FIXED	0.02'
4	WIDE AREA RTK - L1 FIXED	0.02'
5	WIDE AREA RTK - L1 FIXED	0.02'
6	WIDE AREA RTK - L1 FIXED	0.03'
7	WIDE AREA RTK - L1 FIXED	0.03'
8	WIDE AREA RTK - L1 FIXED	0.05'
9	WIDE AREA RTK - L1 FIXED	0.02'
10	WIDE AREA RTK - L1 FIXED	0.03'
11	WIDE AREA RTK - L1 FIXED	0.02'
12	WIDE AREA RTK - L1 FIXED	0.02'
13	WIDE AREA RTK - L1 FIXED	0.03'

RMS (ROOT MEAN SQUARE) AFTER A MINIMUM OF 180 MEASUREMENTS OF EACH BASE LINE INDICATES THE QUALITY OF THE SOLUTION BASED ON MEASUREMENT NOISE. THE LOWER THE RMS VALUE, THE HIGHER THE QUALITY OF THE BASELINE. RMS IS EXPRESSED IN FEET AND IS THE RADIUS OF THE ERROR CIRCLE WITHIN WHICH 95% OF THE POSITION FIXES ARE FOUND.

RECOVERED MONUMENT LIST

PT ID	OCRS NORTHING	OCRS EASTING	DATE	DESCRIPTION & REFERENCE DOCUMENTS
1000	230203.03	280898.42	8/13/12	FD 1" OD IRON PIPE IN CONCRETE, SMASHED, DOWN 0.4', PER CS 1971
1001	230220.11	280955.99	8/13/12	FD 1" OD IRON PIPE IN CONCRETE, SMASHED, DOWN 0.5', PER CS 1971
1002	229983.36	280963.80	8/13/12	FD 1" OD IRON PIPE IN CONCRETE, GOOD CONDITION, DOWN 0.1', PER CS 1971
1003	230000.17	281021.55	8/13/12	FD 1" OD IRON PIPE IN CONCRETE, GOOD CONDITION, UP 1.0', PER CS 1971
1004	229934.69	281318.97	8/13/12	FD 3/4" ID IRON PIPE, GOOD CONDITION, DOWN 0.3', PER CS 1971
1005	230843.74	280331.26	8/13/12	FD STONE WITH SCRIBED X, GOOD CONDITION, DOWN 1.80', AS SHOWN PER CS 1637 & 1971
1006	230496.00	281044.58	8/15/12	FD 3/4" ID IRON PIPE, GOOD CONDITION, FLUSH, PER CS 1971
1007	230492.36	281040.16	8/15/12	FD 3/4" ID IRON PIPE, GOOD CONDITION, FLUSH, PER CS 1971
1008	229670.52	281397.79	9/12/12	FD 3/4" ID IRON PIPE IN CONCRETE, GOOD CONDITION, DOWN 1.0', PER CS 1971
1009	230841.03	280021.32	9/12/12	FD 3/4" ID IRON PIPE, BENT, TIED AT SPIN POINT, DOWN 0.5', PER CS 1637
1010	230792.50	278800.47	9/12/12	FD 3/4" IRON ROD, GOOD CONDITION, DOWN 0.3', PER ODOT DWG. NO. 8B-8-23
1011	232149.88	277470.52	9/12/12	FD 3/4" IRON ROD, BENT, TIED AT SPIN POINT, DOWN 1.2', PER ODOT DWG. NO. 8B-8-23
1012	232804.64	276809.41	9/12/12	FD 3/4" ID IRON PIPE, BENT, TIED AT SPIN POINT, DOWN 1.5', PER CS 1637
1013	233286.97	277093.14	9/12/12	FD 3-1/2" BRASS DISK IN CONCRETE STAMPED "T36S R2W, S34, S35, S2,S3, T37S, 2009", FLUSH, PER JCCR
1014	230847.19	280793.24	3/4/13	FD 5/8" IRON ROD W/OPC STAMPED "NEATHAMER SURVEYING", GOOD CONDITION, FLUSH, PER CS 21217
1015	230633.55	281012.88	3/4/13	FD 5/8" IRON ROD W/OPC STAMPED "NEATHAMER SURVEYING", GOOD CONDITION, FLUSH, PER CS 21217
1016	230539.00	281002.38	3/4/13	FD 5/8" IRON ROD W/OPC STAMPED "NEATHAMER SURVEYING", GOOD CONDITION, FLUSH, PER CS 21217
1017	230482.56	281051.19	3/4/13	FD 5/8" IRON ROD W/OPC STAMPED "NEATHAMER SURVEYING", GOOD CONDITION, FLUSH IN FALLEN TREE, PER CS 21217
1018	230448.84	280926.17	3/4/13	FD 5/8" IRON ROD W/OPC STAMPED "NEATHAMER SURVEYING", GOOD CONDITION, FLUSH, PER CS 21217
1019	229670.09	281140.81	3/4/13	FD 5/8" IRON ROD W/OPC STAMPED "NEATHAMER SURVEYING", GOOD CONDITION, FLUSH, PER CS 21217
1020	229669.06	281141.85	3/4/13	FD 5/8" IRON ROD W/OPC STAMPED "NEATHAMER SURVEYING", GOOD CONDITION, FLUSH, PER CS 21217
1021	229751.32	280928.56	3/4/13	FD .38 CALIBER SHELL CASING, GOOD CONDITION, FLUSH W/CONCRETE, PER CS 21217
1022	229797.71	280605.68	3/4/13	FD 5/8" IRON ROD W/OPC STAMPED "NEATHAMER SURVEYING", GOOD CONDITION, FLUSH, PER CS 21217
1023	230419.35	280978.42	3/4/13	FD 5/8" IRON ROD W/OPC STAMPED "NEATHAMER SURVEYING", GOOD CONDITION, FLUSH, PER CS 21217
2001	234437.53	277035.59	9/12/12	FD 2-1/2" BRASS DISK IN CONCRETE STAMPED " T36S R2W, DLC SSW 56, SE 57, C.S. 1990", DOWN 0.3', PER JCCR
2010	230138.42	279514.23	9/12/12	FD 5/8" IRON ROD, GOOD CONDITION, DOWN 0.3', PER ODOT DWG. NO. 8B-8-23
2011	229478.61	279176.40	9/12/12	FD 2-1/2" BRASS CAP STAMPED "T37S R2W, DLC COR, NW56, CS 1967", DOWN 0.3', PER JCCR
2023	229491.53	281303.00	9/12/12	FD 1" OD IRON PIPE W/2-1/2" BRASS CAP STAMPED "T37S R2W, DLC 56, CS 1991", DOWN 1.2', PER JCCR

FD = FOUND
 RPC = RED PLASTIC CAP
 CS = COUNTY SURVEY
 CP* = CONTROL POINT NUMBER

REGISTERED PROFESSIONAL LAND SURVEYOR
 4/29/2013
 A. Cutsforth
 OREGON
 JULY 12, 2005
 ARON JAMES CUTSFORTH
 65696
 RENEWAL: DEC. 31, 2013

CONTROL POINT COORDINATE TABLE

* = LEVELED ELEVATION

PT. NO.	OCRS NORTHING	OCRS EASTING	(NAVD 88) ELEVATION	ELLIPSOID HEIGHT	GEOIDAL SEPARATION	CONVERGENCE ANGLE	DATE	DESCRIPTION
1	229466.29	281852.27	1266.96	1187.19'	-79.77'	0°17'38"	8/7/12	FD 3" BRASS DISK STAMPED "RESET 1980", CP#7 PER CS 20656
2	229473.42	281197.41	1264.99*	N/A	N/A	0°17'32"	8/7/12	FD 1" COPPER PLUG STAMPED "OBEC", FLUSH IN CONCRETE, CP#5 PER CS 20656
3	229727.99	280959.63	1261.89*	N/A	N/A	0°17'30"	8/7/12	FD MAG NAIL W/WASHER, FLUSH IN PAVEMENT
4	230860.25	280193.62	1254.93*	N/A	N/A	0°17'23"	8/7/12	SET 5/8" REBAR W/RPC MARKED "OBEC CONTROL", DOWN 0.1'
5	230792.16	279287.42	1249.62*	N/A	N/A	0°17'15"	8/7/12	SET 5/8" REBAR W/RPC MARKED "OBEC CONTROL", DOWN 0.1'
6	230312.71	279266.38	1254.74*	N/A	N/A	0°17'15"	8/7/12	SET 5/8" REBAR W/RPC MARKED "OBEC CONTROL", DOWN 0.1'
7	230887.52	278690.83	1249.80*	N/A	N/A	0°17'10"	8/7/12	SET 5/8" REBAR W/RPC MARKED "OBEC CONTROL", DOWN 0.1'
8	231342.96	278227.95	1246.82*	N/A	N/A	0°17'06"	8/7/12	SET 1" COPPER PLUG STAMPED "OBEC", FLUSH IN CONCRETE CURB
9	232019.03	277529.23	1241.20*	N/A	N/A	0°16'59"	8/7/12	SET 5/8" REBAR W/RPC MARKED "OBEC CONTROL", DOWN 0.1'
10	232797.65	276762.85	1235.41*	N/A	N/A	0°16'53"	8/7/12	SET 5/8" REBAR W/RPC MARKED "OBEC CONTROL", DOWN 0.1'
11	233566.37	276217.21	1237.92*	N/A	N/A	0°16'48"	8/7/12	SET 1" COPPER PLUG STAMPED "OBEC", FLUSH IN CONCRETE CURB
12	233718.51	275950.45	1254.54*	N/A	N/A	0°16'45"	8/7/12	FD MAG NAIL W/WASHER, FLUSH, CP#3 PER CS 20508
13	234401.36	276523.97	1234.89*	N/A	N/A	0°16'51"	8/7/12	FD 5/8" IRON ROD W/RPC MARKED "OBEC CONTROL", DOWN 0.1', CP#1 PER CS 20508

FILE NAME: 17883ret.dgn

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