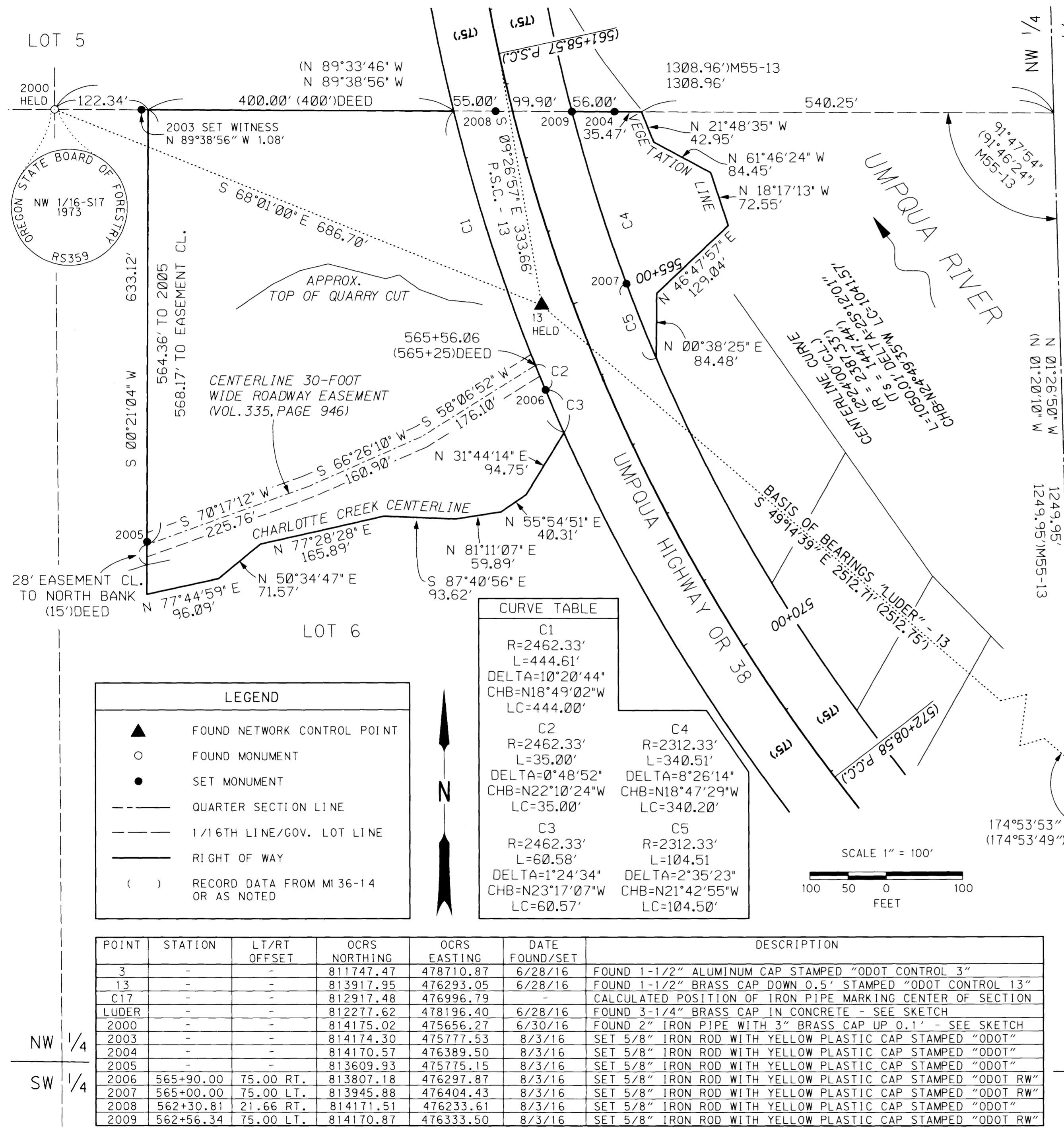


GOV. LOT 6, SEC 17, T 22 S, R 10 W, W.M.

FRED
 Date: 9/11/2016 By: JC
 This survey is a part of:
 Map: ST HWY 38-022
 Date: 7/2016
 Cont: 100
 DOUGLAS COUNTY
 SURVEYOR



NARRATIVE

AT THE REQUEST OF THE REGION 3 GEOLOGIST, THE PURPOSE OF THIS SURVEY IS TO MONUMENT AND MARK THE BOUNDARIES OF THAT TRACT OF LAND DESCRIBED AS PARCEL 2 IN THE FINAL JUDGEMENT OF CASE NO. 19977, DOUGLAS COUNTY CIRCUIT COURT RECORDS (ODOT R/W FILE NO. 19460). THIS SURVEY WAS PERFORMED BY ODOT CREWS JUNE THROUGH AUGUST 2016, USING LEICA TS15 & MS60 TOTAL STATIONS AND A LEICA GS14 GPS UNIT.

THE BASIS OF BEARINGS AND HORIZONTAL COORDINATES ARE ON OREGON COORDINATE REFERENCE SYSTEM (OCRS) OREGON COAST ZONE, WITH A REALIZATION OF NAD83 (2011), EPOCH 2010.00.

SURVEY CONTROL POINTS 3, 13 AND "LUDER" WERE RECOVERED FROM COUNTY SURVEY M136-14. SAID SURVEY WAS REPORTED IN METRIC UNITS BASED ON NAD83 (1991) OREGON STATE PLANE COORDINATES WITH AN APPLIED LDP (LOCAL DATUM PLANE), BUT ROTATED ABOUT POINT "LUDER" TO MATCH THE RECORD BASIS OF BEARINGS BETWEEN POINTS C17 AND 1000 PER M123-26.

ODOT CREWS ESTABLISHED OCERS POSITIONS ON SAID CONTROL POINTS BY AVERAGING TWO 180 EPOCH OBSERVATIONS WITH RTK GPS. THE MEASUREMENTS BETWEEN THEM CHECKED WELL. I CONVERTED SURVEY DATA FROM M136-14 TO IMPERIAL UNITS, TRANSLATED THE COORDINATES TO "LUDER", AND ROTATED TO POINT 13 TO ADJUST SAID SURVEY TO OCERS COORDINATES. I HELD THE RIGHT OF WAY RESOLUTION AS SHOWN IN M136-14 TO LOCATE WHERE THE HIGHWAY BISECTS SUBJECT PROPERTY.

THE NORTHERLY BOUNDARY OF THE SITE IS THE NORTH 1/16TH LINE. USING THE ADJUSTED SURVEY DATA FROM M136-14, I HELD THE CALCULATED POSITION OF POINT C17 FOR THE CENTER OF SECTION. IT FALLS IN THE MIDDLE OF THE HIGHWAY, SO FOR SAFETY REASONS, WE DECIDED NOT TO RE-TIE IT. CREWS TRAVERSED UP THE STEEP HILLSIDE AND TIED THE NW1/16 CORNER. SAID ALIQUOT CORNERS WERE ESTABLISHED IN 1973 AS SHOWN BY COUNTY SURVEY M55-13. USING THE MEASUREMENTS SHOWN IN M55-13, I HELD A DISTANCE-DISTANCE INTERSECTION TO LOCATE THE PROJECTED CN1/16 CORNER (IN THE RIVER).

HAVING LOCATED THE NORTH 1/16TH LINE, I HELD DEED CALL OF 400 FEET WESTERLY ALONG SAID LINE FROM IT'S INTERSECTION WITH THE WESTERLY HIGHWAY R/W LINE TO LOCATE THE NORTHWEST PROPERTY CORNER. THE CREW SET A WITNESS CORNER ON THE 1/16TH LINE WHICH BEARS N 89°38'56"W 1.08 FEET FROM THE TRUE PROPERTY CORNER. THE WESTERLY BOUNDARY WAS HELD AT RIGHT ANGLES TO THE NORTH 1/16TH LINE PER DEED DESCRIPTION.

CHARLOTTE CREEK IS CALLED FOR AS THE SOUTHERLY BOUNDARY AND WAS LOCATED BY MEANDERING THE THREAD. THE ORDINARY HIGH WATER MARK OF THE UMPQUA RIVER IS THE EASTERLY BOUNDARY AND WAS LOCATED BY MEANDERING THE LINE OF PERMANENT VEGETATION.

THE ROADWAY EASEMENT RUNNING THROUGH SUBJECT PROPERTY IS DESCRIBED IN VOLUME 335, PAGE 946, DOUGLAS COUNTY RECORDS. THE DESCRIPTION CALLS FOR STATION 565+25 ON THE WESTERLY R/W LINE AS THE P.O.B., BUT ALSO CALLS IT AN EXISTING ESTABLISHED ACCESS. THIS LEAD ME TO BELIEVE THAT THE ROAD WAS EXISTING AND THE EASEMENT INTENDED TO COVER IT. I HELD THE AS-TRAVELED ROAD CENTERLINE FOR LOCATION AND A WIDTH OF 30 FEET PER SAID DEED.

ALL REFERENCES CONSULTED ARE MENTIONED IN NARRATIVE.

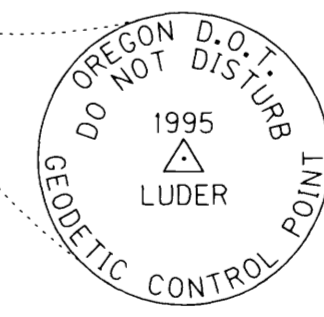
LEGEND

- ▲ FOUND NETWORK CONTROL POINT
- FOUND MONUMENT
- SET MONUMENT
- QUARTER SECTION LINE
- - - 1/16TH LINE/GOV. LOT LINE
- RIGHT OF WAY
- () RECORD DATA FROM MI 36-14 OR AS NOTED

CURVE TABLE

C1 R=2462.33' L=444.61' DELTA=10°20'44" CHB=N18°49'02"W LC=444.00'	C2 R=2462.33' L=35.00' DELTA=0°48'52" CHB=N22°10'24"W LC=35.00'	C3 R=2462.33' L=60.58' DELTA=1°24'34" CHB=N23°17'07"W LC=60.57'	C4 R=2312.33' L=340.51' DELTA=8°26'14" CHB=N18°47'29"W LC=340.20'	C5 R=2312.33' L=104.51' DELTA=2°35'23" CHB=N21°42'55"W LC=104.50'
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POINT	STATION	LT/RT OFFSET	OCRS NORTHING	OCRS EASTING	DATE FOUND/SET	DESCRIPTION
3	-	-	811747.47	478710.87	6/28/16	FOUND 1-1/2" ALUMINUM CAP STAMPED "ODOT CONTROL 3"
13	-	-	813917.95	476293.05	6/28/16	FOUND 1-1/2" BRASS CAP DOWN 0.5' STAMPED "ODOT CONTROL 13"
C17	-	-	812917.48	476996.79	-	CALCULATED POSITION OF IRON PIPE MARKING CENTER OF SECTION
LUDER	-	-	812277.62	478196.40	6/28/16	FOUND 3-1/4" BRASS CAP IN CONCRETE - SEE SKETCH
2000	-	-	814175.02	475656.27	6/30/16	FOUND 2" IRON PIPE WITH 3" BRASS CAP UP 0.1' - SEE SKETCH
2003	-	-	814174.30	475777.53	8/3/16	SET 5/8" IRON ROD WITH YELLOW PLASTIC CAP STAMPED "ODOT"
2004	-	-	814170.57	476389.50	8/3/16	SET 5/8" IRON ROD WITH YELLOW PLASTIC CAP STAMPED "ODOT"
2005	-	-	813609.93	475775.15	8/3/16	SET 5/8" IRON ROD WITH YELLOW PLASTIC CAP STAMPED "ODOT"
2006	565+90.00	75.00 RT.	813807.18	476297.87	8/3/16	SET 5/8" IRON ROD WITH YELLOW PLASTIC CAP STAMPED "ODOT RW"
2007	565+00.00	75.00 LT.	813945.88	476404.43	8/3/16	SET 5/8" IRON ROD WITH YELLOW PLASTIC CAP STAMPED "ODOT RW"
2008	562+30.81	21.66 RT.	814171.51	476233.61	8/3/16	SET 5/8" IRON ROD WITH YELLOW PLASTIC CAP STAMPED "ODOT"
2009	562+56.34	75.00 LT.	814170.87	476333.50	8/3/16	SET 5/8" IRON ROD WITH YELLOW PLASTIC CAP STAMPED "ODOT RW"



REGISTERED
 PROFESSIONAL
 LAND SURVEYOR
 Andrew Miller
 OREGON
 DECEMBER 6, 2013
 ANDREW MICHAEL MILLER
 79372
 EXPIRES: 12/31/2016

FILE NAME: S_CharlotteCrQuarry_01_B.DGN

OREGON DEPARTMENT OF TRANSPORTATION

BOUNDARY MAP
 CHARLOTTE CREEK QUARRY
 UMPQUA HIGHWAY OR 38
 DOUGLAS COUNTY, OREGON

ODOT REGION 2 TECH CENTER
 455 AIRPORT RD. SE, BLDG. A
 SALEM, OR 97301

AUGUST 11, 2016
 SHEET 1 OF 1
 CMS17011