

NARRATIVE

THE PURPOSE OF THIS SURVEY IS TO RESOLVE AND MONUMENT THE BOUNDARY OF MATERIAL SOURCE LEASE PERMITS ACQUIRED BY THE STATE OF OREGON DEPARTMENT OF TRANSPORTATION FROM THE UNITED STATES DEPARTMENT OF THE INTERIOR, BUREAU OF LAND MANAGEMENT (BLM), FOR A QUARRY KNOWN AS COYOTE POINT QUARRY. THE BLM LEASE PERMITS FILED AS DECISION Q-1702 AND SERIAL NO. OREGON 06592 DESCRIBE THE MATERIAL SOURCE LEASE AREA AS THE NW1/4 SW1/4 OF SECTION 26, T. 7S., R. 39E., W.M. THIS SURVEY WAS PERFORMED AT THE REQUEST OF THE OREGON DEPARTMENT OF TRANSPORTATION REGION 5 GEOLOGY SECTION. THIS SURVEY WAS PERFORMED BETWEEN THE MONTHS OF OCTOBER 2016 AND MAY 2017. THE SURVEY EQUIPMENT CONSISTED OF A LEICA GS14 GPS RECEIVER AND A LEICA SURVEY CONTROLLER.

TO DETERMINE THE LEASE BOUNDARY REQUIRED A BREAK DOWN OF SECTION 26. MONUMENTS AT THE SOUTHEAST CORNER AND EAST QUARTER CORNER OF SECTION 26 WERE NOT FOUND. THE NORTHEAST CORNER OF SECTION 25 WAS FOUND AND THE REFERENCE MONUMENT 20.00 FEET NORTH OF THE SOUTHEAST CORNER OF SECTION 36 WERE RECOVERED AND HELD TO RE-ESTABLISH THE SOUTHEAST CORNER OF SECTION 25 USING SURVEY NO. 7-40-3. THE OVERALL DISTANCE ERROR OF 1.5 FEET BETWEEN RECORD VERSUS RE-MEASURED DISTANCES BETWEEN THE NORTHEAST CORNER OF SECTION 25 AND THE REFERENCE MONUMENT 20.00 FEET NORTH OF THE NORTHEAST CORNER OF SECTION 36 WAS PROPORTIONED INTO THE MEASURED DISTANCES OF THE EAST LINE OF SECTION 25 AND THE EAST LINE OF SECTION 36 TO CALCULATE THE POSITION OF THE SOUTHEAST CORNER OF SECTION 25. THE SOUTHWEST CORNER OF SECTION 25 WAS ESTABLISHED BY DOUBLE PROPORTION BY HOLDING THE CALCULATED POSITION OF THE SOUTHEAST CORNER OF SECTION 25 AND THE MOUND OF STONE AT THE SOUTH QUARTER CORNER OF SECTION 26 IN THE EAST-WEST DIRECTION, AND THE 2-1/2" BRASS DISK AT THE NORTHEAST CORNER OF SECTION 26 AND THE MOUND OF STONES AT THE SOUTHWEST CORNER OF SECTION 36 IN THE NORTH-SOUTH DIRECTION.

THE RECORD LOCATION OF THE 40 FOOT HAUL ROAD WAS PLACED BY HOLDING 750 FEET ALONG THE QUARTER SECTION LINE FROM THE NORTHWEST CORNER OF THE SOUTHWEST QUARTER OF SECTION 26 AND ROTATING TO HOLD 770 FEET ALONG THE WEST LINE OF SECTION 26 FROM SAID NORTHWEST CORNER OF THE SOUTHWEST QUARTER OF SECTION 26 AS SHOWN IN THE AMENDMENT TO PERMIT BLM DECISION OREGON 06592. THE RECORD SHAPE OF THE PERMITTED HAUL ROAD DOES NOT FOLLOW THE EXISTING ACCESS ROAD AS-TRAVELED IN SOME LOCATIONS AS SHOWN. THERE APPEARS TO BE A MATHEMATICAL ERROR IN RECORD BEARING OF ONE OF SEGMENTS SHOWN FOR THE PERMITTED HAUL ROAD DESIGNATED ON THIS PLAT AS "L2". THE BEARING OF THE LINE SHOULD RUN SOUTHEAST, NOT NORTHEAST, AND THE ANGLE OF THE LINE APPEARS TO BE INCORRECT AS WELL WHEN COMPARED TO THE BEARINGS OF THE OTHER LINES ALONG THE CENTER OF THE HAUL ROAD.

CONTROL NARRATIVE

PRIMARY CONTROL WAS ESTABLISHED ON THIS PROJECT BY USING GPS AND THE OREGON REALTIME GPS NETWORK (ORGN) TO ESTABLISH POSITIONS ON THE FOUND MONUMENTS SHOWN ON THIS SURVEY. THE HORIZONTAL DATUM USED ON THIS SURVEY IS THE OREGON COORDINATE REFERENCE SYSTEM (OCRS) BAKER ZONE, NAD 83(2011) EPOCH 2010.

THE BASIS OF BEARING FOR THIS SURVEY IS BASED UPON GPS OBSERVATIONS BETWEEN POINTS 1000 AND 1004 WHICH RESULTED IN A BEARING AND DISTANCE OF S0°17'13"E, 5285.73'.

LINE TABLE

L1	N71°04'45"E, 485.51' (N66°28'00"E, 485.51')(R4)(R10)
L2	*S40°45'05"E, 896.65' (N45°21'50"E, 896.65')(R4)(R10)
L3	S49°52'15"E, 321.20' (S54°29'00"E, 321.20')(R4)(R10)
L4	S64°07'05"E, 268.10' (S68°43'50"E, 268.10')(R4)(R10)
L5	S89°52'35"E, 227.15' (N85°30'40"E, 227.15')(R4)(R10)
L6	S74°25'45"E, 88.20' (S79°02'30"E, 88.20')(R4)(R10)
L7	S53°50'45"E, 138.63' (S58°27'30"E, 138.63')(R4)(R10)
L8	S07°08'45"E, 123.73' (S11°45'30"E, 123.73')(R4)(R10)
L9	S64°08'45"W, 361.04' (S59°32'00"W, 361.04')(R4)(R10)
L10	S63°49'45"E, 210.05' (S68°26'30"E, 210.05')(R4)(R10)

* BEARING SHOWN ON BLM PERMIT BELIEVED TO BE INCORRECT

REFERENCES

- R1. GLO CONTRACT NO. 104, SURVEYED BY THOMPSON & CHAPLIN, DATED APR. 16, 1864
- R2. ODOT DWG. IR-5-1231 BY THE OREGON STATE HIGHWAY DEPARTMENT, DATED DEC. 1958
- R3. ODOT DWG. IR-3-1256 BY THE OREGON STATE HIGHWAY DEPARTMENT, DATED JAN. 1960
- R4. ODOT DWG. IR-5-1532 BY THE OREGON STATE HIGHWAY DEPARTMENT, DATED NOV. 1961
- R5. COUNTY SURVEY 07-40-0002 BY JAMES D. HANLEY, FILED NOV. 25, 1968
- R6. COUNTY SURVEY 07-40-0003 BY JAMES D. HANLEY, FILED MAY 18, 1972
- R7. COUNTY SURVEY 07-39-0006 BY JAMES D. HANLEY, FILED MARCH 1976
- R8. COUNTY SURVEY 07-39-0028 BY JAMES D. HANLEY, FILED APRIL 9, 2013
- R9. COUNTY SURVEY 07-39-0070 BY JEFFREY S. HSU, FILED DEC. 10, 2013
- R10. AMENDMENT TO BLM DECISION OREGON 06592, FILED MAY 29, 1962 IN BOOK 172, PAGE 1057

RECOVERED MONUMENT LIST

PT ID	NORTHING	EASTING	DATE	DESCRIPTION & REFERENCE DOCUMENTS	FD = FOUND W/ = WITH SN = SURVEY NUMBER
1000	158205.21	110958.17	10/18/2016	FD 1" IRON PIPE W/ 2-1/2" BRASS CAP MARKED AS SHOWN, UP 0.25' IN MOUND OF STONE W/ "T" POST NEARBY, SN 7-39-28	
1001	158200.35	113577.54	10/18/2016	FD STONE MOUND WITH "T" POST NEARBY, REPLACED WITH 5/8"X30" IRON ROD WITH 3-1/4" ALUM. CAP MARKED AS SHOWN	
1002	158162.16	116273.61	10/18/2016	FD 1" IRON PIPE W/ 2-1/2" BRASS CAP MARKED AS SHOWN, UP 0.5', IN MOUND OF STONE W/ "T" POST NEARBY, NO RECORD	
1003	158229.97	121580.81	3/20/2017	FD 2-1/2" BRASS CAP MARKED "S24,S19,S25,S30", DOWN 2' IN FARMERS FIELD, SN 7-40-3	
1004	152919.54	110984.64	10/18/2016	FD 1" IRON PIPE W/ 2" ALUMINUM CAP MARKED AS SHOWN, UP 0.8', IN MOUND OF STONE W/ "T" POST NEARBY, SN 7-39-6	
1005	152894.05	113586.33	10/25/2016	FD STONE MOUND W/ "T" POST NEARBY W/ TAG MARKED "T7S R39E 1/4 COR 26/35, 8-20-99, LS2500", REPLACED WITH 5/8"X30" IRON ROD WITH 3-1/4" ALUM. CAP MARKED AS SHOWN	
1006	147693.52	116281.64	3/20/2017	FD STONE MOUND W/ REMNANTS OF OLD LATHE, REPLACED WITH 5/8"X30" IRON ROD WITH 3-1/4" ALUM. CAP MARKED AS SHOWN	
1007	147663.28	121531.82	10/25/2016	FD 1" IRON PIPE W/ 2-1/4" ALUM. CAP MARKED AS SHOWN, IN MOUND OF STONE, REFERENCE MONUMENT SN 7-40-2	
1008	15552.44	110971.22	05/09/2017	FD 2" ALUMINUM CAP MARKED AS SHOWN, NO REFERENCE FOUND	
2000	152975.86	121556.96	N/A	CALCULATED POINT - NOTHING FOUND OR SET	
2001	147643.28	121531.73	N/A	CALCULATED POINT - NOTHING FOUND OR SET	

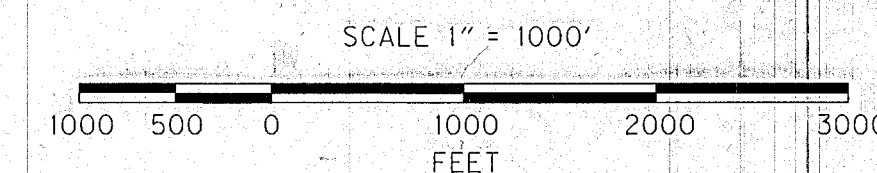
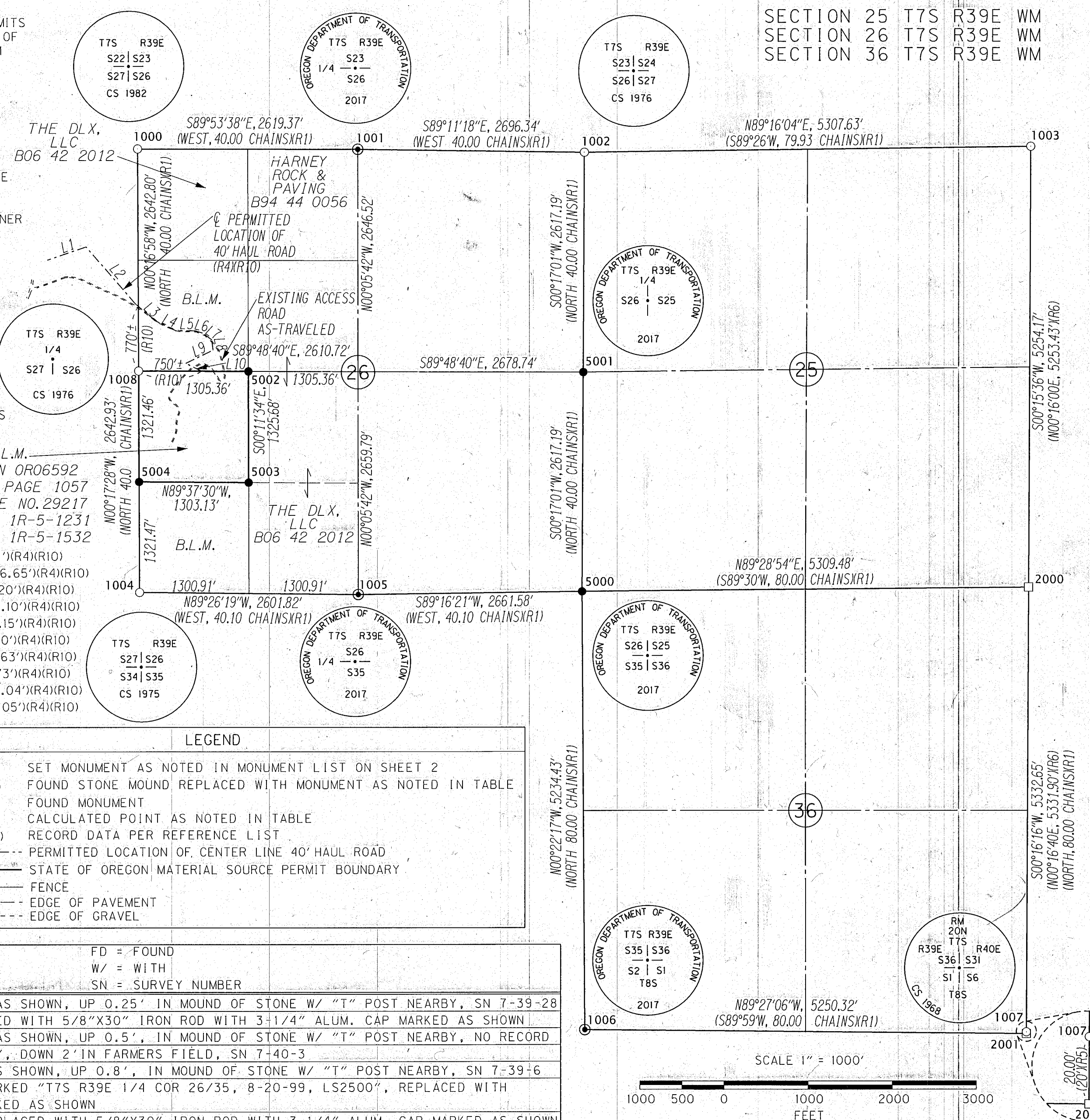
SET MONUMENT LIST

PT. NO.	NORTHING	EASTING	DATE	DESCRIPTION
5000	152927.84	116247.70	5/2/2017	SET 5/8"X30" IRON ROD WITH 3-1/4" ALUMINUM CAP, MARKED AS SHOWN
5001	155545.00	116260.66	5/3/2017	SET 5/8"X30" IRON ROD WITH 3-1/4" ALUMINUM CAP, MARKED AS SHOWN
5002	155558.14	112276.57	5/8/2017	SET 5/8"X30" IRON ROD WITH 1-1/2" ALUMINUM CAP, MARKED "ODOT W/16 C-C S26 2017"
5003	154232.46	112281.03	5/8/2017	SET 5/8"X30" IRON ROD WITH 1-1/2" ALUMINUM CAP, MARKED "ODOT SW1/16 S26 2017"
5004	154240.99	110977.93	5/8/2017	SET 5/8"X30" IRON ROD WITH 1-1/2" ALUMINUM CAP, MARKED "ODOT S1/16 S27 S26 2017"

LEGEND

- SET MONUMENT AS NOTED IN MONUMENT LIST ON SHEET 2
- FOUND STONE MOUND REPLACED WITH MONUMENT AS NOTED IN TABLE
- FOUND MONUMENT
- CALCULATED POINT AS NOTED IN TABLE
- () RECORD DATA PER REFERENCE LIST
- PERMITTED LOCATION OF CENTER LINE 40' HAUL ROAD
- STATE OF OREGON MATERIAL SOURCE PERMIT BOUNDARY
- x- FENCE
- - - EDGE OF PAVEMENT
- - - - EDGE OF GRAVEL

SECTION 25 T7S R39E WM
SECTION 26 T7S R39E WM
SECTION 36 T7S R39E WM



REGISTERED PROFESSIONAL LAND SURVEYOR
Bret N. Elithorp
OREGON JANUARY 14, 2003
BRET N. ELITHORP 63148
EXPIRES: DEC. 31, 2017

OREGON DEPARTMENT OF TRANSPORTATION
BOUNDARY SURVEY
COYOTE POINT QUARRY
COYOTE PEAK ROAD (COUNTY ROAD NO. 688)
BAKER COUNTY
FOR ODOT REGION 5
3012 ISLAND AVENUE
LA GRANDE, OR 97850
MAY 19, 2017
1"=1000'
SHEET 1 OF 1