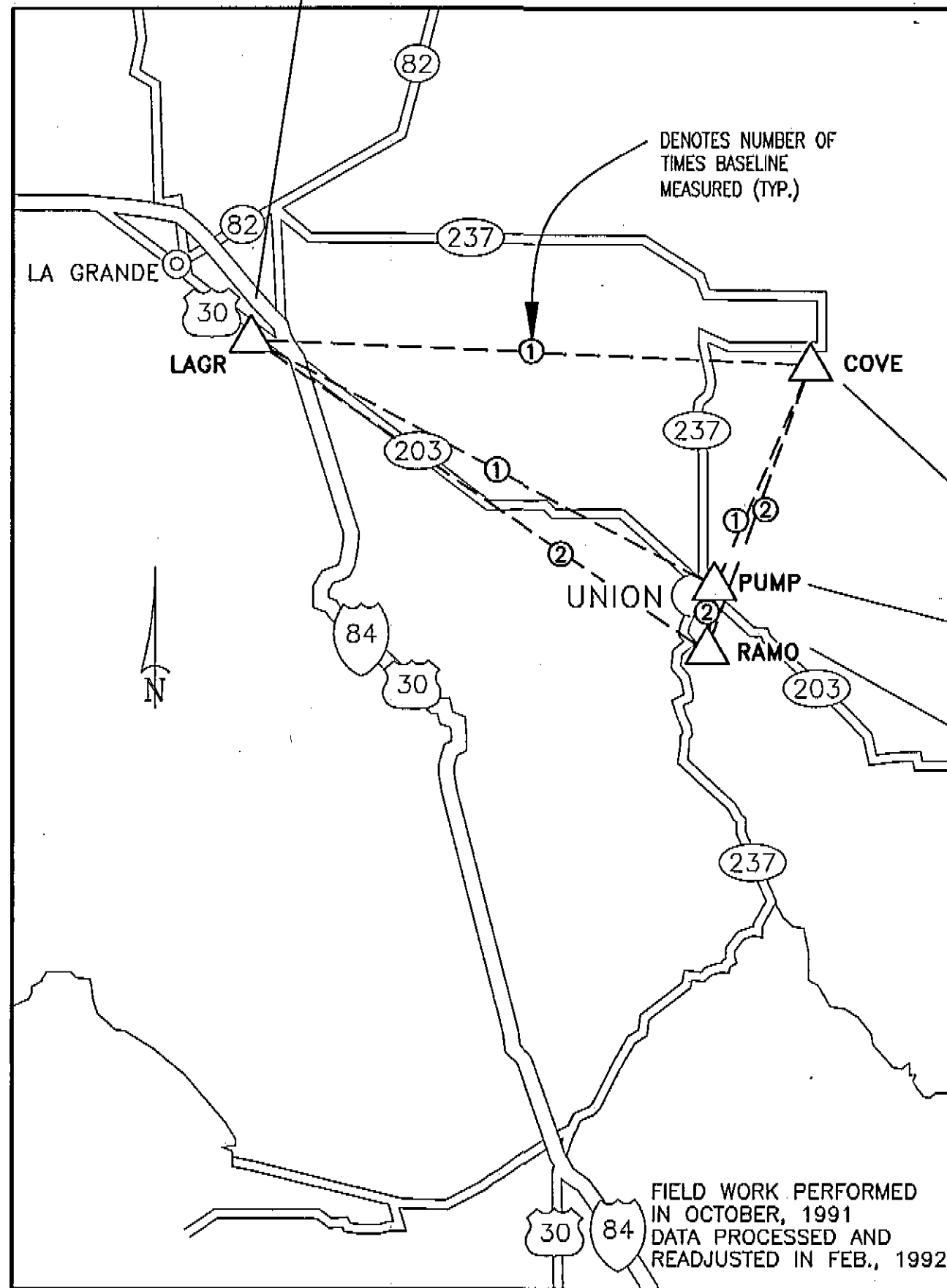
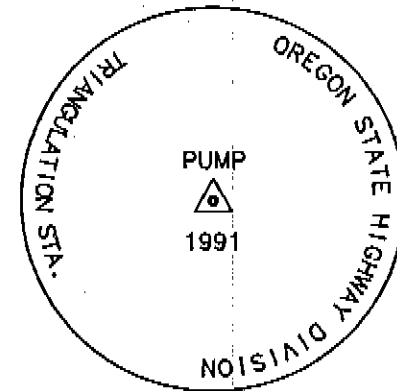


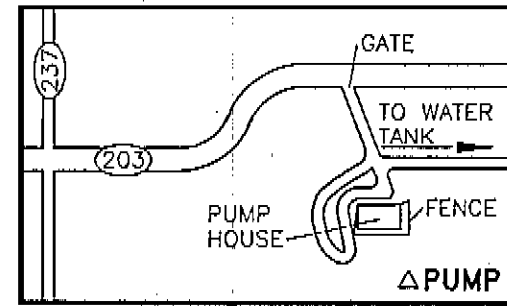
STA. "LA GRANDE CBL O PT"
 LAT.= 45-18-39.41551 N } 1983(91)
 LONG.=118-03-52.35917 W }



ODOT GPS NETWORK



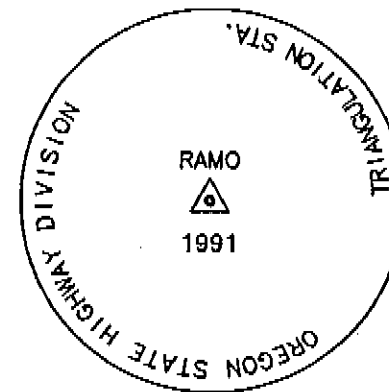
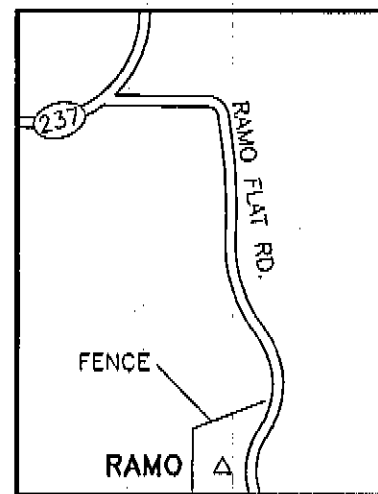
TO REACH STATION PUMP: TRAVEL E. ON HWY. NO. 203 FROM HWY. NO. 237. STATION MONUMENT IS BEHIND PUMP HOUSE ON RIGHT SIDE OF ROAD, DOWN HILL FROM WATER TOWER. MONUMENT IS 29.7' FROM S.E. COR. OF FENCE & 53.4' FROM S.W. CORNER OF FENCE. MONUMENT IS A 3" BRASS CAP SET IN ROCK AT GROUND LEVEL.



STA. "COVE"
 LAT.= 45-17-48.36391 N. } 1983(91)
 LONG.= 117-49-12.11042 W. }

STA. "PUMP"
 LAT.= 45-12-29.40025 N. } 1983(91) FROM FEB., 1992 ADJUSTMENT
 LONG.= 117-51-24.93494 W. }

STA. "RAMO"
 LAT.= 45-11-18.40198 N. } 1983(91) FROM FEB., 1992 ADJUSTMENT
 LONG.= 117-51-40.50078 W. }



INDEX	DESCRIPTION
SHEET NO. 1	ODOT GPS NETWORK / NARRATIVE
SHEET NO. 2	OTAK CONTROL NETWORK DIAGRAM, SHEET LAYOUT
SHEET NO. 3	CONTROL PTS. 15 & 16 / STA. 690+00 BOP - STA. 696
SHEET NO. 4	CONTROL PTS. 14 & 15 / STA. 695 - STA. 704
SHEET NO. 5	CONTROL PTS. 13 & 14 / STA. 701 - STA. 710
SHEET NO. 6	CONTROL PT. 12 / STA. 709 - STA. 717
SHEET NO. 7	CONTROL PT. 11 / STA. 717 - STA. 726
SHEET NO. 8	CONTROL PTS. 9 & 10 / STA. 725 - STA. 734
SHEET NO. 9	CONTROL PT. 8 / STA. 734 - STA. 742
SHEET NO.10	CONTROL PT. 7 / STA. 742 - STA. 750
SHEET NO.11	CONTROL PT. 6 / STA. 750 - STA. 758
SHEET NO.12	CONTROL PT. 5 / STA. 758 - STA. 766
SHEET NO.13	CONTROL PT. 4 / STA. 766 - STA. 774
SHEET NO.14	CONTROL PT. 3 / STA. 774 - STA. 782
SHEET NO.15	CONTROL PTS. 1 & 2 / STA. 780 - STA. 789+9.27 EOP

TO REACH STATION RAMO: FROM THE INTERSECTION OF HWY. NO. 237 AND RAMO FLAT RD. PROCEED DOWN RAMO FLAT RD. 0.58 MILES. STATION MONUMENT IS 12.4' FROM FENCE COR. POST, 6.4' E. OF FENCE, 18.9' W. OF C/L OF GRAVEL RD., 2.8' S. OF BROKEN OFF CARSONITE POST. MONUMENT IS A 3" BRASS CAP SET IN CONCRETE.

NARRATIVE

PURPOSE OF SURVEY:

THE PURPOSE OF THIS SURVEY WAS TO ESTABLISH A HORIZONTAL CONTROL NETWORK IN ACCORDANCE WITH ORS 209.155(2)(b) SO THAT THE LOCATED LINE AND NEW RIGHT OF WAY OF THE UNION SECTION OF THE LAGRANDE-BAKER HIGHWAY AS SHOWN ON OREGON STATE HIGHWAY DEPARTMENT DRAWING NO. 10B-3-25 MAY BE DELINEATED.

BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE LINE BETWEEN CONTROL POINTS "PUMP" AND "RAMO" (S.06°54'14"W.) AS SHOWN ON OREGON STATE HIGHWAY DEPARTMENT DRAWING NO. 10B-3-25 AND SURVEY NO. 012-1992, UNION COUNTY SURVEY RECORDS.

ABOUT THE ORIGINAL 1991 ODOT PRECONSTRUCTION CONTROL NETWORK AND MONUMENT TIES:

THE ORIGINAL PRIMARY CONTROL NETWORK SURVEYING TO ESTABLISH THE NAD 83(91) COORDINATE VALUES OF STATIONS "PUMP" AND "RAMO" WAS PERFORMED IN OCTOBER, 1991 USING ASYTECH GPS RECEIVERS AND IS AS SHOWN ON SHEET 1 OF THIS SURVEY. THE DATA WAS PROCESSED AND ADJUSTED ON OCTOBER 30, 1991 AND THE RESULTING BEARINGS AND LOCAL DATUM PLANE COORDINATES SHOWN ON DRAWING NO. 10B-3-25 AND SURVEY NO. 012-1992, AND IN THE DOCUMENTS ACQUIRING RIGHT OF WAY AND PERMANENT AND TEMPORARY EASEMENTS ARE THE RESULT OF THIS ADJUSTMENT. LOCAL TERRESTRIAL CONTROL WAS RUN AND EXISTING MONUMENTATION RECOVERED AND TIED DURING THE PERIOD OF SEPTEMBER - DECEMBER, 1991. THIS DATA WAS ADJUSTED AND CONSTRAINED TO THE OCTOBER, 1991 VALUES OF STATIONS "PUMP" AND "RAMO". SURVEY NO. 012-1992, UNION COUNTY SURVEY RECORDS, WAS FILED AS A RECORD OF THE PRECONSTRUCTION SURVEY WORK.

IN FEBRUARY, 1992 IT WAS DISCOVERED THAT AN INCORRECT LATITUDE VALUE HAD BEEN USED FOR HARN STATION "COVE" DURING THE OCTOBER, 1991 ADJUSTMENT OF THE PRIMARY CONTROL NETWORK. ON FEBRUARY 22, 1992 A READJUSTMENT OF THE NETWORK WAS PERFORMED AND REVISED NAD 83(91) COORDINATES FOR STATIONS "PUMP" AND "RAMO" GENERATED. THE REVISIONS TO THE COORDINATES ARE NOT REFLECTED ON DRAWING NO. 10B-3-25, NOR IN SURVEY NO. 012-1992. A SPECIAL NOTE HAS BEEN ADDED TO DRAWING NO. 10B-3-25 WHICH DISCUSSES THE ERROR AND DIRECTS USERS TO CONSIDER THE COORDINATE SYSTEM AS LOCAL.

THE COORDINATES OF THE RECOVERED MONUMENTS SHOWN ON THIS SURVEY WERE TAKEN FROM DRAWING NO. 10B-3-25, UNLESS OTHERWISE INDICATED. THE MONUMENTS WERE "DOUBLE-TIED" FROM THE ODOT CONTROL NETWORK AND THE DESCRIPTIONS SHOWN ARE EXACTLY AS RECORDED IN THE ORIGINAL FIELD NOTES. CERTAIN MONUMENTS WERE SEARCHED FOR BY ODOT CREWS AND NOT FOUND, OR RECOVERED AND NOT TIED. FOR REFERENCE PURPOSES, THAT INFORMATION IS ALSO SHOWN ON THIS SURVEY.

ABOUT THE 1998 CONTROL NETWORK:

THE CONTROL NETWORK RUN FOR THIS SURVEY CONSISTS OF A COMBINATION OF GPS AND TERRESTRIAL MEASUREMENTS AND IS AS SHOWN ON SHEET 2 OF THIS SURVEY. ON AUGUST 4, 1998, STATIC GPS BASELINES FROM BOTH STATIONS "PUMP" AND "RAMO" WERE MEASURED TO CONTROL POINTS 1, 2, 8, 15 AND 16, AND BETWEEN POINTS 1 AND 8, 8 AND 16, AND 16 AND 1 USING LEICA 300 SERIES RECEIVERS. TERRESTRIAL MEASUREMENTS WERE MADE ON AUGUST 5-6, 1998 BETWEEN CONTROL POINTS 1-2, 2-3, 3-4, . . . , 15-16 USING A GEODIMETER 610 SERVO-DRIVEN TOTAL STATION. THE GPS BASELINES WERE PROCESSED USING LEICA SKI SOFTWARE AND A SIMULTANEOUS ADJUSTMENT OF THE GPS AND TERRESTRIAL DATA WAS PERFORMED USING STAR*NET LEAST SQUARES SOFTWARE. THE ADJUSTMENT WAS CONSTRAINED TO THE FEBRUARY, 1992 ADJUSTMENT VALUES OF STATIONS "PUMP" AND "RAMO". THE NAD 83(91) LATITUDE AND LONGITUDE VALUES AND OREGON STATE PLANE OF 1983, NORTH ZONE COORDINATE VALUES SHOWN ARE FROM THIS ADJUSTMENT.

TO CONVERT THE NAD 83(91) COORDINATES TO THE LOCAL SYSTEM OF DRAWING 10B-3-25, THE NETWORK WAS TRANSLATED, ROTATED AND SCALED TO MATCH THE DRAWING NO. 10B-3-25 LOCAL COORDINATES OF STATIONS "PUMP" AND "RAMO". IN ORDER TO VERIFY THE RELATIONSHIP BETWEEN THIS AND THE 1991 ODOT SURVEY WORK, THE LOCAL COORDINATE VALUES OF THE SOUTHWEST CORNER OF SECTION 19, T.4S., R.40E. AS MEASURED IN BOTH SURVEYS WERE COMPARED AND FOUND TO ACCEPTABLY CORRELATE.

ABOUT DRAWING NO. 10B-3-25 AND SURVEY NO. 012-1992:

THERE ARE CERTAIN DISCREPANCIES BETWEEN DATA SHOWN ON DRAWING NO. 10B-3-25 AND SURVEY NO. 012-1992. POINT NO. 1000 (SEE SHTS. 4 & 5) SHOWS AN EASTING VALUE OF 8882946.84 IN DWG. 10B-3-25, AND AN EASTING VALUE OF 8882946.48 IN SURVEY NO. 012-1992. BASED ON THE DISTANCE BETWEEN POINT NOS. 1002 AND 1000 SHOWN ON SURVEY NO. 83-71 (77.34'), THE EASTING AS SHOWN ON DWG. 10B-3-25 IS PROBABLY THE CORRECT VALUE. POINT NO. 1022 (SEE SHT. 10) SHOWS AN EASTING VALUE OF 8883068.19 IN DWG. 10B-3-25 AND AN EASTING VALUE OF 8883068.92 IN SURVEY NO. 012-1992. ODOT HAS DETERMINED THAT THE CORRECT COORDINATE IS AS SHOWN IN SURVEY NO. 012-1992.

8/1998
 Field Date
 JAC 9/1998
 Calculations
 MEM 10/1998
 Drawn
 JAC 10/1998
 Checked By Date

REGISTERED
 PROFESSIONAL
 LAND SURVEYOR

John A. Carlson
 OREGON
 JULY 15, 1983
 JOHN A. CARLSON
 2044
 RENEWS 12-31-1999

CONTROL NETWORK SURVEY
 LA GRANDE -- BAKER HIGHWAY, UNION SECTION
 IN SECTIONS 18, 19 AND 30, T.4S., R.40E., W.M.
 UNION COUNTY, OREGON

UNION COUNTY
 SURVEYOR
 Date Received: 12/22/98
 Date Filed: 12/22/98
 By: R. ROBINSON, DEPT
 File No. 054-1998

otak
 Incorporated
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 Project No.
 5356S001
 File No.
 1 OF 15
 Sheet No.

FOR: OREGON DEPARTMENT OF TRANSPORTATION REGION 5

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LAND SURVEYOR

J.A.C.L.
OREGON
JULY 16, 1983
JOHN A. CARLSON
2044

RENEWS 12-31-1999

CONTROL NETWORK SURVEY

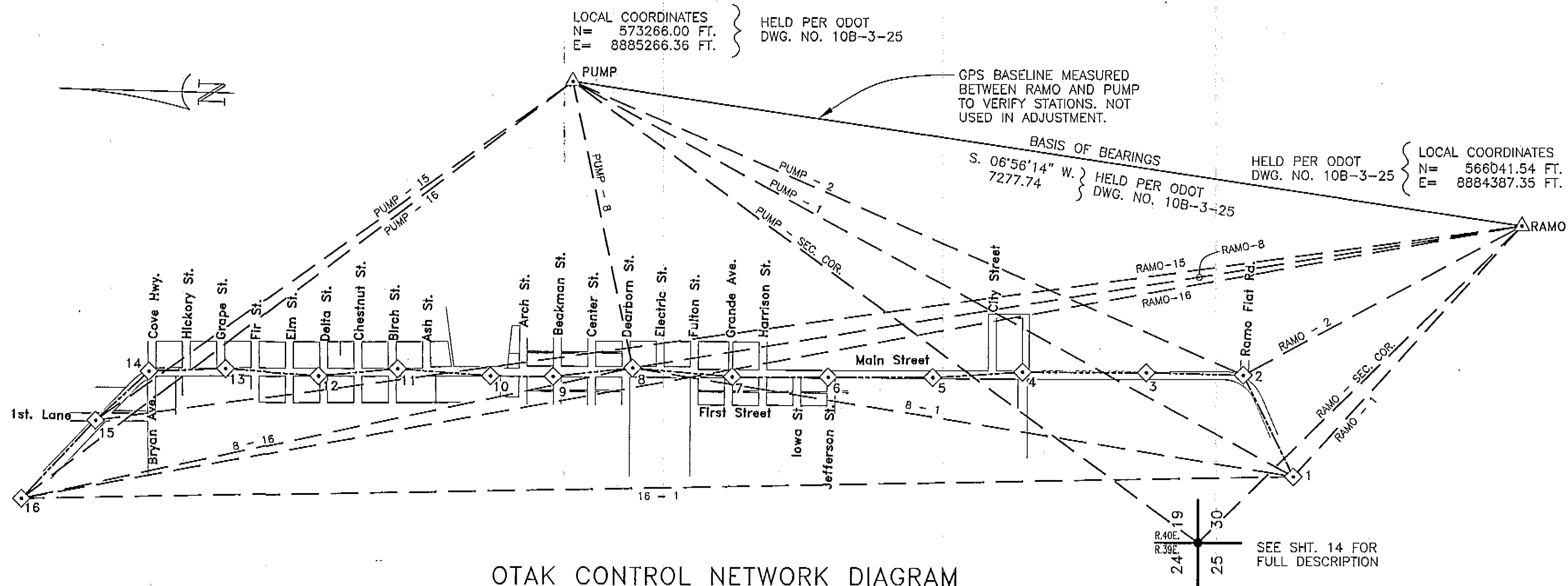
LA GRANDE -- BAKER HIGHWAY, UNION SECTION
IN SECTIONS 18, 19 AND 30, T.4S., R.40E., W.M.
UNION COUNTY, OREGON

FOR: OREGON DEPARTMENT OF TRANSPORTATION REGION 5



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Project No.
S356S002
File No.
2 OF 15
Sheet No.

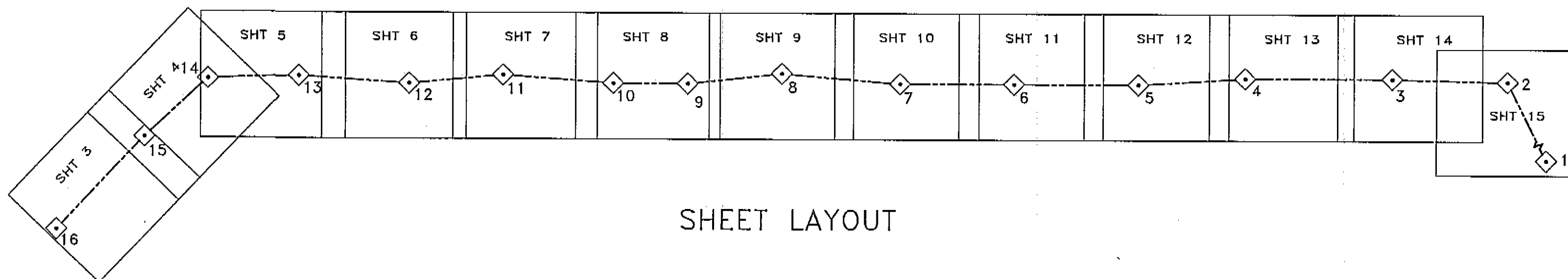


OTAK CONTROL NETWORK DIAGRAM

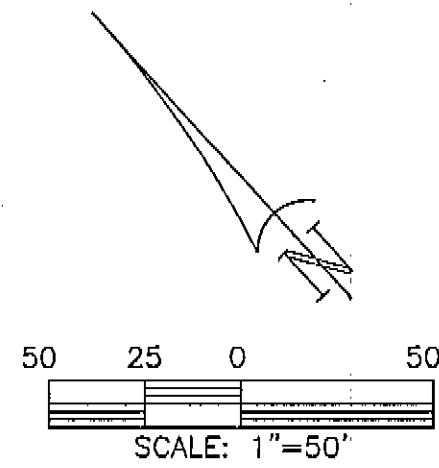
CONTROL POINT NUMBER	LOCAL COORDINATES		BEARING	DISTANCE FT.
	NORTHING FT.	EASTING FT.		
1	567711.782	8882435.206	N 62°02'17.67" E	857.251
2	568113.731	8883192.383	N 00°14'23.40" W	735.102
3	568848.827	8883189.306	N 01°31'48.76" W	937.987
4	569786.479	8883164.257	N 05°01'19.25" W	683.117
5	570466.974	8883104.458	N 01°30'11.69" W	794.386
6	571261.087	8883083.619	N 01°31'16.75" W	729.814
7	571990.643	8883084.243	N 03°17'52.29" E	759.048
8	572748.434	8883107.909	N 07°42'06.27" W	605.928
9	573348.895	8883026.704	N 01°16'44.20" W	475.373
10	573824.150	8883016.094	N 02°37'41.37" E	705.713
11	574529.121	8883048.454	N 06°48'33.42" W	602.332
12	575127.204	8882977.038	N 02°17'51.82" E	705.956
13	575832.592	8883005.342	N 03°29'08.99" W	579.818
14	576411.338	8882970.088	N 44°31'04.16" W	551.246
15	576804.394	8882583.592	N 48°05'23.33" W	814.169
16	577348.231	8881977.693		

LEGEND

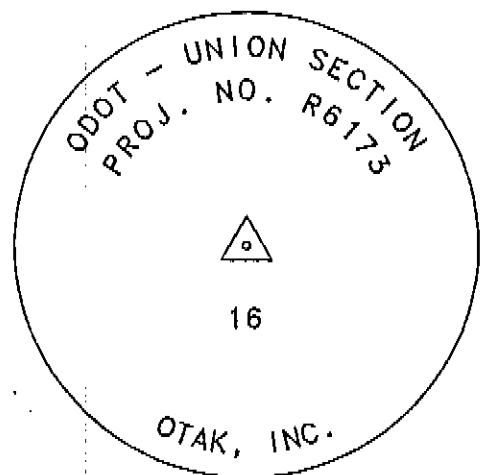
- ◊ - DENOTES 2" ALUMINUM CAP SET AS CONTROL POINT FOR THIS SURVEY.
- △ - DENOTES 2" BRASS CAP FOUND AND USED AS CONTROL POINT FOR THIS SURVEY.
- - DENOTES GPS BASELINE MEASURED AND USED IN NETWORK ADJUSTMENT.
- — — - DENOTES TERRESTRIAL BASELINE MEASURED AND USED IN NETWORK ADJUSTMENT.



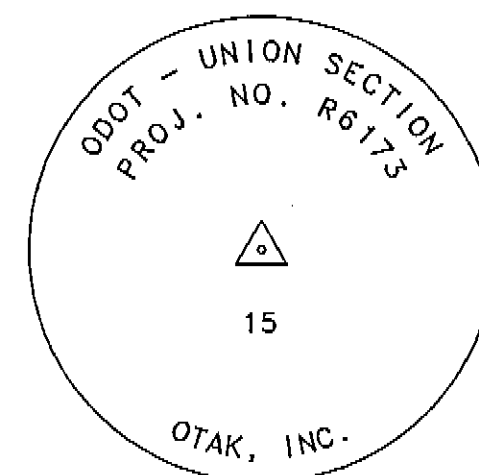
SHEET LAYOUT



CONTROL POINT NO. 16	
LOCAL COORDINATE	
N =	577348.231 FT.
E =	8881977.693 FT.
LAT. =	45-13-10.738688 N.
LONG. =	117-52-08.981021 W.
OREGON COORDINATE SYSTEM OF 1983	
N =	175933.405 m.
E =	2706581.002 m.
SET 5/8" X 30" IRON ROD w/ 2" ALUMINUM CAP IN A.C. IN HWY. 203, ±125' SE'LY. OF C/L OF LITTLE CREEK BRIDGE, 4' FROM SE'LY. END OF GUARDRAIL, AT SMALL TURNOUT, 7' N'LY. OF FOGLINE	



CONTROL POINT NO. 15	
LOCAL COORDINATE	
N =	576804.394 FT.
E =	8882583.592 FT.
LAT. =	45-13-05.177843 N.
LONG. =	117-52-00.769860 W.
OREGON COORDINATE SYSTEM OF 1983	
N =	175767.679 m.
E =	2706765.633 m.
SET 5/8" X 30" IRON ROD w/ 2" ALUM. CAP IN A.C. AT N.E. COR. OF 1ST ST. & MAIN ST., 2' SW'LY. OF 1ST ST. E.P., 17' SW'LY. OF STOP SIGN, 6.6' N'LY. OF MAIN ST. E.P.	



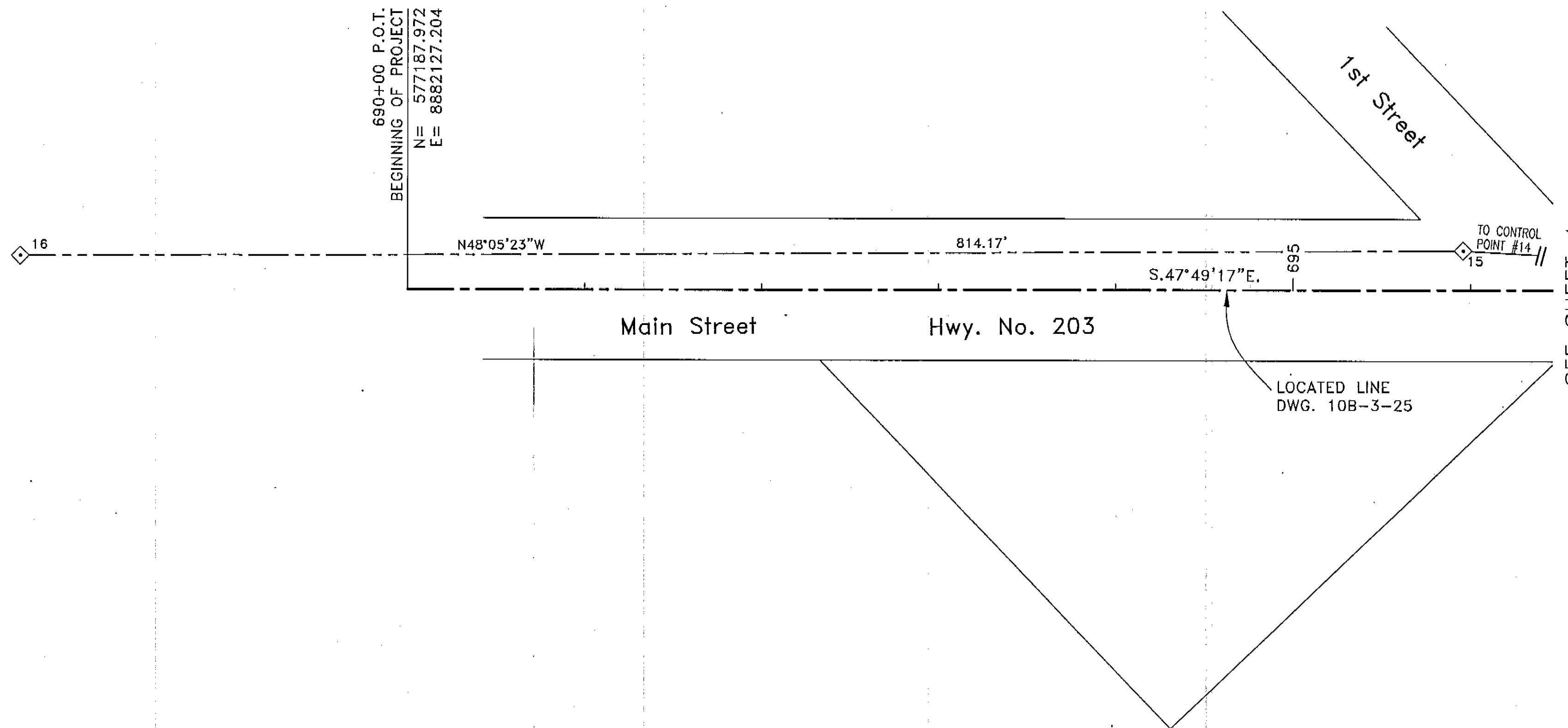
8/1998
 Field Date
 JAC 9/1998
 Calculations
 MEM 10/1998
 Drawn
 JAC 10/1998
 Checked By Date

REGISTERED
 PROFESSIONAL
 LAND SURVEYOR

John A. Carlson

OREGON
 JULY 16, 1983
 JOHN A. CARLSON
 2044

RENEWS 12-31-1999



CONTROL NETWORK SURVEY

LA GRANDE -- BAKER HIGHWAY, UNION SECTION
 IN SECTIONS 18, 19 AND 30, T.4S., R.40E., W.M.
 UNION COUNTY, OREGON

FOR: OREGON DEPARTMENT OF TRANSPORTATION REGION 5

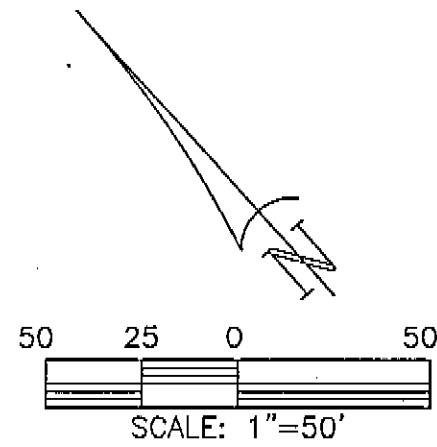


Incorporated
 17355 SW Boones Ferry Rd.
 Lake Oswego, Oregon 97035
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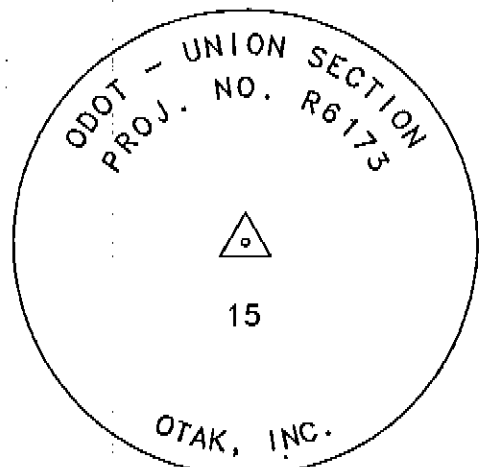
L9356.S01
 Project No.
 S356S003
 File No.

3 OF 15
 Sheet No.

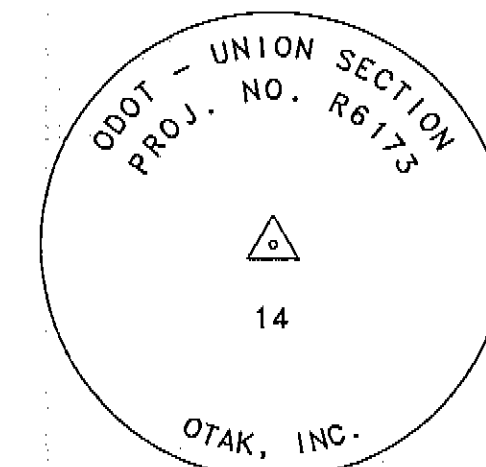
LEGEND
 ◊ - DENOTES 2" ALUMINUM CAP SET AS CONTROL POINT FOR THIS SURVEY.



CONTROL POINT NO. 15	
LOCAL COORDINATE	
N =	576804.394 FT.
E =	8862583.592 FT.
LAT. =	45-13-05.177843 N.
LONG. =	117-52-00.769860 W.
OREGON COORDINATE SYSTEM OF 1983	
N =	175767.679 m.
E =	2706765.633 m.
SET 5/8" X 30" IRON ROD w/ 2" ALUM. CAP IN A.C. AT N.E. COR. OF 1ST ST. & MAIN ST., 2' SW'LY. OF 1ST ST. E.P., 17' SW'LY. OF STOP SIGN, 6.6' N'LY. OF MAIN ST. E.P.	



CONTROL POINT NO. 14	
LOCAL COORDINATE	
N =	576411.338 FT.
E =	8882970.088 FT.
LAT. =	45-13-01.175212 N.
LONG. =	117-51-55.553313 W.
OREGON COORDINATE SYSTEM OF 1983	
N =	175647.902 m.
E =	2706883.407 m.
SET 2" ALUMINUM CAP IN CURB AT N.E. COR. OF BRYAN ST. & MAIN ST., 6.8' S.W. OF STOP SIGN, 18.6' N. OF M.H., 12' S. OF STONE COLUMN	



8/1998
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PROFESSIONAL
LAND SURVEYOR

John A. Carl

OREGON
JULY 15, 1983
JOHN A. CARLSON
2044

RENEWS 12-31-1999

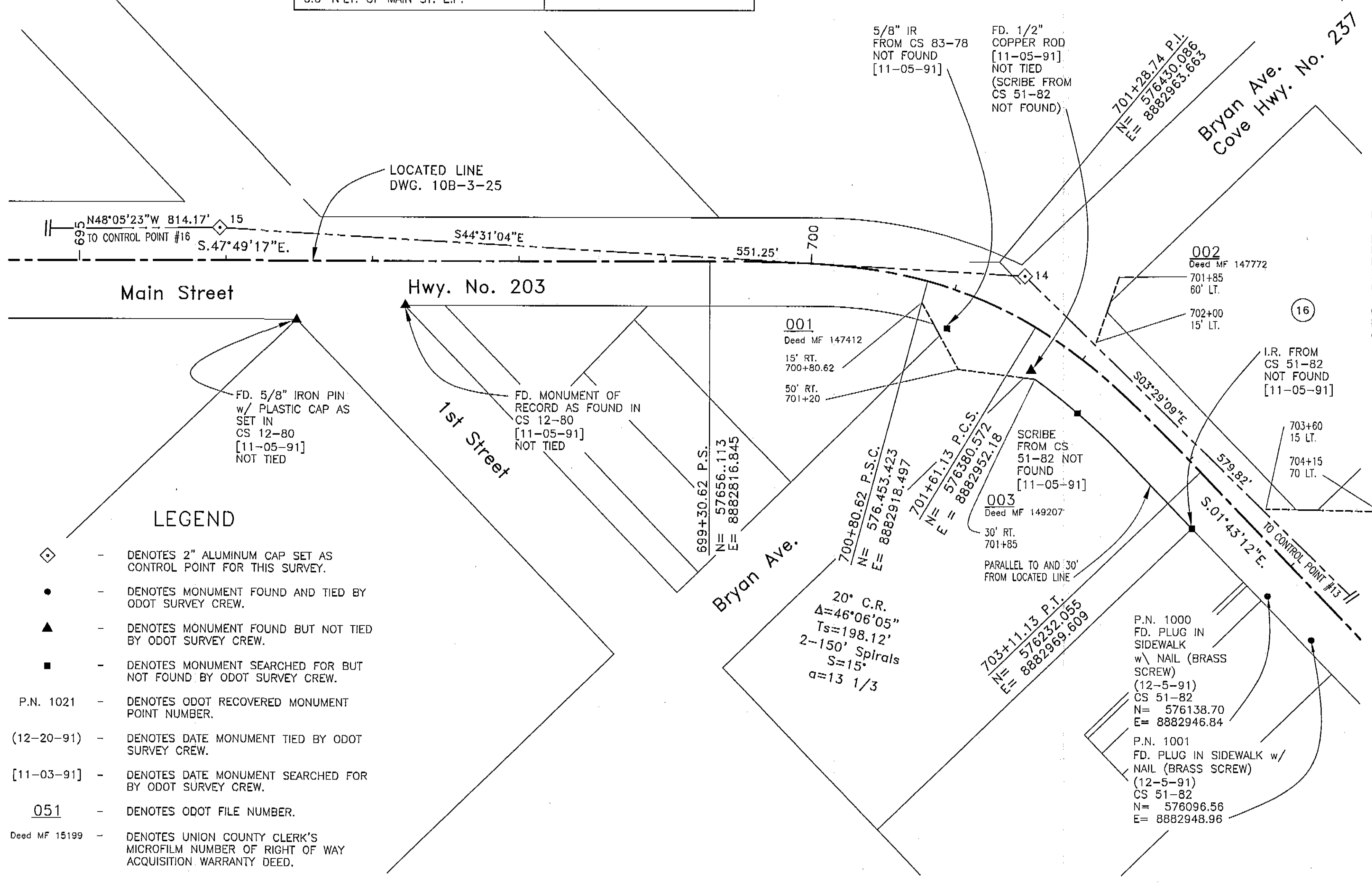
CONTROL NETWORK SURVEY

LA GRANDE -- BAKER HIGHWAY, UNION SECTION
IN SECTIONS 18, 19 AND 30, T.4S., R.40E., W.M.
UNION COUNTY, OREGON

FOR: OREGON DEPARTMENT OF TRANSPORTATION REGION 5

SEE SHEET 3

SEE SHEET 5



LEGEND

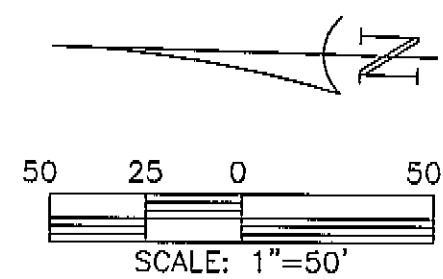
- ◇ - DENOTES 2" ALUMINUM CAP SET AS CONTROL POINT FOR THIS SURVEY.
- - DENOTES MONUMENT FOUND AND TIED BY ODOT SURVEY CREW.
- ▲ - DENOTES MONUMENT FOUND BUT NOT TIED BY ODOT SURVEY CREW.
- - DENOTES MONUMENT SEARCHED FOR BUT NOT FOUND BY ODOT SURVEY CREW.
- P.N. 1021 - DENOTES ODOT RECOVERED MONUMENT POINT NUMBER.
- (12-20-91) - DENOTES DATE MONUMENT TIED BY ODOT SURVEY CREW.
- [11-03-91] - DENOTES DATE MONUMENT SEARCHED FOR BY ODOT SURVEY CREW.
- 051 - DENOTES ODOT FILE NUMBER.
- Deed MF 15199 - DENOTES UNION COUNTY CLERK'S MICROFILM NUMBER OF RIGHT OF WAY ACQUISITION WARRANTY DEED.



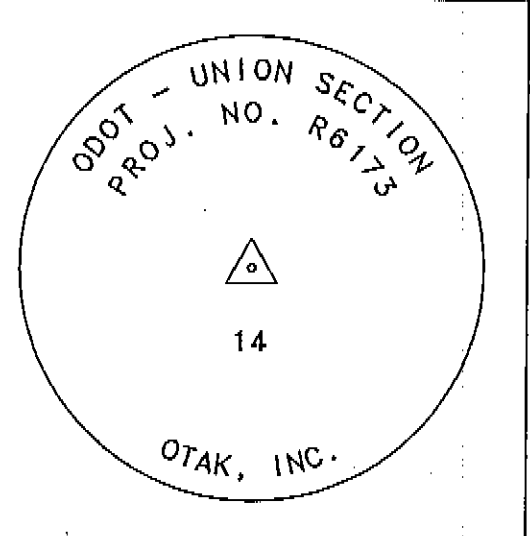
17355 SW Boones Ferry Rd.
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Phone: (503) 635-3618
FAX: (503) 635-5395

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Project No.
S356S004
File No.
4 OF 15
Sheet No.

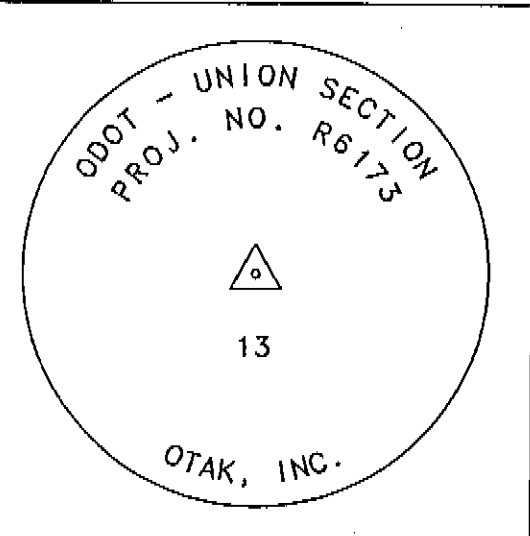
SWACKHAMER'S ADDITION



CONTROL POINT NO. 14	
LOCAL COORDINATE	
N =	576411.338 FT.
E =	8882970.088 FT.
LAT. =	45-13-01.175212 N.
LONG. =	117-51-55.553313 W.
OREGON COORDINATE SYSTEM OF 1983	
N =	175647.902 m.
E =	2706883.407 m.
SET 2" ALUMINUM CAP IN CURB AT N.E. COR. OF BRYAN ST. & MAIN ST. 6.8' S.W. OF STOP SIGN, 18.6 FT. N. OF M.H., 12 FT. S. OF STONE COLUMN	

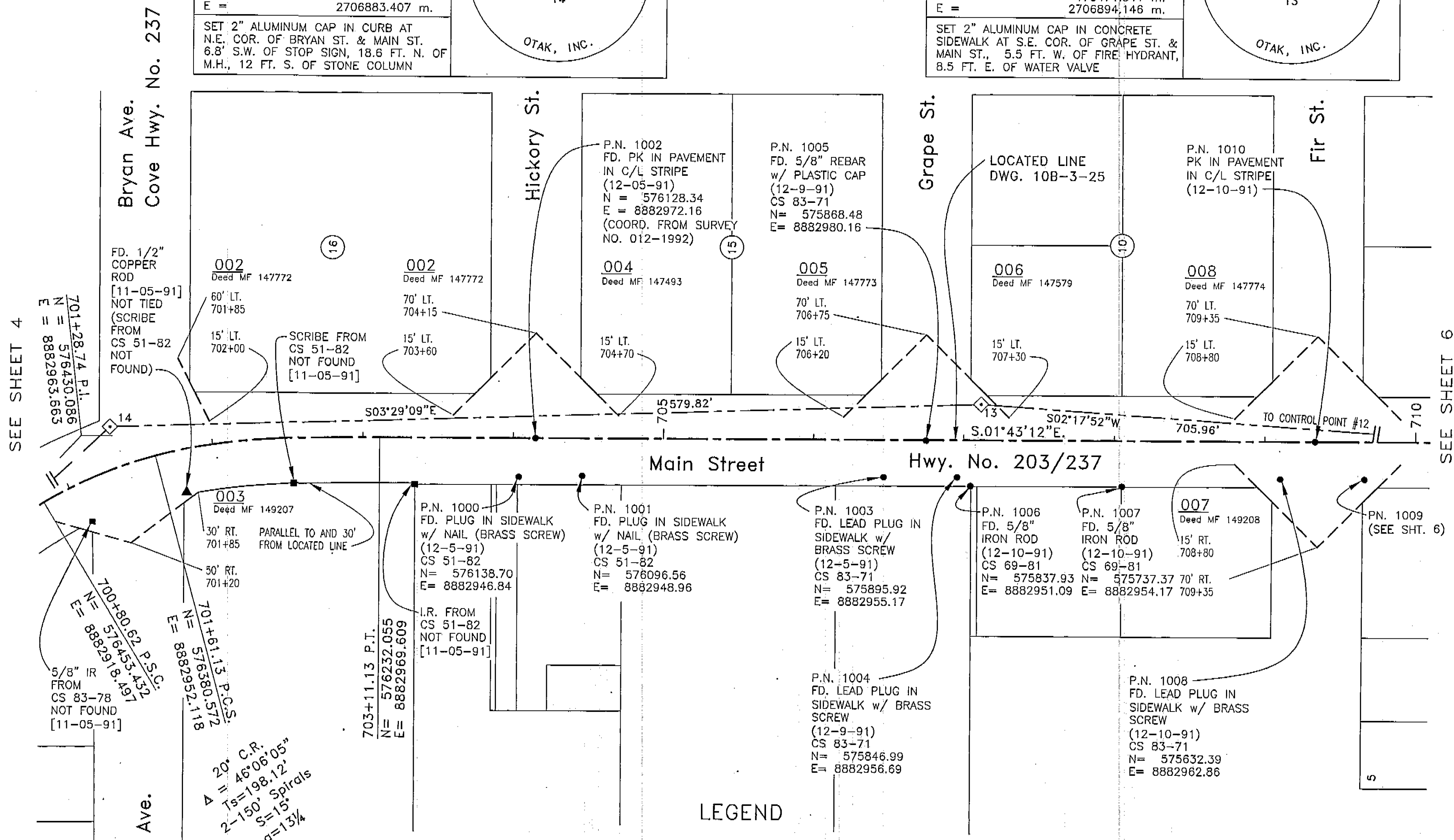


CONTROL POINT NO. 13	
LOCAL COORDINATE	
N =	575832.592 FT.
E =	8883005.342 FT.
LAT. =	45-12-55.453520 N.
LONG. =	117-51-55.324885 W.
OREGON COORDINATE SYSTEM OF 1983	
N =	175471.541 m.
E =	2706894.146 m.
SET 2" ALUMINUM CAP IN CONCRETE SIDEWALK AT S.E. COR. OF GRAPE ST. & MAIN ST., 5.5 FT. W. OF FIRE HYDRANT, 8.5 FT. E. OF WATER VALVE	



8/1998
 Field Date
 JAC 9/1998
 Calculations
 MEM 10/1998
 Drawn
 JAC 10/1998
 Checked By Date

REGISTERED PROFESSIONAL LAND SURVEYOR
John A. Carlson
 OREGON
 JULY 15, 1983
 JOHN A. CARLSON
 2044
 RENEWS 12-31-1999



LEGEND

- ◊ - DENOTES 2" ALUMINUM CAP SET AS CONTROL POINT FOR THIS SURVEY.
- - DENOTES MONUMENT FOUND AND TIED BY ODOT SURVEY CREW.
- ▲ - DENOTES MONUMENT FOUND BUT NOT TIED BY ODOT SURVEY CREW.
- - DENOTES MONUMENT SEARCHED FOR BUT NOT FOUND BY ODOT SURVEY CREW.
- P.N. 1021 - DENOTES ODOT RECOVERED MONUMENT POINT NUMBER.
- (12-20-91) - DENOTES DATE MONUMENT TIED BY ODOT SURVEY CREW.
- [11-03-91] - DENOTES DATE MONUMENT SEARCHED FOR BY ODOT SURVEY CREW.
- 051 - DENOTES ODOT FILE NUMBER.
- Deed MF 15199 - DENOTES UNION COUNTY CLERK'S MICROFILM NUMBER OF RIGHT OF WAY ACQUISITION WARRANTY DEED.

CONTROL NETWORK SURVEY
 LA GRANDE -- BAKER HIGHWAY, UNION SECTION
 IN SECTIONS 18, 19 AND 30, T.4S., R.40E., W.M.
 UNION COUNTY, OREGON

FOR: OREGON DEPARTMENT OF TRANSPORTATION REGION 5



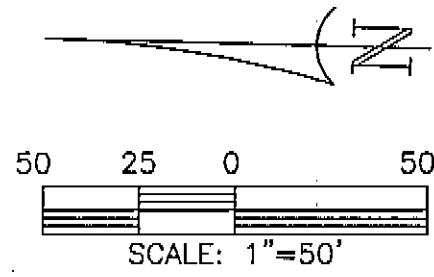
17355 SW Boones Ferry Rd.
 Lake Oswego, Oregon 97035
 Phone: (503) 635-3618
 FAX: (503) 635-5395

LEWIS ADDITION

L9356.S01
 Project No.
 S356S005
 File No.
5 OF 15
 Sheet No.

LEGEND

- ◊ - DENOTES 2" ALUMINUM CAP SET AS CONTROL POINT FOR THIS SURVEY.
- - DENOTES MONUMENT FOUND AND TIED BY ODOT SURVEY CREW.
- ▲ - DENOTES MONUMENT FOUND BUT NOT TIED BY ODOT SURVEY CREW.
- - DENOTES MONUMENT SEARCHED FOR BUT NOT FOUND BY ODOT SURVEY CREW.
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- 051 - DENOTES ODOT FILE NUMBER.
- Deed MF 15199 - DENOTES UNION COUNTY CLERK'S MICROFILM NUMBER OF RIGHT OF WAY ACQUISITION WARRANTY DEED.

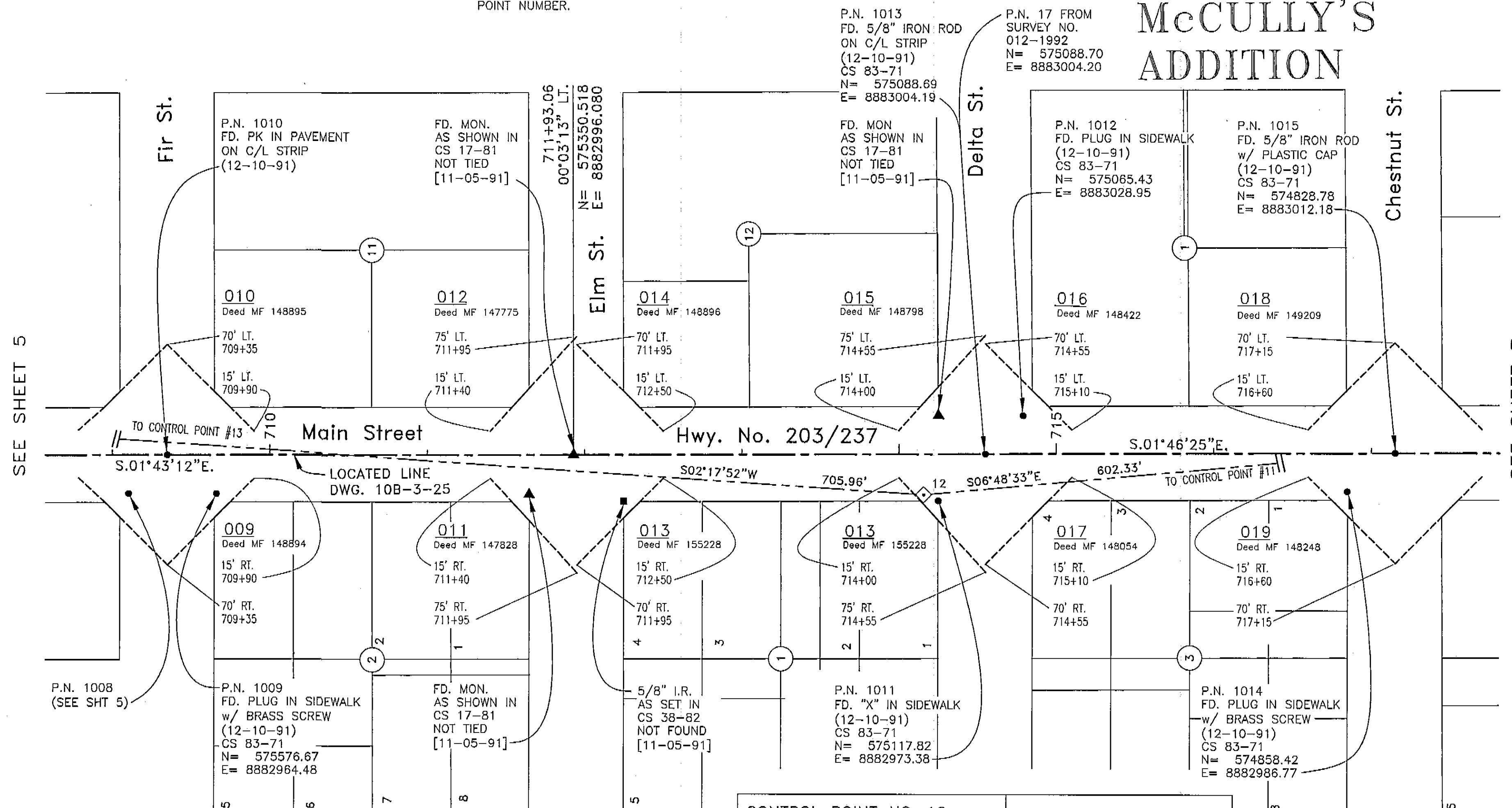


8/1998
Field Date
JAC 9/1998
Calculations
MEM 10/1998
Drawn
JAC 10/1998
Checked By Date

REGISTERED
PROFESSIONAL
LAND SURVEYOR

J. A. C. L.
OREGON
JULY 15, 1983
JOHN A. CARLSON
2044
RENEWS 12-31-1999

McCULLY'S
ADDITION



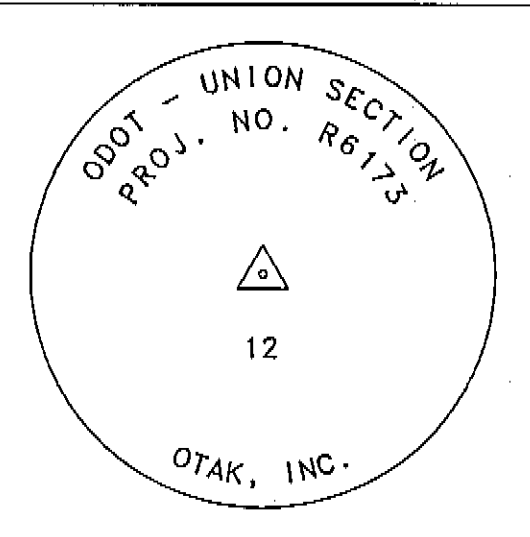
SEE SHEET 5

SEE SHEET 7

LEWIS
ADDITION

NORTH
UNION

CONTROL POINT NO. 12	
LOCAL COORDINATE	
N =	575127.204 FT.
E =	8882977.038 FT.
LAT. =	45-12-48.502740 N.
LONG. =	117-51-56.041386 W.
OREGON COORDINATE SYSTEM OF 1983	
N =	175256.590 m.
E =	2706885.517 m.
SET 2" ALUMINUM CAP IN CONCRETE SIDEWALK AT N.W. COR. OF DELTA AVE. & MAIN STREET IN FRONT OF L.D.S. CHURCH BUILDING, 4' E. OF SIGN POST	



CONTROL NETWORK SURVEY

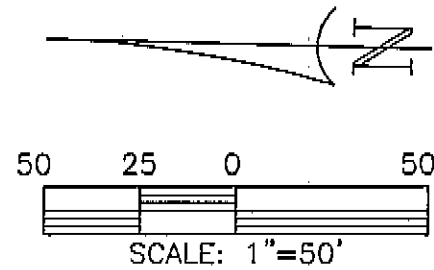
LA GRANDE -- BAKER HIGHWAY, UNION SECTION
IN SECTIONS 18, 19 AND 30, T.4S., R.40E., W.M.
UNION COUNTY, OREGON

FOR: OREGON DEPARTMENT OF TRANSPORTATION REGION 5

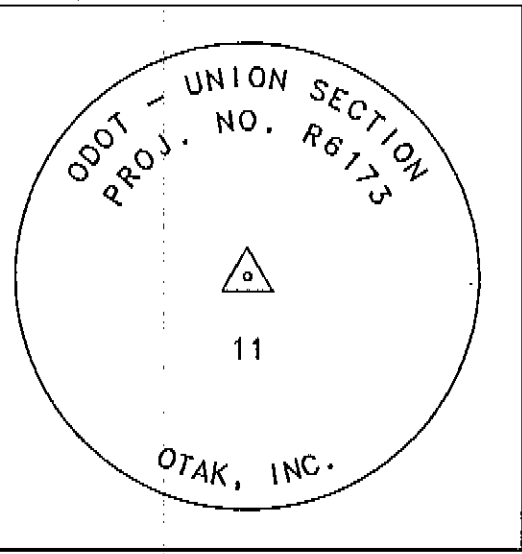


17355 SW Boones Ferry Rd.
Lake Oswego, Oregon 97035
Phone: (503) 635-3618
FAX: (503) 635-5395

L9356.S01
Project No.
S356S006
File No.
6 OF 15
Sheet No.



CONTROL POINT NO. 11	
LOCAL COORDINATE	
N =	574529.121 FT.
E =	8883048.454 FT.
LAT. =	45-12-42.578592 N.
LONG. =	117-51-55.316993 W.
OREGON COORDINATE SYSTEM OF 1983	
N =	175074.337 m.
E =	2706907.276 m.
SET 2" ALUMINUM CAP IN CONCRETE SIDEWALK AT S.E. COR. OF BIRCH ST. & MAIN ST., 6' E. OF CATCH BASIN, 4.5' SE'LY. OF FIRE HYDRANT	

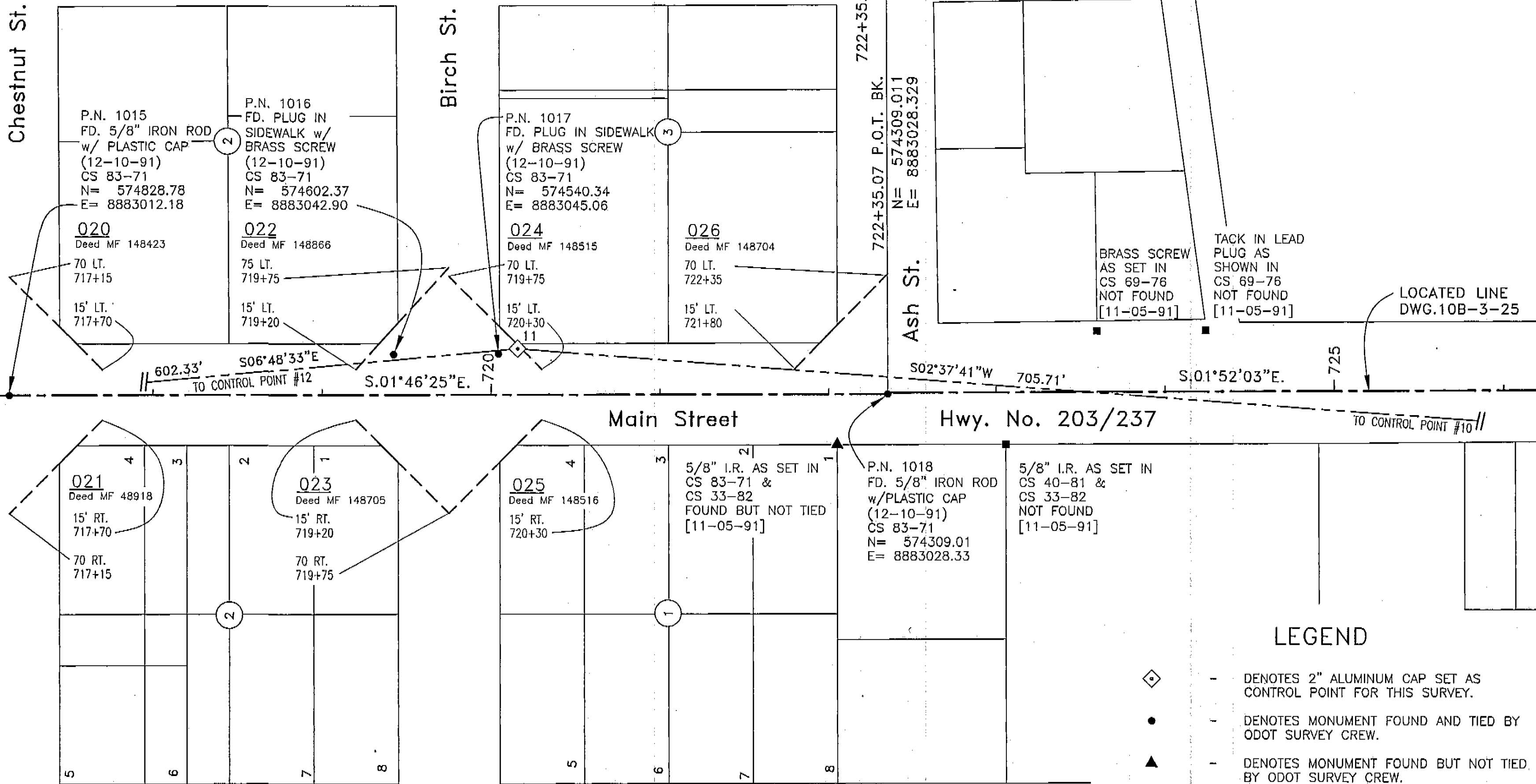


McCULLY'S ADDITION

8/1998
 Field Date
 JAC 9/1998
 Calculations
 MEM 10/1998
 Drawn
 JAC 10/1998
 Checked By Date

REGISTERED PROFESSIONAL LAND SURVEYOR

JOHN A. CARLSON
 JULY 15, 1983
 2044
 RENEWS 12-31-1999



SEE SHEET 6

SEE SHEET 8

NORTH UNION

- ### LEGEND
- DENOTES 2" ALUMINUM CAP SET AS CONTROL POINT FOR THIS SURVEY.
 - DENOTES MONUMENT FOUND AND TIED BY ODOT SURVEY CREW.
 - DENOTES MONUMENT FOUND BUT NOT TIED BY ODOT SURVEY CREW.
 - DENOTES MONUMENT SEARCHED FOR BUT NOT FOUND BY ODOT SURVEY CREW.
 - P.N. 1021 - DENOTES ODOT RECOVERED MONUMENT POINT NUMBER.
 - (12-20-91) - DENOTES DATE MONUMENT TIED BY ODOT SURVEY CREW.
 - [11-03-91] - DENOTES DATE MONUMENT SEARCHED FOR BY ODOT SURVEY CREW.
 - 051 - DENOTES ODOT FILE NUMBER.
 - Deed MF 15199 - DENOTES UNION COUNTY CLERK'S MICROFILM NUMBER OF RIGHT OF WAY ACQUISITION WARRANTY DEED.

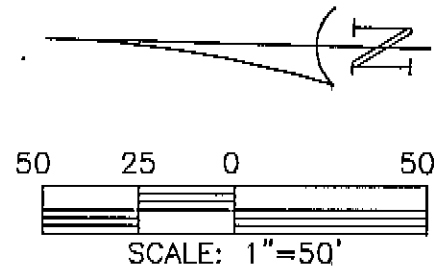
CONTROL NETWORK SURVEY
 LA GRANDE -- BAKER HIGHWAY, UNION SECTION
 IN SECTIONS 18, 19 AND 30, T.4S., R.40E., W.M.
 UNION COUNTY, OREGON

FOR: OREGON DEPARTMENT OF TRANSPORTATION REGION 5



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L9356.S01
 Project No.
 S356S007
 File No.
7 OF 15
 Sheet No.



LEGEND

- ◊ - DENOTES 2" ALUMINUM CAP SET AS CONTROL POINT FOR THIS SURVEY.
- - DENOTES MONUMENT FOUND AND TIED BY ODOT SURVEY CREW.
- ▲ - DENOTES MONUMENT FOUND BUT NOT TIED BY ODOT SURVEY CREW.
- P.N. 1021 - DENOTES ODOT RECOVERED MONUMENT POINT NUMBER.
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REGISTERED
 PROFESSIONAL
 LAND SURVEYOR

John A. Carlson

OREGON
 JULY 15, 1983
 JOHN A. CARLSON
 2044

RENEWS 12-31-1999

CONTROL NETWORK SURVEY

LA GRANDE -- BAKER HIGHWAY, UNION SECTION
 IN SECTIONS 18, 19 AND 30, T.4S., R.40E., W.M.
 UNION COUNTY, OREGON

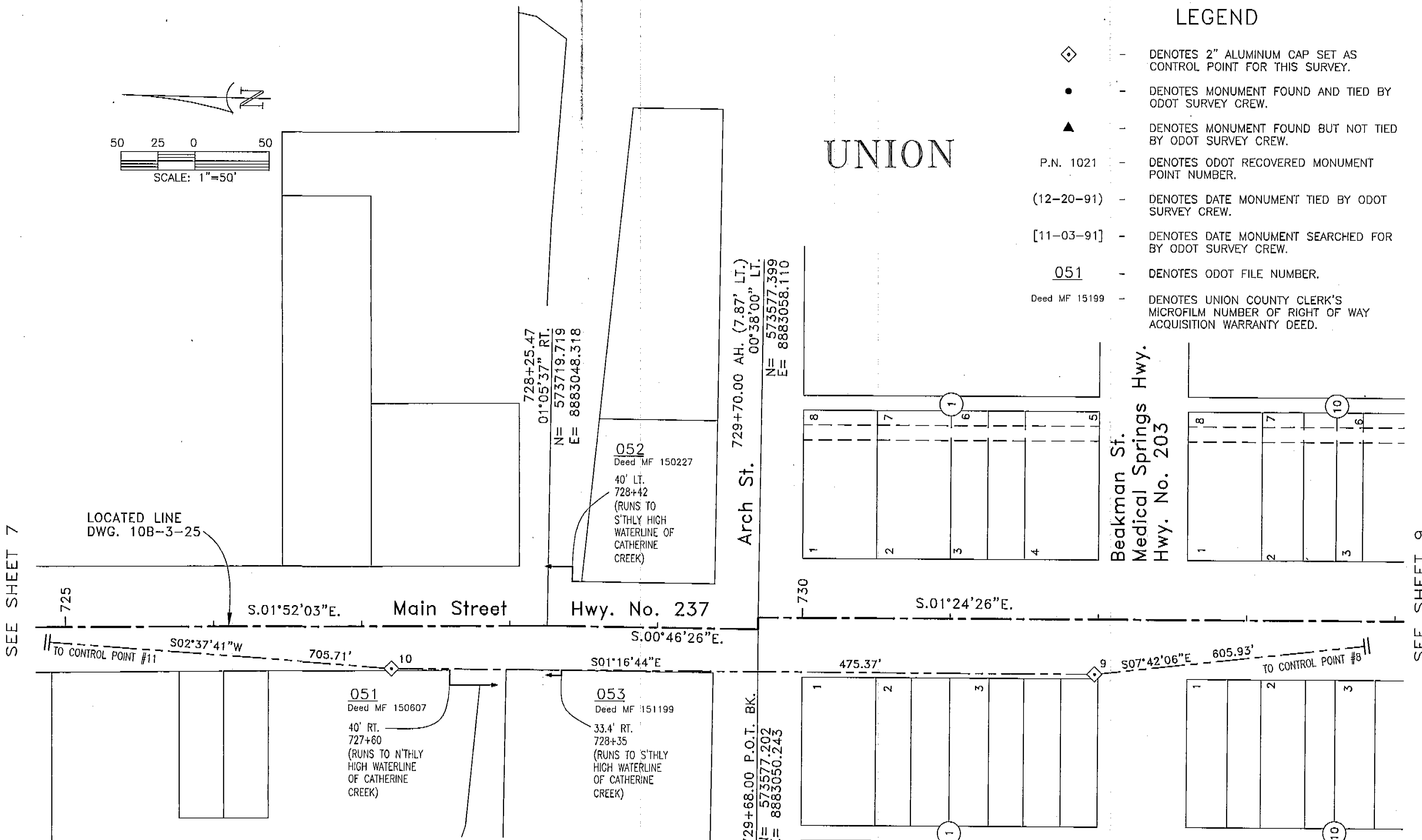
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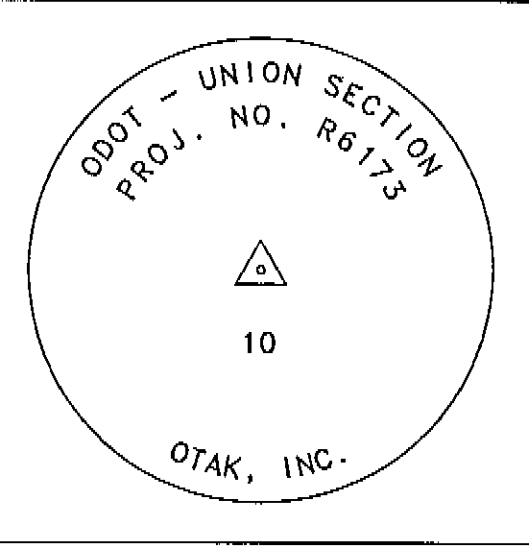
L9356.S01
 Project No.
 S356S008
 File No.
8 OF 15
 Sheet No.

SEE SHEET 7

SEE SHEET 9

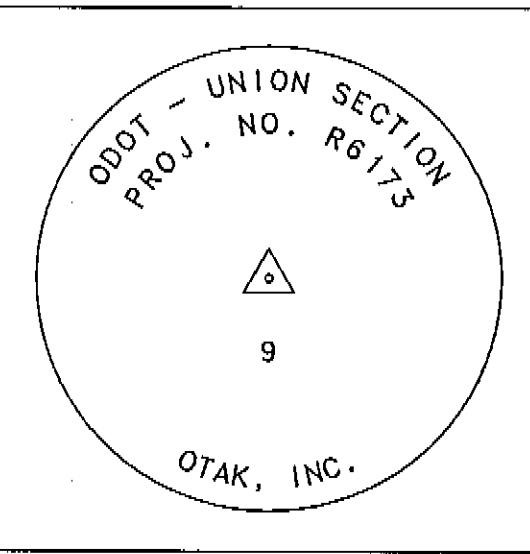


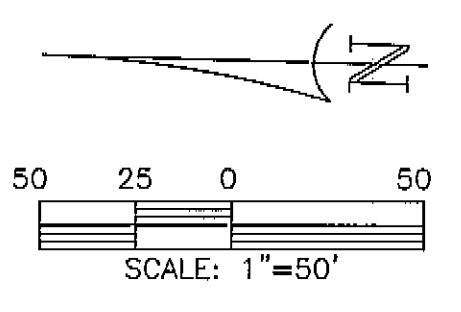
CONTROL POINT NO. 10	
LOCAL COORDINATE	
N =	573824.150 FT.
E =	8883016.094 FT.
LAT. =	45-12-35.633236 N.
LONG. =	117-51-56.089879 W.
OREGON COORDINATE SYSTEM OF 1983	
N =	174859.513 m.
E =	2706897.411 m.
SET 2" ALUMINUM CAP IN CONCRETE SIDEWALK ON W. SIDE OF MAIN ST., 7' WEST OF FACE OF CURB, 24.2' SE'LY. OF N.E. COR. OF LIBRARY	



WEST
 UNION

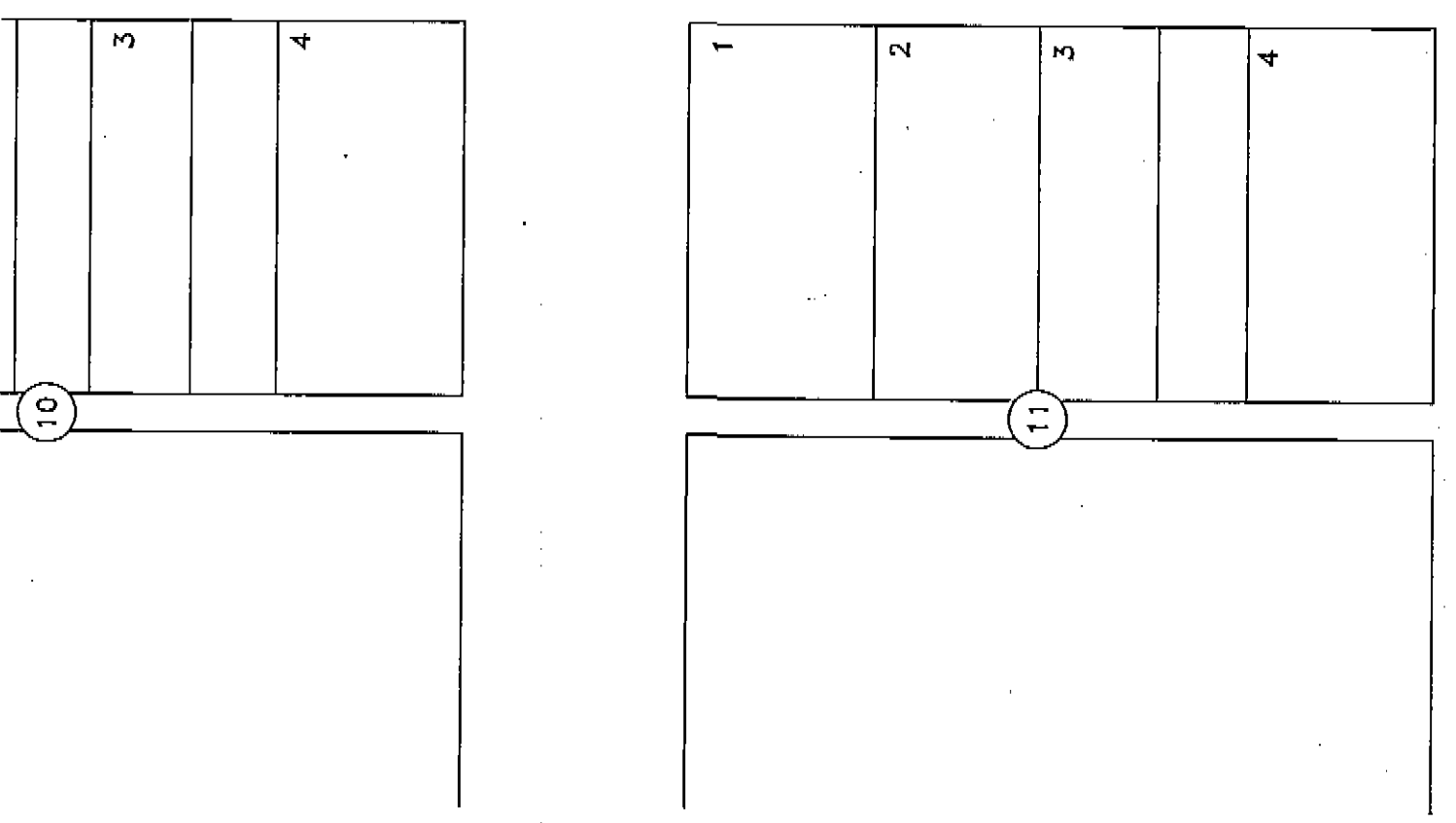
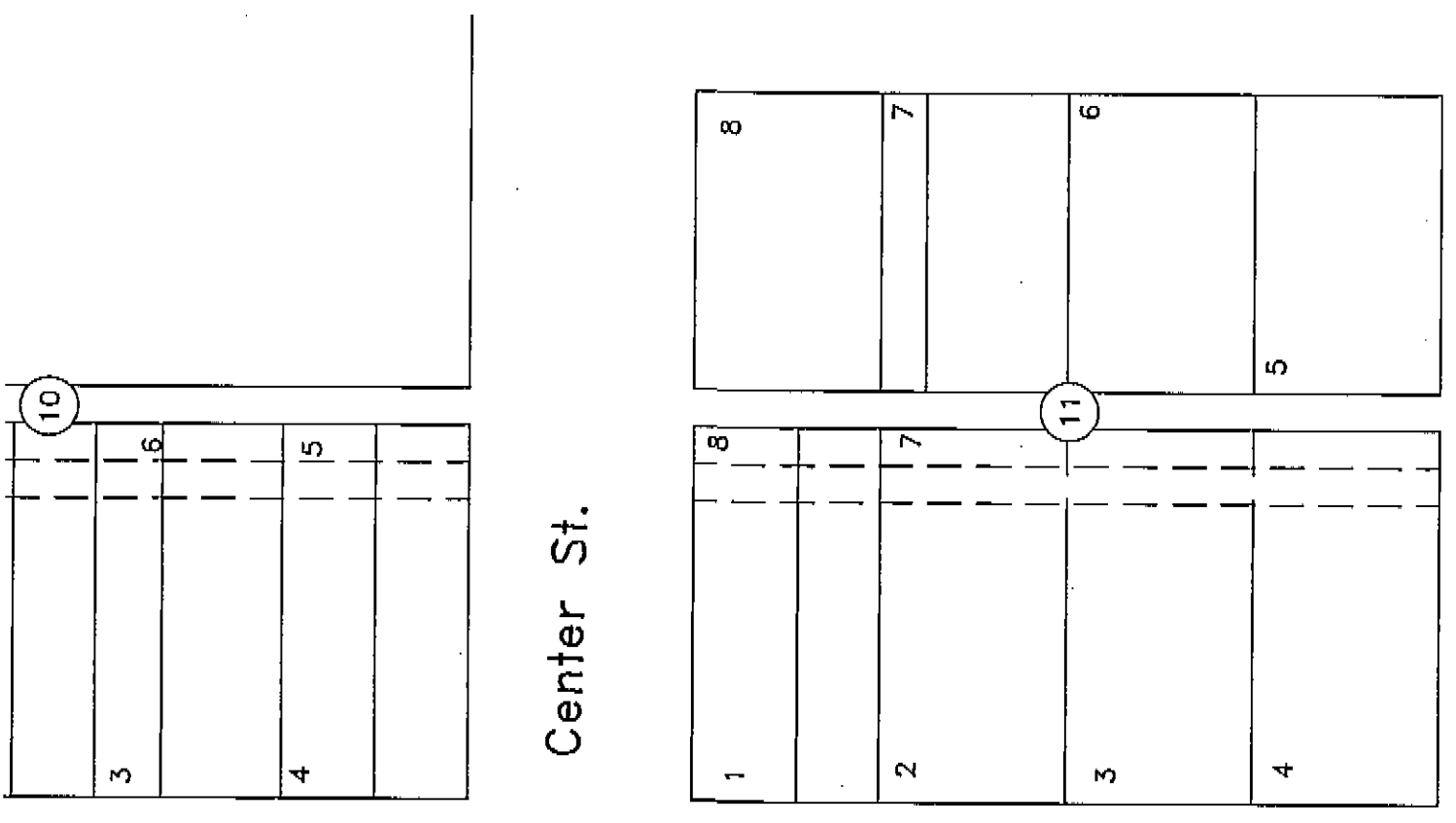
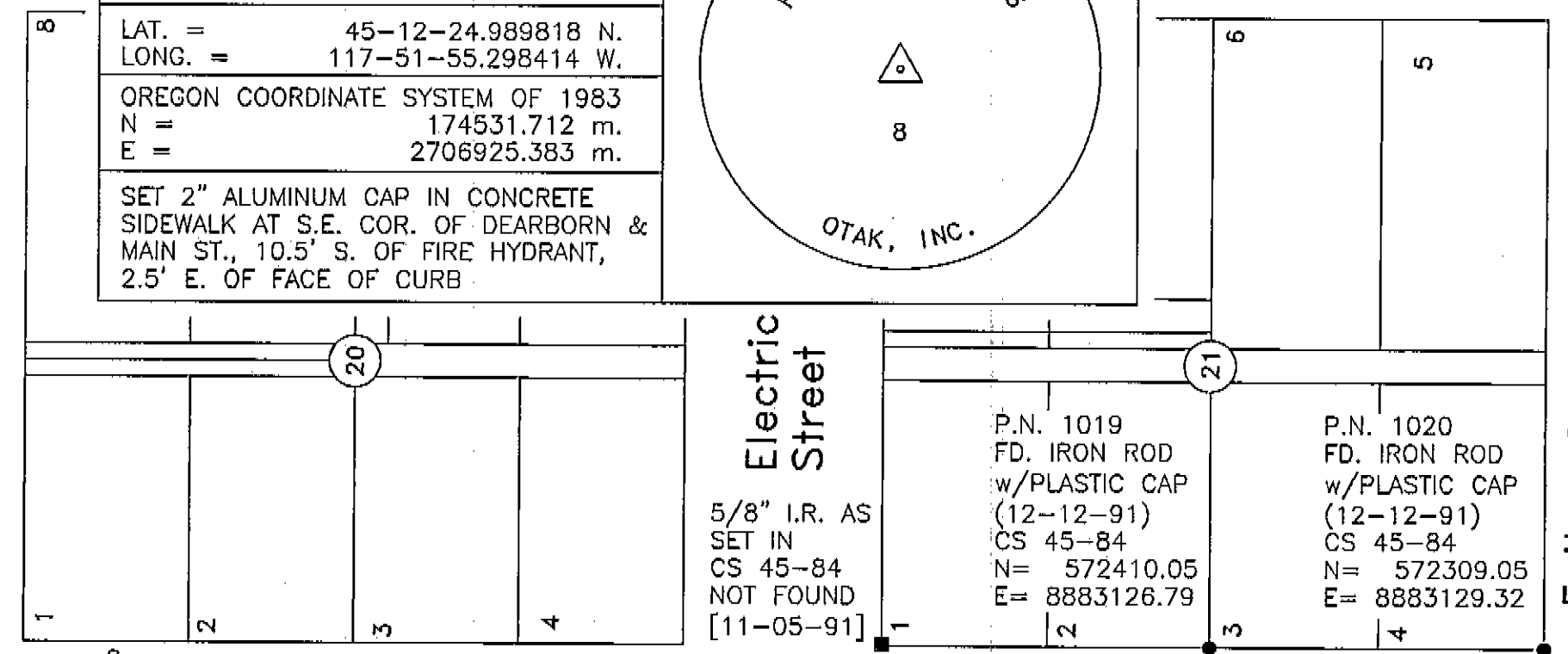
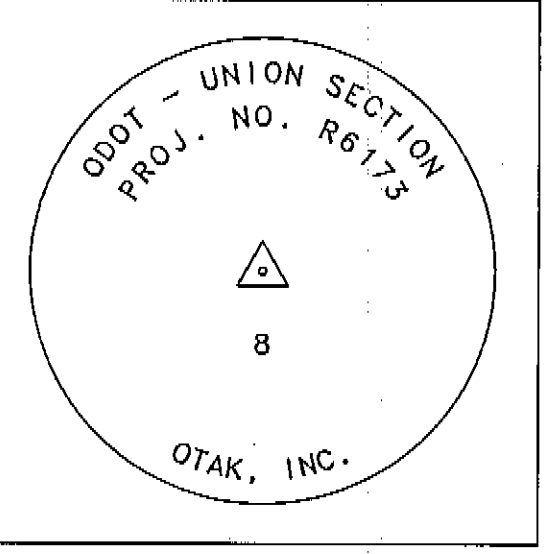
CONTROL POINT NO. 9	
LOCAL COORDINATE	
N =	573348.895 FT.
E =	8883026.704 FT.
LAT. =	45-12-30.940588 N.
LONG. =	117-51-56.158291 W.
OREGON COORDINATE SYSTEM OF 1983	
N =	174714.690 m.
E =	2706900.642 m.
SET 2" ALUMINUM CAP IN CONCRETE SIDEWALK AT N.W. COR. OF BEAKMAN ST. (HWY 203) & MAIN ST. (HWY 237), 3' E. OF BLDG. COR., 7' W. OF LIGHT POLE	



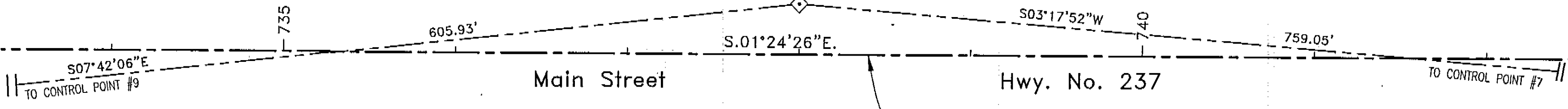


UNION

CONTROL POINT NO. 8	
LOCAL COORDINATE	
N =	572748.434 FT.
E =	8883107.909 FT.
LAT. =	45-12-24.989818 N.
LONG. =	117-51-55.298414 W.
OREGON COORDINATE SYSTEM OF 1983	
N =	174531.712 m.
E =	2706925.383 m.
SET 2" ALUMINUM CAP IN CONCRETE SIDEWALK AT S.E. COR. OF DEARBORN & MAIN ST., 10.5' S. OF FIRE HYDRANT, 2.5' E. OF FACE OF CURB	



WEST UNION



- LEGEND**
- ◊ - DENOTES 2" ALUMINUM CAP SET AS CONTROL POINT FOR THIS SURVEY.
 - - DENOTES MONUMENT FOUND AND TIED BY ODOT SURVEY CREW.
 - - DENOTES MONUMENT SEARCHED FOR BUT NOT FOUND BY ODOT SURVEY CREW.
 - P.N. 1021 - DENOTES ODOT RECOVERED MONUMENT POINT NUMBER.
 - (12-20-91) - DENOTES DATE MONUMENT TIED BY ODOT SURVEY CREW.
 - [11-03-91] - DENOTES DATE MONUMENT SEARCHED FOR BY ODOT SURVEY CREW.

8/1998
 Field Date
 JAC 9/1998
 Calculations
 MEM 10/1998
 Drawn
 JAC 10/1998
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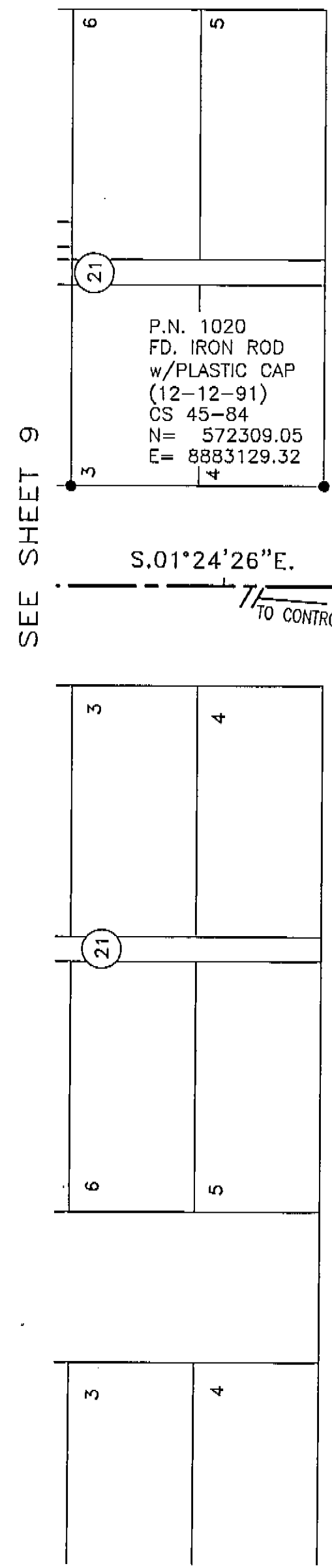
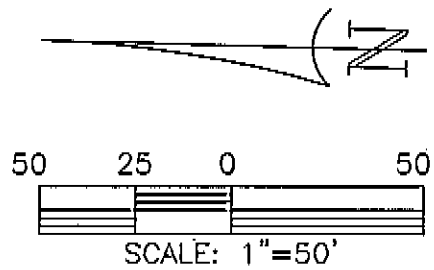
REGISTERED
 PROFESSIONAL
 LAND SURVEYOR
 J. A. CL
 OREGON
 JULY 15, 1983
 JOHN A. CARLSON
 2044
 RENEWS 12-31-1999

CONTROL NETWORK SURVEY
 LA GRANDE -- BAKER HIGHWAY, UNION SECTION
 IN SECTIONS 18, 19 AND 30, T.4S., R.40E., W.M.
 UNION COUNTY, OREGON

FOR: OREGON DEPARTMENT OF TRANSPORTATION REGION 5

otak
 Incorporated
 17355 SW Boones Ferry Rd.
 Lake Oswego, Oregon 97035
 Phone: (503) 635-3618
 FAX: (503) 635-5395

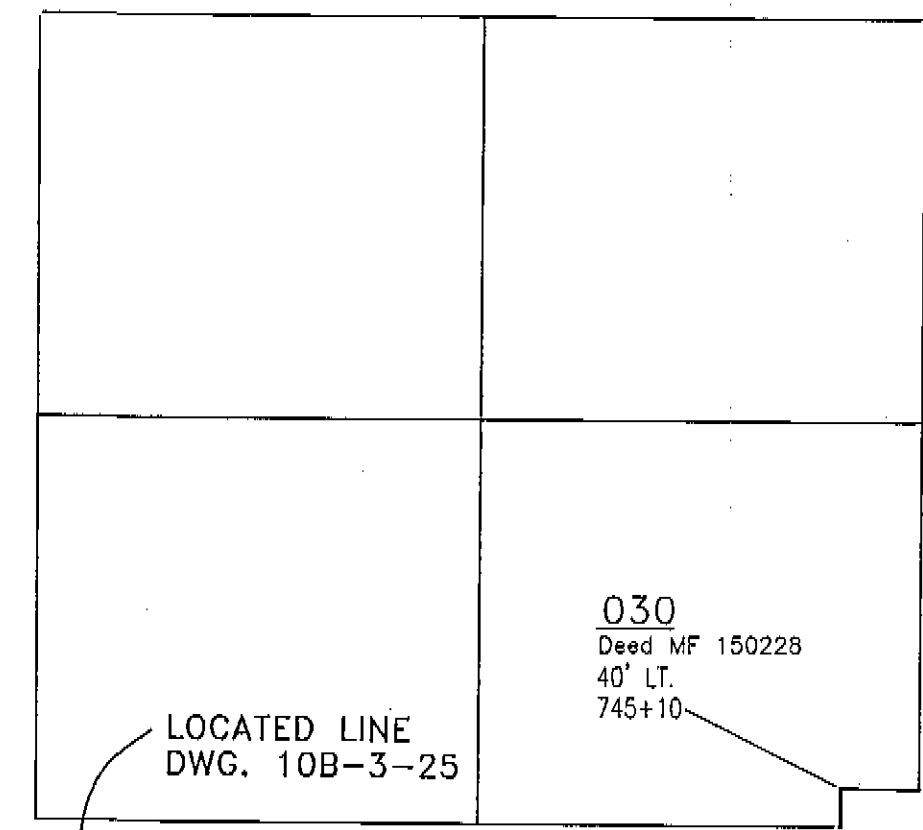
L9356.S01
 Project No.
 S356S009
 File No.
9 OF 15
 Sheet No.



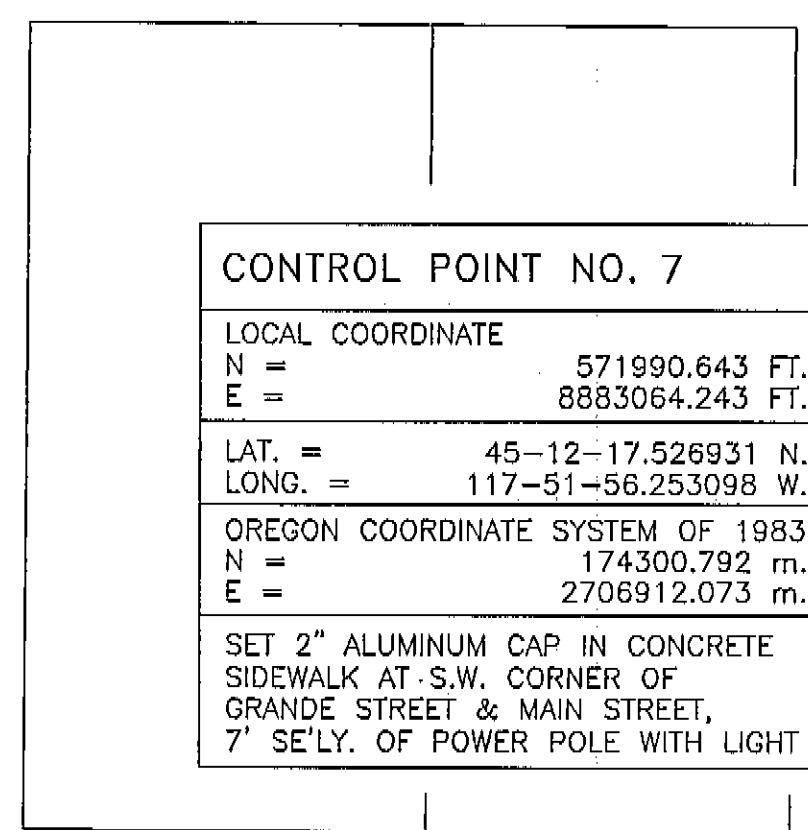
742+69.71 P.O.T. BK.
N= 572278.084
E= 8885090.027

Fulton St.

742+70.40 AH. (8.77' RT.)
00+12.11 RT.
N= 572277.869
E= 8883081.262

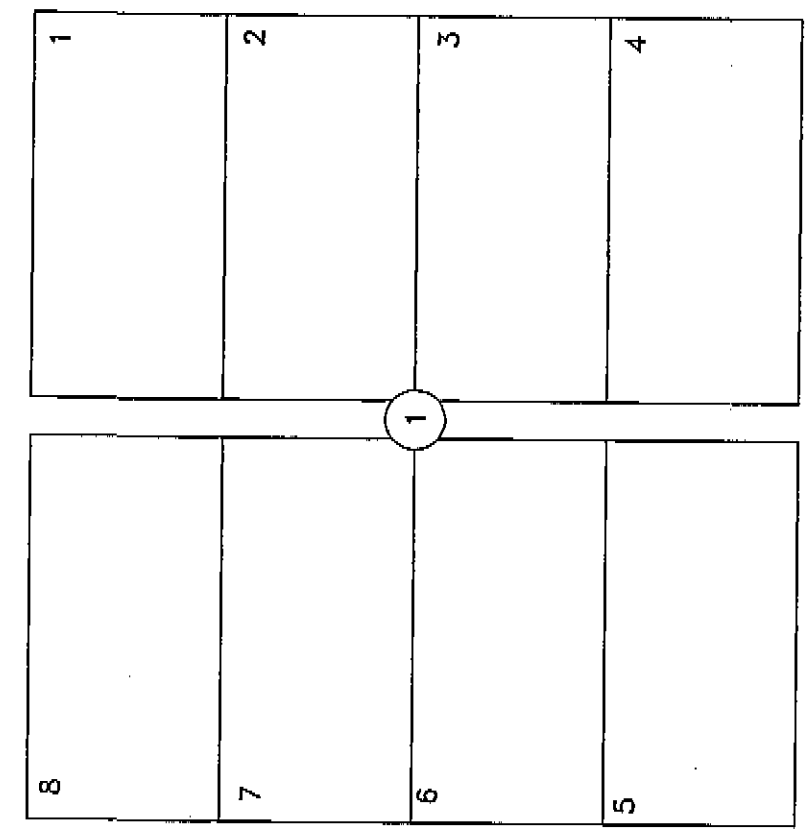
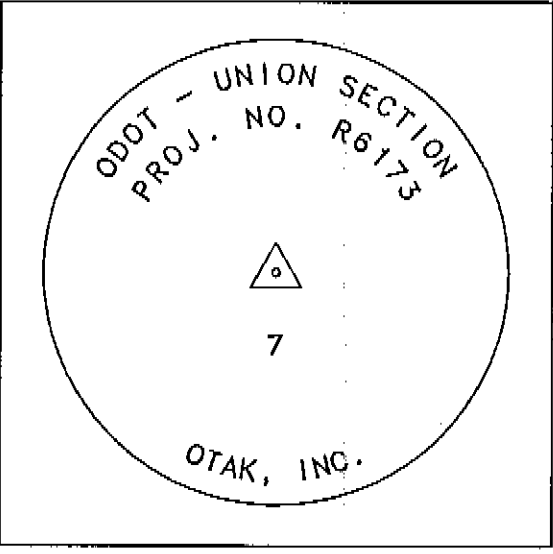


Grande Ave.

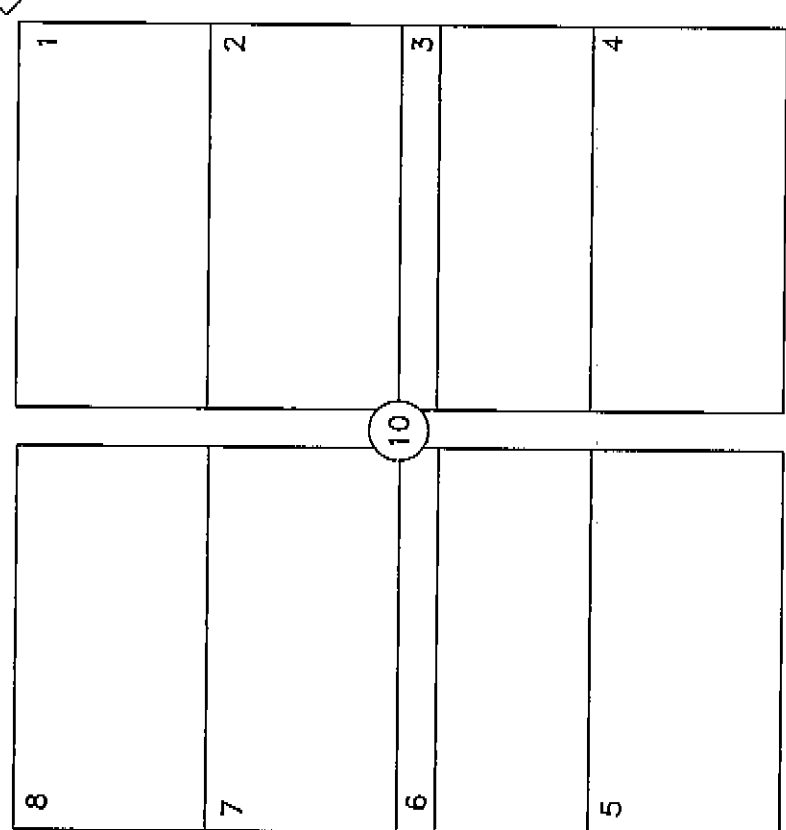


Harrison St.

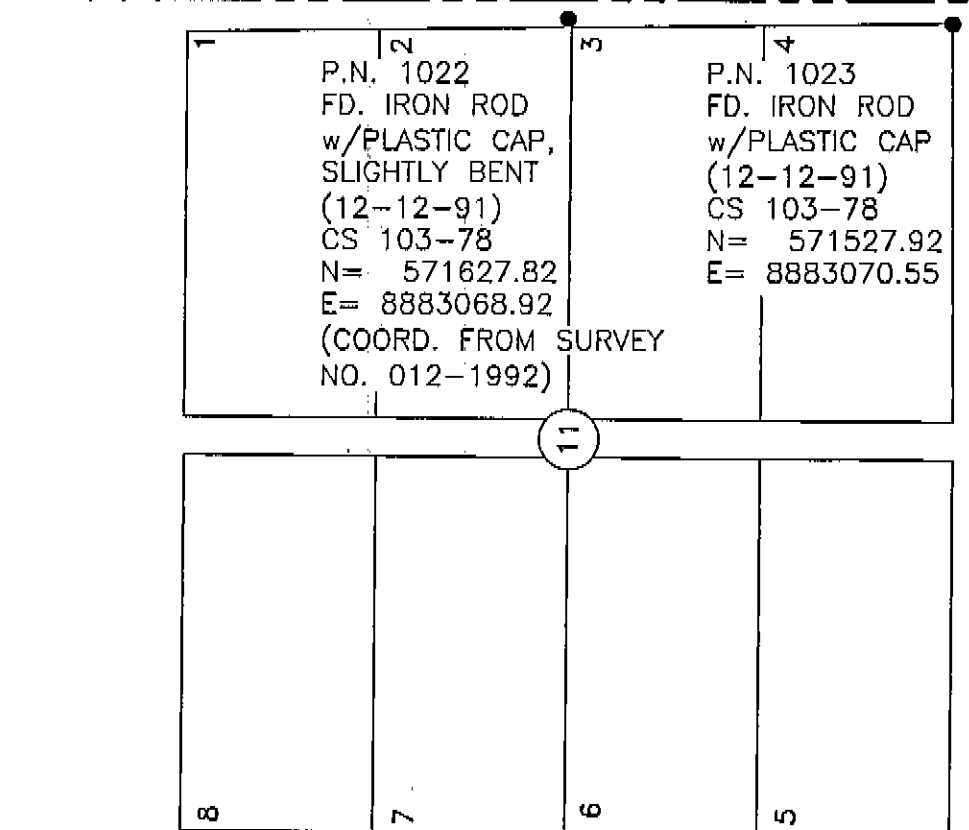
CONTROL POINT NO. 7	
LOCAL COORDINATE	
N =	571990.643 FT.
E =	8883064.243 FT.
LAT. =	45-12-17.526931 N.
LONG. =	117-51-56.253098 W.
OREGON COORDINATE SYSTEM OF 1983	
N =	174300.792 m.
E =	2706912.073 m.
SET 2" ALUMINUM CAP IN CONCRETE SIDEWALK AT S.W. CORNER OF GRANDE STREET & MAIN STREET, 7' SE'LY. OF POWER POLE WITH LIGHT	



P.N. 1021
FD. RAILROAD SPIKE
(12-12-91)
CS 142-78
N= 572011.64
E= 8882816.36



HANNAH'S ADDITION



P.N. 1022
FD. IRON ROD
w/PLASTIC CAP,
SLIGHTLY BENT
(12-12-91)
CS 103-78
N= 571627.82
E= 8883068.92
(COORD. FROM SURVEY
NO. 012-1992)

P.N. 1023
FD. IRON ROD
w/PLASTIC CAP
(12-12-91)
CS 103-78
N= 571527.92
E= 8883070.55

Iowa St.

SEE SHEET 9

SEE SHEET 11

LEGEND

- ◊ - DENOTES 2" ALUMINUM CAP SET AS CONTROL POINT FOR THIS SURVEY.
- - DENOTES MONUMENT FOUND AND TIED BY ODOT SURVEY CREW.
- P.N. 1021 - DENOTES ODOT RECOVERED MONUMENT POINT NUMBER.
- (12-20-91) - DENOTES DATE MONUMENT TIED BY ODOT SURVEY CREW.

8/1998
Field Date
JAC 9/1998
Calculations
MEM 10/1998
Drawn
JAC 10/1998
Checked By Date

REGISTERED
PROFESSIONAL
LAND SURVEYOR

John A. Carlson

OREGON
JULY 15, 1983
JOHN A. CARLSON
2044
RENEWS 12-31-1999

CONTROL NETWORK SURVEY

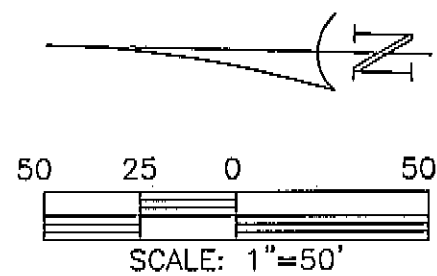
LA GRANDE -- BAKER HIGHWAY, UNION SECTION
IN SECTIONS 18, 19 AND 30, T.4S., R.40E., W.M.
UNION COUNTY, OREGON



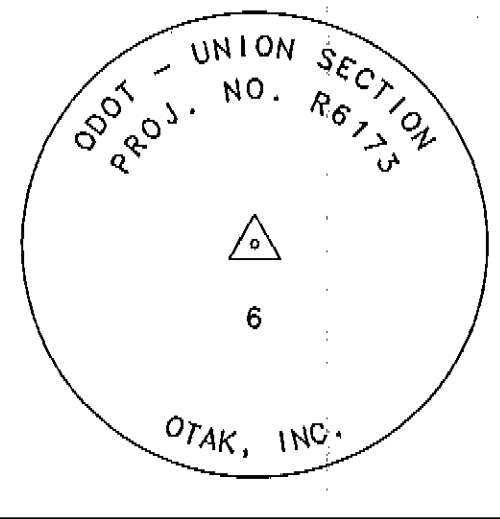
17355 SW Boones Ferry Rd.
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Project No.
S356S010
File No.
10 OF 15
Sheet No.

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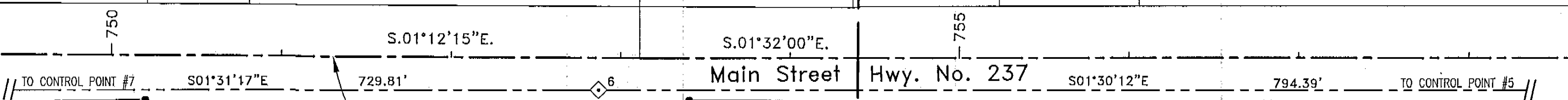
CONTROL POINT NO. 6	
LOCAL COORDINATE	
N =	571261.087 FT.
E =	8883083.619 FT.
LAT. =	45-12-10.322319 N.
LONG. =	117-51-56.315001 W.
OREGON COORDINATE SYSTEM OF 1983	
N =	174078.476 m.
E =	2706917.973 m.
SET 2" ALUMINUM CAP IN CONCRETE SIDEWALK AT N.W. CORNER OF JEFFERSON & MAIN STREET, 4' W. OF CATCH BASIN, 14.5' E. OF FENCE COR.	



753+11.15
00°19'45" LT.
N= 571237.346
E= 8883103.132

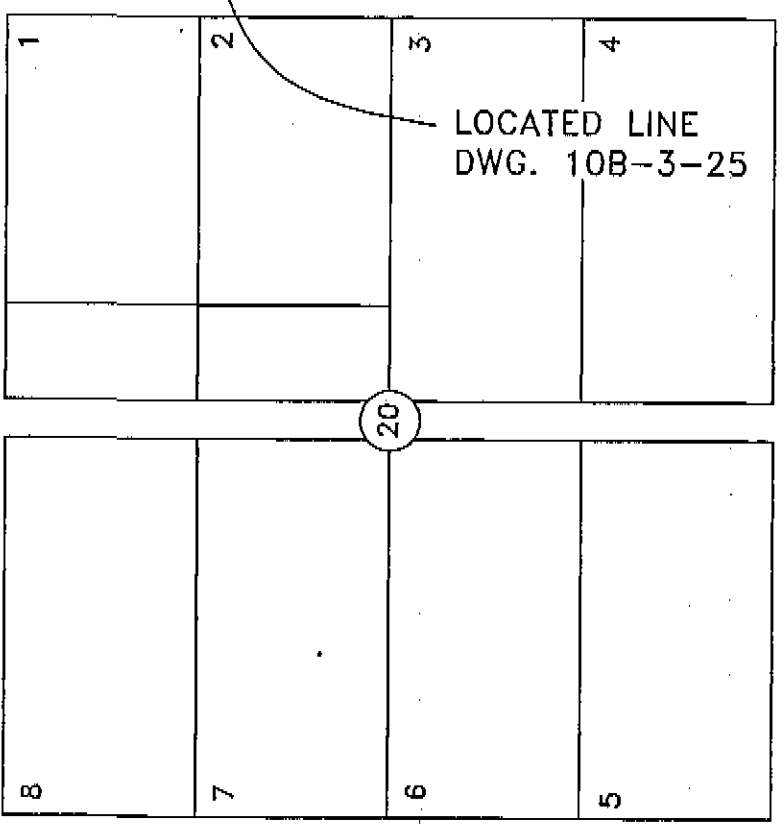
SEE SHEET 10

SEE SHEET 12



P.N. 1023
FD. IRON ROD
W/PLASTIC CAP
(12-12-91)
CS 103-78
N= 571527.92
E= 8883070.55

Iowa St.



Jefferson St.

P.N. 1024
FD. IRON ROD
w/PLASTIC CAP
(12-12-91)
CS 67-71
N= 571207.54
E= 8883078.93

041
Deed MF 148200

042
Deed MF 147868
PARALLEL TO AND
29' FROM LOCATED LINE

044
Deed MF 147830
PARALLEL TO AND
29' FROM LOCATED LINE

E.W. CENTERLINE
SECTION 18

HANNAH'S ADDITION

LEGEND

- ◊ - DENOTES 2" ALUMINUM CAP SET AS CONTROL POINT FOR THIS SURVEY.
- - DENOTES MONUMENT FOUND AND TIED BY ODOT SURVEY CREW.
- P.N. 1021 - DENOTES ODOT RECOVERED MONUMENT POINT NUMBER.
- (12-20-91) - DENOTES DATE MONUMENT TIED BY ODOT SURVEY CREW.
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- Deed MF 15199 - DENOTES UNION COUNTY CLERK'S MICROFILM NUMBER OF RIGHT OF WAY ACQUISITION WARRANTY DEED.

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LAND SURVEYOR

John A. Carlson

OREGON
JULY 15, 1983
JOHN A. CARLSON
2044

RENEWS 12-31-1999

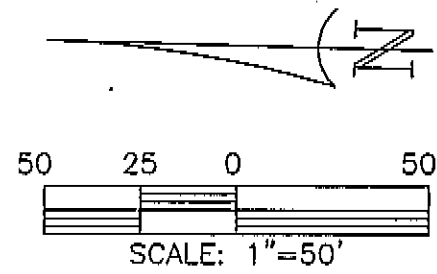
CONTROL NETWORK SURVEY
LA GRANDE --- BAKER HIGHWAY, UNION SECTION
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UNION COUNTY, OREGON



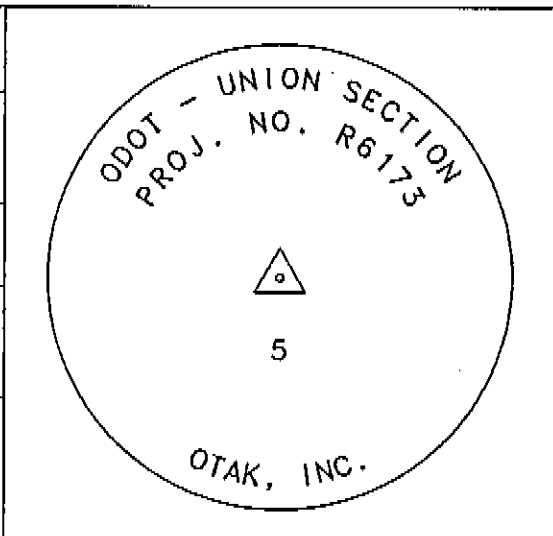
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Project No.
S356S011
File No.
11 OF 15
Sheet No.

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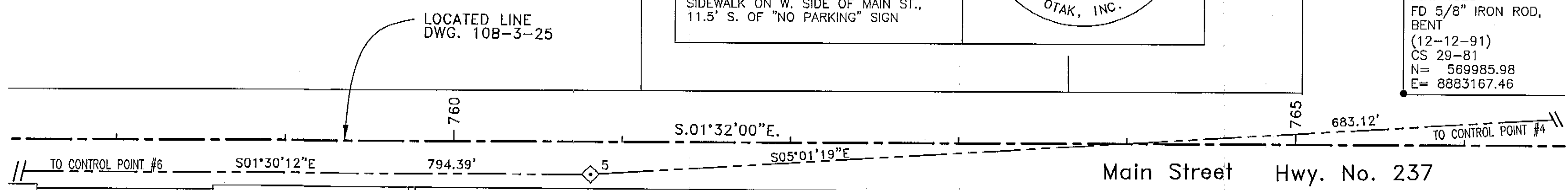


CONTROL POINT NO. 5	
LOCAL COORDINATE	
N =	570466.974 FT.
E =	8883104.458 FT.
LAT. = 45-12-02.480274 N.	
LONG. = 117-51-56.385874 W.	
OREGON COORDINATE SYSTEM OF 1983	
N =	173836.487 m.
E =	2706924.319 m.
SET 2" ALUMINUM CAP IN CONCRETE SIDEWALK ON W. SIDE OF MAIN ST., 11.5' S. OF "NO PARKING" SIGN	



P.N. 1025
FD 5/8" IRON ROD,
BENT
(12-12-91)
CS 29-81
N= 569985.98
E= 8883167.46

City St.



044
Deed MF 147830
PARALLEL TO AND
29' FROM LOCATED LINE

LEGEND

- ◊ - DENOTES 2" ALUMINUM CAP SET AS CONTROL POINT FOR THIS SURVEY.
- - DENOTES MONUMENT FOUND AND TIED BY ODOT SURVEY CREW.
- P.N. 1021 - DENOTES ODOT RECOVERED MONUMENT POINT NUMBER.
- (12-20-91) - DENOTES DATE MONUMENT TIED BY ODOT SURVEY CREW.
- 051 - DENOTES ODOT FILE NUMBER.
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REGISTERED
PROFESSIONAL
LAND SURVEYOR

John A. Carlson
OREGON
JULY 15, 1983
JOHN A. CARLSON
2044
RENEWS 12-31-1999

CONTROL NETWORK SURVEY

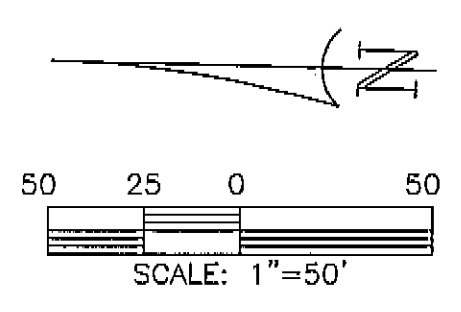
LA GRANDE -- BAKER HIGHWAY, UNION SECTION
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UNION COUNTY, OREGON

FOR: OREGON DEPARTMENT OF TRANSPORTATION REGION 5



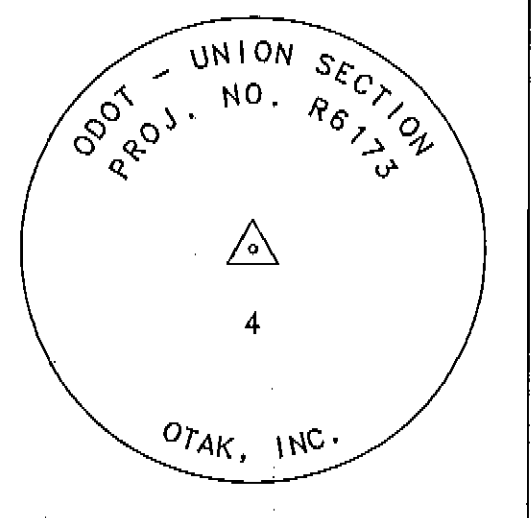
17355 SW Boones Ferry Rd.
Lake Oswego, Oregon 97035
Phone: (503) 635-3618
FAX: (503) 635-5395

L9356.S01
Project No.
S356S012
File No.
12 OF 15
Sheet No.



City St.

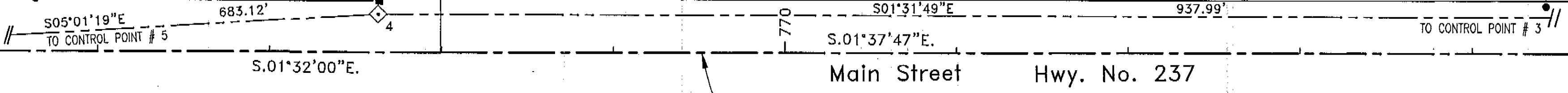
CONTROL POINT NO. 4	
LOCAL COORDINATE	
N =	569786.479 FT.
E =	8883164.257 FT.
LAT. =	45-11-55.746717 N.
LONG. =	117-51-55.861288 W.
OREGON COORDINATE SYSTEM OF 1983	
N =	173629.121 m.
E =	2706942.537 m.
SET 5/8" X 30" IRON ROD w/ 2" ALUMINUM CAP IN S'LY. ASPHALT DRIVEWAY APRON TO UNION BAPTIST CHURCH, 0.10' DEEP	



P.N. 1025
FD. 5/8" IRON ROD, BENT (12-12-91)
CS 29-81
N= 569985.98
E= 8883167.46

5/8" IR
AS SET IN
CS 29-82
NOT FOUND
[11-5-91]

P.N. 1026
FD. 5/8" REBAR (12-12-91)
CS 66-79
N= 569107.32
E= 8883188.71



767+99.56
00°05'47" LT.
N= 569749.477
E= 8883142.959

SEE SHEET 14

SEE SHEET 12

Oregon St.

UNION ORCHARD TRACTS

LOCATED LINE
DWG. 10B-3-25

LEGEND

- ◊ - DENOTES 2" ALUMINUM CAP SET AS CONTROL POINT FOR THIS SURVEY.
- - DENOTES MONUMENT FOUND AND TIED BY ODOT SURVEY CREW.
- - DENOTES MONUMENT SEARCHED FOR BUT NOT FOUND BY ODOT SURVEY CREW.
- P.N. 1021 - DENOTES ODOT RECOVERED MONUMENT POINT NUMBER.
- (12-20-91) - DENOTES DATE MONUMENT TIED BY ODOT SURVEY CREW.
- [11-03-91] - DENOTES DATE MONUMENT SEARCHED FOR BY ODOT SURVEY CREW.

8/1998
Field Date
JAC 9/1998
Calculations
MEM 10/1998
Drawn
JAC 10/1998
Checked By Date

REGISTERED
PROFESSIONAL
LAND SURVEYOR

John A. Carlson

OREGON
JULY 15, 1983
JOHN A. CARLSON
2044

RENEWS 12-31-1999

CONTROL NETWORK SURVEY

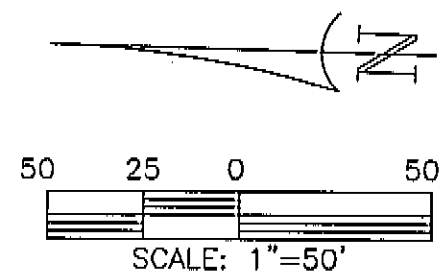
LA GRANDE -- BAKER HIGHWAY, UNION SECTION
IN SECTIONS 18, 19 AND 30, T.4S., R.40E., W.M.
UNION COUNTY, OREGON

FOR: OREGON DEPARTMENT OF TRANSPORTATION REGION 5

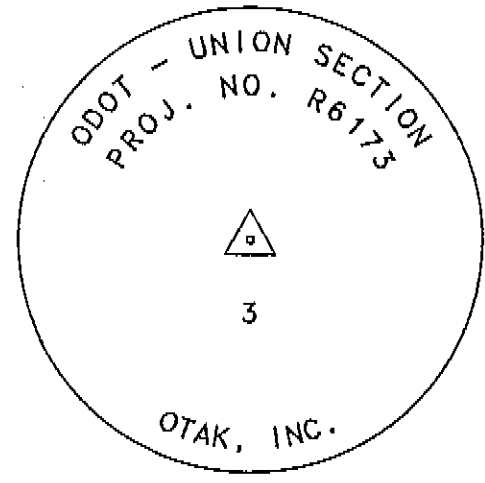


17355 SW Boones Ferry Rd.
Lake Oswego, Oregon 97035
Phone: (503) 635-3618
FAX: (503) 635-5395

L9356.S01
Project No.
S356S013
File No.
13 OF 15
Sheet No.

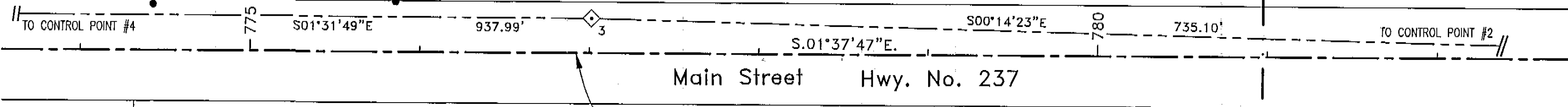


CONTROL POINT NO. 3	
LOCAL COORDINATE	
N =	568848.827 FT.
E =	8883189.306 FT.
LAT. =	45-11-46.487035 N.
LONG. =	117-51-55.938826 W.
OREGON COORDINATE SYSTEM OF 1983	
N =	173343.392 m.
E =	2706950.165 m.
SET 5/8" X 30" IRON ROD w/ 2" ALUMINUM CAP IN GRAVEL SHOULDER ON E. SIDE OF MAIN ST., 4' E. OF E.P., 6.5' W. OF "SPEED ZONE AHEAD" SIGN	



P.N. 1026
FD. 5/8" Rebar
(12-12-91)
CS 66-79
N= 569107.32
E= 8883188.71

P.N. 1027
FD. 5/8" Rebar
(12-12-91)
CS 66-79
N= 568964.64
E= 8883195.08



Main Street Hwy. No. 237

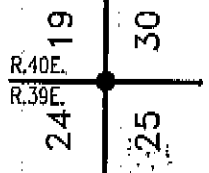
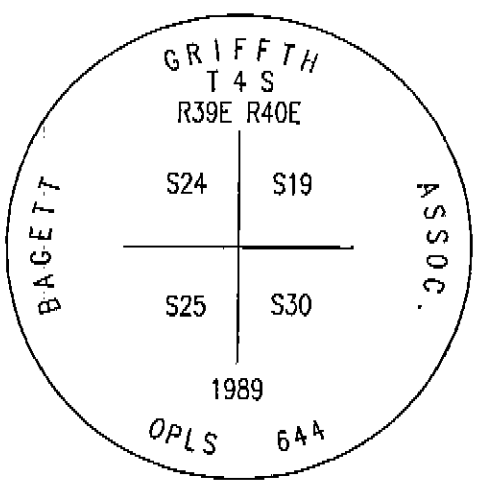
LOCATED LINE
DWG. 10B-3-25

UNION ORCHARD TRACTS

LEGEND

- DENOTES 2" ALUMINUM CAP SET AS CONTROL POINT FOR THIS SURVEY.
- DENOTES MONUMENT FOUND AND TIED BY ODOT SURVEY CREW.
- P.N. 1021 - DENOTES ODOT RECOVERED MONUMENT POINT NUMBER.
- (12-20-91) - DENOTES DATE MONUMENT TIED BY ODOT SURVEY CREW.

SECTION CORNER	
LOCAL COORDINATE BY ODOT (10-15-91)	
N =	568418.26 FT.
E =	8881912.27 FT.
LOCAL COORDINATE BY OTAK (08-04-98)	
N =	568418.17 FT.
E =	8881912.26 FT.
OREGON COORDINATE SYSTEM OF 1983	
N =	173212.165 m.
E =	2706561.010 m.
LAT. =	45-11-42.648654 N.
LONG. =	117-52-13.955988 W.
FD. 2 1/2" ALUMINUM CAP DOWN 1.4' IN MIDDLE OF DIRT ROAD. (ACCESS FROM OREGON ST.)	



FD. SECTION CORNER
SEC. 24 & 25, T.4S., R.39E. &
SEC. 19 & 30, T.4S., R.40E., W.M.
UNION COUNTY, OREGON
CS 23-89

8/1998
Field Date
JAC 9/1998
Calculations
MEM 10/1998
Drawn
JAC 10/1998
Checked By Date

REGISTERED
PROFESSIONAL
LAND SURVEYOR

J.L.A.C.L.

OREGON
JULY 15, 1983
JOHN A. CARLSON
2044

RENEWS 12-31-1999

CONTROL NETWORK SURVEY

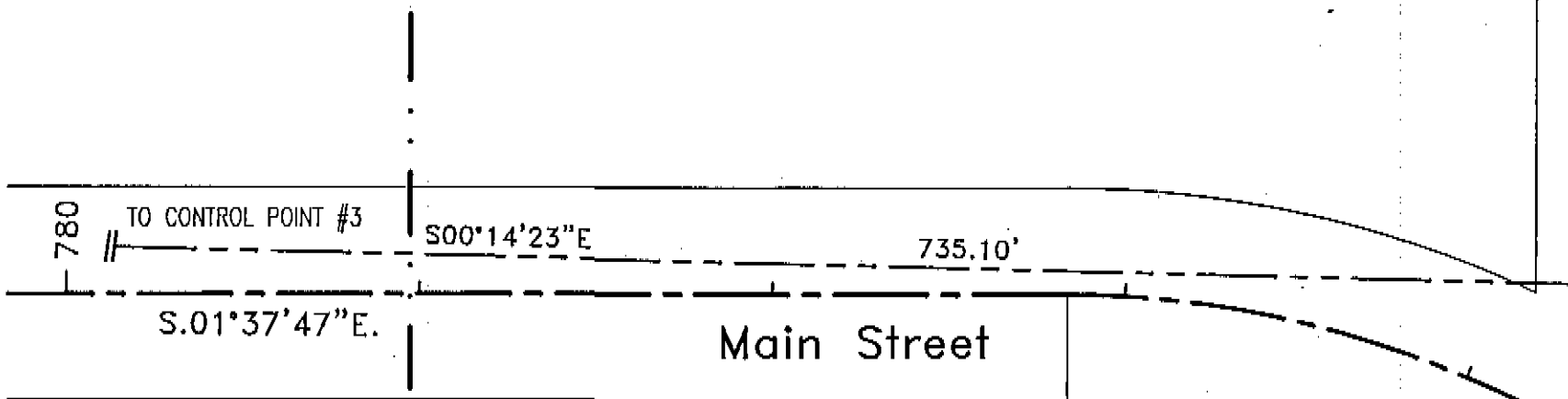
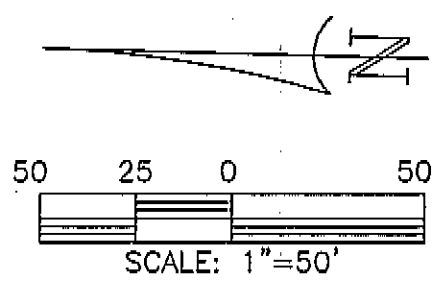
LA GRANDE --- BAKER HIGHWAY, UNION SECTION
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UNION COUNTY, OREGON

FOR: OREGON DEPARTMENT OF TRANSPORTATION REGION 5

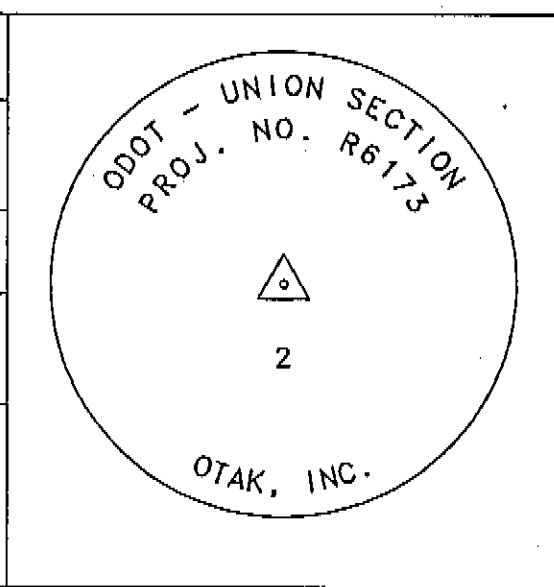


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L9356.S01
Project No.
S356S014
File No.
14 OF 15
Sheet No.



CONTROL POINT NO. 2	
LOCAL COORDINATE	
N =	568113.731 FT.
E =	8883192.383 FT.
LAT. =	45-11-39.233002 N.
LONG. =	117-51-56.230697 W.
OREGON COORDINATE SYSTEM OF 1983	
N =	173119.388 m.
E =	2706951.098 m.
SET 5/8" X 30" IRON ROD w/ 2" ALUM. CAP AT JUNCTION OF HWY. 237 & THE S. SIDE OF RAMO FLAT RD., 5' N. OF WIRE FENCE, 34' NE'LY. OF MAILBOX, 56' S'LY. OF STOP SIGN.	



LEGEND
 ◊ DENOTES 2" ALUMINUM CAP SET AS CONTROL POINT FOR THIS SURVEY.

782+83.50 P.C.
 N= 568266.129
 E= 8833185.161

20° C.R.
 Δ=66°42'53"
 T=188.59'

786+17.08 P.T.
 N= 567998.164
 E= 8883019.483

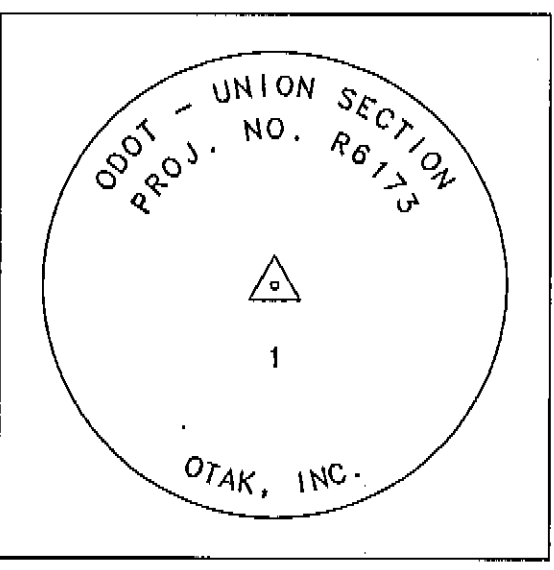
Hwy. No. 237
 S.65°05'06"W
 56702.78 W
 857.25'

789+29.27 P.O.T. END OF PROJECT
 N= 567866.644
 E= 8882736.341

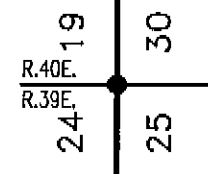
UNION ORCHARD TRACTS

FD. SECTION CORNER
 SEC. 24 & 25, T.4S., R.39E. &
 SEC. 19 & 30, T.4S., R.40E., W.M.
 UNION COUNTY, OREGON
 CS 23-89
 SEE SHT. 14 FOR DESCRIPTION

CONTROL POINT NO. 1	
LOCAL COORDINATE	
N =	567711.782 FT.
E =	8882435.206 FT.
LAT. =	45-11-35.510746 N.
LONG. =	117-52-06.979666 W.
OREGON COORDINATE SYSTEM OF 1983	
N =	172996.9072 m.
E =	2706720.3629 m.
SET 5/8" X 30" I.R. w/ 2" ALUM. CAP 22' SE'LY OF PWR. POLE #055300985, 73' NW'LY OF PWR. POLE #055301287, 6' N'LY OF E.P. OF HWY. 237	



SEE SHEET 14



8/1998
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REGISTERED
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 LAND SURVEYOR

J. A. CL

OREGON
 JULY 15, 1983
 JOHN A. CARLSON
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RENEWS 12-31-1999

CONTROL NETWORK SURVEY

LA GRANDE -- BAKER HIGHWAY, UNION SECTION
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15 OF 15
 Sheet No.