

SURVEY DATA SHEETS

SURVEY CONTROL DATA

JOHNSTON COUNTY UNITED STATES HIGHWAY 377 (US-377)

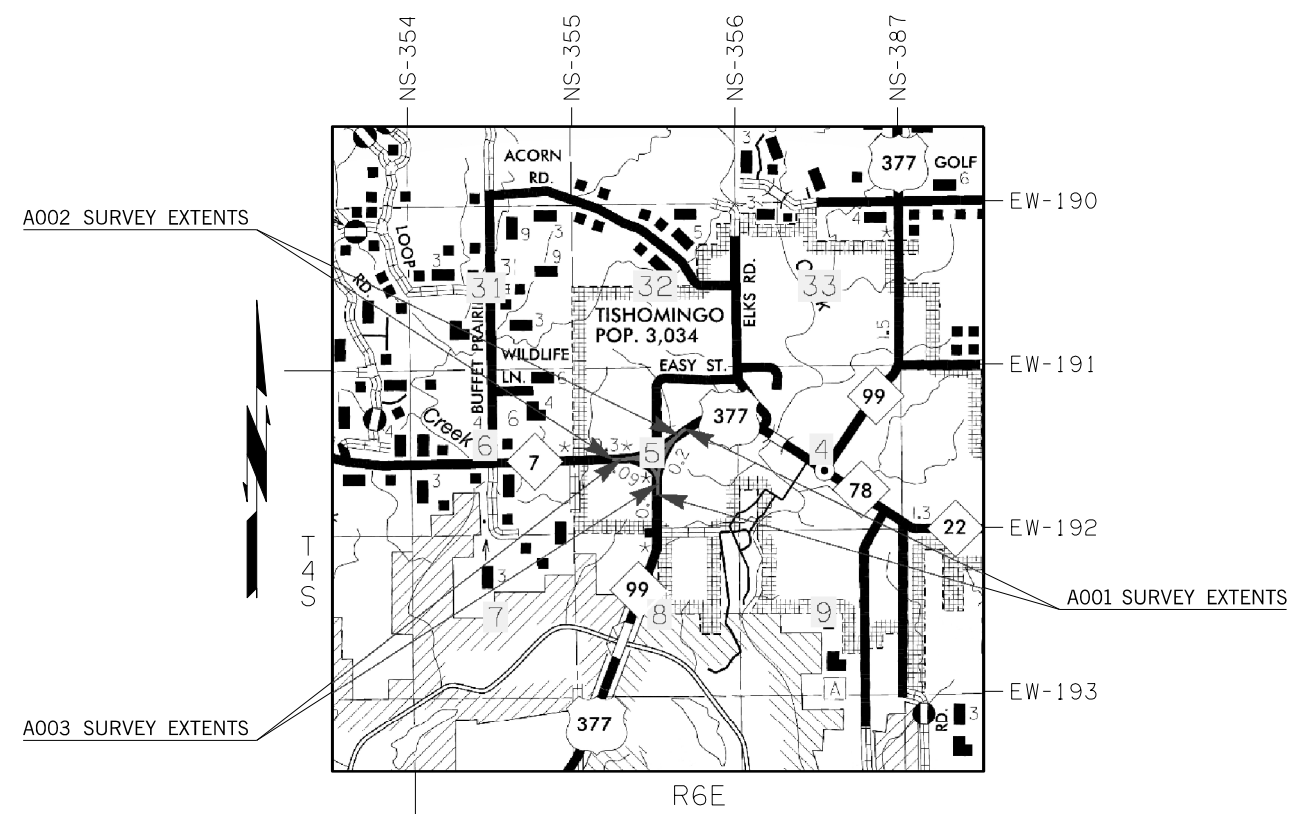
SWO 5656(1)
STATE JOB NO. JP36178(04)

US-377: AT THE JUNCTION OF SH-22

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SURVEY BEGAN: 08/21/2023	
SURVEY COMPLETED: 12/06/2023	
PERSONNEL:	
D.A. McPeck	Professional Land Surveyor
C.E. Harts	Professional Land Surveyor
E.A. Felder	Professional Land Surveyor
A.T. Ferguson	Professional Engineer
K.L. Belsival	Tech III
T.D. Lee	CAD Tech III
D.R. Tapp	CAD Tech III
A.C. Calton	CAD Tech II
EQUIPMENT:	
Topcon HiPer VR's	
Topcon PS Total Station	
Topcon DG-992 Digital Level	

1. POSITIONAL CONTROL:
 - A. POSITIONAL CONTROL FOR THIS SURVEY IS THE NGS OKLAHOMA STATE PLANE COORDINATE SYSTEM, NAD83 (2011), LAMBERT PROJECTION (SOUTH ZONE).
 - B. ACCURACY - THE POSITIONAL CONTROLS FOR THIS SURVEY MEETS OR EXCEEDS THE FOLLOWING ACCURACY CRITERIA:
 1. NETWORK ACCURACY: 0.10 FOOT
 2. LOCAL ACCURACY: 0.05 FOOT
2. BEARINGS:

THE BEARINGS SHOWN HEREIN OR HEREON ARE GRID BEARINGS DERIVED FROM THE NGS OKLAHOMA STATE PLANE COORDINATE SYSTEM AND ARE NOT ASTRONOMICAL. THE ANGLE OF VARIANCE BETWEEN GRID NORTH (GN) AND THE ASTRONOMICAL TRUE NORTH (TN) IS DEPICTED DIAGRAMMATICALLY.
3. VERTICAL CONTROLS:
 - A. LEVEL DATUM IS NAVD 88 FROM STATIC GPS.
 - B. ACCURACY - VERTICAL CONTROL FOR THIS SURVEY MEETS OR EXCEEDS THE FOLLOWING ACCURACY CRITERIA:
 1. NETWORK ACCURACY (FROM GPS OR LEVELING): 0.10 FOOT
 2. LOCAL ACCURACY (CONFIRMED BY LEVELING): 0.02 FOOT



UTILITIES CONTACTED		
UTILITY	CONTACT	PHONE
Electric Tran's Lines:		
OG&E Energy Corporation	Ashlee Sawyer	(405) 388-2718
ONEOK Gas	ONEOK Real Estate Services	(918)-588-7111
ONG	Cory Moddelmog	(405)-551-8889
Trace Fiber	Leroy Cooksey	(580)-235-8671
Johnston Co. RWD3	Not Provided	(580)-371-2141
Chickasaw Nation	Leroy Cooksey	(580)-235-8671
City of Tishomingo	Not Provided	(580)580-371-2141
AT&T Distribution	Joe Anderson	(539)-444-1026

STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION

SWO 5656 (1) Job/Piece 36178(04) Engr. Contract No. 2434
Task Order No. _____

LAND SURVEYOR'S CERTIFICATION


I hereby certify that all land and property sub-division distances, angles, corners, and monumentation made or used in conjunction with this survey and depicted or recorded herein or hereon were recovered, established or re-established in substantial conformity with:

- Applicable instructions contained in the U.S. Government Bureau of Land Management publication "Manual of Survey Instruction",
- Its supplement, "Restoration of Lost or Obliterated Corners and Sub-division of Sections",
- "Oklahoma Minimum Standards for the Practice of Land Surveying" as adopted by the State Board of Licensure for Professional Engineers and Land Surveyors; and
- Sound land surveying practices;

including a thorough search, study, analysis and consideration of all existing records and field evidence.

I further certify that all survey monuments depicted exist and that all land survey work was done by me or under my direct supervision.

Dated this 20th day of December, 2023.


 Land Surveyor _____
 Daniel A. McPeck
 Printed Name
 Oklahoma Licensed Land Surveyor No. 2029
 Certificate of Authorization No. 9205 Exp. 08/31/2024



SCALES	
SURVEY DATA SHEETS	1" = 50' TOWN
SURVEY DATA SHEETS	1" = 100'
GEOMETRIC DATA SHEETS	1" = 500'

PROJECT LENGTH 3965.50 Ft. 0.75 MI.

A001 US-377
 BEGINNING STATION : 1095+00.00
 ENDING STATION : 1119+00.00 (2400.00' LF)

A002 SH-22
 BEGINNING STATION : 2012+00.00
 ENDING STATION : 2035+16.15 (2316.15' LF)

A003 LT LEG of WYE
 BEGINNING STATION : 3000+00.00
 ENDING STATION : 3016+49.35 (1649.35' LF)

THIS SURVEY MEETS THE OKLAHOMA MINIMUM STANDARDS FOR THE PRACTICE OF LAND SURVEYING AS ADOPTED BY THE OKLAHOMA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS, SEPTEMBER 14, 2018.



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PLS	DAM	12-23	OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION	
DRAWN	TDL	12-23	<h3 style="margin: 0;">SURVEY DATA SHEET</h3> <p style="margin: 0;">SWO 5656(1)</p>	
CHECKED	CEH	12-23		
APPROVED				
CREW	BANCROFT			
COUNTRY <u>JOHNSTON</u> HIGHWAY <u>US-377</u> STATE JOB NO. <u>JP36178(04)</u> SHEET NO. <u>S001</u>				

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION (405)-521-2621 FAX 405-522-0364

Date: December 20, 2023

To Mr. Geoffrey King, Chief of Surveys
 From Daniel A. McPeck, Professional Land Surveyor
 Subject SWO 5656(1) – J/P No. 36178(04) – U.S. 377 – Johnston County
 Intersection modification at the junction of SH 22.

1. SURVEY ASSIGNMENT:
 This survey was assigned to me by Mr. King under E.C. 2434. All measurements are in U.S. Survey Feet.

2. PURPOSE OF SURVEY:
 The purpose of this survey was to furnish sufficient data to develop design and construction plans for intersection modification.

3. SURVEY LIMITS:
 The survey will extend 500' before the beginning of each intersection leg, 150' outside of the centerline of each leg and the entire region inside bounded by the three legs.

4. ALIGNMENT:

A001 US-377

The Centerline of Survey for this alignment will be along SAP-825(4) and SAP-375(2); the P.O.B. will be P.O.T. Sta. 1070+00.00 and stationing will be a continuation of as shown on SWO4647(1).

****Additional Evidence was found in this survey which caused a change in bearing from the forward tangent established under SWO4647(1) from P.I. Sta. 1077+78.73. Therefore, P.O.B. for this survey overlaps SWO4647(1) to an even station before the curve at P.I. Sta. 1077+78.73.**

- A. Found mag nail at P.I. Sta. 1077+78.73 established under SWO4647(1).
- B. Found 1/2" rebar at P.I. Station 15+50.64 from SAP-825(4).
- C. Held found P.I.'s for forward tangent from P.I. Sta. 1077+78.73.
- D. Established curve for right leg of wye by holding record radius and length from SAP-825(4) and SAP-375(2).
- E. Forward tangent from established curve fit with center of bridge along US-377/ W. Main Street over Pennington Creek.
- F. Curve passes through a found 80D spike found near the intersection of the established curve for A001 and the P.T. for the curve established for A002.
- G. Curve fits well with center of paving and center of crossing storm structures.
- H. Found 1/2" rebar as P.I. for centerline of Ray Branum Road. Monument fit within 0.10' of record distance from SAP-375(2) to established forward tangent.

SWO 5656(1) – US-377 – Johnston County
Historical Letter & Written Report
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A002 SH-22

The Centerline of Survey for this alignment will be along SWO2486(1), FAP No. F-89(13); the POB will be POT Sta. 2000+00.00 and stationing will be a continuation moving Easterly to a point where A002 intersects A001.

- A. Found 1/2" rebar and references for P.O.T. originally set at Section line crossing in FAP No. F-89(13) Sta. 562+33.50. Held P.O.T. for tangent.
- B. Found 1/2" rebar for P.I. of right leg of wye from FAP-89(13) Sta. 588+77.62. Held P.I. for tangent.
- C. Established curve for left leg of wye from FAP No. F-89(13) by holding record radius from the established back tangent to the intersection of the curve along A001.

A003 Left leg of wye

The Centerline of Survey for this alignment will be along SWO2486(1), FAP No. F-89(13) and SAP-825(4); the POB will be P.C. Sta. 3000+00.00 and stationing will be a continuation moving Northwesterly to a point where A003 intersects A002.

- A. Established curve by for left leg of wye by holding record radius from FAP-89(13) and SAP-825(4) between back tangent established for A001 and forward tangent established for A002.
- B. Found 1/2" rebar for P.I. of right leg of wye from FAP-89(13) Sta. 588+77.62 and P.I. of left leg of wye from SAP-825(4) Sta. 15+50.64.
- C. Found 1/2" rebar for P.C. Sta. 7+20.5 from SAP-825(4) and P.C. for Sta. 580+47.35 from FAP-89(13). Monument located 0.15' from established P.T.
- D. Forward tangent continues along tangent established for A002.

5. STATIONING:

A001

The stationing for this alignment was derived from assigning P.O.T. Sta. 1070+00.00 as established under SWO4647(1) and carried North-Easterly without equations.

A002

The stationing for this alignment was derived from assigning P.O.T. Sta. 2000+00.00 and carried Easterly without equations.

A003

The stationing for this alignment was derived from assigning P.O.T. Sta. 3000+00.00 and carried North-Westerly without equations.

6. HORIZONTAL CONTROL:

This project is on Oklahoma State Plane NAD 1983 (2011) South Zone. Using the provided ODOT stations: J-35-591, J-35-592, and J-35-593.

7. VERTICAL CONTROL:

Level datum is Mean Sea Level (NGS), NAVD 1988 datum. Elevations were established by differential leveling with a digital level from provided ODOT station: J-35-593.

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8. TOPOGRAPHY:

- A. Aerial LiDAR was performed on this project.
- B. Field work consisted of establishing centerline, obtaining topographic and level data to supplement the LiDAR data via break line method.
- C. All data obtained in the Field was recorded in a digital format and archived.

9. CROSS SECTION /DTM

A DTM has been made for this project by conventional field and Light Detection and Ranging (LiDAR) Methods.

10. LAND TIES:

Land ties for this survey were established for the following Sections:

T-04-S, R-06-E, I.M. – Section 05

A search was made for any trace of the original monuments and/or accessories. All filed certified corners received from the Oklahoma Department of Libraries were researched and noted.

The Original Government Survey and resurvey notes were used from the following surveys:

Surveyor:	Description:	Date:
Ehud Noble Darling	Original	8/15/1871
J.W. Riley	Original	1/03/1898
J.S. Gibson	Original	1/03/1898

NW Corner Section 5, T-4-S, R-6-E, I.M. - ODOT Sta. No. J-35-924. Found 6"x6" granite stone and references from previous CCR's filed by LS 1018, David L. Mayes, dated 10/14/97, and by LS 1471, Obert D. Bennett, dated 02/12/2007. Set additional references.

N Quarter Corner Section 5, T-4-S, R-6-E, I.M. - ODOT Sta. No. J-35-925. Found brass cap in concrete marked R6E, R35 1/4 S32, S5, T4S and references from previous CCR's filed by LS 1018, David L. Mayes, dated 10/14/1997, and by LS 1471, Obert D. Bennett, dated 05/31/2000. Set additional references.

NE Quarter Corner Section 5, T-4-S, R-6-E, I.M. - ODOT Sta. No. J-35-618(R). Found brass cap below surface of roadway and references from previous CCR's filed by LS 1471, Obert D. Bennett, dated 01/12/2017 and 05/31/2000. Also found but did not accept 1/2" rebar 2.9' Northwest of Brass cap from CCR's by PLS 1690, dated 04/25/2013 and by PLS 312, dated 08/15/1995. Brass cap has been used and accepted by local surveyors and appears to fit better with distances called out to East quarter corner in Highways plans "SAP No375(2)". Set none.

PLS	DAM	12-23	OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	TDL	12-23	
CHECKED	CEH	12-23	
APPROVED			
CREW	BANCROFT		
COUNTY JOHNSTON HIGHWAY US-377 STATE JOB NO. JP36178(04) SHEET NO. S002			SURVEY DATA SHEET SWO 5656(1)

E Quarter Corner Section 5, T-4-S, R-6-E, I.M. - ODOT Sta. No. J-35-625. Found 3/4" rebar from previous CCR's filed by PLS 1690, Darrel Ray Mason, dated 04/25/2013, and by PLS 1471, Obert D. Bennett, dated 05/31/2000, and by and by LS 312, Delbert L. Riddle, dated 08/15/1995. Previous references appear to have been removed by recent clearing in the area. Used existing nearby reference nails, not shown on previous corner records, as new references for corner.

Center of Section 5, T-4-S, R-6-E, I.M. - ODOT Sta. No. J-35-926. Found rail road spike and references from previous CCR's filed by PLS 1471, Obert D. Bennett, dated 12/12/2007 and on 06/26/2000. Set additional references.

W Corner Section 5, T-4-S, R-6-E, I.M. - ODOT Sta. No. J-35-927. Found 3/4" rebar and reference from previous CCR filed by PLS 1566, David L. Page, dated 12/26/2019. Monument agrees with that used in CCR by PLS 1471, Obert D. Bennett, dated 11/05/2001. Set additional references.

SW Corner Section 5, T-4-S, R-6-E, I.M. - ODOT Sta. No. J-35-576. Found 3/4" rebar and references matching previous CCR's filed by PLS 1530, Chris Cauthon, dated 10/17/2012, and by PLS 1471, Obert D. Bennett, dated 02/12/2007. Set additional references.

S Quarter Corner Section 5, T-4-S, R-6-E, I.M. - ODOT Sta. No. J-35-577(R). Found references from previous CCR's filed by LS 1530, Christ A. Cauthon, dated 10/17/2012 and by PLS 1471, Obert D. Bennett, dated 02/12/2007. Also, found mag nail set as centerline POT for SWO4647(1). Set mag nail with "Bancroft CA9205" washer using survey information from SWO4647(1) and found references. Set additional reference.

SE Corner Section 5, T-4-S, R-6-E, I.M. - ODOT Sta. No. J-35-626. Found 2.5" brass cap "LS 201 D.R. Griffin" and references from previous CCR filed by PLS 1719, Carey E. Harris, dated 05/29/2018. Monument was also accepted on CCR's filed by PLS 1690, Darrel Ray Mason, dated 04/29/2013, and PLS 1530, Chris A. Cauthon, dated 10/17/2012, and PLS 1471, Obert D. Bennett, dated 07/16/2002, and PLS 201, Dick R. Griffin, dated 06/04/2011. ODOT assigned station J-35-578 for SWO4647(1) and station J-35-626 for SWO4863(1). Set none.

11. RIGHT-OF-WAY:
 Existing right of way is as shown on this survey and is based on established right of way surveyed under and shown on SAP-825(4), SAP-375(2), FAP-89(13), and right-of-way documents found in the Johnston County clerks office.

12. UTILITIES:
 A. SUE level B was performed by Universal Surveying and Mapping for underground utilities.
 B. Sanitary and Overhead Electric were collected by field crews.
 (Note: Not responsible for utility owner's incorrect or unmarked utility lines.)

13. ENVIRONMENTAL CONCERNS:
 1. Oklahoma Department of Transportation facility with gas pumps and underground storage tanks located between Sta. 1093+77.41 to Sta. 1095+97.06 Right of A001.

14. DRAINAGE INFORMATION:
 Drainage areas for all drains crossing the Survey Centerline were taken from Streamstats maps and brought into an OpenRoads Design file. These areas (divide lines) were field checked for accuracy prior to submittal of the project.

15. EQUIPMENT USED:
 All data was obtained with Topcon Hiper VR's RTK, Topcon PS Total Station, and Topcon DL-503 Digital Level

16. TIME CHARGES:
 This survey began August 21, 2023, and was completed July 28, 2023. A total of 988 hours was spent.

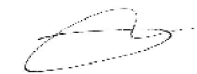
17. DATA SUBMITTED:
 A. REPORTS:
 1. Historical Letter and Written Report
 2. ODOT form SD-1, Transmittal Letter
 3. ODOT form SD-7, Public and Private Owned Utilities
 4. ODOT form SD-20, Survey Control Data Statement
 5. ODOT form SD-41, Surveyor's Certification
 6. Alignment Report
 7. Hydraulics Report
 8. Cogo Data
 9. Benchmarks and Check Levels list
 10. OSSDA Field Verification Form
 11. GPS on Benchmark

B. COMPUTER FILES:
 1. SWO5656_1_v1.dgn
 2. SWO5656_1_v1_topo.dgn
 3. SWO5656_1_v1_dra.dgn
 4. SWO5656_1_v1_Cogo.txt

16. PERSONNEL:
 Other than myself, the following listed personnel worked on this survey:

C.E. Harris	Professional Land Surveyor
K.A. Felder	Professional Land Surveyor
A.J. Ferguson	Professional Engineer
K.L. Belveal	Tech III
T.D. Lee	CAD Tech III
D.R. Tapp	CAD Tech III
A.C. Calvin	CAD Tech II

SURVEY INFORMATION USED:
 A. SWO's
 SWO4647(1)
 SWO2486(1)
 B. Plans
 SAP-825(4)
 SAP-375(2)
 FAP-89(13)



Daniel A. McPeck
 Professional Land Surveyor

PLS	DAM	12-23	OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	TDL	12-23	
CHECKED	CEH	12-23	
APPROVED			
CREW	BANCROFT		
COUNTY	JOHNSTON	HIGHWAY US-377 STATE JOB NO. JP36178(04) SHEET NO. S003	

SURVEY DATA SHEET

SWO_5656(1)

COORDINATE POINT LIST
SWO 5656(1)

Job Piece 36178(04)
Page 1 of 2

Pt No.	EASTING	NORTHING	ELEVATION	Pt No.	EASTING	NORTHING	ELEVATION	Pt No.	EASTING	NORTHING
1	330083.9377610	2362272.5225410	698.0573	325	2362249.9011849	330292.4703834		7634	2363300.4366500	331946.0495299
2	330403.4761720	2362299.7557420	702.5830	326	2363132.7180324	332404.0651650		7635	2364203.8177889	332120.1257141
3	331057.6286690	2362197.8381080	708.2158	327	2360787.1001987	331423.0573167		7636	2364855.2704693	332245.6567794
4	331638.5595540	2362501.6330090	703.1760	328	2362183.8122156	331708.5766997		7637	2364856.3631984	332184.7635645
5	331492.5768720	2361221.0035940	719.5520	329	2362243.8964982	330664.9008092		7638	2362775.5449885	331783.8022445
6	331443.1164600	2361675.5058080	713.2370					7639	2362574.8797817	331712.5347602
7	331494.4238890	2361691.9255060	713.8913	7600	2359645.0635935	329058.2019814		7640	2362294.2000338	330627.8242214
8	331813.3235730	2362210.1907100	713.3818	7601	2362220.4196358	329086.6373666		7641	2362308.6437186	329779.2939863
9	331883.2647130	2362584.3802650	700.3648	7602	2362213.6271584	329485.6783644		7642	2362318.6426662	329779.4409140
10	332001.0268540	2362754.7978040	696.6695	7603	2362203.6286068	329485.5081691		7643	2362327.0870883	329283.3523118
11	332324.5410830	2363075.7078360	706.3135	7604	2362200.2246992	329685.4792005		7644	2362317.0884377	329283.1879334
				7605	2362210.2232507	329685.6493959		7645	2362320.4154974	329087.7315231
7401	331362.5877650	2360618.9678210	713.2905	7606	2362197.0021570	330462.3554690		7646	2362776.2478263	331714.5792619
7402	332586.4766880	2363300.4243250	717.0733	7607	2362159.0316158	330636.5694505				
7400	330060.9942000	2362272.4416000	697.7890	7608	2361402.7338551	331357.2391991		8000	2361550.7006616	334337.0773635
				7609	2359605.6710472	331301.1254764		8001	2361570.2031684	333296.0600283
301	2362148.0721712	328218.1501873		7610	2359598.9624780	331683.0964016		8002	2361883.1897212	333298.9613760
302	2360363.4930986	328898.4756633		7611	2359602.5098935	331481.1144987		8003	2361888.3110390	333025.5923827
303	2362273.0764690	328930.9805985		7612	2360681.7632028	331514.8144454		8004	2359570.9226740	332341.8013495
304	2362279.3486638	328562.5048966		7613	2360503.8791316	337211.6178854		8005	2359805.9187484	332344.0833421
305	2362270.6983095	329070.6915048		7614	2361673.7331821	331633.3875498		8006	2360231.6123024	332348.2171538
306	2362244.2072759	330626.9732445		7615	2361900.7494547	331705.7863930		8007	2360314.1985567	332349.0191298
307	2364392.4860681	330663.5412541		7616	2362223.8943832	331822.3076862		8008	2360396.7847659	332349.8211054
308	2362899.7584113	332208.9224792		7617	2362201.2846802	333029.1829282		8009	2360561.9571843	332351.4250565
309	2362228.3191593	331560.3602183		7618	2362251.2840753	333029.6835318		8010	2360892.3018407	332354.6329571
310	2365589.3770952	332447.8873128		7619	2362273.4711640	331845.3668608		8011	2361904.5259731	332160.0612161
311	2364148.0547018	333414.6873523		7620	2362858.0735578	332252.0776989		8012	2362008.8209060	332161.0893091
312	2365695.1419164	332376.9431342		7621	2364235.4073570	332866.5383187		8013	2362012.0684514	331987.7397480
313	2359587.6847808	331385.6052790		7622	2364234.6961398	332876.5129951		8014	2362123.7543265	331989.1171674
314	2361059.2765209	331431.5560885		7623	2364389.4496156	332882.1291762		8015	2362220.7469504	331990.3133754
315	2360972.7079801	334203.9457559		7624	2364389.4633020	332872.1291856		8016	2362126.3159486	331852.3812557
316	2362129.5707107	331464.9762846		7625	2364844.8686904	332825.3043658		8017	2362223.3130697	331853.3374102
317	2362244.0193042	330638.0161112		7626	2364847.0803396	332702.0584202		8018	2362016.6877448	331741.1681378
318	2361425.6267597	330624.0854303		7627	2364098.9800789	332731.4054717		8019	2360681.4847838	331846.4020687
319	2361400.0810025	331442.1977912		7628	2364103.1959277	332701.7031718		8020	2360741.2001136	331807.3577019
320	2362229.8894640	331468.1087620		7629	2363915.0014558	332665.9900632		8021	2359817.4582603	331685.2502357
321	2362270.6983095	329070.6915048		7630	2363908.0430336	332695.1719131		8022	2360243.3514013	331689.4485008
322	2362517.0439260	331711.9475493		7631	2362775.1934699	331985.1209302		8023	2360325.9624777	331690.2628440
323	2364845.9736632	332763.7288622		7632	2362801.2573899	331849.8606490		8024	2360408.5735541	331691.0771872
324	2362225.6365646	331729.3124056		7633	2364912.8629893	329115.8344047		8025	2360573.7142443	331692.7050706

PLS	DAM	12-23	OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	TDL	12-23	
CHECKED	CEH	12-23	
APPROVED			
CREW	BANCROFT		
COUNTY JOHNSTON HIGHWAY US-377 STATE JOB NO. JP36178(04) SHEET NO. S004			SURVEY DATA SHEET SWO 5656(1)

COORDINATE POINT LIST
SWO 5656(1)

Job Piece 36178(04)
Page 2 of 2

Pt No.	EASTING	NORTHING	Pt No.	EASTING	NORTHING	Pt No.	EASTING	NORTHING
8026	2360659.2898608	331693.5486369	8066	2362920.1712499	329737.3151275	8106	2362775.6300512	332176.3466480
8027	2360684.2507006	331693.7946898	8067	2362912.4874304	330177.2581912	8107	2362256.2543422	332764.3774340
8028	2360743.2478342	331694.3762573	8068	2362301.9804396	330170.7449020	8108	2362764.9874677	332769.4132649
8029	2360904.2400125	331695.9632465	8069	2362298.2420504	330390.3658875	8109	2363424.9874677	332775.9464514
8030	2361372.9772391	331700.5838494	8070	2362908.6534920	330396.7733195	9000	2359536.3023260	334318.4041330
8031	2361473.0538174	331701.5703598	8071	2363568.7003665	330403.7017700	9001	2362176.6737670	334342.8800590
8032	2361673.0441009	331703.5417750	8072	2363562.8299543	330733.3729948	9002	2364817.1667470	334369.0176850
8033	2359820.9237233	331487.9345236	8073	2362294.6602501	330720.1700945	9003	2364864.4202000	331735.7806000
8034	2360246.6365032	331501.2275085	8074	2363554.8050123	331184.0385257	9004	2362226.0172350	331708.9927380
8035	2360329.2142334	331503.8060182	8075	2363137.4065254	331179.8006541	9005	2359582.4627900	331682.9337550
8036	2360411.7920117	331506.3845294	8076	2363551.0891298	331392.7154443	9006	2359628.8540000	329041.5220000
8037	2360576.9477128	331511.5415563	8077	2363133.6912820	331388.4416806	9007	2362271.1960000	329070.6970000
8038	2360662.5014048	331514.2129911	8078	2362779.5959317	331384.8160754	9008	2364913.1680310	329099.3367420
8039	2360784.4336239	331518.9470401	8079	2362420.3971785	331381.1382161			
8040	2360907.0984958	331526.3187445	8080	2363036.5144119	331717.2217640			
8041	2361375.0590757	331579.0112347	8081	2363240.5038982	331719.2928813			
8042	2361474.1021318	331595.2240685	8082	2363340.4987444	331720.3081350			
8043	2361673.7356450	331633.3880663	8083	2363545.2187175	331722.3866690			
8044	2360830.4126775	331339.3683313	8084	2363337.2814017	331892.0455176			
8045	2360910.3814007	331341.8653741	8085	2363237.6236143	331872.8420534			
8046	2361240.6842830	331352.1791619	8086	2363212.7153378	331868.0423763			
8047	2361650.8453620	331322.1650210	8087	2363035.3301639	331833.8613060			
8048	2361961.1254003	331125.3635365	8088	2363300.4366500	331946.0495299			
8049	2361687.2697446	331082.3833269	8089	2363408.4496122	331966.8629867			
8050	2361246.5446205	331013.2138290	8090	2363516.4625745	331987.6764435			
8051	2359622.1579116	330362.4002861	8091	2363624.4755367	332008.4899004			
8052	2360847.1349729	330375.2004540	8092	2364203.8177889	332120.1257141			
8053	2360927.1325063	330376.0363733	8093	2363595.8793248	332155.7390235			
8054	2361257.5010341	330379.4884972	8094	2363487.8663626	332134.9255667			
8055	2361948.2371311	330386.7062144	8095	2363379.8534003	332114.1121099			
8056	2362198.2453904	330389.3186288	8096	2363271.8404381	332093.2986531			
8057	2361950.8136790	330236.7249487	8097	2363240.4469085	332254.9518719			
8058	2361920.8146376	330236.4114793	8098	2362951.2802134	332126.7693260			
8059	2361926.1353504	329926.6919293	8099	2362923.8388253	332114.6050379			
8060	2361896.1364616	329926.3695825	8100	2362908.1992951	332132.9292096			
8061	2361898.7129511	329776.3917118	8101	2362929.4727074	332154.1116465			
8062	2361928.7118400	329776.7140586	8102	2363509.5377283	332556.3197455			
8063	2361929.5706698	329726.7214350	8103	2363576.9969585	332404.1386314			
8064	2362209.4729264	329729.7290668	8104	2364103.3496443	332637.4615847			
8065	2362319.4688202	329730.9064398	8105	2363427.2359496	332650.0361564			

PLS	DAM	12-23	OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	TDL	12-23	
CHECKED	CEH	12-23	
APPROVED			
CREW	BANCROFT		
COUNTY JOHNSTON HIGHWAY US-377 STATE JOB NO. JP36178(04) SHEET NO. S005			SURVEY DATA SHEET SWO 5656(1)

Project Name: EC-2434 US-377 & SH-22_v1
 Description: US-377: at the Junction of SH-22
 Horizontal Alignment Name: A001 US-377
 Description: CL US-377
 Style: Centerline

	STATION	EASTING	NORTHING
Element: Linear			
P.O.B. (300)	1070+00.00	2362001.9505	327834.8547
P.C. (301)	1074+10.20	2362148.0722	328218.1502
Tangent Direction: N 20°52'05.0811" E			
Tangent Length: 410.2036			
Element: Circular			
P.C. (301)	1074+10.20	2362148.0722	328218.1502
P.I. (304)	1077+78.73	2362279.3487	328562.5049
C.C. (302)	1081+38.31	2362273.0765	328930.9806
P.T. (303)	1081+38.31	2362273.0765	328930.9806
Radius: 1909.8600			
Delta: 21°50'35.7823" Left			
Degree of Curvature (Arc): 2°59'59.9961"			
Length: 728.1094			
Tangent: 368.5291			
Chord: 723.7080			
Middle Ordinate: 34.5928			
External: 35.2310			
Tangent Direction: N 20°52'05.0811" E			
Radial Direction: S 69°07'54.9189" E			
Chord Direction: N 9°56'47.1899" E			
Radial Direction: N 89°01'29.2987" E			
Tangent Direction: N 0°58'30.7013" W			
Element: Linear			
P.T. (303)	1081+38.31	2362273.0765	328930.9806
P.C. (306)	1098+34.55	2362244.2073	330626.9732
Tangent Direction: N 0°58'30.7013" W			
Tangent Length: 1696.2383			
Element: Circular			
P.C. (306)	1098+34.55	2362244.2073	330626.9732
P.I. (309)	1107+68.07	2362228.3192	331560.3602
C.C. (307)	1115+95.85	2364392.4861	330663.5413
P.C.C. (308)	1115+95.85	2362899.7584	332208.9225
Radius: 2148.5900			
Delta: 46°58'05.1258" Right			
Degree of Curvature (Arc): 2°40'00.0077"			
Length: 1761.3020			
Tangent: 933.5222			
Chord: 1712.3991			
Middle Ordinate: 177.9654			
External: 194.0373			
Tangent Direction: N 0°58'30.7013" W			
Radial Direction: N 89°01'29.2987" E			
Chord Direction: N 22°30'31.8616" E			
Radial Direction: S 44°00'25.5755" E			
Tangent Direction: N 45°59'34.4245" E			
Element: Circular			
P.C.C. (308)	1115+95.85	2362899.7584	332208.9225
P.I. (311)	1133+31.40	2364148.0547	333414.6874

C.C. (307)	1145+15.59	2364392.4861	330663.5413
P.T. (310)	1145+15.59	2365589.3771	332447.8873
Radius: 2148.5900			
Delta: 77°51'35.0764" Right			
Degree of Curvature (Arc): 2°40'00.0077"			
Length: 2919.7380			
Tangent: 1735.5439			
Chord: 2700.2135			
Middle Ordinate: 477.1682			
External: 613.3933			
Tangent Direction: N 45°59'34.4245" E			
Radial Direction: S 44°00'25.5755" E			
Chord Direction: N 84°55'21.9627" E			
Radial Direction: S 33°51'09.5009" W			
Tangent Direction: S 56°08'50.4991" E			
Element: Linear			
P.T. (310)	1145+15.59	2365589.3771	332447.8873
P.O.E. (312)	1146+42.95	2365695.1419	332376.9431
Tangent Direction: S 56°08'50.4991" E			
Tangent Length: 127.3549			

PLS	DAM	12-23	OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	TDL	12-23	
CHECKED	CEH	12-23	
APPROVED			
CREW	BANCROFT		
COUNTY JOHNSTON HIGHWAY US-377 STATE JOB NO. JP36178104 SHEET NO. S006			SURVEY DATA SHEET SWO_5656(1)

Project Name: EC-2434 US-377 & SH-22_v1
 Description: US-377: at the Junction of SH-22
 Horizontal Alignment Name: A002 SH-22
 Description: CL SH-22
 Style: Centerline

	STATION	EASTING	NORTHING
Element: Linear			
P.O.B. (313)	2000+00.00	2359587.6848	331385.6053
P.C. (314)	2014+72.31	2361059.2765	331431.5561
Tangent Direction: N 88°12'41.4234" E			
Tangent Length: 1472.3090			
Element: Circular			
P.C. (314)	2014+72.31	2361059.2765	331431.5561
P.I. (316)	2025+43.13	2362129.5710	331464.9763
C.C. (315)	2360972.7080	334203.9458	
P.T. (308)	2035+16.15	2362899.7584	332208.9225
Radius: 2773.7411			
Delta: 42°13'07.0381" Left			
Degree of Curvature (Arc): 2°03'56.3394"			
Length: 2043.8421			
Tangent: 1070.8155			
Chord: 1997.9169			
Middle Ordinate: 186.1318			
External: 199.5207			
Tangent Direction: N 88°12'41.4233" E			
Radial Direction: S 1°47'18.5767" E			
Chord Direction: N 67°06'07.9505" E			
Radial Direction: S 44°00'25.6148" E			
Tangent Direction: N 45°59'34.3852" E			

Project Name: EC-2434 US-377 & SH-22_v1
 Description: US-377: at the Junction of SH-22
 Horizontal Alignment Name: A003 LT LEG of WYE
 Description: CL
 Style: Centerline

	STATION	EASTING	NORTHING
Element: Linear			
P.O.B. (306)	3000+00.00	2362244.2073	330626.9732
P.C. (317)	3000+11.04	2362244.0193	330638.0161
Tangent Direction: N 0°58'30.7013" W			
Tangent Length: 11.0445			
Element: Circular			
P.C. (317)	3000+11.04	2362244.0193	330638.0161
P.I. ()	3008+41.26	2362229.8895	331468.1088
C.C. (318)	2361425.6268	330624.0854	
P.T. (319)	3013+08.38	2361400.0810	331442.1978
Radius: 818.5111			
Delta: 90°48'47.8754" Left			
Degree of Curvature (Arc): 7°00'00.0011"			
Length: 1297.3328			
Tangent: 830.2129			
Chord: 1165.7358			
Middle Ordinate: 243.8587			
External: 347.3422			
Tangent Direction: N 0°58'30.7013" W			
Radial Direction: N 89°01'29.2987" E			
Chord Direction: N 46°22'54.6390" W			
Radial Direction: N 1°47'18.5767" W			
Tangent Direction: S 88°12'41.4233" W			
Element: Linear			
P.T. (319)	3013+08.38	2361400.0810	331442.1978
P.O.E. (314)	3016+49.35	2361059.2765	331431.5561
Tangent Direction: S 88°12'41.4234" W			
Tangent Length: 340.9706			

PLS	DAM	12-23	OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	TDL	12-23	
CHECKED	CEH	12-23	
APPROVED			
CREW	BANCROFT		
COUNTY JOHNSTON HIGHWAY US-377 STATE JOB NO. JP36178(04) SHEET NO. S007			SURVEY DATA SHEET SWO_5656(1)

CHECK LEVELS					SWO5656(1) - J/P 36178(04)		BENCHMARKS LIST		NAVD 88 DATUM	
BM NO.	RUN 1	RUN 2	MEAN DIFF.	ADJ. DIFF.	ADJ. ELEV.	PUBLISHED ELEVATION	BM DESCRIPTION, STA/OFFSET	Page 1 of 2		
Control Point J-35-583						697.789	5/8" Rebar w/Orange plastic cap from SWO 4647(1) A001 Sta. 1092+88.32 Offset 19.2' Rt.			
to	0.269	0.268	0.269	0.268						
BM 1					688.0573		3/4" Rebar w/cap "Bancroft Benchmark" A001 Sta. 1092+91.11 Offset 19.1' Rt.			
to	4.525	4.526	4.526	4.526						
BM 2					702.5830		3/4" Rebar w/cap "Bancroft Benchmark" A001 Sta. 1096+10.14 Offset 51.7' Rt.			
to	5.635	5.632	5.634	5.633						
BM 3					708.2158		3/4" Rebar w/cap "Bancroft Benchmark" A001 Sta. 1102+52.87 Offset 81.2' Lt.			
to	-5.036	-5.041	-5.039	-5.040						
BM 4					703.1760		Mag Nail w/washer "Bancroft Benchmark" A001 Sta. 1106+94.39 Offset 21.6' Rt.			
to	10.119	10.113	10.116	10.115						
Control Point J-35-928					713.2905	713.2905	3/4" Rebar w/cap "Bancroft Benchmark" A002 Sta. 2010+29.57 Offset 55.7' Rt.			
to	6.263	6.261	6.262	6.262						
BM 5					719.5520		3/4" Rebar w/cap "Bancroft Benchmark" A002 Sta. 2016+39.03 Offset 51.0' Lt.			
to	-6.315	-6.315	-6.315	-6.315						
BM 6					713.2370		Mag Nail w/washer "Bancroft Benchmark" A002 Sta. 2020+77.13 Offset 75.1' Rt.			
to	0.655	0.654	0.655	0.654						
BM 7					713.8913		Mag Nail w/washer "Bancroft Benchmark" A002 Sta. 2021+05.39 Offset 29.6' Rt.			
to	-0.508	-0.510	-0.509	-0.510						
BM 8					713.3818		3/4" Rebar w/cap "Bancroft Benchmark" A002 Sta. 2027+10.63 Offset 81.8' Lt.			
to	-13.017	-13.017	-13.017	-13.017						
BM 9					700.3648		Mag Nail w/washer "Bancroft Benchmark" A001 Sta. 1111+46.24 Offset 32.5' Lt.			
to	-3.696	-3.696	-3.696	-3.696						
BM 10					696.6695		Mag Nail w/washer "Bancroft Benchmark" A001 Sta. 1113+42.55 Offset 34.1' Rt.			
to	9.644	9.644	9.644	9.644						

CHECK LEVELS					SWO5656(1) - J/P 36178(04)		BENCHMARKS LIST		NAVD 88 DATUM	
BM NO.	RUN 1	RUN 2	MEAN DIFF.	ADJ. DIFF.	ADJ. ELEV.	PUBLISHED ELEVATION	BM DESCRIPTION, STA/OFFSET	Page 2 of 2		
BM 11					706.3135		Mag Nail w/washer "Bancroft Benchmark" A001 Sta. 1118+06.26 Offset 28.9' Rt.			
to	10.762	10.759	10.761	10.760						
Control Point J-35-929					717.0733	717.0733	3/4" Rebar w/cap "Bancroft Benchmark" A001 Sta. 1121+36.39 Offset 62.8' Rt.			
to	-19.300	-19.279	-19.290	-19.284						
Control Point J-35-593					697.7890	697.7890	5/8" Rebar w/Orange plastic cap from SWO 4647(1) A001 Sta. 1092+88.32 Offset 19.2' Rt.			

PLS	DAM	12-23	OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	TDL	12-23	
CHECKED	CEH	12-23	
APPROVED			
CREW	BANCROFT		
COUNTY JOHNSTON HIGHWAY US-377 STATE JOB NO. JP36178(04) SHEET NO. S008			SURVEY DATA SHEET SWO_5656(1)_

STATE OF OKLAHOMA
DEPARTMENT OF HIGHWAYS
SURVEY DIVISION
POSITION AND DESCRIPTION OF SURVEY MONUMENTS

S.D. FORM NO. 11
REVISED 03/01/2016

COUNTY JOHNSTON Monument Number J-35-928 SWO 5656(1) DATE 12/20/2023

TYPE OF MONUMENT 3/4" REBAR W/GAP BANCROFT MONUMENT SET FOR HORIZONTAL & VERTICAL CONTROL

WRITTEN DESCRIPTION OF LOCATION: LOCATED APPROXIMATELY 1030' EAST OF THE INTERSECTION OF SH22 AND SOUTH HERITAGE LANE AND 54' SOUTH OF THE CENTERLINE OF SH22, AND APPROXIMATELY 57' WEST OF THE WEST EDGE OF A GRAVEL DRIVE. ADD2 STA. 2010+29.57 OFFSET 55.7' RT.

ESTABLISHED BY: BANCROFT DESIGN

COORDINATE SYSTEM: NAD83 (2011) ZONE: OK SOUTH
COORDINATES (FEET) X 2360818.9678 Y 331382.5878

GEODETIC POSITION

LATITUDE 034° 14' 13.00" NORTH
LONGITUDE 098° 42' 09.33" WEST
ELLIPSOIDAL HEIGHT 628.838'

METHOD USED TO ESTABLISHED: MULTIPLE RTK SHOTS AVERAGED, USING ODOT CONTROL STATIONS J-35-592 AND J-35-593 ESTABLISHED UNDER SWO4647(1).

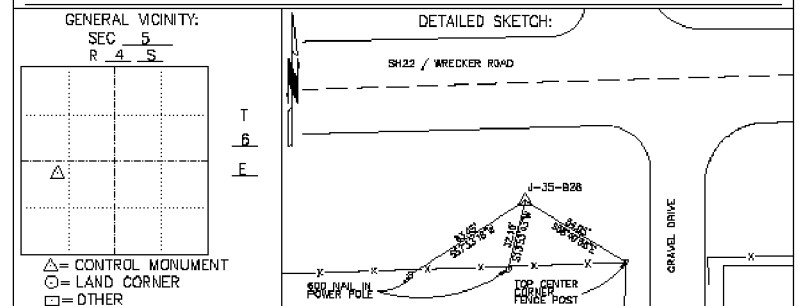
SOURCE: NAD83 (2011)

ORTHOMETRIC HEIGHT

713.291 FEET GEOID MODEL: GEOD18 GEOID SEPARATION: 84.453 FEET

METHOD USED TO ESTABLISHED: DIFFERENTIAL LEVELING WITH DIGITAL LEVEL FROM ODOT STATION J-35-593 ESTABLISHED UNDER SWO4647(1).

SOURCE: NAVDB88



STATE OF OKLAHOMA
DEPARTMENT OF HIGHWAYS
SURVEY DIVISION
POSITION AND DESCRIPTION OF SURVEY MONUMENTS

S.D. FORM NO. 11
REVISED 03/01/2016

COUNTY JOHNSTON Monument Number J-35-929 SWO 5656(1) DATE 12/20/2023

TYPE OF MONUMENT 3/4" REBAR W/GAP BANCROFT MONUMENT SET FOR HORIZONTAL & VERTICAL CONTROL

WRITTEN DESCRIPTION OF LOCATION: LOCATED IN AN ISLAND BETWEEN US377 AND GRAVEL LOT FOR JOHNSTON COUNTY FEED STORE AND BETWEEN TWO GRAVEL DRIVES. ADD1 STA. 1118+06.28 OFFSET 28.9' LT.

ESTABLISHED BY: BANCROFT DESIGN

COORDINATE SYSTEM: NAD83 (2011) ZONE: OK SOUTH
COORDINATES (FEET) X 2363300.4243 Y 332686.4787

GEODETIC POSITION

LATITUDE 034° 14' 24.78" NORTH
LONGITUDE 098° 41' 37.21" WEST
ELLIPSOIDAL HEIGHT 632.745'

METHOD USED TO ESTABLISHED: MULTIPLE RTK SHOTS AVERAGED, USING ODOT CONTROL STATIONS J-35-592 AND J-35-593 ESTABLISHED UNDER SWO4647(1).

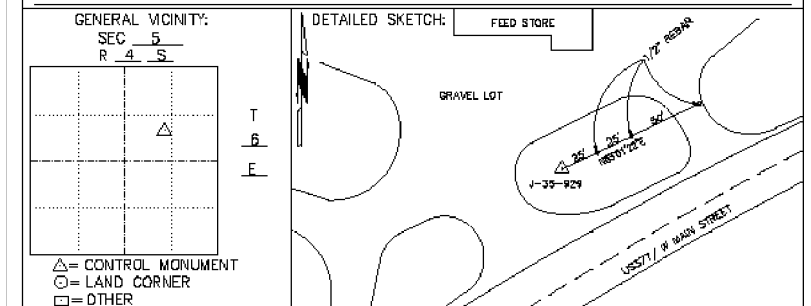
SOURCE: NAD83 (2011)

ORTHOMETRIC HEIGHT

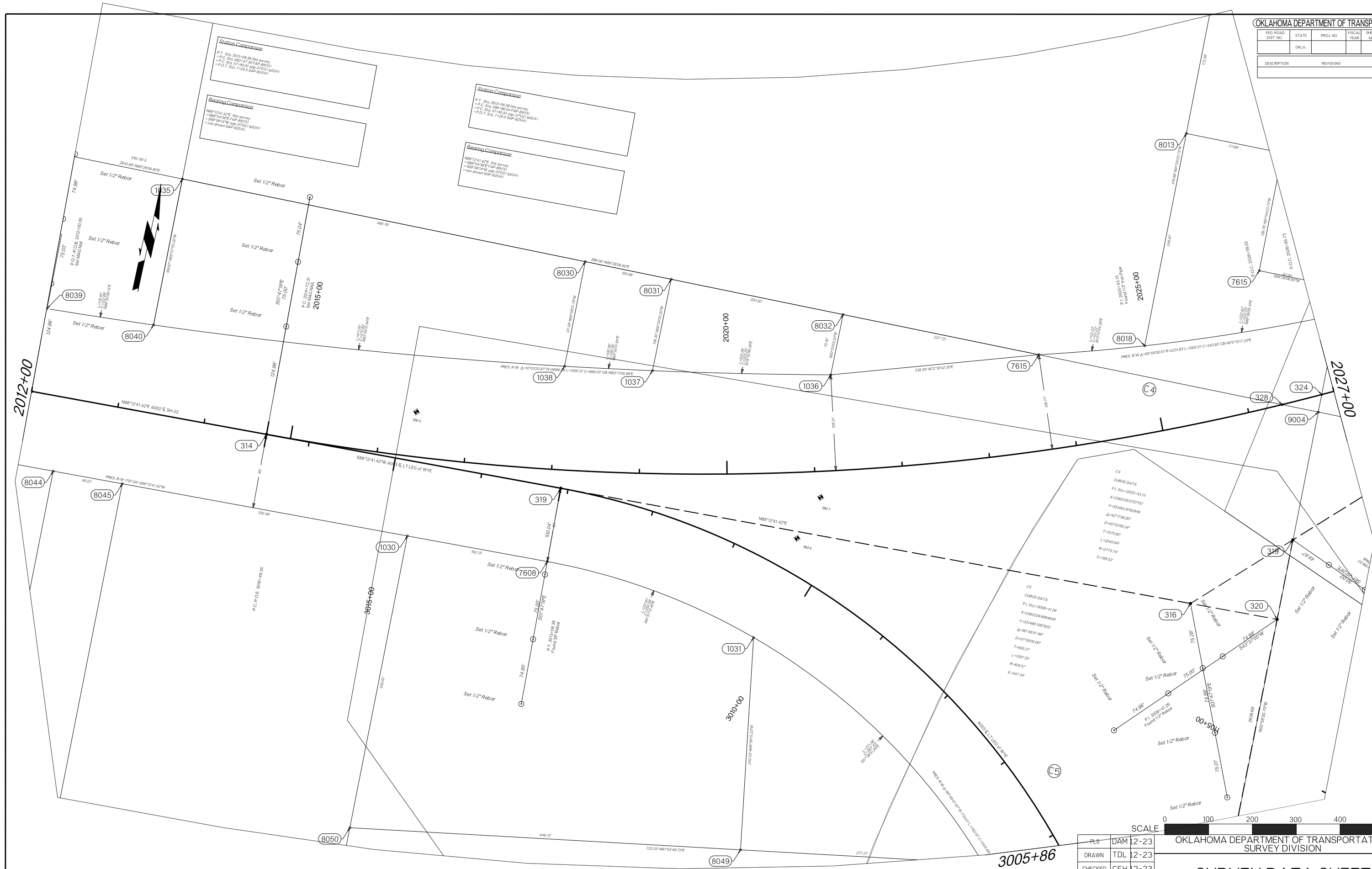
717.073 FEET GEOID MODEL: GEOD18 GEOID SEPARATION: 84.328 FEET

METHOD USED TO ESTABLISHED: DIFFERENTIAL LEVELING WITH DIGITAL LEVEL FROM ODOT STATION J-35-593 ESTABLISHED UNDER SWO4647(1).

SOURCE: NAVDB88



PLS	DAM	12-23	OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	TDL	12-23	
CHECKED	CEH	12-23	
APPROVED			
CREW	BANCROFT		
COUNTY <u>JOHNSTON</u> HIGHWAY <u>US-377</u> STATE JOB NO. <u>JP36178104</u> SHEET NO. <u>S009</u>			SURVEY DATA SHEET SWO <u>5656(1)</u>



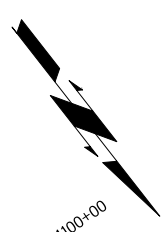
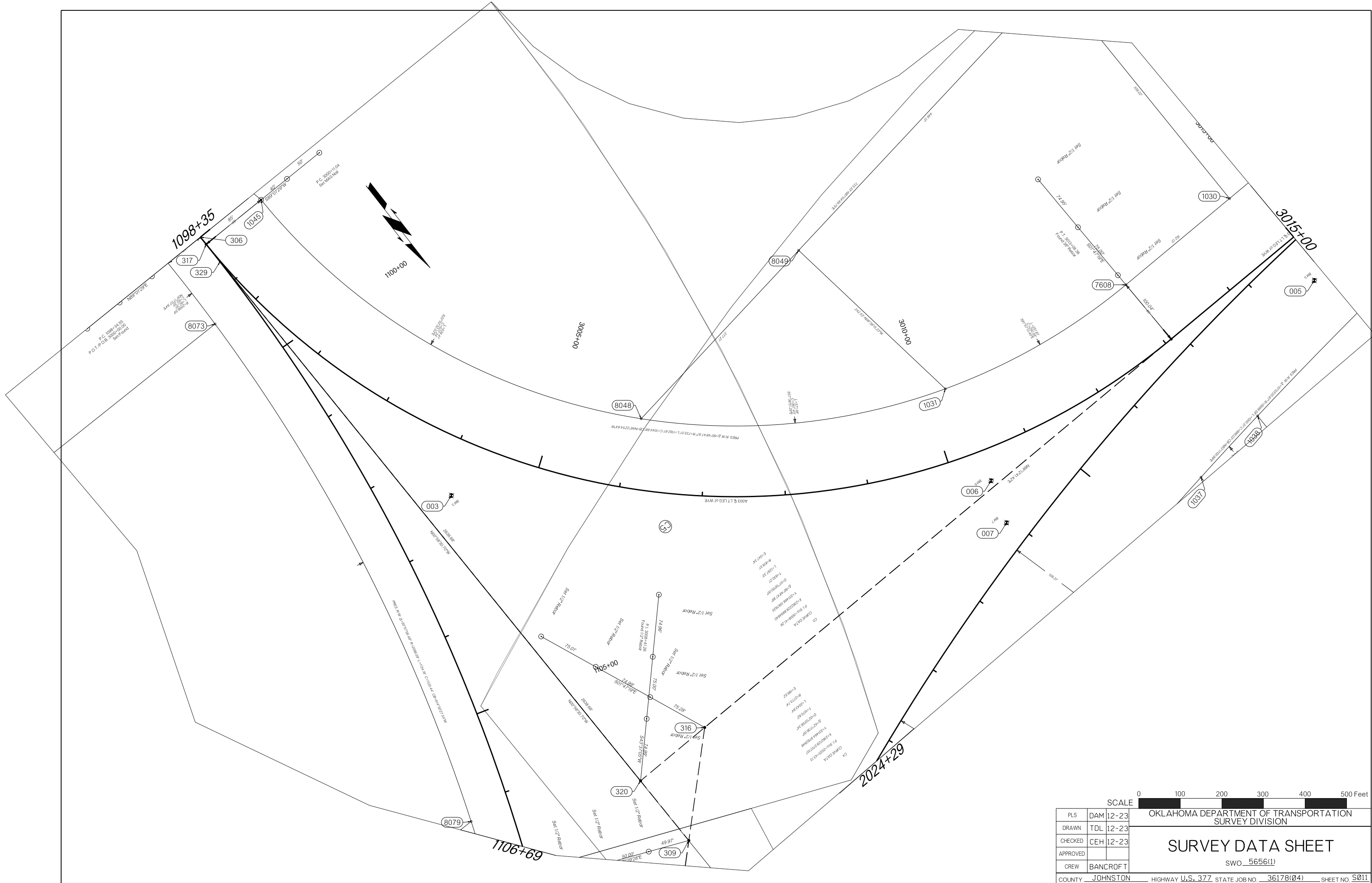
C4
 CURVE DATA
 P.I. Sta = 2025+43.13
 X=2362.09, Y=1070.707
 Y=331464.9762646
 Δ=42°13'30.10"
 D=21°03'56.34"
 T=4870.62'
 L=2043.84'
 R=2773.74'
 E=189.52'

C5
 CURVE DATA
 P.I. Sta = 3008+41.26
 X=2362.229, Y=888.4640
 Y=331469.1807620
 Δ=90°48'47.88"
 D=0°00'00.00"
 T=830.21'
 L=1297.33'
 R=819.51'
 E=347.34'



PLS	DAM	12-23
DRAWN	TDL	12-23
CHECKED	CEH	12-23
APPROVED		
CREW	BANCROFT	

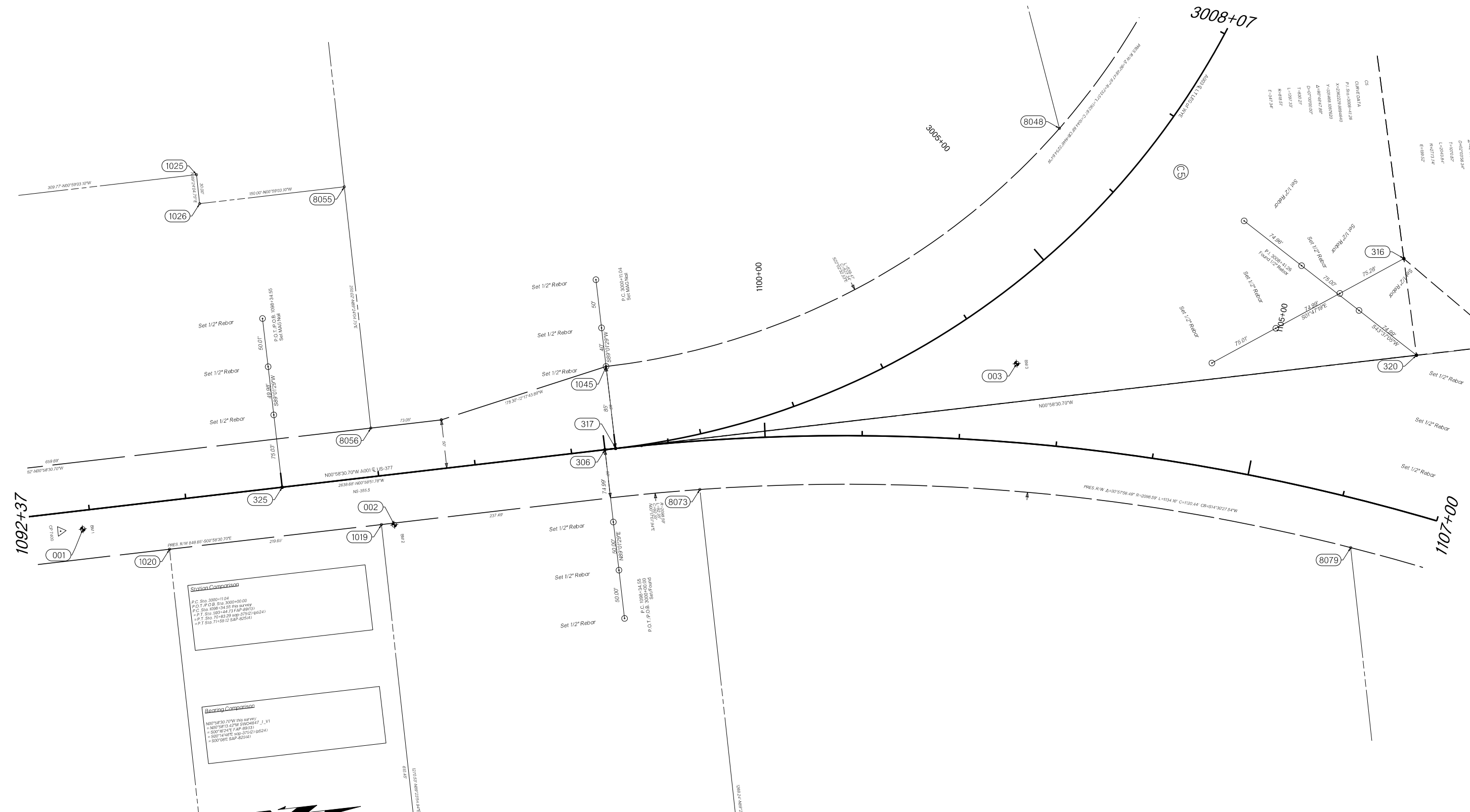
OKLAHOMA DEPARTMENT OF TRANSPORTATION
 SURVEY DIVISION
SURVEY DATA SHEET
 SWO 5656(1)



SCALE 0 100 200 300 400 500 Feet

OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION		
SURVEY DATA SHEET		
SWO_5656(1)		
PLS	DAM	12-23
DRAWN	TDL	12-23
CHECKED	CEH	12-23
APPROVED		
CREW	BANCROFT	
COUNTY	JOHNSTON	HIGHWAY U.S. 377 STATE JOB NO. 36178(04) SHEET NO. S011

C:\...
 CURVE DATA
 P1: STA=3008+41.28
 X=230229.848480
 Y=231444.870384
 A=42.1788.00°
 D=170.00.00°
 L=109.37
 R=48.27
 E=34.24



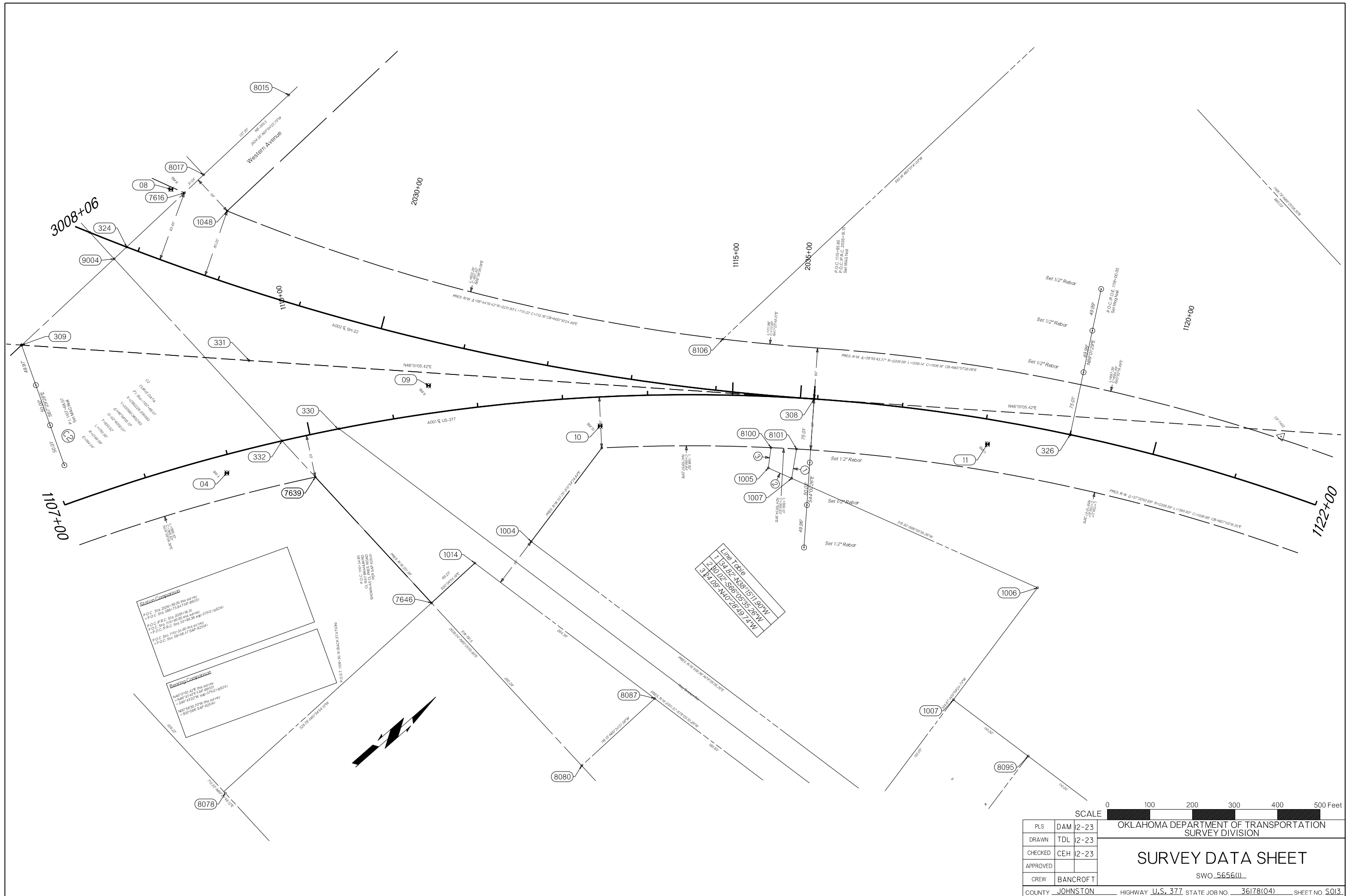
Station Comparison
 P.C. Sta. 3000+11.04
 P.O.T. P.O.B. Sta. 3000+00.00
 P.C. Sta. 1088+34.55
 P.O.T. Sta. 1088+34.55
 P.C. Sta. 1088+34.55
 P.O.T. Sta. 1088+34.55

Bearing Comparison
 N00°58'30.70"W
 N00°58'30.70"W
 N00°58'30.70"W
 N00°58'30.70"W



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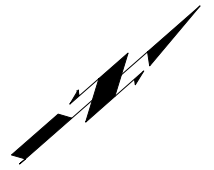


Station Comparison
 P.D.C. Sta. 3008+00 to 3008+16.15
 P.D.C. Sta. 3008+16.15 to 3008+32.30
 P.D.C. P.R.C. Sta. 3008+32.30 to 3008+48.45
 P.D.C. Sta. 3008+48.45 to 3008+64.60
 P.D.C. Sta. 3008+64.60 to 3008+80.75
 P.D.C. Sta. 3008+80.75 to 3008+96.90

Banking Comparison
 NAD 83 UTM Zone 18N
 NAD 83 UTM Zone 18N
 NAD 83 UTM Zone 18N
 NAD 83 UTM Zone 18N

Line Table

1	34	82	N48°10'15.42"E
2	80	02	S66°05'35.26"W
3	24	09	N40°28'49.74"W



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COUNTY JOHNSTON			SURVEY DATA SHEET
HIGHWAY U.S. 377			SWO_5656(1)
STATE JOB NO. 36178(04)			SHEET NO. S013

REFERENCE MEASUREMENTS

Description	Distance		Bearing	
	Feet	Meters	True	Magnetic
NW COR. SEC. 5				
(1) Found 60D nail in 30" oak tree	48.25'		N35°34'10"E	
(2) Set 60D nail in 6" oak tree	27.30'		S72°52'44"E	
(3) Found 60D nail in 12" oak tree	12.19'		S32°17'02"W	
(4) Found 60D nail in 12" oak tree	8.94'		N04°05'38"W	
N4 COR. SEC. 5				
(1) Found 60D nail in 5" oak tree	8.85'		N10°34'29"E	
(2) Set top center of wooden brace post	8.89'		S09°27'46"E	
(3) Set 60D nail in 18" oak tree	39.30'		N71°38'17"W	
(4) Found 60D nail in 8" cedar tree	11.40'		N20°19'44"W	
NE COR. SEC. 5				
(1) Found 60D nail in power pole	25.71'		S38°00'04"E	
(2) Found 3/8" Iron pin	83.10'		S18°10'58"W	
(3) Found 3/8" Iron pin	141.42'		S18°10'58"W	
(4) Found top center of I-Beam corner fence post	33.20'		N79°25'40"W	
(5) Found 1/2" rebar previously accepted as corner	2.98'		N22°11'45"W	
E4 COR. SEC. 5				
(1) 40D nail in 18" elm tree	37.75'		N13°37'28"E	
(2) 60D nail in 15" cedar tree	39.95'		S13°48'40"W	
(3) 40D nail in 12" cedar tree	27.17'		S27°03'16"W	
(4) 40D nail in 20" oak tree	27.60'		S56°56'04"W	
CENT. COR. SEC. 5				
(1) Set 60D nail in power pole	93.70'		S84°48'28"E	
(2) Set 60D nail in power pole	121.10'		S47°26'28"E	
(3) Found 1/2" iron pin	120.69'		S17°43'11"E	
(4) Found 1/2" iron pin	240.96'		S00°55'15"E	
(5) Found 1/2" iron pin	262.67'		S21°42'26"W	
W4 COR. SEC. 5				
(1) Found 60D nail in 18" cedar tree	21.82'		N11°08'30"E	
(2) Set 60D nail in 12" black hickory tree	27.22'		S41°33'37"E	
(3) Set 60D nail in 10" elm tree	39.72'		S40°54'35"W	
(4) Set 60D nail in top center of wood corner fence post	35.47'		S78°04'48"W	
SW COR. SEC. 5				
(1) Found 60D nail in top of 8" wood gate post	52.26'		N00°50'03"W	
(2) Set 60D nail in top of 6" wood brace post	47.00'		N01°08'08"W	
(3) Found 3" steel corner fence post	13.18'		S08°35'37"E	
(4) Found 60D nail in West face 32" twin oak tree	30.43'		S51°07'00"W	
S4 COR. SEC. 5				
(1) Found 60D nail in Northwest face of power pole	65.72'		N51°11'52"E	
(2) Found 60D nail in Southwest face of power pole	65.93'		S51°46'56"E	
(3) Set top center of 8" steel gate post	92.00'		S32°30'44"W	
(4) Found 60D Southeast face of 10" wood corner fence post	67.20'		S50°23'50"W	
SE COR. SEC. 5				
(1) Found 1/2" rebar	37.40'		N31°59'10"W	
(2) Found 1/2" rebar	36.71'		N17°09'32"E	
(3) Found 1/2" rebar	55.50'		N46°08'38"E	
(4) Found 1/2" rebar	81.06'		N59°39'25"E	

NW Corner Section 5, T-4-S, R-6-E, I.M. - ODOT Sta. No. J-35-924.
 Found 6"x6" granite stone and references from previous CCR's filed by LS 1018, David L. Mayes, dated 10/14/97, and by LS 1471, Obert D. Bennett, dated 02/12/2007. Set additional references.

N Quarter Corner Section 5, T-4-S, R-6-E, I.M. - ODOT Sta. No. J-35-925. Found brass cap in concrete marked R6E, R35 1/4 S32, S5, T4S and references from previous CCR's filed by LS 1018, David L. Mayes, dated 10/14/1997, and by LS 1471, Obert D. Bennett, dated 05/31/2000. Set additional references.

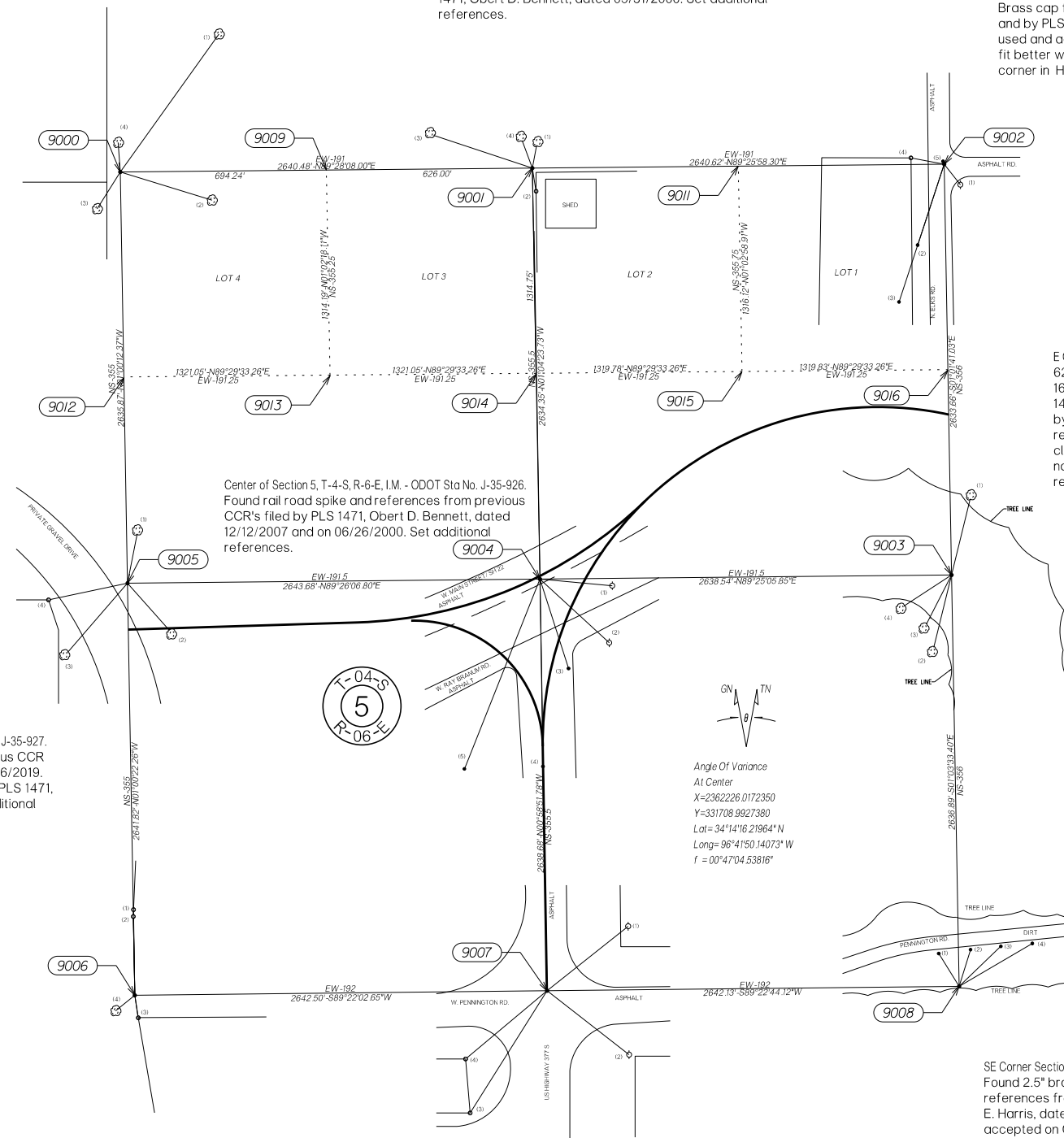
NE Quarter Corner Section 5, T-4-S, R-6-E, I.M. - ODOT Sta. No. J-35-618(R). Found brass cap below surface of roadway and references from previous CCR's filed by LS 1471, Obert D. Bennett, dated 01/12/2017 and 05/31/2000. Also found but did not accept 1/2" rebar 2.9' Northwest of Brass cap from CCR's by PLS 1690, dated 04/25/2013 and by PLS 312, dated 08/15/1995. Brass cap has been used and accepted by local surveyors and appears to fit better with distances called out to East quarter corner in Highways plans "SAP No375(2)". Set none.

E Quarter Corner Section 5, T-4-S, R-6-E, I.M. - ODOT Sta. No. J-35-625. Found 3/4" rebar from previous CCR's filed by PLS 1690, Darrel Ray Mason, dated 04/25/2013, and by PLS 1471, Obert D. Bennett, dated 05/31/2000, and by and by LS 312, Delbert L. Riddle, dated 08/15/1995. Previous reference appear to have been removed by recent clearing in the area. Used existing nearby reference nails, not shown on previous corner records, as new references for corner.

W Corner Section 5, T-4-S, R-6-E, I.M. - ODOT Sta. No. J-35-927.
 Found 3/4" rebar and reference from previous CCR filed by PLS 1566, David L. Page, dated 12/26/2019. Monument agrees with that used in CCR by PLS 1471, Obert D. Bennett, dated 11/05/2001. Set additional references.

SW Corner Section 5, T-4-S, R-6-E, I.M. - ODOT Sta. No. J-35-576.
 Found 3/4" rebar and references matching previous CCR's filed by PLS 1530, Chris Cauthon, dated 10/17/2012, and by PLS 1471, Obert D. Bennett, dated 02/12/2007. Set additional references.

S Quarter Corner Section 5, T-4-S, R-6-E, I.M. - ODOT Sta. No. J-35-577(R). Found references from previous CCR's filed by LS 1530, Chris A. Cauthon, dated 10/17/2012 and by PLS 1471, Obert D. Bennett, dated 02/12/2007. Also, found mag nail set as centerline POT for SWO4647(1). Set mag nail with "Bancroft CA9205" washer using survey information from SWO4647(1) and found references. Set additional reference.



References Not Shown to Scale

SE Corner Section 5, T-4-S, R-6-E, I.M. - ODOT Sta. No. J-35-626.
 Found 2.5" brass cap "LS 201 D.R. Griffin" and references from previous CCR filed by PLS 1719, Carey E. Harris, dated 05/29/2018. Monument was also accepted on CCR's filed by PLS 1690, Darrel Ray Mason, dated 04/29/2013, and PLS 1530, Chris A. Cauthon, dated 10/17/2012, and PLS 1471, Obert D. Bennett, dated 07/16/2002, and PLS 201, Dick R. Griffin, dated 06/04/2011. ODOT assigned station J-35-578 for SWO4647(1) and station J-35-626 for SWO4863(1). Set none.



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CHECKED	CEH	12-23
APPROVED		
CREW	BANCROFT	
COUNTY	JOHNSTON	HIGHWAY US-377 STATE JOB NO. JP36178104 SHEET NO. S014

SURVEY DATA SHEET

SWO_5656(1)