

MARKHAM ST. JUMP START IMPVTS. (CONWAY) (S)

AHTD JOB NO. 080566

Preliminary Plan Comments and Responses Summary

Environmental Division:

1. No comments.

Hydraulics Division:

1. Hydraulics has reviewed the Hydrology and Hydraulics Report given by the consultant. The consultant has noted some issues in the storm sewer system. Other than those issues, Hydraulics has no further comments.
 - ✓ The stormwater system for the Markham Street improvements is significantly constrained by the shallow and undersized existing systems downstream. The proposed system is designed to capture and convey this flow in a reasonable and economical method while working within this framework. Minor adjustments were made to the storm sewer system between 50% to 90% design. As a result, a revised Hydrology and Hydraulics Report is included. Appendix B, Drainage Structure Summaries, has been updated to match the 90% plans.

Materials Division:

1. No comments.

Roadway Division:

1. Verification of design criteria.
 - ✓ All information is correct as shown. Design Speed = 30 mph
2. Add design data to cover sheet.
 - ✓ Design data added to cover sheet.
3. Label begin/end of job on survey control details.
 - ✓ begin/end job notes are labeled on the survey control details.
4. Label begin/end of job on P&P sheets.
 - ✓ Begin/end job notes are labeled on the P&P sheets.
5. Display and label construction limits on P&P sheets.
 - ✓ Construction limits are displayed and labeled on P&P sheets. Construction limits are contained within the outer 2' of existing R/W behind the sidewalk. In instances that the typical 3:1 cut/fill slope could not be contained within existing R/W, a type special sidewalk was used with a small retaining wall.
6. Display bearing for Curve No. 1, Drawing No. C-606.
 - ✓ Bearing displayed for Curve No. 1.
7. Revise K value to 186.50 on crest vertical curve Sta. 49+60.
 - ✓ K value revised to 186.50.

Pavement Design

8. Alt. No. 2, ½" surface course needs 2" lifts.

- ✓ Alternative 2, as shown in the previous pavement design submittal, was removed from consideration. An adjustment to a single 2" lift or double 2" lifts of ACHM surface course (1/2") would have matched Alternative 1 and 4, respectively.

9. Need soil survey

- ✓ The Soil survey is attached to the resubmitted pavement design along with the correlation chart for estimating subgrade modulus.

10. Need traffic memo

- ✓ The traffic memo presented peak hour volumes for 2017 and 2037. Taking the highest peak hour volume for the Segment of Markham Street north of Mill Street, we conservatively calculated the ADT based on the peak hour being 8% of the ADT.

As shown in the revised pavement design submittal, The ADTs for 2017 = 5,000 vpd and 2037 = 5,800 vpd. These values were rounded up to the nearest 100 vpd compared to the previously submitted pavement design. This resulted in the required structural number increasing by 0.01 which did not affect any of the proposed design alternatives.

11. Need typical sections for each alternative

- ✓ The average width used for cost per station comparisons was calculated taking the overall pavement area for the job divided by the length of project. Since the typical section width is so inconsistent with island bump outs and on-street parking, this proved to be a less cumbersome approach to develop cost estimate comparisons. Each alternative was compared using the same average width since the entire project is a curb and gutter section. The width of ACHM Base Course for the full depth asphalt design was increased to allow the curb and gutter to be constructed on top of the layer, provide a 1' shelf behind curb, and accommodate the angle of repose.

ROW Division:

12. Is the drainage structure at +/- 33+25 LT. existing or proposed.

- ✓ This structure is proposed for future use as an outlet to a planned detention area by the City of Conway. This property is currently owned by the City of Conway. See attached parcel information. The pipe will be stubbed out and plugged for future use.

13. Is there any existing R/W on the north end of the job?

- ✓ Additional R/W, north of Spruce St., is shown on the P&P sheets per Job No. 080199.

Utilities Division:

1. No comments.

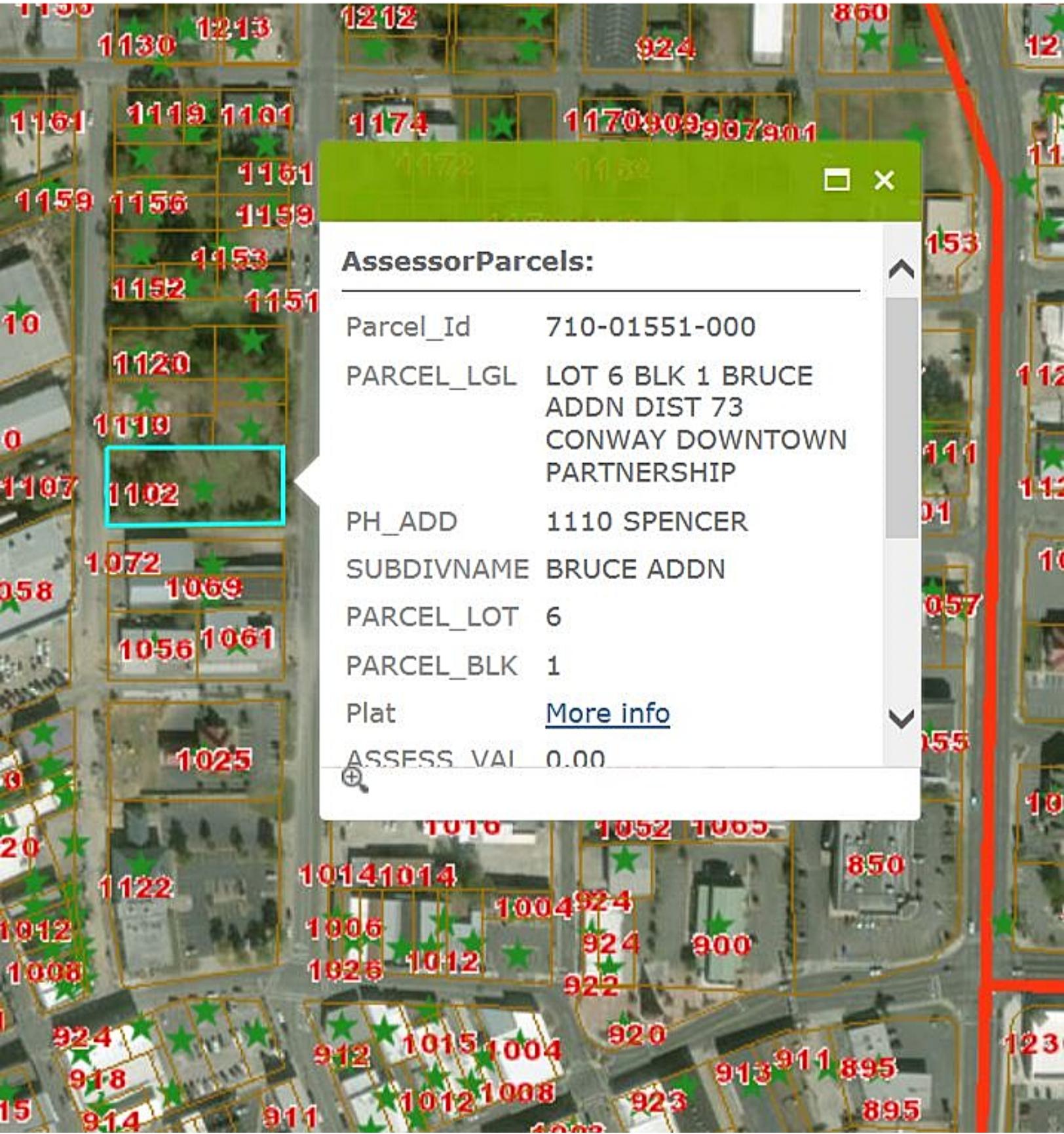
VERIFICATION OF 13 DESIGN CRITERIA

Job 080566

Markham St. Jump Start Impvts. (Conway) (S)

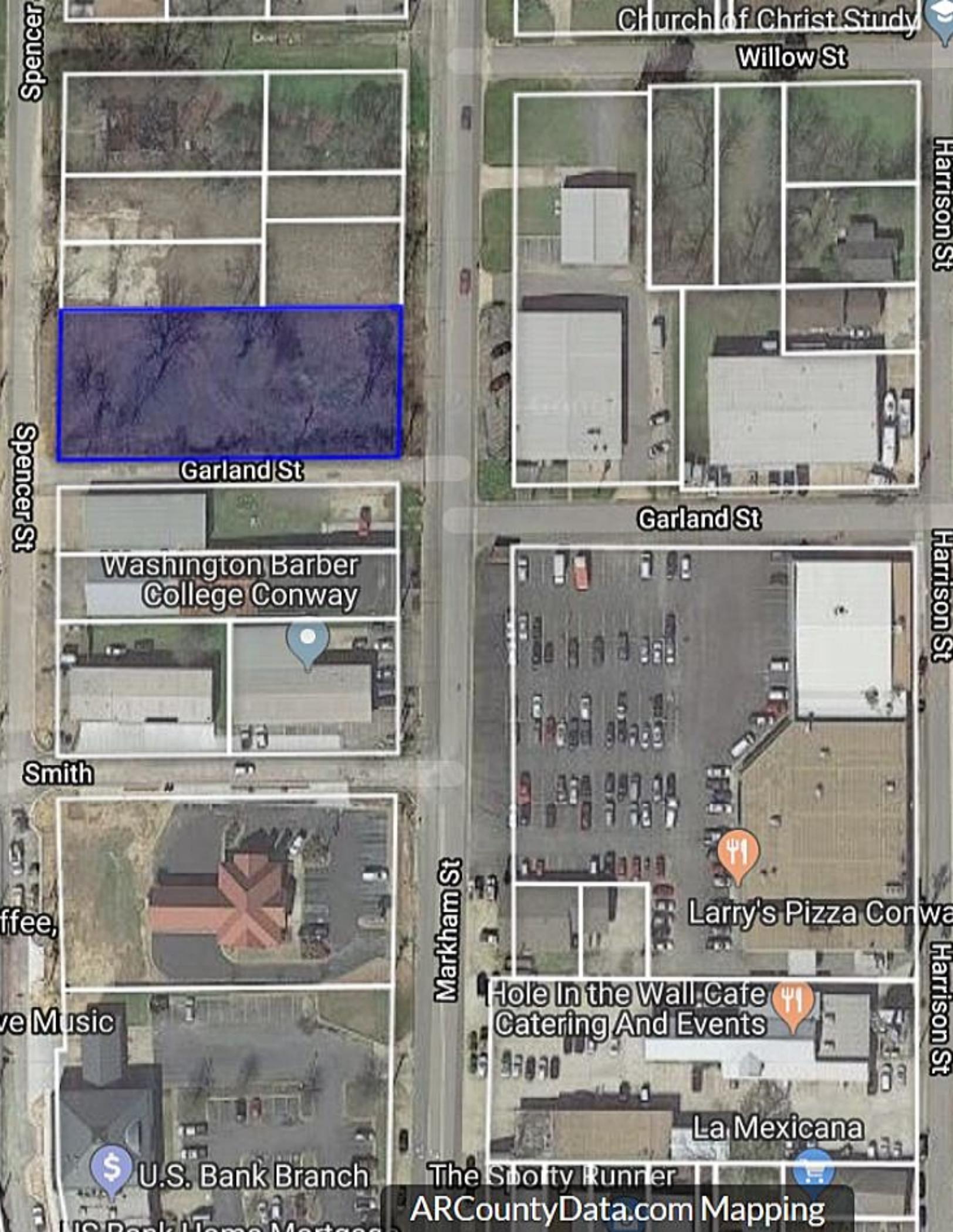
10/30/17
(DATE)

1. Design Speed : Not Provided (30 MPH?) ✓ See 90% Cover Sheet
2. Lane Width: 10' ✓
3. Shoulder Width: C.C.C. & G. ✓
4. Bridge Width: N/A ✓
5. Structural Capacity: Pavement Design Provided ✓
6. Horizontal Alignment: R=273' (Green Book, Low-Speed Urban Streets)? ✓
7. Vertical Alignment: $K_{crest,30}=19, K_{sag,30}=37$ ✓
8. Grade: 7% (Green Book, Collector Roads and Streets) ✓
9. Stopping Sight Distance: 200 (30 MPH) ✓
10. Cross Slope: 2% ✓
11. Superelevation: No Superelevation, Low Speed Urban Tables ✓
12. Vertical Clearance: N/A ✓
13. Horizontal Clearance: 1'-6" from Face of Curb ✓



AssessorParcels:

Parcel_Id	710-01551-000
PARCEL_LGL	LOT 6 BLK 1 BRUCE ADDN DIST 73 CONWAY DOWNTOWN PARTNERSHIP
PH_ADD	1110 SPENCER
SUBDIVNAME	BRUCE ADDN
PARCEL_LOT	6
PARCEL_BLK	1
Plat	More info
ASSESS_VAL	0.00



Church of Christ Study

Willow St

Spencer St

Harrison St

Garland St

Garland St

Washington Barber College Conway

Harrison St

Spencer St

Smith

Markham St

Larry's Pizza Conway

Harrison St

ffee,

ve Music

Hole In the Wall Cafe Catering And Events

La Mexicana

U.S. Bank Branch

The Spotty Runner

ARCountyData.com Mapping

U.S. Bank Home Mortgage

CITY OF CONWAY

1110 SPENCER

CONWAY CITY, AR



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[Land](#)

[Sales](#)

[Valuation](#)

[Taxes](#)

[Receipts](#)

[Map View](#)

Basic Info

Parcel Number:	710-01551-000
County Name:	Faulkner County
Ownership Information:	CITY OF CONWAY 1201 OAK ST CONWAY AR 72032
Property Address:	CITY OF CONWAY 1110 SPENCER CONWAY CITY, AR Map This Address
Billing Information ⓘ:	CITY OF CONWAY 1201 OAK ST CONWAY, AR 72032-5316
Total Acres:	0.65
Timber Acres:	0.00
Sec-Twp-Rng:	01-05N-14W
Lot/Block:	6/1
Subdivision:	BRUCE ADDN
Legal Description:	LOT 6 BLK 1 BRUCE ADDN DIST 73 CONWAY DOWNTOWN PARTNERSHIP
School District:	1C CONWAY CITY
Improvement Districts:	OLD CONWAY DESIGN REVIEW,CENTRAL BUSINESS IMPR DIST #1
Homestead Parcel?:	No
Tax Status:	Taxable
Over 65?:	No