



**Information for the Jackson  
County Board of  
Commissioners on ROK  
Technologies Permitting  
Software**

September 13, 2016

In the early Spring of 2012 the County assembled a group of employees, the Permitting Software Taskforce, to research possible options for new permitting software. This group included employees from Permitting & Code Enforcement, Environmental Health, Land Records, IT, Tax Administration, and Planning.

The Permitting Software Taskforce sat in on several proposals from different software companies and even visited nearby counties to see what types of systems they were using for permitting. The County chose ROK Technologies and they started with departmental interviews in May 2012.

# Offices Involved in initial Interviews with ROK Technologies :

- Environmental Health
- Erosion Control
- Planning / Zoning
- Tax Administration
- GIS
- Information Technologies (IT)
- Sylva Permitting & Code Enforcement
- Cashiers Permit Center

**After these interviews ROK Technologies submitted a list of goals for the new permitting system. These goals have been used to establish priorities and milestones during creation of the new system.**

# Permitting System Project Goals

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- ✓ Configure safe, secure and affordable hosting of all data and application components that is easily maintained by County staff.

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**When we started working with ROK, our permitting system (Fusion) was an old, DOS-based system that still printed triplicate copy forms on a dot matrix printer.**

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**JACKSON COUNTY, N.C.  
PERMIT FOR CONSTRUCTION OR OTHER WORK**

PARCEL I.D. NUMBER 7469-59-6583	MAP 7469.00	JURIS. CA	ZONING	LAND USE H2	WATERSHED	CENSUS N 9509	PERMIT # E7733									
PROPERTY DESCRIPTION GARNETT HILL					WATER	SEWER	DATE 06/07/04									
PROPERTY ADDRESS CASHIERS			LAND AREA 2.1600	EH PERMIT #	EH PERMIT #	TYPE BEPM										
PROPERTY OWNER NAME/ADDRESS TRACOFF, JEFFERY FULLER, KATHIE 3630 LAKE DRIVE SMYRNA GA 30082							PHONE									
PERMIT HOLDER (IF NOT OWNER)/ADDRESS TRACOFF JEFF 3630 LAKE DR SMYRNA, GA 30082							PHONE 770319-9806									
LICENSE #	GENERAL CONTRACTOR	ADDRESS														
	HOLDER															
LICENSE #	ELECTRICAL CONTRACTOR	ADDRESS														
	HOLDER															
LICENSE #	PLUMBING CONTRACTOR	ADDRESS														
	HOLDER															
LICENSE #	MECHANICAL CONTRACTOR	ADDRESS														
M06939	MACK HEATING AND AIR	351 KING ST BREVARD														
LICENSE #	MH SETUP CONTRACTOR	ADDRESS														
LICENSE #	OTHER (SPECIFY)	ADDRESS														
CLASS	AREA	S.F.	HT.	TYPE	ROOM	BDRM	BATH	PLBG	ELEC.	HEAT	A/C	INSUL.	DECK	FIREPL	CONST. COST	
NEWSF	2585			LOG	10	2	2.5		Y	GAS	CU	Y	Y	1	\$120,000	
FLOOD MAP	FLOOD ZONE	BASE FLD ELEV (FT)	1ST HAB FLR ELEV (FT)	BASEMENT	STORIES	IMPERV SURF	S.F.	1/2 MI AGR DIST	SCHOOL DISTRICT	IMPACT FEE						
				Y	3.0											
The undersigned does hereby declare that the information given above is correct and agrees to comply with all state and local law, local ordinances and regulations, the N.C. State Building Code, and any restrictions as shown below. The applicant furthermore declares that he/she is the property owner or he/she does truly represent the property owner.												RECEIPT # 00000	TOTAL FEE \$726			
APPLICANT'S SIGNATURE <i>Jeff Tracoff</i>												DATE				
APPROVAL BY <i>John K. Walker</i>												DATE 6-7-04				
RESTRICTIONS HWY 107 S TO WHITESIDE COVE RD. AND TURN RT, THEN TO GARNETT HILL LANE, (SR1109) TURN LEFT, 1ST SITE ON LEFT (STEEP DRIVEWAY)																
E SAW SERV				PLMB ROUGH												
B FOOTING	REQ. DATE	INSP. DATE	ACTION	TEMP ELEC F	REQ. DATE	INSP. DATE	ACTION									
B FOUNDATN				TEMP C.O.												
B FON DRAIN				SEPTIC APP												
B FRAMING				B FINAL												
FIREPLACE				ELEC FINAL												
B INSULATE				PLBG FINAL												
BLDG SLAB				MECH FINAL												
BSMT WAL WA				CERT OCCPNC												
BLDG SEWER				EROS CONT												
DECK FINAL																
DECK FOOTG																
E CHNG SERV																
ELEC ROUGH																
MECH ROUGH																
PLBG SLAB																
PLMB ROUGH																
TEMP ELEC F																
This is to certify that the building or work described above has been inspected and approved as noted. All phases of construction/work have been completed as of this date, and the building site is ready for occupancy.												DATE OF APPROVAL				
												BUILDING OFFICIAL				

# Sample of an old Fusion Building Permit

- Difficult to read at times
- Complicated software codes
- Prefilled Inspections
- No room for extra permit data

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**We were able to build our new software from scratch to fit our needs. This has allowed us to rethink how we had always done things so that we could streamline our process to save time for us and our customers.**

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Property PIN Number: 7572-31-8233

Building Permit Number: 2016-4076-2-5129

Property Owner: BURNS STREET LLC

Date Received: 6/20/2016

Property Address BURNS ST/LOT#3 BIRCH COTTAGE



JACKSON COUNTY PERMITTING & CODE ENFORCEMENT  
BUILDING PERMIT  
(New Residential, New Commercial)

Type Of Permit New Single Family - Detached

Land Use Residential

Bedrooms: 3

Total Full Baths 3

Heat Types: HP

Total Half Baths 1

Decks: Yes

Fireplaces: Yes

Power Provider: Duke Energy

Number of Fireplaces: 2

Power Provider Temp. Job No.:

Power Provider Perm. Job No.:

Gate Code:

Directions to Site: RT ON FRANK ALLEN;LEFT ON BURNS STREET;LEFT JUST PAST HOUSE#104 TO SITE.

Notes: LIEN#477741 120MPH WIND ZONE  
\*SEE PLAN REVIEW SHEET FOR NOTES\*  
LOT 3; BIRCH COTTAGE

Contractor	Name	NC License	Phone
BUILDING	KLC Construction, Inc. (Cler, Kevin)	76701	561-459-6640
ELECTRICAL	JR Holland Electric	16980	828-506-2712
PLUMBING	Marty Cison Plumbing	19058	828-226-7000
MECHANICAL	MADCO	22657	828-743-2053

Square Footage Details

	Finished Space	Unfinished Space	Floor Totals
First Floor:	1297	255	1552
Second Floor:	718	0	718
Thlrd Floor:	0	0	0
Basement:	0	0	0
Attached Garage:	211	0	211
			Total SF: 2481

Calculated Total Cost: \$ 340000

Building Permit Fees: \$ 799

I hereby certify that all information in this application is correct and all work will comply with the State Building Code and all other applicable State and local laws and ordinances and regulations. The Inspection Department will be notified of any changes in the approved plans and specifications for the project permitted herein.

SIGNATURE:	TITLE: Contractor	DATE: 6/29/16
APPROVED BY:		DATE ISSUED: 6/29/16

The new Building Permits in ROK have been built specific to our needs and allow for unlimited permit notes, contractors, and inspections.

# In Fusion it took several steps (and screens) to pull inspections:

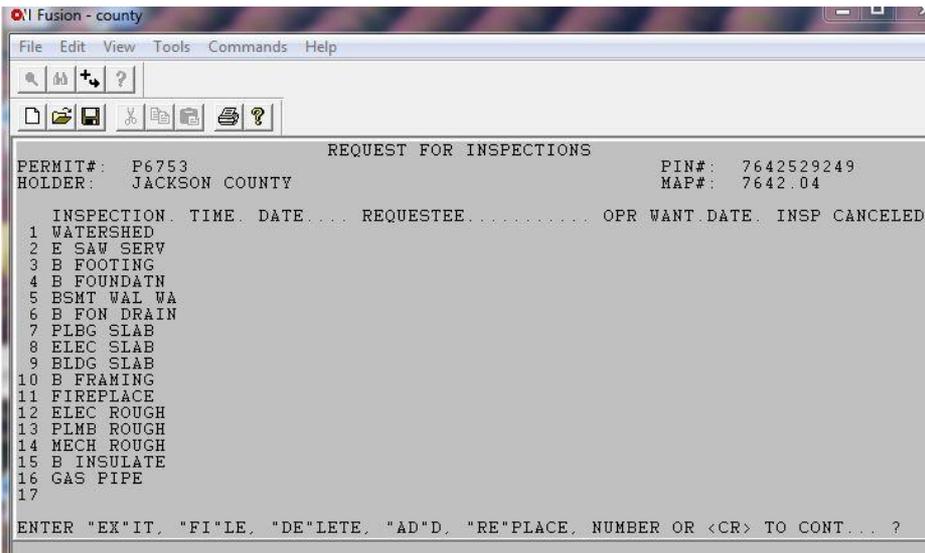
```
Fusion - county
File Edit View Tools Commands Help
PERMIT MPI
***** JACKSON COUNTY BUILDING INSPECTIONS MASTER MENU *****
1 - DAILY OPERATIONAL FUNCTIONS
2 - REVENUE COLLECTIONS / BALANCING
3 - PERMIT AND INSPECTIONS INQUIRY
4 - REPORTS
5 - SPECIAL FUNCTIONS
ENTER SELECTION OR 'OFF' TO LOGOFF?
```

```
Fusion - county
File Edit View Tools Commands Help
PERMIT MPI1
***** DAILY OPERATIONAL FUNCTIONS *****
1 - PERMIT FUNCTIONS
2 - INSPECTIONS FUNCTIONS
3 - CONTRACTORS MAINTENANCE
4 - 'CODES' MAINTENANCES
ENTER SELECTION OR <CR> TO RETURN?
```

```
Fusion - county
File Edit View Tools Commands Help
PERMIT MPI12
***** INSPECTIONS FUNCTIONS *****
1 - REQUEST FOR INSPECTIONS MAINTENANCE
2 - PRINT INSPECTION REQUEST CARD
3 - INSPECTIONS RESULT MAINTENANCE
ENTER SELECTION OR <CR> TO RETURN?
```

```
Fusion - county
File Edit View Tools Commands Help
REQUEST FOR INSPECTIONS
PERMIT#: PIN#:
HOLDER: MAP#:
INSPECTION TIME DATE..... REQUESTEE..... OPR WANT DATE INSP CANCELED
ENTER PERMIT NUMBER ?
```

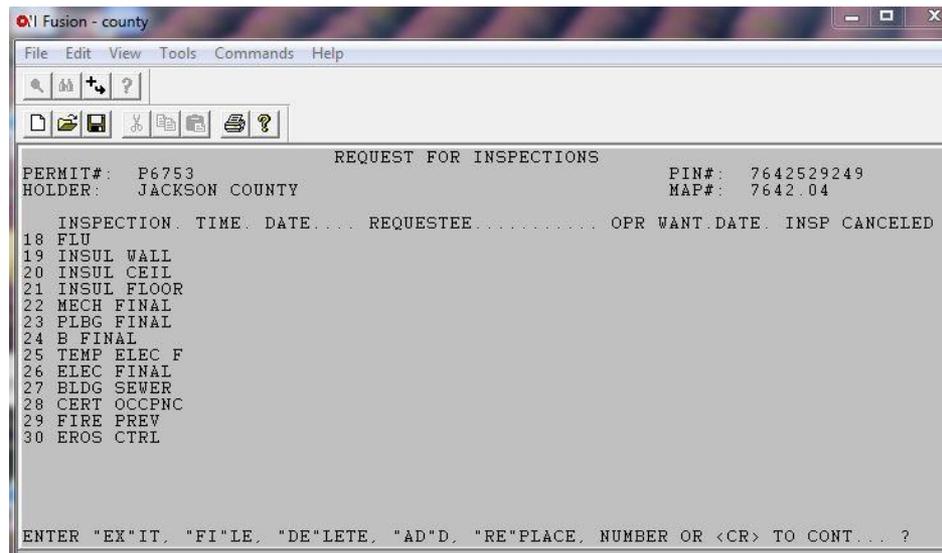
Once you got in to pull inspections you had to scroll through a two page list of pre-filled inspections to find the one you want:



```
REQUEST FOR INSPECTIONS
PERMIT#: P6753          PIN#: 7642529249
HOLDER: JACKSON COUNTY MAP#: 7642.04

INSPECTION. TIME. DATE. REQUESTEE. OPR WANT. DATE. INSP CANCELED
1 WATERSHED
2 E SAW SERV
3 B FOOTING
4 B FOUNDATN
5 BSMT WAL WA
6 B FON DRAIN
7 PLBG SLAB
8 ELEC SLAB
9 BLDG SLAB
10 B FRAMING
11 FIREPLACE
12 ELEC ROUGH
13 PLMB ROUGH
14 MECH ROUGH
15 B INSULATE
16 GAS PIPE
17

ENTER "EX"IT, "FI"LE, "DE"LETE, "AD"D, "RE"PLACE, NUMBER OR <CR> TO CONT... ?
```



```
REQUEST FOR INSPECTIONS
PERMIT#: P6753          PIN#: 7642529249
HOLDER: JACKSON COUNTY MAP#: 7642.04

INSPECTION. TIME. DATE. REQUESTEE. OPR WANT. DATE. INSP CANCELED
18 FLU
19 INSUL WALL
20 INSUL CEIL
21 INSUL FLOOR
22 MECH FINAL
23 PLBG FINAL
24 B FINAL
25 TEMP ELEC F
26 ELEC FINAL
27 BLDG SEWER
28 CERT OCCPNC
29 FIRE PREV
30 EROS CTRL

ENTER "EX"IT, "FI"LE, "DE"LETE, "AD"D, "RE"PLACE, NUMBER OR <CR> TO CONT... ?
```

If the one you wanted was on the list, you would enter six different kinds of information to pull one inspection and you had to complete all of the steps all over again to pull an additional inspection for the same job.

Once you got past 36 inspections you could no longer pull inspections on the permit. Also, you had to go to a different list to see the results; they did not show on this screen.

# In ROK, the inspection results show on the main screen and it's one step to request inspections:

**COMMERCIAL BUILDING PERMITS**

SHOW APPLICATIONS

Owner Name, Business Name, PIN, Property Address

Building Permit Number

Date Issued  to

Type Of Permit

Land Use

Inspection Office

1 of 10 / Page

Attach Images	Request Inspection	Print Permit	Building Permit Number	Date Issued	Inspection Office	Property PIN	Property Address	Owner Name	Business Name	Township	Type Of Permit	Land Use	Total Enclosed SF	Total Cost Of Construction	Permit Fees	Status
			2016-6636-2-5107	7/5/2016	Cashiers	7572-20-7179	357 FRANK ALLEN RD	JACKSON COUNTY	PERMITTING & CODE ENFORCEMENT OFFICE	CASHIERS	Remodel - Commercial	Commercial	2814	190000	947	Active

Commercial Inspection Requested | Commercial Plan Review | Building Permit Images

1 of 10 / Page

Requested Date	Time Of Day	Phone	Email	Notes	Property Owner	Property Address	Inspection Office
7/20/2016			josh@byrdllc.com	LIEN#492413 COMMERCIAL RENOVATION	JACKSON COUNTY	357 FRANK ALLEN RD	Cashiers

1 of 10 / Page

Property Owner	Inspector	Inspection Type	Inspection Date	Notes	Inspection Results	Inspector Notes	Common Rejections
JACKSON COUNTY	Glen Hooper	Electric Rough	7/20/2016		Approved	rough for bathrooms & janitor closet	

7/21/2016

josh@byrdllc.com

LIEN#492413 COMMERCIAL RENOVATION

JACKSON COUNTY

357 FRANK ALLEN RD

Cashiers

# Pulling multiple inspections from one screen in ROK:

**INSPECTION REQUEST**

Building Permit 2016-6636-2-5107

Property PIN 7572-20-7179

Property Owner JACKSON COUNTY

Property Address 357 FRANK ALLEN RD

Inspection Office Cashiers

Date Called 9/7/2016

Requested By CONTRACTOR

Requested Date 9/7/2016

Time Of Day AM

Phone 828-555-5555

Contact Email jcpermitcenter@jacksonnc.org

SF 2814

Gatecode

Building Permit Notes LIEN#492413  
COMMERCIAL RENOVATION

al Inspection Select

Inspection Item	Office Notes	Assigned To	Status
** Please Select **		** Please Select **	** Please Select **
** Please Select **		** Please Select **	** Please Select **

SAVE SAVE AND NEW CANCEL

0 of 0 10 / Page

E-mail for sending results to contractors.

Add multiple inspections

# The inspectors can now take a tablet out into the field to enter inspection results:



## Jackson County, North Carolina

Hello [tonyelders@jacksonnc.org](mailto:tonyelders@jacksonnc.org) [SIGN OUT](#)

[SCHEDULED INSPECTIONS](#) [INSPECTOR RESULTS](#) [ALL RESULTS](#)

### Scheduled Inspections FILTERS ▾

<a href="#">ADD RESULTS</a>	<b>Permit:</b> 2016-7084-2-5447	<b>Owner:</b> HERREN PROPERTIES INC
<a href="#">ADD PICTURES</a>	<b>Directions:</b> 107S TO RT ON MOODY BRIDGE, LT ON ROY TRITT, STAY TO LT AT YONDER WAY, HOUSE JUST ON THE RT #822	
<a href="#">VIEW PICTURES</a>	<b>Gate Code:</b>	<b>Assigned To:</b> Tony Elders
<a href="#">ALL RESULTS</a>	<b>Req. By:</b> KAREN	<b>SF:</b>
	<b>Req. Date:</b> 9/6/2016	<b>Insp. Type:</b> Mechanical Final
	<b>Time of Day:</b> AM	
	<b>Contact Phone:</b> 349-1933	<b>Permit Notes:</b> HP CHANGE OUT
	<b>Contact Email:</b>	<b>Office Notes:</b>
	<b>Status:</b> Cancelled	<b>Results:</b>
<hr/>		
<a href="#">ADD RESULTS</a>	<b>Permit:</b> 2016-7084-2-5447	<b>Owner:</b> HERREN PROPERTIES INC
<a href="#">ADD PICTURES</a>	<b>Directions:</b> 107S TO RT ON MOODY BRIDGE, LT ON ROY TRITT, STAY TO LT AT YONDER WAY, HOUSE JUST ON THE RT #822	
<a href="#">VIEW PICTURES</a>	<b>Gate Code:</b>	<b>Assigned To:</b> Tony Elders
<a href="#">ALL RESULTS</a>	<b>Req. By:</b> KAREN	<b>SF:</b>
	<b>Req. Date:</b> 9/6/2016	<b>Insp. Type:</b> Electric Final
	<b>Time of Day:</b> AM	
	<b>Contact Phone:</b> 349-1933	<b>Permit Notes:</b> HP CHANGE OUT
	<b>Contact Email:</b>	<b>Office Notes:</b>
	<b>Status:</b> Cancelled	<b>Results:</b>

**Extra paperwork or photos related to a permit can be attached to any permit in ROK. This saves ink, paper and time. It, also, saves on network storage space since we have unlimited file storage within this system.**

# Here is a sample of what the Building Permit table looks like showing a variety of file attachments:

## PERMITTING SYSTEM

Sign Out  
Hello tiffanyqualls@jacksonnc.org

- ▶ TAX RECORD SEARCH
- ▶ APPLICATIONS
- ▶ ENVIRONMENTAL HEALTH
- ▶ SCANNED PERMITS DICTIONARY
- ▶ EROSION CONTROL
- ▶ BUILDING PERMITS
- ▶ PLANNING / ZONING
- ▶ ADMIN LISTS
- ▶ ENVIRONMENTAL HEALTH ADMIN LISTS
- ▶ DASHBOARDS & REPORTS
- ▶ USERS
- ▶ COMPLAINT FORM

### BUILDING PERMIT

Owner Name, PIN, Property Address

Building Permit Number

Date Issued  to

Type Of Permit

Land Use

Inspection Office

	Attach Images	Request Inspection	Print Permit	Building Permit Number	Date Issued	Inspection Office	Property PIN	Property Address	Owner Name	Township	Type Of Permit	Land Use	Total Enclosed SF	Total Cost Of Construction	Permit Fees	Status
				2014-1545-2-580	8/5/2014	Cashiers	7563-01-8708	CLUB LODGES AT TRILLIUM 4A-65A CLUB LODGES DR	CLUB LODGES AT TRILLIUM LLC 4A	HAMBURG	New Single Family - Attached	Residential	1403	150000	443	Active

Residential Inspection Requested
Plan Review
Building Permit Images

	Image Filename	Image Description	Image Date	Image File
	4A_TEF	4A TEF	4/21/2016	<a href="#">Open File</a>
	BUILDING_4_PLATS	BUILDING 4 PH 1C PLATS	6/3/2016	<a href="#">Open File</a>
	Termite	Termite	6/16/2016	<a href="#">Open File</a>
	SUB CHANGE-PLUMBER	LETTER	6/24/2016	<a href="#">Open File</a>
	4A_PLUM_SIGNATURE	4A PLUM SIGNATURE	6/28/2016	<a href="#">Open File</a>
	OP	OP	6/28/2016	<a href="#">Open File</a>
	WATER APPROVAL	WATER APPROVAL	6/28/2016	<a href="#">Open File</a>
	TCO 07/07/16	TCO 07/07/16	7/7/2016	<a href="#">Open File</a>

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**Fusion had given us very little information on permits that had been issued between departments (and required a lot of research).**

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# Sample Fusion Building Permit Screen

```

Fusion - COUNTY1
File Edit View Tools Commands Help
[Icons]
JACKSON COUNTY PERMIT/INSPECTIONS
MAP.REFER: 7552.04          TOWN : CA          FLOOD--
PIN : 7552947780          L.USE : H00        MAP:
OWNER : BLUE STAR RANCH LLC W.SHED: Y          ZONE:
EXT :                      CENSUS: 9508      ELEV:
ADDR : 806 SWEETBRIAR RD   HAB:
CSZ : MEMPHIS TN 38120
WATER : J78112W           SEWER : J78114I
07.30.15 NEW             07.30.15 NEW
PERMIT- P7119            PEND 08/06/15
P7033                   NEW 07/21/15
LEGL DESC: SR 1143
SIZE: 136.5100
PERMIT# P7032            8. PROP. ADDR: CASHIERS
1. DATE: 07.21.15       9. PROP. DESC: NORTON RD
2. TYPE: BEPMW          10. LAND. AREA:
3. NAME: BLUE STAR RANCH LLC 11. GENL. CONT: CHINQUAPIN BUILDERS, INC
4. ADDR: 806 SWEETBRIAR RD 12. ELEC. CONT: BALLENTINE TIMOTHY
5. CSZ : MEMPHIS TN 38120 13. PLUM. CONT: C & S PLUMBING
6. TELE: 828743-3281     14. MECH. CONT: MADCO
7. TELE: 828342-0137    15. MHST. CONT:
16. OTHR. CONT:
ENTER "EX"IT, NUMBER TO CHANGE OR <CR> TO CONTINUE █

```

- To look up well/septic permits related to this Building Permit you would have to print this screen (or write these numbers down with a pen and paper since this system did not allow for copy and paste) and log into another portal to search for these permits.

# How we view related permits in ROK



## PERMITTING SYSTEM

Sign Out   
Hello jcpermitcenter@jacksonnc.org

- ▶ TAX RECORD SEARCH
- ▶ APPLICATIONS
- ▶ ENVIRONMENTAL HEALTH
- ▶ SCANNED PERMITS DICTIONARY
- ▶ EROSION CONTROL
- ▶ BUILDING PERMITS
- ▶ PLANNING / ZONING
- ▶ ADMIN LISTS
- ▶ DASHBOARDS & REPORTS
- ▶ USERS
- ▶ COMPLAINT FORM

### LAND DEVELOPMENT PERMITS

Owner Name, PIN, Property Address, Contact Name

Application Number

Application Fee  ▼

Application Date  to

Contractor Name

Inspection Office  ▼

◀ 1 of 1 ▶ 10 / Page

	Attach Images	Print Application	Map Parcel	Application Number	Application Date	Approval Initials	PIN	Property Address	Application Fee	Owner Name	Contact Name	Acreage	Status
													
			2013-734	10/14/2013	RS	7671-16-2249	LT 68 BALSAM MTN PRESERVE	New Single Family - \$50	STRAW, DAVID J	BRINKMAN, TODD	1.96	Closed	

Permits **Env. Health Applications** Application Images

◀ 1 of 1 ▶ 10 / Page

Permit Number	Permit Date	Permit Type	Comments
2013-734-2-194	12/11/2013	Building Permit	New Single Family - Detached
2013-734-9-1802	10/9/2013	Improvement Permit	
2013-734-9-1802	10/9/2013	Construction Authorization	
2013-734-9-1802	10/9/2013	Operations Permit	
2013-734-9-1823	10/9/2013	Improvement Permit	
2013-734-9-1823	10/9/2013	Construction Authorization	
2013-734-9-1823	10/9/2013	Operations Permit	
2013-734-9-1802	10/9/2013	Well Permit	

The new software gives a list of any permits that have been issued off of the original Land Development Permit. You can copy and paste any permit in the system to see other information; no need to go to another portal.



PERMIT NUMBER 1793061 AUTH TO CONSTRUCT	DATE PER06.30.16	PERMIT NUMBER 7630-25-8653
APPLICANT HILL, IVAN L 168 WILLOW MEADOW CIR SYLVA NC 287796123	OWNER: HILL, IVAN L <sup>2</sup> HILL, DEBRA 168 WILLOW MEADOW CIR SYLVA NC	
TELEPHONE: 828.226-6019		287796123
SPECIFICATIONS: 3 EDR (360GPD)		
LOCATION/DIRECTIONS: OLD GRASSHOPPER RD		
EE: 80	6020	RECEIPT: SIGNATURE OF OWNER OR AUTHORIZED AGENT:

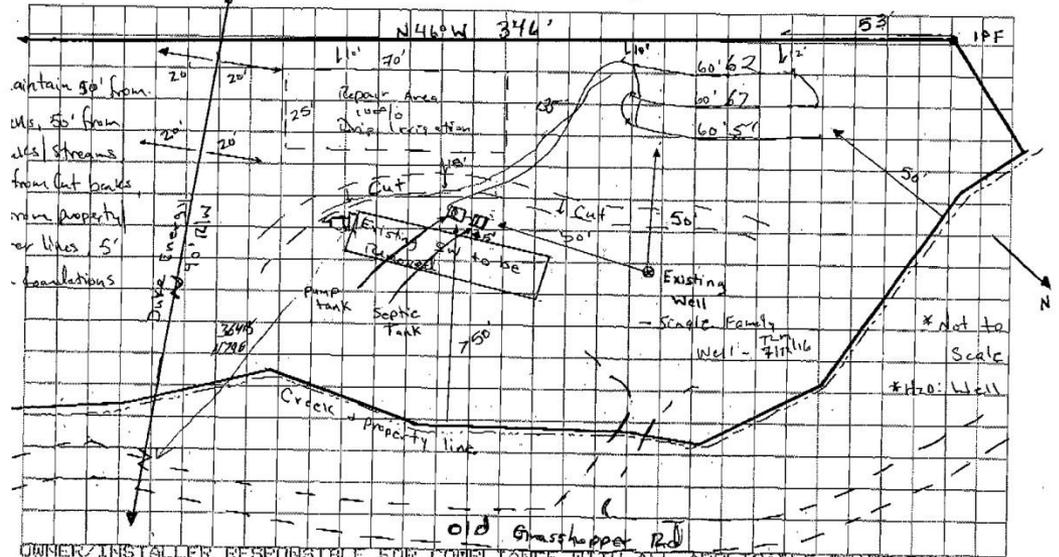
The above signature indicates that I have read, understood and concur with all provisions and information as outlined on the back.

REMARKS: 360G (360gpd) TYPE SYS IIIb IIa 25% reduction \*Certified Level II Installer Required\*

SZ. TANK 1000g. SZ. CHAMB 1000g. NITRIFI 720ft<sup>2</sup> OPER. PER 1/A

REMARKS \*Install (1) 1000g. Septic Tank to (1) 1000g. Pump Tank feeding 180 linear feet of 25% reduction type drain field, installed in (3) 60' long x 3' wide x 18" deep on the low side, trenches. Trenches shall be dug on contour and a 9" on center. \*May use D-box or serial feed

SITE VISIT 1: \_\_\_\_\_  
 SITE VISIT 2: \_\_\_\_\_  
 SITE VISIT 3: \_\_\_\_\_  
 SITE VISIT 4: \_\_\_\_\_



OWNER/INSTALLER RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE STATE RULES

DATE ISSUED \_\_\_\_\_ ENV HEALTH SPEC \_\_\_\_\_  
 DATE APPROVED 7/2/16 ENV HEALTH SPEC \_\_\_\_\_  
 JCDPH 2500 (10/01) \_\_\_\_\_ (REHS) 2493

- Sample of a Fusion Septic Permit
- Difficult to read at times
- Mostly hand-written permit
- No room for extra permit data



The Jackson County Department of Public Health  
538 Scotts Creek Rd. Suite 100 \* Sylva, NC 28779  
Tel: 828-586-8994 \* FAX: 828-586-3493  
Paula G. Carden  
DIRECTOR

### Authorization to Construct

<b>Reference Number:</b> J79512I	<b>Permit Number:</b> 2016-6952-9-4241
<b>PIN:</b> 7584-91-7224	<b>Application Date:</b> 8/10/2016
<b>Owner:</b> CHINQUAPIN LLC	<b>City:</b> CORNELIUS NC
<b>Address:</b> 19241 A LIVERPOOL PKY	<b>Zip Code:</b> 28031
<b>Service Type:</b> IP / CA / OP	

**Directions To Site:** 64E; L ON CEDAR CREEK; R ON BREEDLOVE; L INTO CHINQUAPIN; NEW CLUSTER DEVELOPMENT NEAR MAINTENANCE BUILDING (3033 BREEDLOVE RD)

**Initial System Type:** IIA-25% REDUCTION

**Distribution:** SERIAL

**Minimum Grade Level:** II

**Nitrification:** 600 SQ FT

**Pump Tank Size:**

**Repair System Type:** IIIe-PPAPS

**Septic Tank Size:** 1000 g

**Water Supply:** COMMUNITY WELL

INSTALL A 1000 GALLON S/T FEEDING 150' OF DRAINLINE 36" WIDE, 18" DEEP ON LOW SIDE, WITH 9' CENTERS LEVEL AND ON CONTOUR. MAINTAIN 100' FROM WELLS, 50' FROM SURFACE WATER, 15' FROM CUT BANKS / BASEMENTS, 10' FROM PROPERTY LINES / WATER LINES, AND 5' FROM ALL FOUNDATIONS. A LEVEL II CERTIFIED INSTALLER IS REQUIRED. A PREINSTALLATION MEETING IS REQUIRED.

**Remarks:**

**Fee:** \$320.00

**EHS:** *[Signature]* REHS 1959

**Signature:** \_\_\_\_\_

**Receipt:**

**Date:** 8/16/16

**Date:** \_\_\_\_\_

Environmental Health is starting to test the use of their new permits. Permits will now print on two pages so that they will have unlimited space to write any permit notes.

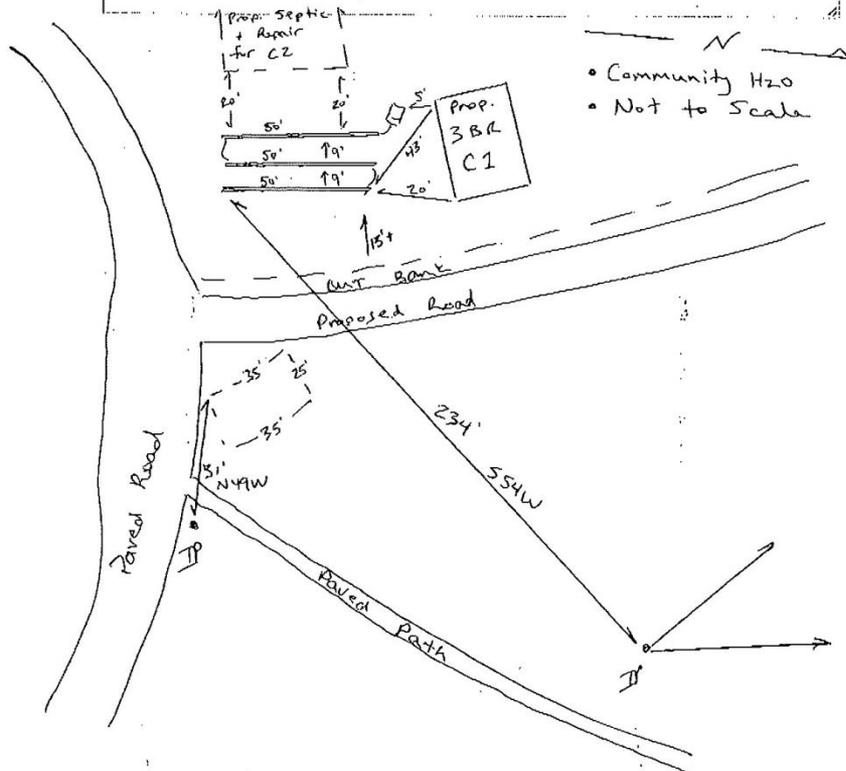


Jackson County Department of Public Health  
538 Scotts Creek Road, Suite 100  
Sylva, NC 28779  
Phone: (828) 587-8250 FAX: (828) 586-1207

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Signature:

EHS: *ZMN* REHS 1959

This is an example of the drawing that will now be on the second page of the printed Environmental Health Permit.

Environmental Health has created all of their permits under one portal so they can issue six different types of permits from one permit screen. They have, also, added in their Soil Sheet, Log Sheets, and Well Inspection/Evaluation forms for easy access; they, typically, keep paper copies of these sheets in their files.

**JACKSON COUNTY NORTH CAROLINA**

**PERMITTING SYSTEM**

Sign Out  
Hello jcpermitcenter@jackson

**ENV HEALTH PERMIT**

PIN Number

Permit Number

Reference Number (J#)

Owner Name, Owner Address

Permit Service Type

Permit Date  to

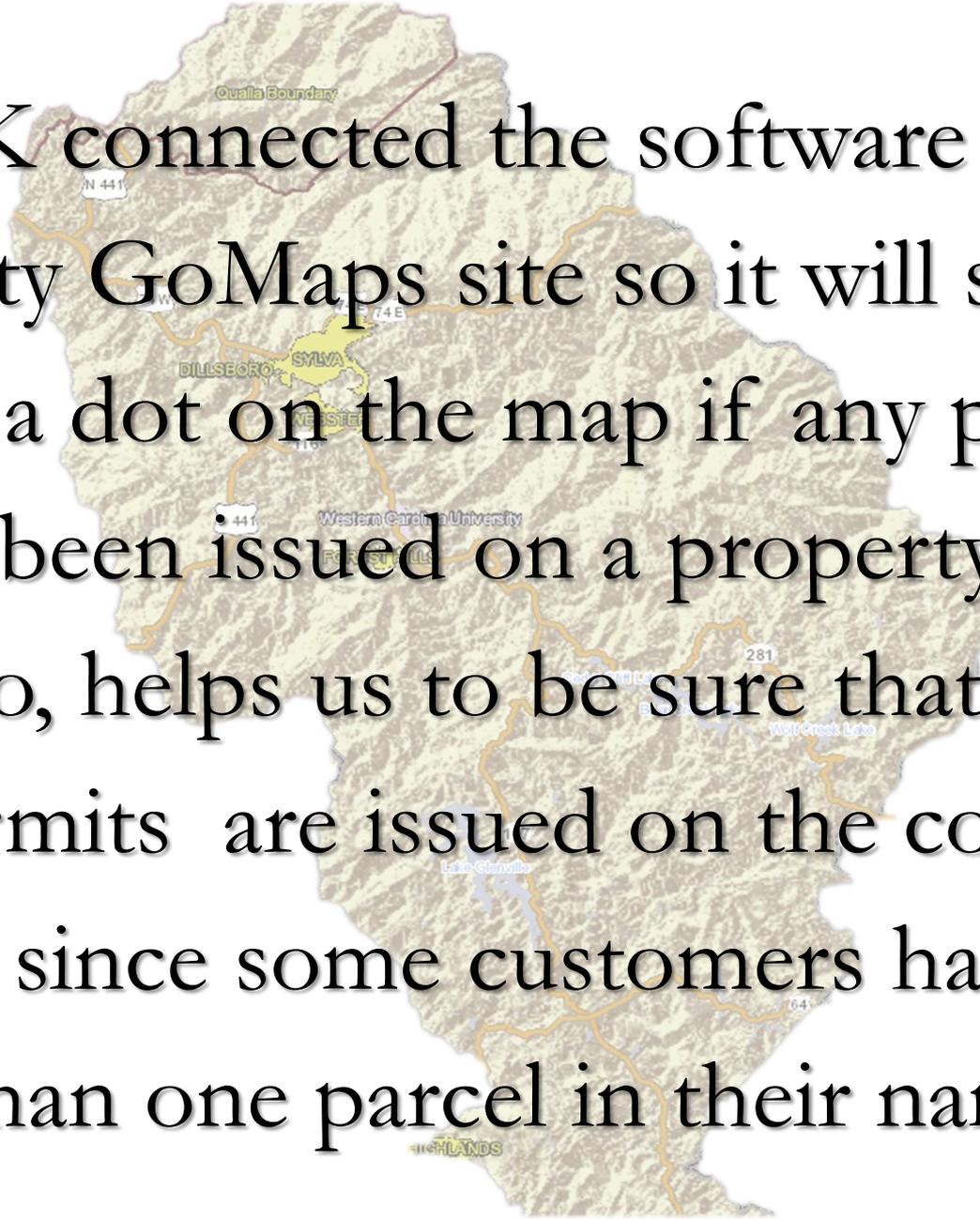
1 of 10 / Page

Inspection Request	Attach Images	Add Log Sheet	Permit Number	Permit Date	Permit Service Type	Owner Name	PIN
			2013-734-9-1802	10/9/2013	IP / CA / OP / Well Permit	STRAW, DAVID J	7671-16-2249 5301

Improvement Permit | Authorization To Construct | Operations Permit | Well Permit | Water System Evaluation | Well Inspection Form | Soil Sheet | Images | Log Sheet

1 of 10 / Page

Initial System Type	LTAR	REpair System Type	Water Source	REHS	Date Issued	Notes
IIIf-10" LDP	0.6	IIIf-10" LDP	Proposed Well	SAS	10/22/2013	



ROK connected the software to our County GoMaps site so it will show us with a dot on the map if any permits have been issued on a property. This, also, helps us to be sure that new permits are issued on the correct parcel since some customers have more than one parcel in their name.

Clicking on the globe next to this application will show this property on the map and it will, also, let us know if any of their neighbors have permits, if we should investigate work that may have occurred without a permit in the area.



# Jackson County, North Carolina

- ▶ TAX RECORD SEARCH
- ▶ APPLICATIONS
- ▶ ENVIRONMENTAL HEALTH
- ▶ SCANNED PERMITS DICTIONARY
- ▶ EROSION CONTROL
- ▶ BUILDING PERMITS
- ▶ PLANNING / ZONING
- ▶ ADMIN LISTS
- ▶ ENVIRONMENTAL HEALTH ADMIN LISTS
- ▶ DASHBOARDS & REPORTS
- ▶ USERS

### APPLICATIONS

Owner Name, PIN, Property Address, Contact Name  GO

Application Number

Application Date  to

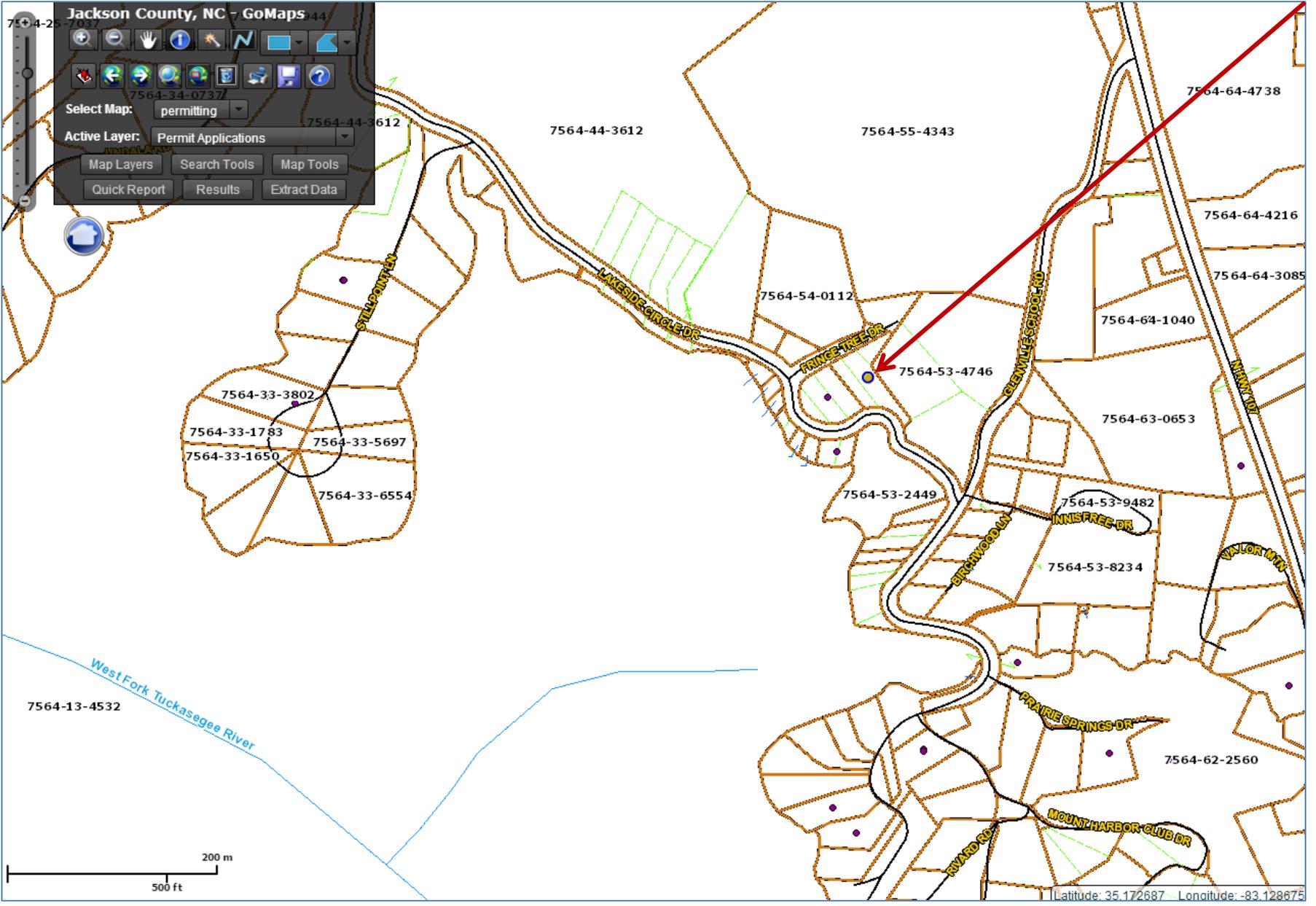
Contractor Name

	Attach Images	Print Application	Map Parcel	Application Number	Application Date	Approval Initials	PIN	Property Address	Application Fee
				2014-1468	6/16/2014	JB	7564-53-2856	48 FRINGE TREE DR	Additions / Renovations / N Work- larger than 500 sf -

Permits Env. Health Applications Application Images

◀ 1 of 1 ▶ / Page

	Permit Number	Permit Date	Permit Type	Comments
	2014-1468-2-532	6/18/2014	Building Permit	Addition - Residential



The County GIS Department has been working to take this a step further. They are relying more on the GPS location for the permit dots so we won't have to rely so much on the ever-changing PIN to track old permits. This will help save time for permit clerks and will help us get information to customers more efficiently in the near future.

An aerial, isometric view of a city with numerous 3D buildings of varying heights and colors (grey, white, red, yellow). A road with a blue lane runs along the top right. The text "The Future of GIS in Permitting" is overlaid in the center in a black serif font.

# The Future of GIS in Permitting

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- ROK Technologies and Jackson County GIS are exploring the idea of making the permitting system “GIS Centric.”

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- ROK Technologies and Jackson County GIS are exploring the idea of making the permitting system “GIS Centric.”
- Using GIS as the backbone of the permitting system allows unprecedented tracking of information from many data sources, regardless of the software used in other offices.



## Permit Location Point

Purple Text – GIS data

Red Text – Permitting data

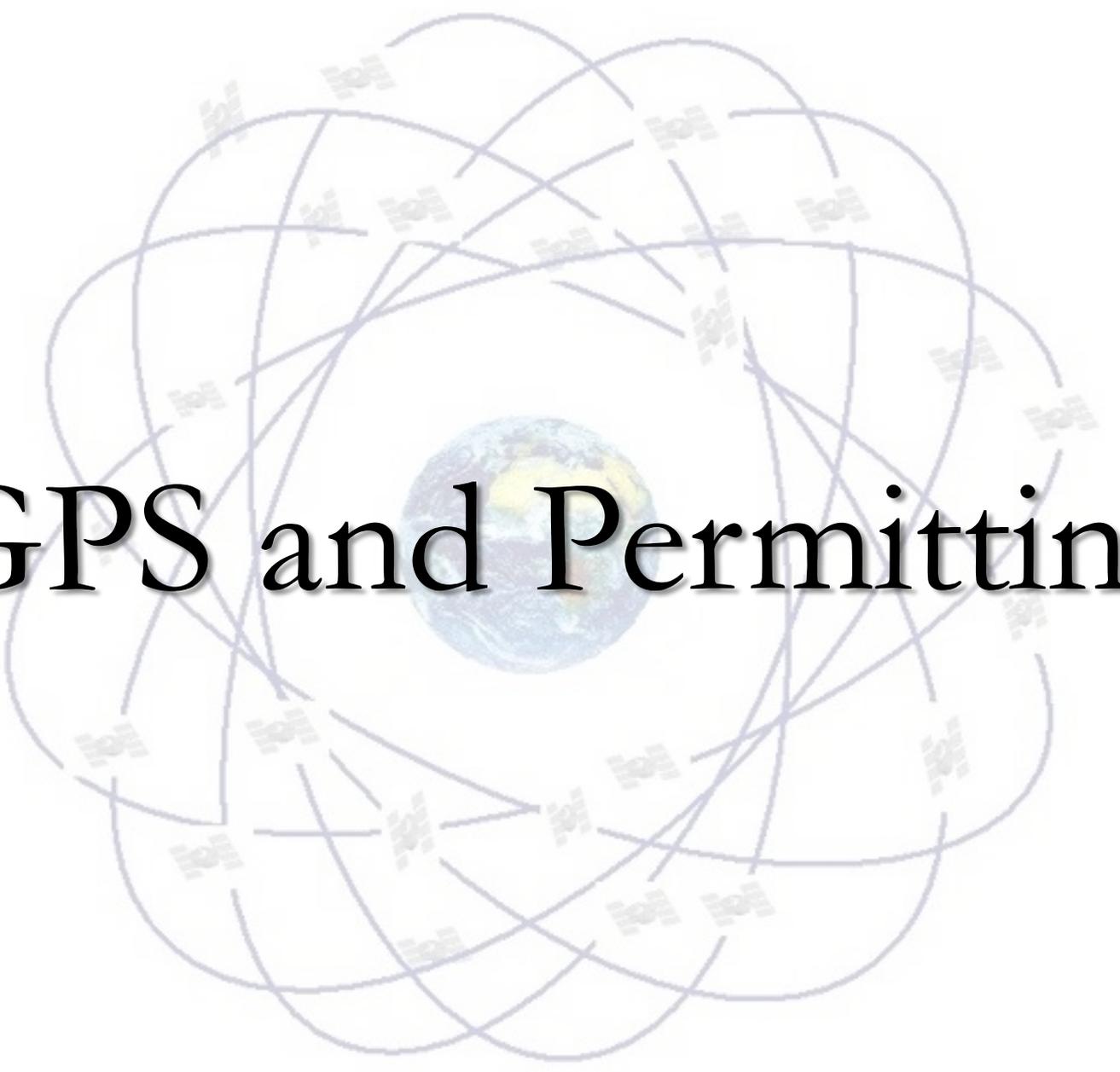
Blue Text – Land Records data

# The Future of GIS in Permitting

- Tying permits to locations on the face of the earth allows the GIS system to track both permit information, current tax ownership information, and any other data that may be deemed useful in the future.

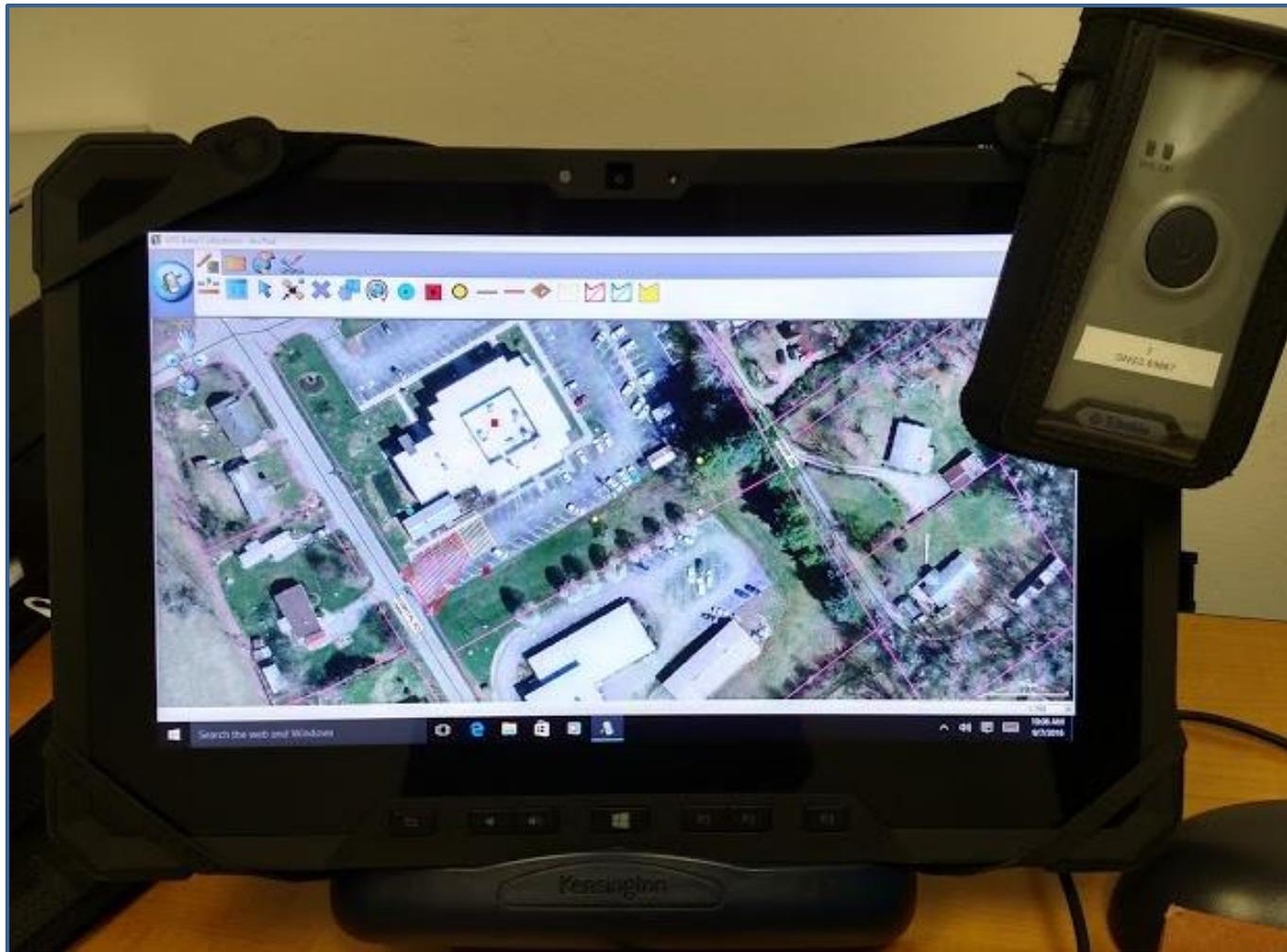
# The Future of GIS in Permitting

- Tying permits to locations on the face of the earth allows the GIS system to track both permit information, current tax ownership information, and any other data that may be deemed useful in the future.
- As PIN numbers change in Land Records, the GIS can keep tax information up to date in permitting. This allows Land Records to maintain long established business practices and use any software they choose.

A diagram of the GPS satellite constellation. It features a central Earth globe surrounded by three intersecting orbital planes. Numerous satellite icons are distributed across these orbits, representing the constellation of satellites used for GPS. The text "GPS and Permitting" is overlaid on the center of the diagram.

# GPS and Permitting

Next generation GPS systems are now in use in Environmental Health.  
The systems consist of rugged Windows tablets specified by the GIS  
department to work with existing GIS products and new  
Trimble GPS receivers:



# GPS and Permitting

- GPS is being used to map approximate locations of well and septic systems.

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- GPS is being used to map approximate locations of well and septic systems.
- GPS will be used to correct permit point locations. The corrected locations will track permitting history, current PIN, and current tax ownership.
- GPS locations of well and septic systems will eventually be tied into the permitting system via GIS.

