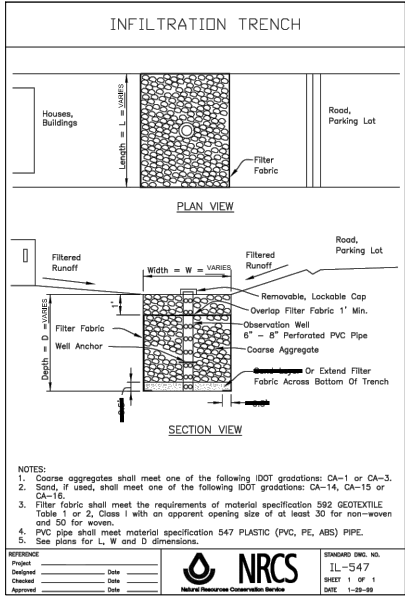
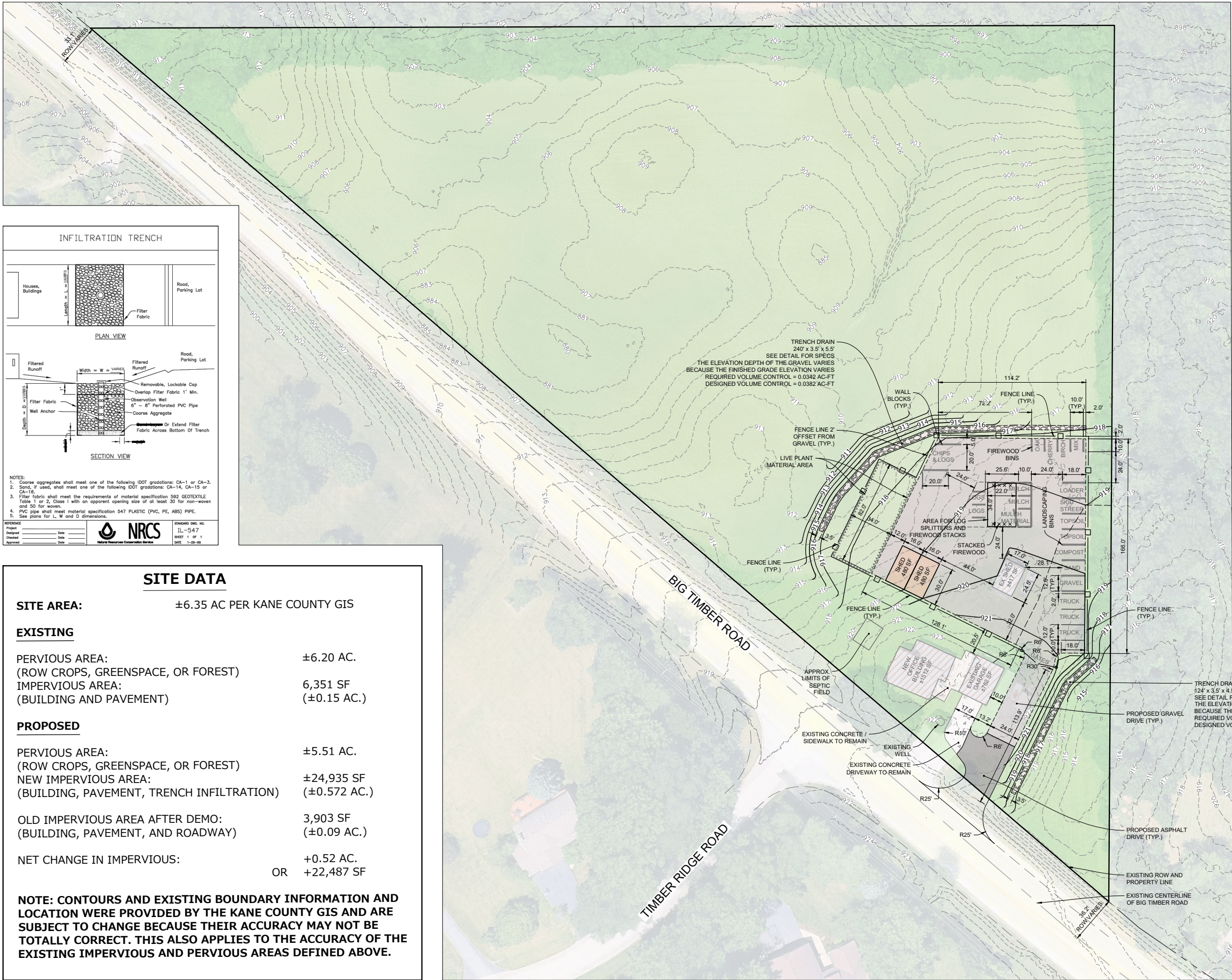


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### SITE DATA

**SITE AREA:** ±6.35 AC PER KANE COUNTY GIS

#### EXISTING

PERVIOUS AREA: ±6.20 AC.  
(ROW CROPS, GREENSPACE, OR FOREST)  
IMPERVIOUS AREA: 6,351 SF  
(BUILDING AND PAVEMENT) (±0.15 AC.)

#### PROPOSED

PERVIOUS AREA: ±5.51 AC.  
(ROW CROPS, GREENSPACE, OR FOREST)  
NEW IMPERVIOUS AREA: ±24,935 SF  
(BUILDING, PAVEMENT, TRENCH INFILTRATION) (±0.572 AC.)  
OLD IMPERVIOUS AREA AFTER DEMO: 3,903 SF  
(BUILDING, PAVEMENT, AND ROADWAY) (±0.09 AC.)  
NET CHANGE IN IMPERVIOUS: +0.52 AC.  
OR +22,487 SF

**NOTE: CONTOURS AND EXISTING BOUNDARY INFORMATION AND LOCATION WERE PROVIDED BY THE KANE COUNTY GIS AND ARE SUBJECT TO CHANGE BECAUSE THEIR ACCURACY MAY NOT BE TOTALLY CORRECT. THIS ALSO APPLIES TO THE ACCURACY OF THE EXISTING IMPERVIOUS AND PERVIOUS AREAS DEFINED ABOVE.**

### LEGEND

|  |                                                                                                                                                                                                                                                                                                                      |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | ASPHALT PAVEMENT - LIGHT DUTY<br>2.0" BIT. SURFACE COURSE, HMA, MIX D,<br>N50 9.5mm NOMINAL SIZE, PG64-22<br>(R.A.S. NOT PERMITTED)<br>2.5" BIT. BINDER COURSE, HMA, IL-19, N50,<br>19.0mm NOMINAL SIZE, PG64-22<br>0.30 GAL/SY BITUMINOUS PRIME COAT (MC-30)<br>10" COMPACTED CA-6 AGGREGATE BASE<br>COURSE, TYPE-B |
|  | GRAVEL DRIVE<br>8" COMPACTED CA-6 AGGREGATE                                                                                                                                                                                                                                                                          |
|  | TRENCH INFILTRATION<br>4.5' OR 5.5' OF CA-1 OR CA-3 AGGREGATE                                                                                                                                                                                                                                                        |

#### EXISTING VOLUME CONTROL REQUIRED CALCULATIONS

| AREA | NEW IMP.<br>TRIB. AREA<br>(SF) | NEW IMP.<br>TRIB. AREA<br>(AC.) | RAINFALL<br>(FT.) | REQUIRED<br>VC (AC-FT) |
|------|--------------------------------|---------------------------------|-------------------|------------------------|
| WEST | 17,868                         | 0.410                           | 0.0833            | 0.0342                 |
| EAST | 6,882                          | 0.158                           | 0.0833            | 0.0132                 |

#### INFILTRATION TRENCH DIMENSIONS

| AREA | LENGTH (FT) | WIDTH (FT) | DEPTH (FT) | VOLUME (FT) |
|------|-------------|------------|------------|-------------|
| WEST | 240         | 3.5        | 5.5        | 4620        |
| EAST | 124         | 3.5        | 4.5        | 1953        |

#### DESIGNED VOLUME CONTROL CALCULATIONS

| AREA | VOLUME (AC-FT) | VOLUME (AC-FT) WITH<br>0.36 VOID RATIO |
|------|----------------|----------------------------------------|
| WEST | 0.1061         | 0.0382                                 |
| EAST | 0.0448         | 0.0161                                 |



SCALE: 1"=80'