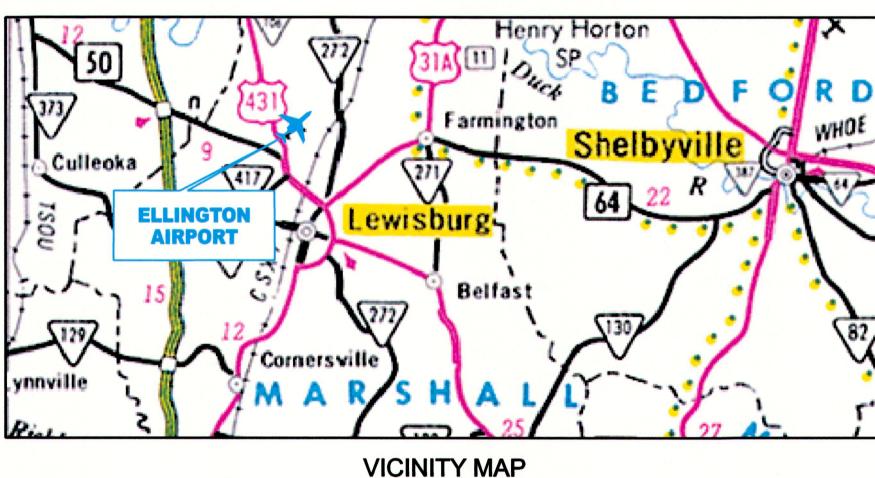
# AIRPORT LAYOUT PLAN SET FOR THE ELLINGTON AIRPORT

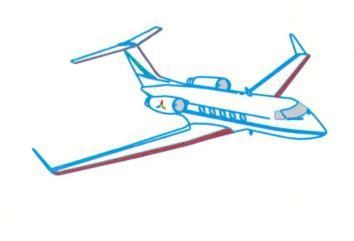
TAD NO. 59-555-0146-18

PREPARED FOR THE

## CITY OF LEWISBURG







## STATE OF TENNESSEE

HONORABLE BILL LEE, GOVERNOR

### DEPARTMENT OF TRANSPORTATION

**CLAY BRIGHT, COMMISSIONER** 

#### TENNESSEE AERONAUTICS DIVISION

MICHELLE FRAZIER, DIRECTOR J. P. SAALWAECHTER, P.E., CHIEF ENGINEER STEVE UPSHAW, PROJECT MANAGER

## CITY OF LEWISBURG

JIM BINGHAM, MAYOR KENT STEWMON, AIRPORT MANAGER **BUCK BEARD, INTERIM CITY MANAGER** TERRY JACKSON, AIRPORT BOARD PRESIDENT





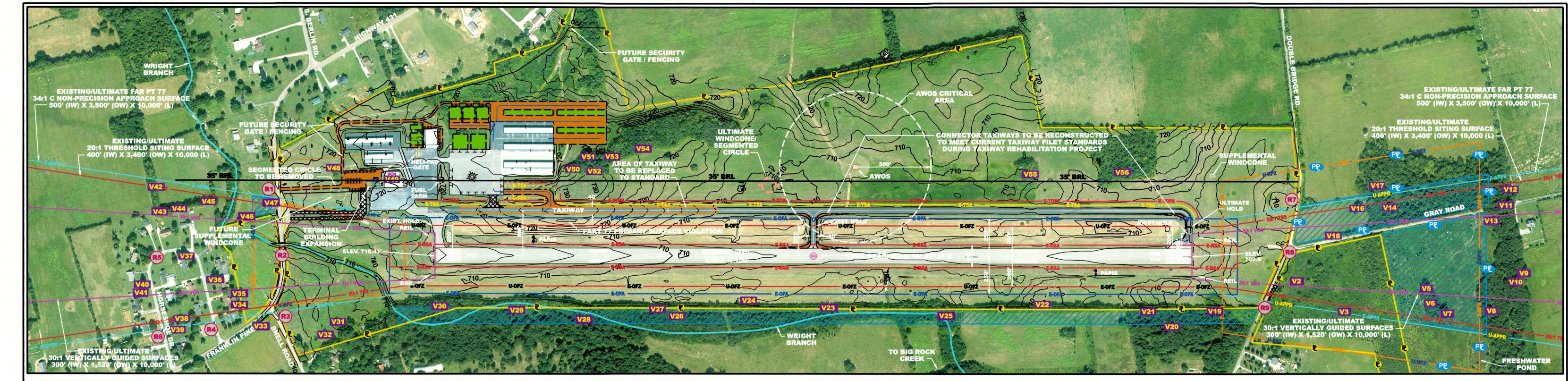
| SHEET NO. | TITLE                                      |
|-----------|--|
|           | COVER SHEET                                |
| 1         | AIRPORT LAYOUT DRAWING                     |
| 2         | TERMINAL AREA PLAN                         |
| 3         | AIRSPACE DRAWING                           |
| 4         | INNER APPROACH 2 SURFACE DRAWING           |
| 5         | INNER APPROACH 20 SURFACE DRAWING          |
| 6         | LAND USE MAP                               |
| 7         | AIRPORT CAPITAL IMPROVEMENT PLAN           |
| 8         | EXHIBIT "A" AIRPORT PROPERTY INVENTORY MAR |
|           |  |

INDEX OF DRAWINGS



PDC CONSULTANTS, LLC.

133 Holiday Court Suite 102 Franklin, TN 37067 Phone: (615) 614-0121 Fax: (615) 614-0124



| RUNWAY DATA                              |                       |              |                                      |          |                                      |          |  |  |
|--|-----------------------|--------------|--------------------------------------|----------|--------------------------------------|----------|--|--|
|  |                       |              | RUNV                                 | VAY 2    | RUNW                                 | /AY 20   |  |  |
| ITEM                                     | ITEM                  |              |                                      | ULTIMATE | EXISTING                             | ULTIMATE |  |  |
| EFFECTIVE GRADIENT (%)                   |                       |              | 0.2%                                 | SAME     | 0.2%                                 | SAME     |  |  |
| MAXIMUM GRADE CHANGE                     |                       |              | 0.5%                                 | SAME     | 0.5%                                 | SAME     |  |  |
| WIND COVERAGE (%)                        |                       |              | 98.55%                               | SAME     | 98.55%                               | SAME     |  |  |
| MAX. ELEVATION (NAVD88)                  |                       |              | 718.41'                              | SAME     | 709.9'                               | SAME     |  |  |
| RUNWAY LENGTH                            |                       |              | 5,002'                               | SAME     | 5,002'                               | SAME     |  |  |
| RUNWAY WIDTH                             |                       |              | 100'                                 | 100'     | 100'                                 | 100'     |  |  |
| DISPLACEMENT                             |                       |              | NONE                                 | NONE     | NONE                                 | NONE     |  |  |
| SURFACE TYPE                             |                       |              | ASPHALT                              | SAME     | ASPHALT                              | SAME     |  |  |
|  |                       | SWL          | 28,000                               | TBD      | 28,000                               | TBD      |  |  |
| PAVEMENT STRENGTH                        |                       | DWL          | 41,000                               | TBD      | 41,000                               | TBD      |  |  |
| APPROACH SURFACE SLOP                    | PE                    |              | 34:1                                 | SAME     | 34:1                                 | SAME     |  |  |
| APPROACH VISIBILITY MINI                 | MUMS                  |              | 1 MILE                               | SAME     | 7/8 MILE                             | SAME     |  |  |
| VISUAL APPROACH AIDS                     |                       |              | REIL, VASI                           | SAME     | REIL, VASI                           | SAME     |  |  |
| RUNWAY DEPARTURE SUR                     | FACE                  |              | YES                                  | SAME     | YES                                  | SAME     |  |  |
| INSTRUMENT APPROACH A                    | AID                   |              | LPV / LNAV / GPS                     | SAME     | LPV/LNAV/GPS                         | SAME     |  |  |
| LIGHTING                                 |                       |              | MIRL                                 | SAME     | MIRL                                 | SAME     |  |  |
| RUNWAY MARKING                           |                       |              | NPI                                  | SAME     | NPI                                  | SAME     |  |  |
| FAR PART 77 CATEGORY                     |                       |              | C(NP)                                | SAME     | C(NP)                                | SAME     |  |  |
| RUNWAY END<br>COORDINATES (NAD 83)       | LATITUDE<br>LONGITUDE |              | N 35° 30' 01.60"<br>W 86° 48' 23.41" | SAME     | N 35° 30' 48.61"<br>W 86° 48' 04.58" | SAME     |  |  |
| DISPLACED THRESHOLD COORDINATES (NAD 83) | LATITUDE<br>LONGITUDE |              | NONE                                 | NONE     | NONE                                 | NONE     |  |  |
| RUNWAY END ELEVATIONS                    | (NAVD88)              |              | 718.4'                               | SAME     | 709.9'                               | SAME     |  |  |
| DISPLACED THRESHOLD EI                   | LEVATIONS (NAVE       | <b>(88</b> ) | NONE                                 | NONE     | NONE                                 | NONE     |  |  |
| TDZ ELEVATION (NAVD88)                   |                       |              | 711.7'                               | SAME     | 709.9'                               | SAME     |  |  |
| RUNWAY DESIGN CODE (RDC)                 |                       |              | B-II-5000                            | SAME     | B-II-4000                            | SAME     |  |  |
| APPROACH REFERENCE CODE (APRC)           |                       |              | B-III-5000<br>D-II-5000              | SAME     | B-III-4000<br>D-II-4000              | SAME     |  |  |
| DEPARTURE REFERENCE O                    | CODE (DPRC)           |              | B-III<br>D-II                        | SAME     | B-III<br>D-II                        | SAME     |  |  |
| AERONAUTICAL SURVEY REQUIRED             |                       |              | VERTICUALLY GUIDED                   | SAME     | VERTICUALLY GUIDED                   | SAME     |  |  |

|               | RUNWAY SAFETY AREA INVENTORY |       |                      |       |                   |           |  |  |  |
|---------------|------------------------------|-------|----------------------|-------|-------------------|-----------|--|--|--|
| RUNWAY        |                              |       |                      |       |                   |           |  |  |  |
| END<br>NUMBER | LENGTH<br>BEYOND RWY         | WIDTH | LENGTH<br>BEYOND RWY | WIDTH | RSA DETERMINATION |           |  |  |  |
| RUNWAY 2      | 300'                         | 150'  | 300'                 | 150'  | NO VIOLATIONS     | NO ACTION |  |  |  |
| RUNWAY 20     | 300'                         | 150'  | 300'                 | 150'  | NO VIOLATIONS     | NO ACTION |  |  |  |

|    | TRAVERSE WAY            |                              |                       |  |                   |                    |  |  |
|----|-------------------------|------------------------------|-----------------------|--|-------------------|--------------------|--|--|
| #  | NAME                    | GROUND<br>ELEVATION<br>(FT.) | TOP * ELEVATION (FT.) | APPROACH<br>SURFACE<br>ELEVATION (FT.) | PENETRATION (FT.) | PROPOSED<br>ACTION |  |  |
| R1 | FRANKLIN PIKE           | 721.4'                       | 736.4'                | 745.3'                                 | NONE              | NONE               |  |  |
| R2 | FRANKLIN PIKE           | 718.3'                       | 733.3'                | 742.1'                                 | NONE              | NONE               |  |  |
| R3 | FRANKLIN PIKE           | 718.1'                       | 733.1'                | 742.9'                                 | NONE              | NONE               |  |  |
| R4 | HORSESHOE DR.           | 720.0'                       | 735.0'                | 755.4'                                 | NONE              | NONE               |  |  |
| R5 | HORSESHOE DR.           | 724.0'                       | 739.0'                | 766.1'                                 | NONE              | NONE               |  |  |
| R6 | HORSESHOE DR.           | 723.0'                       | 738.0'                | 765.4'                                 | NONE              | NONE               |  |  |
| R7 | DOUBLE BRIDGE RD.       | 708.4'                       | 723.4'                | 724.4'                                 | NONE              | NONE               |  |  |
| R8 | GRAY ROAD               | 702.6'                       | 717.6'                | 722.4'                                 | NONE              | NONE               |  |  |
| R9 | DOUBLE BRIDGE RD.       | 702.8'                       | 717.8'                | 717.9'                                 | NONE              | NONE               |  |  |
|    | * 15' ADDED FOR ROAD CI | EARANCE                      |                       |  |                   |                    |  |  |

| AIF  | RPORT DATA  |                         |  |  |  |  |
|--|---|-------------------------|--|--|--|--|
| EXISTING ULTIMATE  |   |                         |  |  |  |  |
| AIRPORT ELEVATION (MSL)                                    | 718.4'  |                         |  |  |  |  |
| AIRPORT REFERENCE POINT<br>COORDINATES (NAD 83)            | LAT. N 35° 30' 25.11"<br>LONG. W 86° 48' 13.99"               | LAT. SAME<br>LONG. SAME |  |  |  |  |
| MEAN MAX. TEMP. OF HOTEST MONTH                            | JULY - 90° F  | SAME                    |  |  |  |  |
| AIRPORT TERMINAL AREA NAVAIDS<br>OWNED AND OPERATED BY LVG | ROTATING BEACON,<br>PRIMARY LIGHTED<br>WINDCONE / SEG. CIRCLE | SAME                    |  |  |  |  |
| AIRPORT REFERENCE CODE                                     | B-II  | B-II                    |  |  |  |  |
| DESIGN AIRCRAFT  | FALCON 50   | FALCON 50               |  |  |  |  |
| FUEL   | JETA/100LL  | SAME                    |  |  |  |  |

| R        | RUNWAY SAFETY AREA DIMENSIONS  ERSA —— URSA —— TOTAL —— T |                           |  |  |  |  |
|----------|--|---------------------------|--|--|--|--|
|          | WIDTH  | LENGTH BEYOND RUNWAY ENDS |  |  |  |  |
| EXISTING | 150'   | 300'                      |  |  |  |  |
| ULTIMATE | SAME   | SAME                      |  |  |  |  |

| RUN\     | <b>NAY OBJECT FF</b> | REE AREA DIMENSIONS       |
|----------|----------------------|---------------------------|
|          | E-OFA                |                           |
|          | WIDTH                | LENGTH BEYOND RUNWAY ENDS |
| EXISTING | 500'                 | 300'                      |
| ULTIMATE | SAME                 | SAME                      |

|              | RUNWAY PROTECTION ZONE DIMENSIONS |             |             |        |  |  |  |  |
|--------------|-----------------------------------|-------------|-------------|--------|--|--|--|--|
|              |                                   | INNER WIDTH | OUTER WIDTH | LENGTH |  |  |  |  |
| DUNNAVA      | INITIAL                           | 500'        | 700'        | 1,000' |  |  |  |  |
| RUNWAY 2     | ULTIMATE                          | SAME        | SAME        | SAME   |  |  |  |  |
| DI BULLAY OO | INITIAL                           | 1,000'      | 1,510'      | 1,700' |  |  |  |  |
| RUNWAY 20    | ULTIMATE                          | SAME        | SAME        | SAME   |  |  |  |  |

| RUNW          | RUNWAY OBSTACLE FREE ZONE DIMENSIONS |                           |  |  |  |  |  |
|---------------|--------------------------------------|---------------------------|--|--|--|--|--|
| U-OFZ         |                                      |                           |  |  |  |  |  |
|               | WIDTH                                | LENGTH BEYOND RUNWAY ENDS |  |  |  |  |  |
| EXISTING 400' |                                      | 200'                      |  |  |  |  |  |
| ULTIMATE      | 400'                                 | 200'                      |  |  |  |  |  |

| TRAVERSE WAY     |                              |                       |  |                   |                    |  |
|------------------|------------------------------|-----------------------|--|-------------------|--------------------|--|
| NAME             | GROUND<br>ELEVATION<br>(FT.) | TOP * ELEVATION (FT.) | APPROACH<br>SURFACE<br>ELEVATION (FT.) | PENETRATION (FT.) | PROPOSED<br>ACTION |  |
| FRANKLIN PIKE    | 721.4'                       | 736.4'                | 745.3'                                 | NONE              | NONE               |  |
| FRANKLIN PIKE    | 718.3'                       | 733.3'                | 742.1'                                 | NONE              | NONE               |  |
| FRANKLIN PIKE    | 718.1'                       | 733.1'                | 742.9'                                 | NONE              | NONE               |  |
| HORSESHOE DR.    | 720.0'                       | 735.0'                | 755.4'                                 | NONE              | NONE               |  |
| HORSESHOE DR.    | 724.0'                       | 739.0'                | 766.1'                                 | NONE              | NONE               |  |
| HORSESHOE DR.    | 723.0'                       | 738.0'                | 765.4'                                 | NONE              | NONE               |  |
| OUBLE BRIDGE RD. | 708.4'                       | 723.4'                | 724.4'                                 | NONE              | NONE               |  |
| GRAY ROAD        | 702.6'                       | 717.6'                | 722.4'                                 | NONE              | NONE               |  |
| OUBLE BRIDGE RD. | 702.8'                       | 717.8'                | 717.9'                                 | NONE              | NONE               |  |

|         | 1,000' 1,510'                              | 1,700'          |
|---------|--|-----------------|
|         | SAME SAME                                  | SAME            |
| CLE F   | REE ZONE DIME                              |                 |
|         | LENGTH BEYOND                              |                 |
|         | 200  |                 |
|         | 200  |                 |
| NS OF   | DESIGN STAND                               | ARDS            |
| ANDARDS | EXISTING CONDITION                         | PROPOSED ACTION |
| VA      | N/A  | NONE REQUIRED   |
|         |  |                 |
|         |  |                 |
| NDITIO  | NALLY APPROVED  Bankwaer Ats 3-17-21  Date |                 |

|   | OBSTRUCTION DATA      |                     |                           |                       |                             |  |  |  |
|---|-----------------------|---------------------|---------------------------|-----------------------|-----------------------------|--|--|--|
| PT 77 - 7:1 TRANSITIONAL SURFACE (TS), 34:1 APPROACH SURFACE (AS) |                       |                     |                           |                       |                             |  |  |  |
| V#  | DESCRIPTION           | OBJECT<br>ELEVATION | 34:1 SURFACE<br>VIOLATION | 30:1 VGS<br>VIOLATION | PROPOSED DISPOSITION        |  |  |  |
| V1  | *TREE (AS)            | -                   | -                         | -                     | -                           |  |  |  |
| V2  | TREE (AS)             | 723.47'             | 2.01'                     | .07'                  | TRIM / REMOVE               |  |  |  |
| V3  | TREE (AS)             | 727.98'             | 3.43'                     | -                     | TRIM / REMOVE               |  |  |  |
| V4  | * TREE (AS)           | -                   | -                         | -                     | -                           |  |  |  |
| V5  | TREE (AS)             | 763.99'             | 14.61'                    | 8.97'                 | TRIM / REMOVE               |  |  |  |
| V6  | TREE (AS)             | 761.78'             | 11.80'                    | -                     | TRIM / REMOVE               |  |  |  |
| V7  | TREE (AS)             | 759.26'             | 6.29'                     | -                     | TRIM / REMOVE               |  |  |  |
| V8  | TREE (AS)             | 761.84'             | 0.93'                     | -                     | TRIM / REMOVE               |  |  |  |
| V9  | TREE (AS)             | 779.07'             | 10.70'                    | 2.52'                 | TRIM / REMOVE               |  |  |  |
| V10   | TREE (AS)             | 771.24'             | 4.21'                     | 3.78'                 | TRIM / REMOVE               |  |  |  |
| V11   | TREE (AS)             | 780.70'<br>771.92'  | 15.96'                    | -                     | TRIM / REMOVE               |  |  |  |
| V12   |                       |                     | 6.17'                     | -                     | TRIM / REMOVE               |  |  |  |
| V13<br>V14  | TREE (AS)             | 764.27'<br>745.85'  | 3.40'<br>3.56'            | .23'                  | TRIM / REMOVE TRIM / REMOVE |  |  |  |
| V14<br>V15  | TREE (AS) * TREE (AS) | 740.00              |                           | <u> </u>              | I KIM / KEMUVE              |  |  |  |
| V15   | TREE (AS)             | 749.67'             | 13.30'                    | <u> </u>              | TRIM / REMOVE               |  |  |  |
| V10<br>V17  | TREE (AS)             | 751.64'             | 4.92'                     | -                     | TRIM / REMOVE               |  |  |  |
| V17   | TREE (IS)             | 731.04              | 3.81'                     | .68'                  | TRIM / REMOVE               |  |  |  |
| V19   | TREE (TS)             | 744.96'             | 18.62'                    | .00                   | TRIM / REMOVE               |  |  |  |
| V20   | TREE (TS)             | 779.17'             | 37.73'                    | -                     | TRIM / REMOVE               |  |  |  |
| V21   | TREE (TS)             | 749.06'             | 24.61'                    | <u>:</u>              | TRIM / REMOVE               |  |  |  |
| V22   | TREE (TS)             | 766.12'             | 40.02'                    |                       | TRIM / REMOVE               |  |  |  |
| V23   | TREE (TS)             | 746.41'             | 18.47'                    |                       | TRIM / REMOVE               |  |  |  |
| V24   | TREE (TS)             | 734.39'             | 12.45'                    |                       | TRIM / REMOVE               |  |  |  |
| V25   | TREE (TS)             | 747.30'             | 23.27'                    |                       | TRIM / REMOVE               |  |  |  |
| V26   | TREE (TS)             | 755.33'             | 15.06'                    | -                     | TRIM / REMOVE               |  |  |  |
| V27   | TREE (TS)             | 752.99'             | 22.84'                    | -                     | TRIM / REMOVE               |  |  |  |
| V28   | TREE (TS)             | 768.88'             | 30.54'                    | -                     | TRIM / REMOVE               |  |  |  |
| V29   | TREE (TS)             | 779.29'             | 42.09'                    | _                     | TRIM / REMOVE               |  |  |  |
| V30   | TREE (TS)             | 768.30'             | 36.78'                    |                       | TRIM / REMOVE               |  |  |  |
| V31   | TREE (TS)             | 763.10'             | 13.28'                    | -                     | TRIM / REMOVE               |  |  |  |
| V32   | TREE (TS)             | 771.03'             | 19.20'                    | -                     | TRIM / REMOVE               |  |  |  |
| V33   | TREE (TS)             | 756.36'             | 3.76'                     | -                     | TRIM / REMOVE               |  |  |  |
| V34   | TREE (AS)             | 765.86'             | 15.15'                    | -                     | TRIM / REMOVE               |  |  |  |
| V35   | TREE (AS)             | 765.85'             | 15.47'                    | -                     | TRIM / REMOVE               |  |  |  |
| V36   | TREE (AS)             | 777.63'             | 22.56'                    | 17.66'                | TRIM / REMOVE               |  |  |  |
| V37   | TREE (AS)             | 774.12'             | 12.82'                    | 7.09'                 | TRIM / REMOVE               |  |  |  |
| V38   | TREE (AS)             | 779.03'             | 17.38'                    | -                     | TRIM / REMOVE               |  |  |  |
| V39   | TREE (TS)             | 772.34'             | 4.87'                     | •                     | TRIM / REMOVE               |  |  |  |
| V40   | TREE (AS)             | 784.06'             | 15.31'                    | 8.58'                 | TRIM / REMOVE               |  |  |  |
| V41   | TREE (AS)             | 785.22'             | 16.08'                    | 9.30'                 | TRIM / REMOVE               |  |  |  |
| V42   | TREE (AS)             | 790.50'             | 23.07'                    | -                     | TRIM / REMOVE               |  |  |  |
| V43   | TREE (AS)             | 785.40'             | 20.56'                    | -                     | TRIM / REMOVE               |  |  |  |
| V44   | TREE (AS)             | 774.55'             | 14.09'                    | -                     | TRIM / REMOVE               |  |  |  |
| V45   | TREE (AS)             | 767.99'             | 12.77'                    | -                     | TRIM / REMOVE               |  |  |  |
| V46   | TREE (AS)             | 757.11'             | 5.57'                     | -                     | TRIM / REMOVE               |  |  |  |
| V47   | UTILITY POLE          | 744.93'             | 1.44'                     | <b>-</b>              | RELOCATE / LOWER            |  |  |  |
| V48   | TREE (TS)             | 787.14'             | 30.18'                    | -                     | TRIM / REMOVE               |  |  |  |
| V49   | BUILDING              | 752.50'             | 4.93'                     | -                     | LIGHT                       |  |  |  |
| V50   | TREE (TS)             | 783.11'             | 20.34'                    | -                     | TRIM / REMOVE               |  |  |  |
| V51   | TREE (TS)             | 796.12'             | 23.84'                    | -                     | TRIM / REMOVE               |  |  |  |
| V52   | TREE (TS)             | 785.94'             | 20.92'                    | -                     | TRIM / REMOVE               |  |  |  |
| V53   | TREE (TS)             | 777.38'             | 3.13'                     | -                     | TRIM / REMOVE               |  |  |  |
| V54   | TREE (TS)             | 778.17'             | 0.51'                     | -                     | TRIM / REMOVE               |  |  |  |
| V55   | TREE (TS)             | 767.08'             | 15.61'                    | -                     | TRIM / REMOVE               |  |  |  |
| V56   | TREE (TS)             | 761.20'             | 5.19'                     | -                     | TRIM / REMOVE               |  |  |  |
| - Table   |                       |                     | MOVED AND ARI             |                       |                             |  |  |  |

| ESCRIPTION  | OBJECT<br>ELEVATION | 34:1 SURFACE VIOLATION | 30:1 VGS<br>VIOLATION | PROPOSED DISPOSITION |               | TO INNER APPROARTY LINE LOCATIO |                |                |
|-------------|---------------------|------------------------|-----------------------|----------------------|---------------|---------------------------------|----------------|----------------|
| REE (AS)    | -                   | -                      | -                     | -                    |               | TACLE FREE ZON                  |                | ,              |
| REE (AS)    | 723.47'             | 2.01'                  | .07'                  | TRIM / REMOVE        |               | ESHOLD SITING S                 |                |                |
| REE (AS)    | 727.98'             | 3.43'                  | -                     | TRIM / REMOVE        | 6. ALL GVG    | SSI SITING MUST                 | BE IN ACCORD   | ANCE WITH FA   |
| REE (AS)    | -                   | - in in it             | -                     | -                    | 7. ALL COO    | ORDINATES BASEI                 | D ON NAD 83; E | LEVATIONS B    |
| REE (AS)    | 763.99'             | 14.61'                 | 8.97'                 | TRIM / REMOVE        | 8. PAVEME     | NT STRENGTH IS                  | LISTED AS RE   | PORTED ON A    |
| REE (AS)    | 761.78'             | 11.80'                 | -                     | TRIM / REMOVE        | 9. WETLAN     | IDS ARE DEPICTE                 | D AS SHOWN     | ON USFWS WE    |
| REE (AS)    | 759.26'             | 6.29'                  | -                     | TRIM / REMOVE        |               | G RUNWAY AND T                  |                |                |
| REE (AS)    | 761.84'             | 0.93'                  | -                     | TRIM / REMOVE        |               | E ADDITIONAL FU                 |                | •              |
| REE (AS)    | 779.07'             | 10.70'                 | 2.52'                 | TRIM / REMOVE        | 11. EXISTIN   | G AIRPORT FENC                  | ING INCLUDES   | BOTH 4' STO    |
| REE (AS)    | 771.24'             | 4.21'                  | 3.78'                 | TRIM / REMOVE        |               | G AVIGATION EAS                 | EMENTS FOR     | DI INWAY 20 DI |
| REE (AS)    | 780.70'             | 15.96'                 | -                     | TRIM / REMOVE        |               | SHIP OF RPZ BEY                 |                |                |
| REE (AS)    | 771.92'             | 6.17'                  | _                     | TRIM / REMOVE        |               | OR EASEMENT PE                  |                |                |
| REE (AS)    | 764.27'             | 3.40'                  | .23'                  | TRIM / REMOVE        | 14. REFER     | TO FAA AC 150/530               | 0-13 FOR AIRP  | ORT STANDA     |
| REE (AS)    | 745.85'             | 3.56'                  | .20                   | TRIM / REMOVE        | 15. SEE TER   | RMINAL AREA PLA                 | N FOR TAXIWA   | Y DATA TABLE   |
| REE (AS)    | 745.65              | 3.30                   |                       | TRIM / REMOVE        |               |                                 |                | /              |
|             | 749.67'             | 12 20'                 | -                     | TDIM / DEMOVE        |               |                                 | ADDDOV         | AL DI OO       |
|             |                     | 13.30'                 | -                     | TRIM / REMOVE        |               |                                 | APPROV         | AL BLOC        |
| REE (TS)    | 751.64'             | 4.92'                  | -                     | TRIM / REMOVE        |               |                                 |                |                |
| REE (AS)    | 734.39'             | 3.81'                  | .68'                  | TRIM / REMOVE        |               | 105                             | > (            |                |
| REE (TS)    | 744.96'             | 18.62'                 | -                     | TRIM / REMOVE        | 1             | be 2 &                          | Dland          | $\supset$      |
| REE (TS)    | 779.17'             | 37.73'                 | -                     | TRIM / REMOVE        | BUCKE         | BEARD, INTERIM CITY             | MANAGER        |                |
| REE (TS)    | 749.06'             | 24.61'                 | _                     | TRIM / REMOVE        |               | /                               |                |                |
| REE (TS)    | 766.12'             | 40.02'                 | -                     | TRIM / REMOVE        |               |                                 |                |                |
| REE (TS)    | 746.41'             | 18.47'                 | -                     | TRIM / REMOVE        |               |                                 | LEG            | SEND           |
| REE (TS)    | 734.39'             | 12.45'                 | -                     | TRIM / REMOVE        |               |                                 |                | EXISTIN        |
| REE (TS)    | 747.30'             | 23.27'                 | -                     | TRIM / REMOVE        | AIRPORT MAR   | SKINGS                          |                | EXIOTIIV       |
| REE (TS)    | 755.33'             | 15.06'                 | -                     | TRIM / REMOVE        |               | ETY AREA (RSA)                  |                | E-RSA -        |
| REE (TS)    | 752.99'             | 22.84'                 | _                     | TRIM / REMOVE        |               | ECT FREE AREA (ROI              | EA)            |                |
| REE (TS)    | 768.88'             | 30.54'                 |                       | TRIM / REMOVE        |               |                                 |                | E-OFA          |
| REE (TS)    | 779.29'             | 42.09'                 | _                     | TRIM / REMOVE        |               | TACLE FREE ZONE (F              |                | E-OFZ          |
| REE (TS)    | 768.30'             | 36.78'                 |                       | TRIM / REMOVE        |               | TECTION ZONE (RPZ               |                | E-RPZ ·        |
| REE (TS)    | 763.10'             | 13.28'                 |                       | TRIM / REMOVE        |               | APPROACH SURFACE                |                | E-AFFE         |
| REE (TS)    | 771.03'             | 19.20'                 |                       | TRIM / REMOVE        |               | ECT FREE AREA (TOF              | A)             | E-TOFA         |
|             | 756.36'             | 3.76'                  |                       | TRIM / REMOVE        |               | ETY AREA (TSA)                  |                | E-76A          |
|             |                     |                        |                       | TRIM / REMOVE        | 35' BUILDING  | RESTRICTION LINE (E             | BRL)           |                |
| REE (AS)    | 765.86'             | 15.15'                 |                       |                      | AIRPORT PAV   |                                 |                |                |
| REE (AS)    | 765.85'             | 15.47'                 | 47.00                 | TRIM / REMOVE        | AIRPORT REF   | ERENCE POINT                    |                | <del></del>    |
| REE (AS)    | 777.63'             | 22.56'                 | 17.66'                | TRIM / REMOVE        | AIRPORT BUIL  | LDINGS                          |                | SEE PHOT       |
| REE (AS)    | 774.12'             | 12.82'                 | 7.09'                 | TRIM / REMOVE        | AIRPORT PRO   | PERTY LINE                      |                | P.             |
| REE (AS)    | 779.03'             | 17.38'                 | -                     | TRIM / REMOVE        | AVIGATION EA  | ASEMENT                         |                | 111111         |
| REE (TS)    | 772.34'             | 4.87'                  | -                     | TRIM / REMOVE        | FENCE (SEE    | NOTE 11)                        |                |                |
| REE (AS)    | 784.06'             | 15.31'                 | 8.58'                 | TRIM / REMOVE        | * GROUND ELE  | VATIONS CONTOURS                |                | <del></del>    |
| REE (AS)    | 785.22'             | 16.08'                 | 9.30'                 | TRIM / REMOVE        | PAVEMENT OF   | R BUILDING TO BE RE             | MOVED          | NONE           |
| REE (AS)    | 790.50'             | 23.07'                 | -                     | TRIM / REMOVE        | GVGSI (PAPI's | 3)                              |                | 8              |
| REE (AS)    | 785.40'             | 20.56'                 | -                     | TRIM / REMOVE        | RUNWAY END    | INDENTIFIER LIGHTS              | S (REILs)      |                |
| REE (AS)    | 774.55'             | 14.09'                 | -                     | TRIM / REMOVE        | WINDCONE      |                                 |                |                |
| REE (AS)    | 767.99'             | 12.77'                 | -                     | TRIM / REMOVE        | BEACON        |                                 |                | 804            |
| REE (AS)    | 757.11'             | 5.57'                  | -                     | TRIM / REMOVE        |               |                                 |                |                |
| TILITY POLE | 744.93'             | 1.44'                  | -                     | RELOCATE / LOWER     | WINDCONE A    | ND SEGMENTED CIRC               | CLE            | -( )-          |
| REE (TS)    | 787.14'             | 30.18'                 | -                     | TRIM / REMOVE        |               |                                 |                |                |
| BUILDING    | 752.50'             | 4.93'                  | -                     | LIGHT                | PART 77 VIOL  | ATIONS                          |                | V#             |
| REE (TS)    | 783.11'             | 20.34'                 | _                     | TRIM / REMOVE        | * - 2 FOOT    | CONTOUR INTERVA                 | LSHOWN         |                |
| REE (TS)    | 796.12'             | 23.84'                 |                       | TRIM / REMOVE        |               |                                 |                |                |
| REE (TS)    | 785.94'             | 20.92'                 |                       | TRIM / REMOVE        |               | DF                              | CLARED         | DISTAN         |
| REE (TS)    | 777.38'             | 3.13'                  |                       | TRIM / REMOVE        |               |                                 |                |                |
|             | 778.17'             | 0.51'                  | -                     | TRIM / REMOVE        |               |                                 | EXISTING       | / UTLIMATE     |
|             |                     |                        | -                     |                      | RUNWAY        | TORA                            | TODA           |                |
| REE (TS)    | 767.08'             | 15.61'                 | -                     | TRIM / REMOVE        | END ID        | . 5101                          |                |                |
| REE (TS)    | 761.20'             | 5.19'                  | -                     | TRIM / REMOVE        | R/W 03        | 5,002'                          | 5,002'         |                |
|             |                     |                        |                       |                      | RW 21         | 5.002'                          | 5.002'         |                |

|                  | DE                  | CLARED DIS | TANCES |        |  |  |  |  |  |
|------------------|---------------------|------------|--------|--------|--|--|--|--|--|
|                  | EXISTING / UTLIMATE |            |        |        |  |  |  |  |  |
| RUNWAY<br>END ID | TORA                | TODA       | ASDA   | LDA    |  |  |  |  |  |
| R/W 03           | 5,002'              | 5,002'     | 5,002' | 5,002' |  |  |  |  |  |
| RW 21            | 5,002'              | 5,002'     | 5,002' | 5,002' |  |  |  |  |  |

## **GENERAL NOTES**

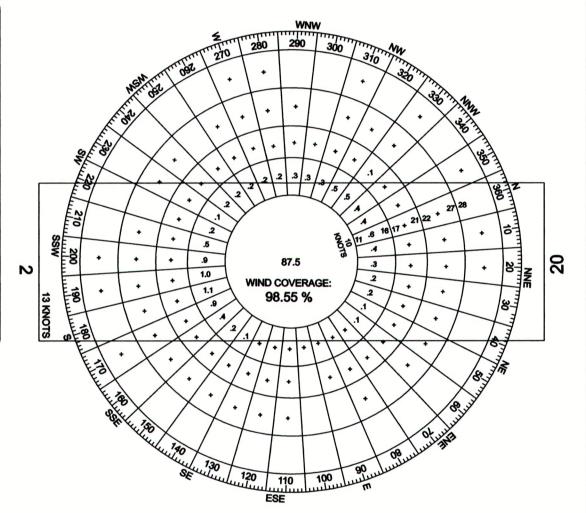
- 1. REFER TO TERMINAL AREA PLAN FOR ON-AIRPORT BUILDING IDENTIFICATION. 2. REFER TO INNER APPROACH PLANS FOR PENETRATIONS TO APPROACH SURFACES.
- ATIONS.
- FAA GUIDANCE.
- S BASE ON NAVD 88. AIRPORT / MASTER RECORD.
- WETLAND INVENTORY. FAA STANDARDS WHICH WILL
- TOCK FENCE AND 4' CHAINLINK
- REFLECT CII RPZ DIMINSIONS. SURFACE REQUIRED IN FEE
- PARDS DIMENSIONS.



3-11-2021

| BUCK BEARD, INTERIM CITY MANAGER      |                 | DATE                                   |
|---------------------------------------|-----------------|--|
|                                       | EGEND           |  |
| <del>-</del>                          | EXISTING        | ULTIMATE                               |
| AIRPORT MARKINGS                      | Exionito        | CETIMATE                               |
| RUNWAY SAFETY AREA (RSA)              | —— E-RSA ———    |  |
| RUNWAY OBJECT FREE AREA (ROFA)        | E-OFA           |  |
| RUNWAY OBSTACLE FREE ZONE (ROFZ)      | E-OFZ           | U-OFZ                                  |
| RUNWAY PROTECTION ZONE (RPZ)          | —— E-RPZ ——     | U-RPZ                                  |
| FAR PART 77 APPROACH SURFACE          | <u>E.1571</u>   | UAPPR                                  |
| TAXIWAY OBJECT FREE AREA (TOFA)       | E-TOFA          | U-TOFA                                 |
| TAXIWAY SAFETY AREA (TSA)             |                 | U-T&L                                  |
| 35' BUILDING RESTRICTION LINE (BRL)   |                 | SAME                                   |
| AIRPORT PAVEMENT                      | E215 6 2715 761 |  |
| AIRPORT REFERENCE POINT               | <b>⊕</b>        | SAME                                   |
| AIRPORT BUILDINGS                     | SEE PHOTO       |  |
| AIRPORT PROPERTY LINE                 | e e             | PP                                     |
| AVIGATION EASEMENT                    | 7//////         | XXXXXXXXX                              |
| FENCE (SEE NOTE 11)                   |                 |  |
| GROUND ELEVATIONS CONTOURS            | 1025            | <del></del> 1025                       |
| PAVEMENT OR BUILDING TO BE REMOVED    | NONE            | (XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX |
| GVGSI (PAPI's)                        | 8               | *                                      |
| RUNWAY END INDENTIFIER LIGHTS (REILs) |                 | ō                                      |
| WINDCONE                              |                 | Δ                                      |
| BEACON                                | 904             | <b></b>                                |
| WINDCONE AND SEGMENTED CIRCLE         | -(_)-           | 0                                      |
| PART 77 VIOLATIONS                    | <b>V#</b>       | V#                                     |
|                                       |                 |  |

| DECLARED DISTANCES |        |                 |        |        |  |  |
|--------------------|--------|-----------------|--------|--------|--|--|
|                    |        | EXISTING / UTLI | MATE   |        |  |  |
| RUNWAY<br>END ID   | TORA   | TODA            | ASDA   | LDA    |  |  |
| R/W 03             | 5,002' | 5,002'          | 5,002' | 5,002' |  |  |
| R/W 21             | 5,002' | 5,002'          | 5,002' | 5,002' |  |  |



**ALL WEATHER WIND ROSE** NASHVILLE INTERNATIONAL AIRPOR NASHVILLE, TN # OF OBSERVATIONS - 130,605 COVERAGE: 16 KNOTS = 99.74% 13 KNOTS = 98.55% 10.5 KNOTS = 97.95%







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| DR. | CHK. | DATE      | DESCRIPTION |
|-----|------|-----------|-------------|
| ES  | то   | FEB. 2018 | 30% REVIEW  |
| ES  | то   | MAR. 2019 | 60% REVIEW  |
| ES  | то   | OCT. 2019 | 90% REVIEW  |
| ES  | то   | DEC. 2019 | 100% REVIEW |
| ES  | то   | DEC. 2019 | FINAL       |
|     |      |           |             |

MODIFICATIO

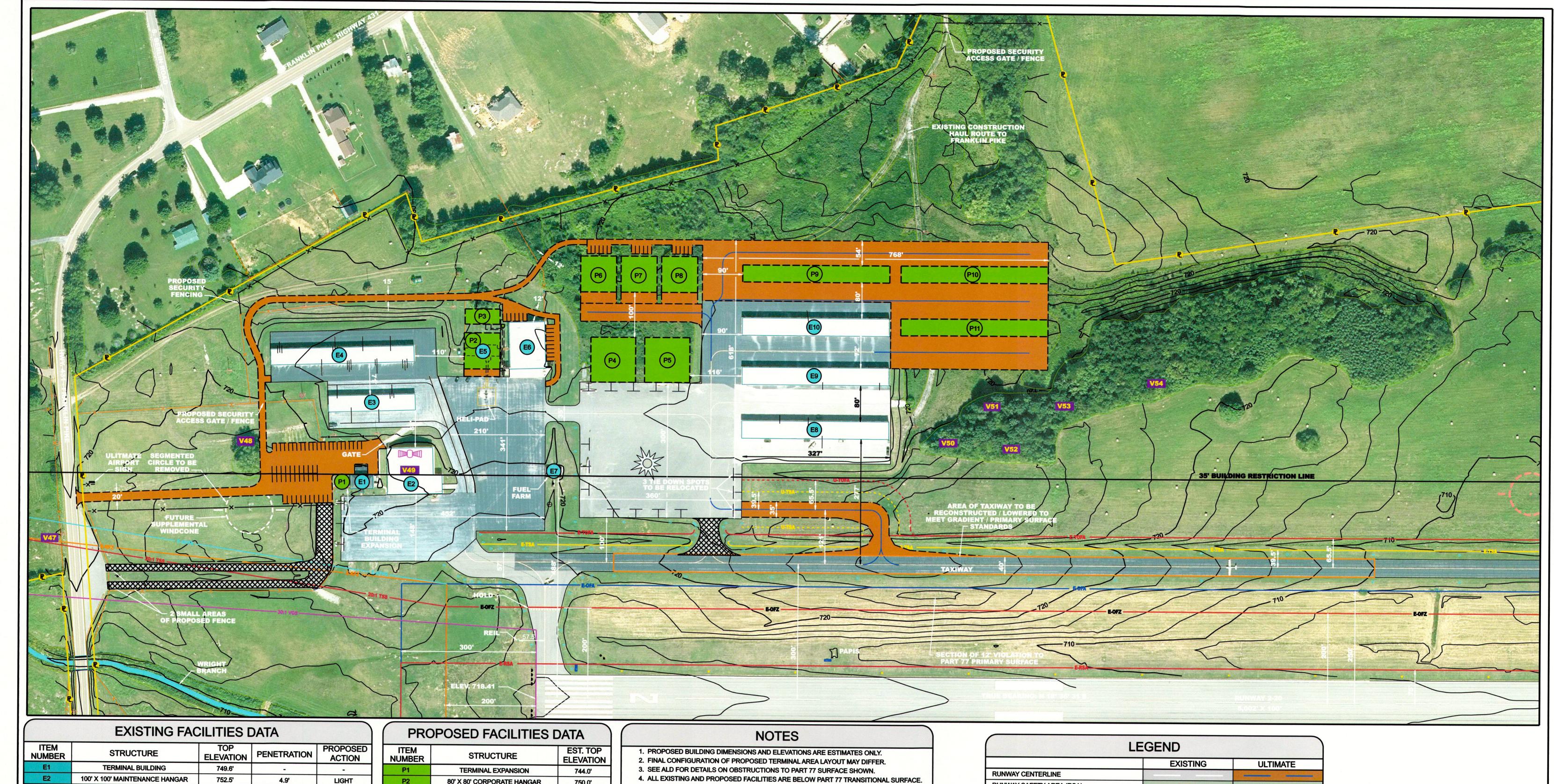
NO. STANDARD MODIFIED FAAST

## AIRPORT LAYOUT DRAWING

AIRPORT LAYOUT PLAN SET **ELLINGTON AIRPORT** 

LEWISBURG, MARSHALL COUNTY, TENNESSEE T.A.D. NO. 59-555-0146-18

SHEET



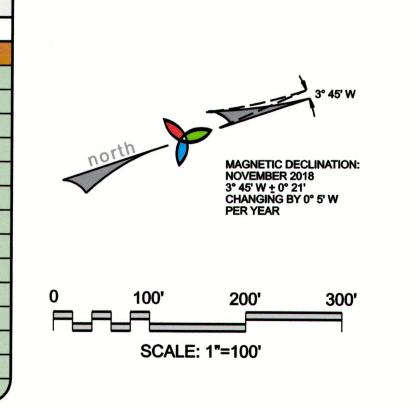
|                | EXISTING FAC                   | CILITIES [       | DATA                                  |                    |
|----------------|--------------------------------|------------------|---------------------------------------|--------------------|
| ITEM<br>NUMBER | STRUCTURE                      | TOP<br>ELEVATION | PENETRATION                           | PROPOSED<br>ACTION |
| E1             | TERMINAL BUILDING              | 749.6'           | -                                     | -                  |
| E2             | 100' X 100' MAINTENANCE HANGAR | 752.5'           | 4.9'                                  | LIGHT              |
| E3             | 6 UNIT T-HANGAR                | 748.5'           | •                                     | •                  |
| E4             | 10 UNIT T-HANGAR               | 738.2'           | -                                     | -                  |
| <b>E</b> 5     | AIR EVAC BUILDING              | 732.9'           |                                       | _                  |
| <b>E</b> 6     | 80' X 100' HANGAR              | 750.6'           | -                                     | _                  |
| E7             | FUEL FARM - 100LL / JET A      | 732.0'           | • • • • • • • • • • • • • • • • • • • | -                  |
| E8             | 10 UNIT T-HANGAR               | 742.0'           | -                                     | •                  |
| <b>E</b> 9     | 10 UNIT T-HANGAR               | 742.5'           |                                       | <u> </u>           |
| E10            | 10 UNIT T-HANGAR               | 742.2'           | -                                     | -                  |

| PRO            | POSED FACILITIES             | DATA                  |
|----------------|------------------------------|-----------------------|
| ITEM<br>NUMBER | STRUCTURE                    | EST. TOP<br>ELEVATION |
| P1             | TERMINAL EXPANSION           | 744.0'                |
| P2             | 80' X 80' CORPORATE HANGAR   | 750.0'                |
| P3             | AIR EVAC                     | 738.0'                |
| P4             | 100' X 100' CORPORATE HANGAR | 751.0'                |
| P5             | 100' X 100' CORPORATE HANGAR | 751.0'                |
| P6             | 80' X 80' CORPORATE HANGAR   | 750.0'                |
| P7             | 80' X 80' CORPORATE HANGAR   | 750.0'                |
| P8             | 80' X 80' CORPORATE HANGAR   | 750.0'                |
| P9             | 10 UNIT T-HANGAR             | 742.0'                |
| P10            | 10 UNIT T-HANGAR             | 742.0'                |
| P11            | 10 UNIT T-HANGAR             | 742.0'                |

| OP  | 1. PROPOSED BUILDING DIMENSIONS AND ELEVATIONS ARE ESTIMATES ONLY.             |
|-----|--|
| ION | 2. FINAL CONFIGURATION OF PROPOSED TERMINAL AREA LAYOUT MAY DIFFER.            |
| •   | 3. SEE ALD FOR DETAILS ON OBSTRUCTIONS TO PART 77 SURFACE SHOWN.               |
|     | 4. ALL EXISTING AND PROPOSED FACILITIES ARE BELOW PART 77 TRANSITIONAL SURFACE |
|     | 5. NO SPECIAL OR NON AERONAUTICAL LAND USES TO SHOW ON AIRPORT PROPERTY.       |
|     | 6. EXISTING BUILDING #5 AND PROPOSED BUILDING #2 HAVE COINCIDENT LOCATIONS.    |
|     | 7. EXISTING RUNWAY AND TAXIWAY WIDTHS EXCEED FAA STANDARDS WHICH, WILL         |
|     | REQUIRE ADDITIONAL FUNDING CONSIDERATIONS, PER TAD.                            |

| TAXIWAY                        | / DATA TABLE |          |  |
|--------------------------------|--------------|----------|--|
|                                | FAA STANDARD | EXISTING |  |
| TAXIWAY DESIGN GROUP           | 2            | SAME     |  |
| TAXIWAY / TAXILANE WIDTH       | 35'          | 40'      |  |
| TAXIWAY EDGE SAFETY MARGIN     | 7.5'         | SAME     |  |
| TAXIWAY SHOULDER WIDTH         | 15'          | SAME     |  |
| TAXIWAY / TAXILANE SAFETY AREA | 79'          | SAME     |  |
| TAXIWAY OBJECT FREE AREA       | 131'         | SAME     |  |
| TAXILANE OBJECT FREE AREA      | 115'         | SAME     |  |
| TAXIWAY LIGHTING               | MITL         | SAME     |  |

|                                    | EXISTING                     | ULTIMATE    |
|------------------------------------|------------------------------|-------------|
| RUNWAY CENTERLINE                  |                              |             |
| RUNWAY SAFETY AREA (RSA)           | E-RSA                        |             |
| RUNWAY OBJECT FREE AREA (ROFA)     | E-OFA                        |             |
| RUNWAY OBSTACLE FREE ZONE (ROFZ)   | E-OFZ                        | U-OFZ       |
| TAXIWAY OBJECT FREE AREA (TOFA)    | E-TOFA                       | U-TOFA      |
| TAXIWAY SAFETY AREA (TSA)          | 5.78A                        | U-TSA       |
| AIRPORT PAVEMENT                   | SEE PHOTO                    |             |
| AIRPORT BUILDINGS                  | SEE PHOTO                    |             |
| AIRPORT PROPERTY LINE / EASEMENTS  |                              | PP          |
| FENCE                              | <del></del>                  | _××         |
| GROUND ELEVATIONS CONTOURS         | <del></del> 1025 <del></del> | <del></del> |
| PAVEMENT OR BUILDING TO BE REMOVED |                              |             |
| WINDCONE                           |                              | Δ           |
| BEACON                             |                              |             |
| PART 77 VIOLATIONS                 | V50                          |             |





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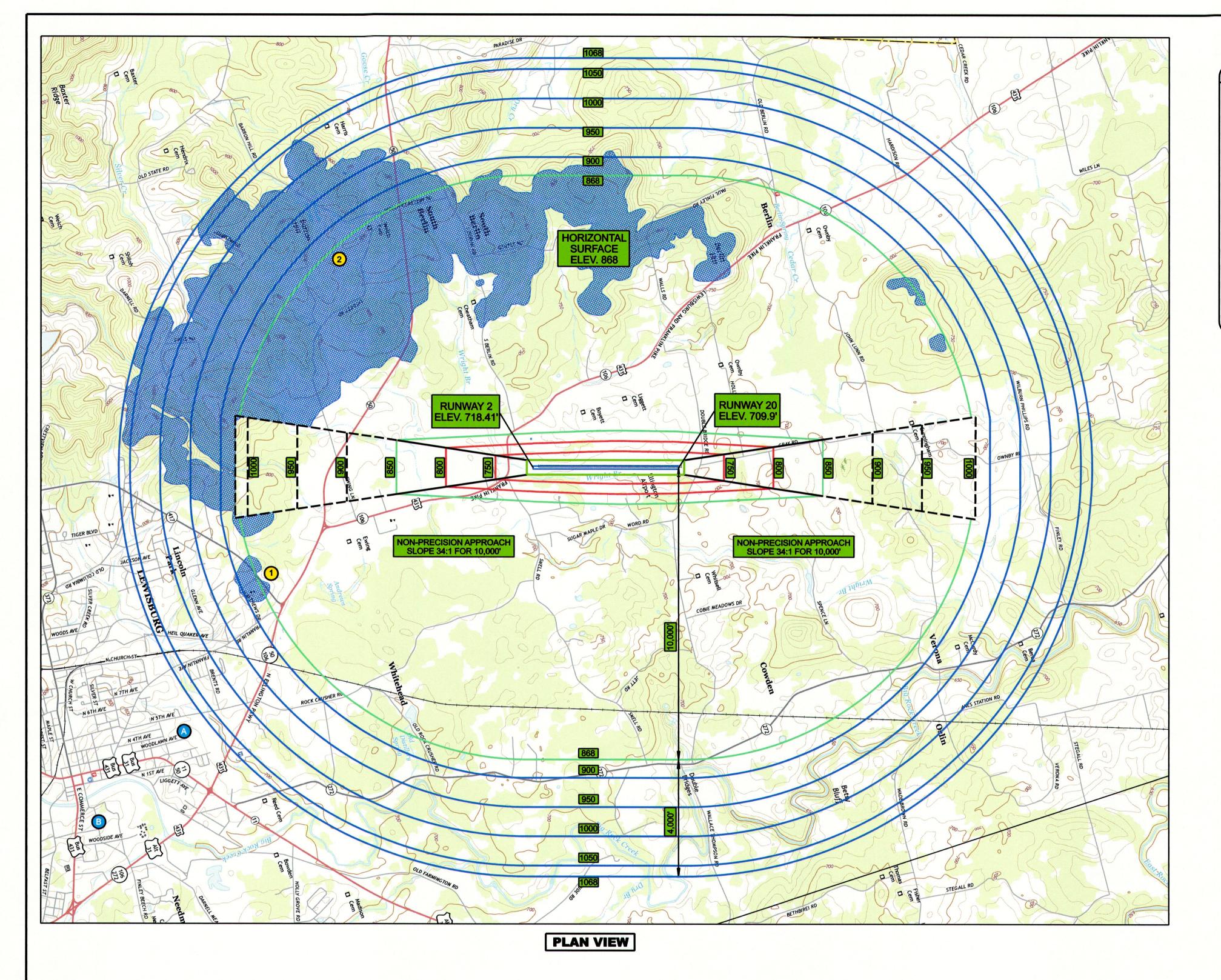
| DR. | CHK. | DATE      | DESCRIPTION |
|-----|------|-----------|-------------|
| ES  | то   | FEB. 2018 | 30% REVIEW  |
| ES  | то   | MAR. 2019 | 60% REVIEW  |
| ES  | то   | OCT. 2019 | 90% REVIEW  |
| ES  | то   | DEC. 2019 | 100% REVIEW |
| ES  | то   | DEC. 2019 | FINAL       |
|     |      |           |             |

## TERMINAL AREA PLAN

AIRPORT LAYOUT PLAN SET **ELLINGTON AIRPORT** 

LEWISBURG, MARSHALL COUNTY, TENNESSEE T.A.D. NO. 59-555-0146-18

SHEET



#### NOTES

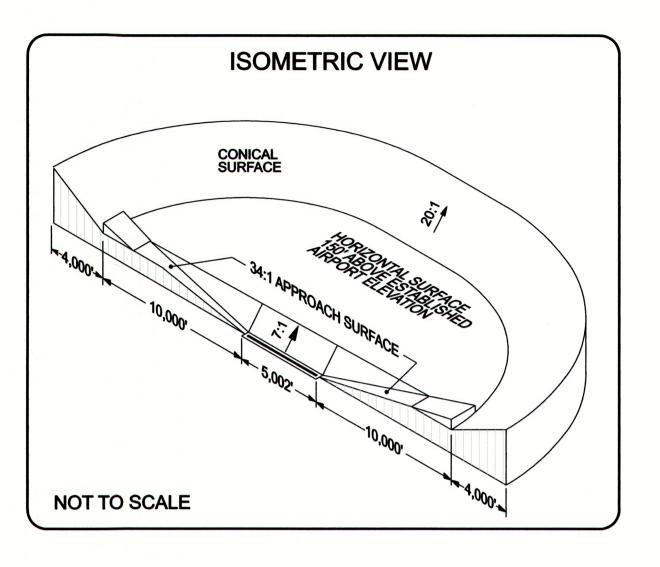
- 1. GRID BASE, U.S.G.S. TOPOGRAPHIC MAPS. 50' CONTOUR INTERVAL. DATE OF MAP: 2016
- 2. SEE ALD AND APPROACH PLANS FOR OBSTRUCTIONS WITHIN PRIMARY SURFACE, TRANSITIONAL SURFACES, APPROACH SURFACES, AND HORIZONTAL SURFACE (WITHIN THE LIMITS OF THE AERIAL SURVEY).

WETLANDS.....FWS NATIONAL WETLANDS INVENTORY, 1977-2014

- 3. BLUE HATCHING SHOWING TREE OBSTRUCTIONS (ASSUMING 100 FT. TREE HEIGHT) ARE IDENTIFYING AREA BEYOND THE LIMITS OF THE AERIAL SURVEY AND INSIDE THE EXISTING AIRPORT AIRSPACE.
- 4. DATE OF OBSTRUCTION SURVEY USED: AUGUST, 2018.

APPROACHES GREATER THAN 3/4 MILES.

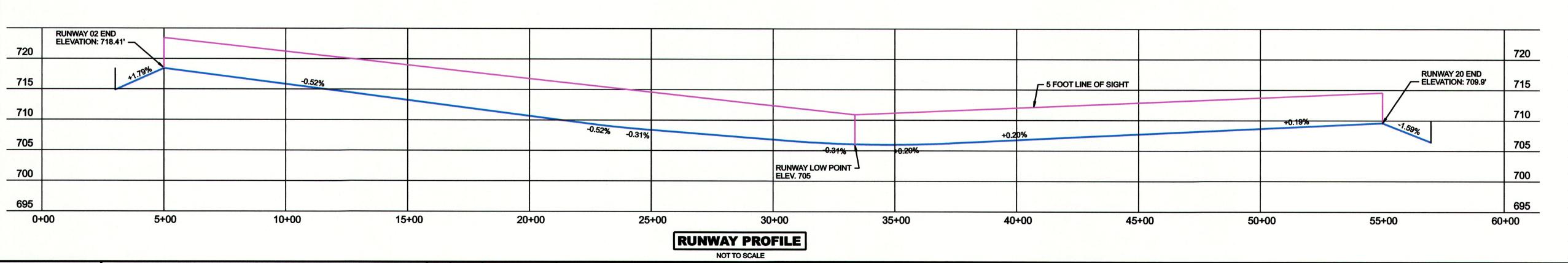
- 5. RUNWAY HAS NO LINE OF SIGHT VIOLATIONS.6. AIRSPACE SHOWN REFLECTS FAR PART 77 C(NP) CRITERIA FOR
- 7. NO EXISTING MARSHALL COUNTY HEIGHT ZONING IN PLACE.

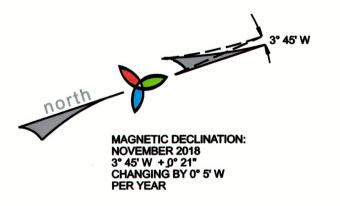


|   |             | PART 77          | OBSTRUC             | TION        |                    |
|---|-------------|------------------|---------------------|-------------|--------------------|
| # | DESCRIPTION | TOP<br>ELEVATION | GROUND<br>ELEVATION | PENETRATION | PROPOSED<br>ACTION |
| 1 | TOWER       | 1160'            | 860'                | 292'        | NONE               |
| 2 | TOWER       | 1011'            | 903'                | 143'        | NONE               |

| OBSTACLES   |                |                  |                     |                     |                    |  |  |  |  |
|---|----------------|------------------|---------------------|---------------------|--------------------|--|--|--|--|
| ITEMS WITHIN VICINITY OF AIRPORT WITH NO PENETRATION TO PART 77 |                |                  |                     |                     |                    |  |  |  |  |
| #   | DESCRIPTION    | TOP<br>ELEVATION | GROUND<br>ELEVATION | STRUCTURE<br>HEIGHT | PROPOSED<br>ACTION |  |  |  |  |
| Α   | TOWER          | 1063'            | 723'                | 340'                | NONE               |  |  |  |  |
| В   | TOWER          | 930'             | 750'                | 180'                | NONE               |  |  |  |  |
|   | NOTE: OBSTACLE | S ARE OUTSIDI    | E OF LUG AIRSI      | PACE.               |                    |  |  |  |  |

| LEGEN                                 | D  |
|---------------------------------------|--|
| DESCRIPTION                           | ULTIMATE   |
| APPROACH SURFACE                      |  |
| APPROACH SURFACE ABOVE HORIZ. SURFACE |  |
| CONICAL SURFACE                       |  |
| TRANSITIONAL SURFACE                  |  |
| HORIZONTAL SURFACE                    | ENGINEERS OF THE ANALYSIS CONTROL OF THE ANALYSIS CONT |
| PRIMARY SURFACE                       | A CONTRACTOR OF THE CONTRACTOR |
| TREE OBSTRUCTION                      | <b>**********</b>  |
| TOWER (OBSTRUCTION)                   | 0  |
| TOWER (NO OBSTRUCTION)                |  |





2000' 4000' 600 SCALE: 1"=2000'



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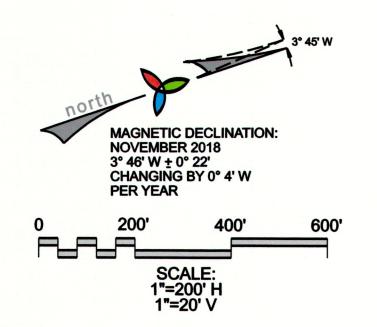
|    | DR. | CHK. | DATE      | DESCRIPTION |  |
|----|-----|------|-----------|-------------|--|
| ·. | ES  | то   | FEB. 2018 | 30% REVIEW  |  |
|    | ES  | то   | MAR. 2019 | 60% REVIEW  |  |
|    | ES  | то   | OCT. 2019 | 90% REVIEW  |  |
|    | ES  | то   | DEC. 2019 | 100% REVIEW |  |
|    | ES  | то   | DEC. 2019 | FINAL       |  |
|    |     |      |           |             |  |

AIRSPACE DRAWING

AIRPORT LAYOUT PLAN SET ELLINGTON AIRPORT

LEWISBURG, MARSHALL COUNTY, TENNESSEE T.A.D. NO. 59-555-0146-18

SHEET



| PROF   | ILE LEGEND   |
|--------|--------------|
| SYMBOL | DESCRIPTION  |
|        | TREE         |
| #-     | UTILITY POLE |
|        | STRUCTURE    |
|        | BUILDING     |
| -      | ROAD         |
|        | CREEK        |
|        |              |

| L                                   | EGEND                        |                         |
|-------------------------------------|------------------------------|-------------------------|
|                                     | EXISTING                     | ULTIMATE                |
| RUNWAY CENTERLINE                   |                              |                         |
| RUNWAY SAFETY AREA (RSA)            | E-RSA                        | ——— <del>U-834</del> —— |
| RUNWAY OBJECT FREE AREA (ROFA)      | E-OFA                        | UOFA                    |
| RUNWAY OBSTACLE FREE ZONE (ROFZ)    | E-OFZ                        | U-OFZ                   |
| RUNWAY PROTECTION ZONE (RPZ)        | E-RPZ                        | ——— U-RPZ ——            |
| FAR PART 77 APPROACH SURFACE        | E-APPR                       | U-APPR                  |
| TAXIWAY OBJECT FREE AREA (TOFA)     | E-TOFA                       | U-TOFA                  |
| TAXIWAY SAFETY AREA (TSA)           | —— 870A——                    | U-T3A                   |
| BUILDING RESTRICTION LINE (35' BRL) |                              | SAME                    |
| AIRPORT PAVEMENT                    |                              |                         |
| AIRPORT PROPERTY LINE (FEE SIMPLE)  | <del></del>                  | PP                      |
| AVIGATION EASEMENT                  | 1/////                       | XXXXXX                  |
| FENCE                               | —×——×—                       | -xx-                    |
| GROUND ELEVATIONS CONTOURS *        | <del></del> 1025 <del></del> | <del></del>             |
| PART 77 VIOLATIONS                  | V#                           | V#                      |

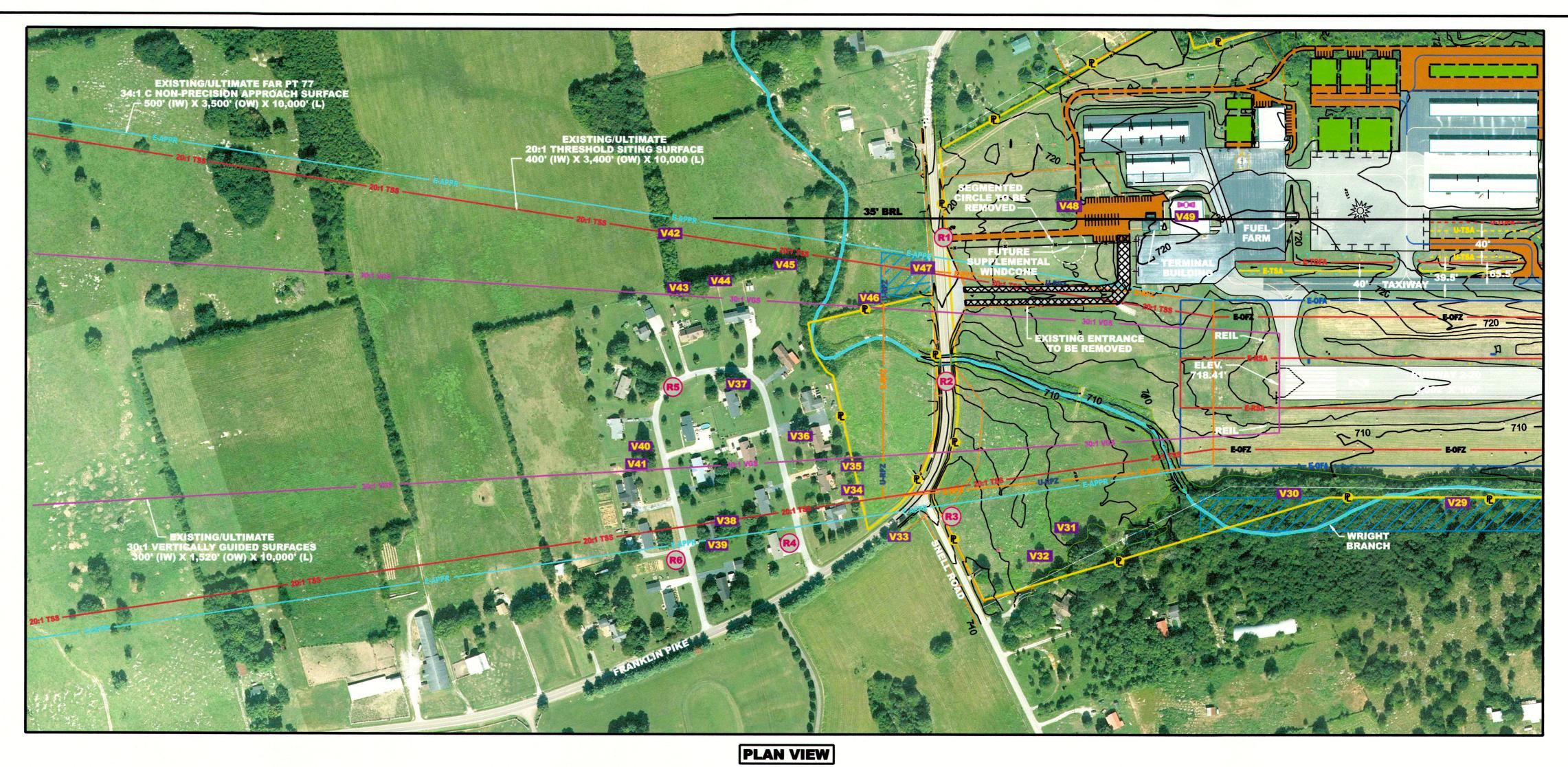
<sup>\* 2-</sup>FT CONTOUR INTERVAL

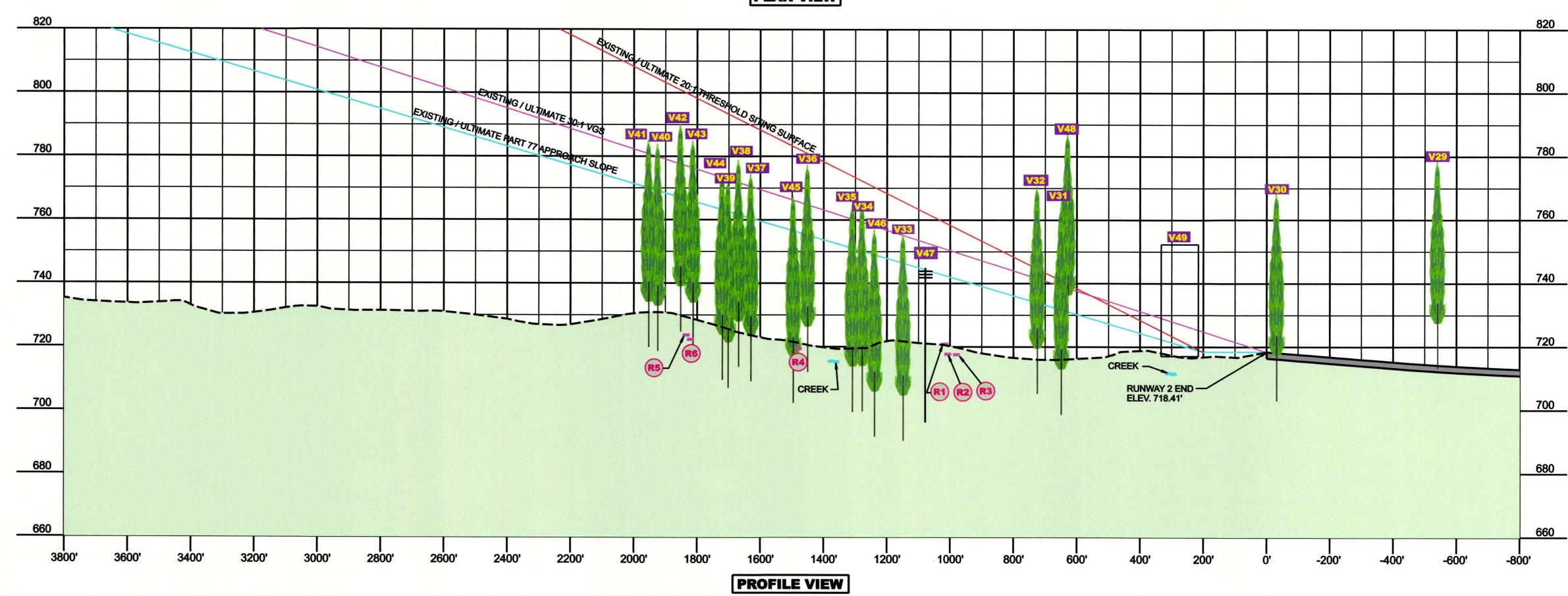
#### NOTES

- 1. DATE OF AGS SURVEY USED: AUGUST, 2018.
- 2. NO THRESHOLD SITING SURFACE VIOLATIONS.
- 3. NO BUILDING PENETRATIONS TO APPROACH SURFACES.
- 4. OBSTRUCTIONS TO PART 77 SURFACES NOT LIMITED TO VIOLATIONS LISTED. 5. PROPERTY LINE LOCATION SHOWN IS APPROXIMATE.
- 6. SEE ALD FOR PROPOSED ULTIMATE WINDCONE / SEGMENTED CIRCLE LOCATION.

| $\bigcap$ | TRAVERSE WAY          |                              |                             |  |                   |                    |  |  |  |  |
|-----------|-----------------------|------------------------------|-----------------------------|--|-------------------|--------------------|--|--|--|--|
| #         | NAME                  | GROUND<br>ELEVATION<br>(FT.) | * TOP<br>ELEVATION<br>(FT.) | APPROACH<br>SURFACE<br>ELEVATION (FT.) | PENETRATION (FT.) | PROPOSED<br>ACTION |  |  |  |  |
| R1        | FRANKLIN PIKE         | 721.4'                       | 736.4'                      | 745.3'                                 | NONE              | NONE               |  |  |  |  |
| R2        | FRANKLIN PIKE         | 718.3'                       | 733.3'                      | 742.1'                                 | NONE              | NONE               |  |  |  |  |
| R3        | FRANKLIN PIKE         | 718.1'                       | 733.1'                      | 742.9'                                 | NONE              | NONE               |  |  |  |  |
| R4        | HORSESHOE DR.         | 720.0'                       | 735.0'                      | 755.4'                                 | NONE              | NONE               |  |  |  |  |
| R5        | HORSESHOE DR.         | 724.0'                       | 739.0'                      | 766.1'                                 | NONE              | NONE               |  |  |  |  |
| R6        | HORSESHOE DR.         | 723.0'                       | 738.0'                      | 765.4'                                 | NONE              | NONE               |  |  |  |  |
|           | *15' ADDED FOR ROAD ( | CLEARANCE                    |                             |  |                   |                    |  |  |  |  |

|       |                |      |                     | OBSTRUC                   | TION DA               | ATA                     |
|-------|----------------|------|---------------------|---------------------------|-----------------------|-------------------------|
| PT 77 | 7 - 7:1 TRANSI | TION | AL SURFACE (        | TS), 34:1 APPRO           | ACH SURFAC            | E (AS)                  |
| V#    | DESCRIPTION    | ON   | OBJECT<br>ELEVATION | 34:1 SURFACE<br>VIOLATION | 30:1 VGS<br>VIOLATION | PROPOSED<br>DISPOSITION |
| V29   | TREE (T        | S)   | 779.29'             | 42.09'                    | -                     | TRIM / REMOVE           |
| V30   | TREE (T        | S)   | 768.30'             | 36.78'                    | -                     | TRIM / REMOVE           |
| V31   | TREE (T        | S)   | 763.10'             | 13.28'                    | -                     | TRIM / REMOVE           |
| V32   | TREE (T        | S)   | 771.03'             | 19.20'                    | -                     | TRIM / REMOVE           |
| V33   | TREE (T        | S)   | 756.36'             | 3.76'                     | <u>-</u>              | TRIM / REMOVE           |
| V34   | TREE (A        | S)   | 765.86'             | 15.15'                    |                       | TRIM / REMOVE           |
| V35   | TREE (A        | S)   | 765.85'             | 15.47'                    | -                     | TRIM / REMOVE           |
| V36   | TREE (A        | S)   | 777.63'             | 22.56'                    | 17.66'                | TRIM / REMOVE           |
| V37   | TREE (AS       | S)   | 774.12'             | 12.82'                    | 7.09'                 | TRIM / REMOVE           |
| V38   | TREE (A        | S)   | 779.03'             | 17.38'                    | -                     | TRIM / REMOVE           |
| V39   | TREE (T        | S)   | 772.34'             | 4.87'                     | -                     | TRIM / REMOVE           |
| V40   | TREE (AS       | S)   | 784.06'             | 15.31'                    | 8.58'                 | TRIM / REMOVE           |
| V41   | TREE (AS       | S)   | 785.22'             | 16.08'                    | 9.30'                 | TRIM / REMOVE           |
| V42   | TREE (A        | S)   | 790.50'             | 23.07'                    | •                     | TRIM / REMOVE           |
| V43   | TREE (A        | S)   | 785.40'             | 20.56'                    | -                     | TRIM / REMOVE           |
| V44   | TREE (A        | S)   | 774.55'             | 14.09'                    | •                     | TRIM / REMOVE           |
| V45   | TREE (A        | S)   | 767.99'             | 12.77'                    | -                     | TRIM / REMOVE           |
| V46   | TREE (A        | S)   | 757.11'             | 5.57'                     | -                     | TRIM / REMOVE           |
| V47   | UTILITY PO     | LE   | 744.93'             | 1.44'                     | -                     | RELOCATE / LOWER        |
| V48   | TREE (T        | S)   | 787.14'             | 30.18'                    | -                     | TRIM / REMOVE           |
| V49   | BUILDING       | ;    | 752.50'             | 4.93'                     |                       | LIGHT                   |







PDC CONSULTANTS, LLC.

DR. CHK. DATE
ES TO FEB. 2018

133 Holiday Suite 10 Franklin, TN

| 33 Holiday Court      | ES | то | MAR. 2019 | 60% REVIEW  |
|-----------------------|----|----|-----------|-------------|
| Suite 102             | ES | то | OCT. 2019 | 90% REVIEW  |
| anklin, TN 37067      | ES | то | DEC. 2019 | 100% REVIEW |
| Phone: (615) 614-0121 | ES | то | DEC. 2019 | FINAL       |
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DESCRIPTION

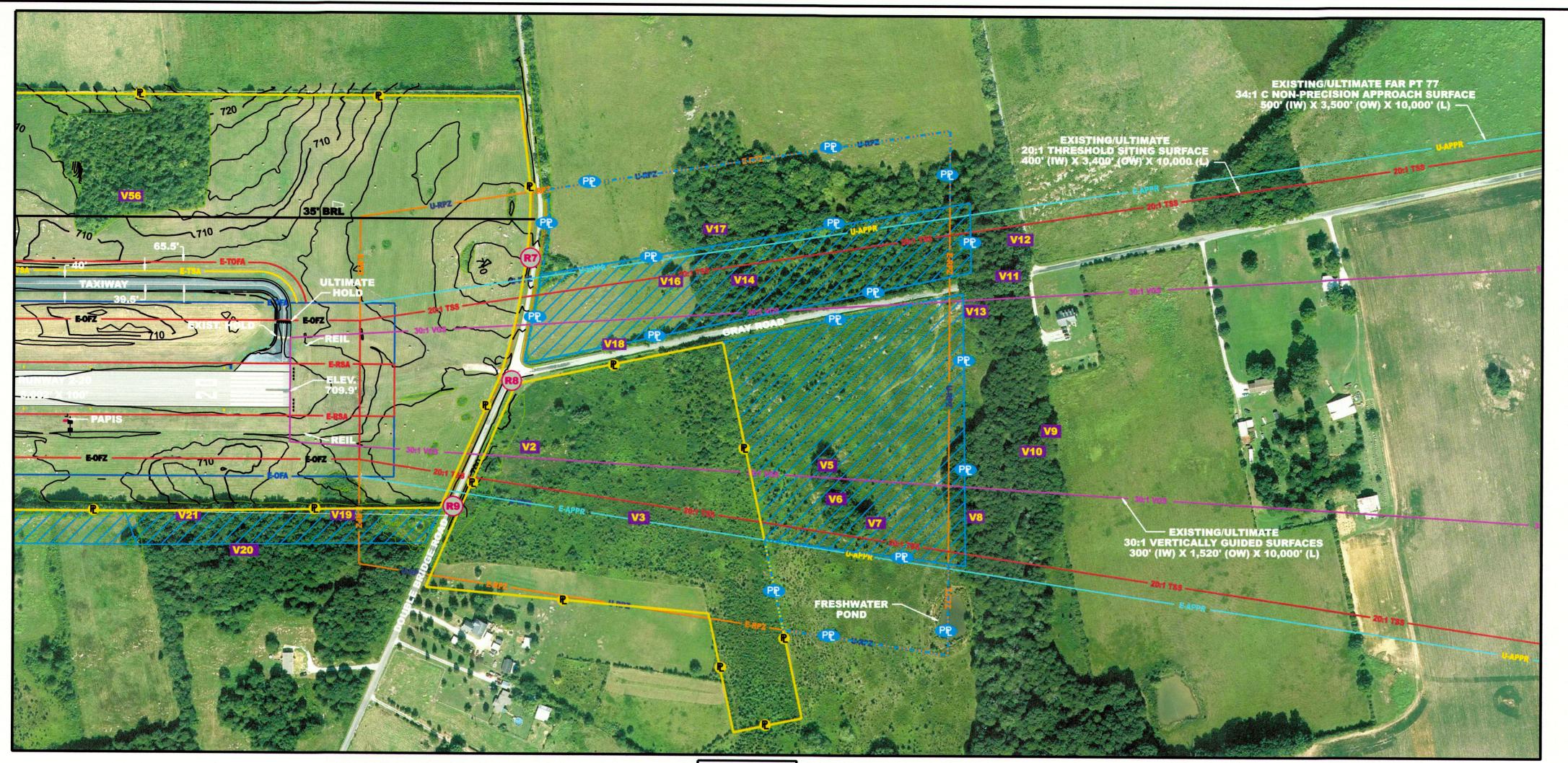
30% REVIEW

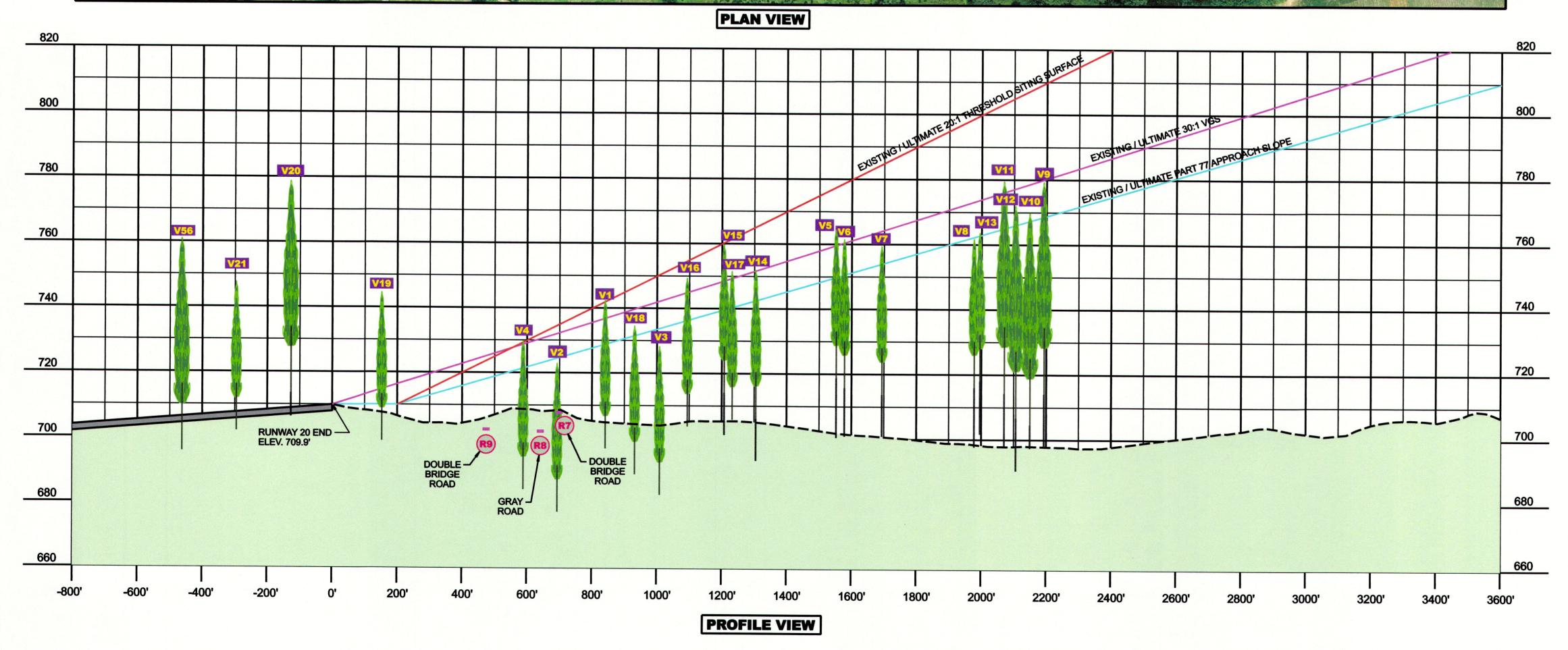
**INNER APPROACH 2 SURFACE DRAWING** 

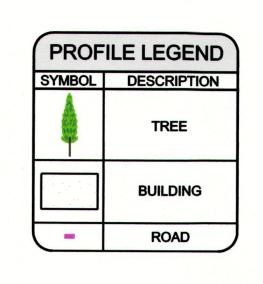
AIRPORT LAYOUT PLAN SET **ELLINGTON AIRPORT** 

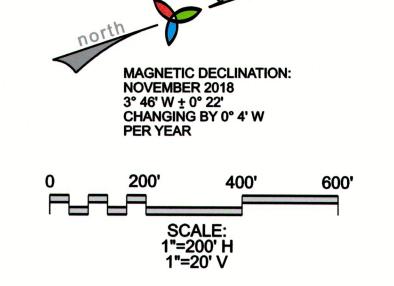
LEWISBURG, MARSHALL COUNTY, TENNESSEE T.A.D. NO. 59-555-0146-18

SHEET









| L                                   | EGEND       |                              |
|-------------------------------------|-------------|------------------------------|
|                                     | EXISTING    | ULTIMATE                     |
| RUNWAY CENTERLINE                   |             |                              |
| RUNWAY SAFETY AREA (RSA)            | E-RSA       | URSA                         |
| RUNWAY OBJECT FREE AREA (ROFA)      | E-OFA       | 110FA                        |
| RUNWAY OBSTACLE FREE ZONE (ROFZ)    | E-OFZ       | U-OFZ                        |
| RUNWAY PROTECTION ZONE (RPZ)        | —— E-RPZ —— | ——— U-RPZ ——                 |
| FAR PART 77 APPROACH SURFACE        | EAPPR       | 6-APPR                       |
| TAXIWAY OBJECT FREE AREA (TOFA)     | E-TOFA      | U-TOFA                       |
| TAXIWAY SAFETY AREA (TSA)           | E-10A       | U78A                         |
| BUILDING RESTRICTION LINE (35' BRL) |             | SAME                         |
| AIRPORT PAVEMENT                    |             |                              |
| AIRPORT PROPERTY LINE (FEE SIMPLE)  |             | PP                           |
| AVIGATION EASEMENT                  | 7//////     | XXXXXXX                      |
| FENCE                               | _xx         | _xx_                         |
| GROUND ELEVATIONS CONTOURS *        | <del></del> | <del></del> 1025 <del></del> |
| PART 77 VIOLATIONS                  | V#          | V#                           |

\* 2-FT CONTOUR INTERVAL

#### NOTES

- 1. DATE OF AGS SURVEY USED: AUGUST, 2018.
- 2. NO THRESHOLD SITING SURFACE VIOLATIONS.
- 3. NO BUILDING PENETRATIONS TO APPROACH SURFACES.
- 4. OBSTRUCTIONS TO PART 77 SURFACES NOT LIMITED TO VIOLATIONS LISTED.
- 5. PROPERTY LINE LOCATION SHOWN IS APPROXIMATE.
- 6. SEE ALD FOR PROPOSED ULTIMATE WINDCONE / SEGMENTED CIRCLE LOCATION.

|    | TRAVERSE WAY           |                              |  |        |                      |                    |  |  |  |  |
|----|------------------------|------------------------------|--|--------|----------------------|--------------------|--|--|--|--|
| #  | NAME                   | GROUND<br>ELEVATION<br>(FT.) | * TOP APPROACH SURFACE (FT.) ELEVATION (FT.) |        | PENETRATION<br>(FT.) | PROPOSED<br>ACTION |  |  |  |  |
| R7 | DOUBLE BRIDGE RD.      | 708.4'                       | 723.4'                                       | 724.4' | NONE                 | NONE               |  |  |  |  |
| R8 | GRAY ROAD              | 702.6'                       | 717.6'                                       | 722.4' | NONE                 | NONE               |  |  |  |  |
| R9 | DOUBLE BRIDGE RD.      | 702.8'                       | 717.8'                                       | 717.9' | NONE                 | NONE               |  |  |  |  |
|    | *15' ADDED FOR ROAD CL | EARANCE                      |  |        |                      |                    |  |  |  |  |

| 7          | 7 - 7:1 TRA | NSITION | NAL SURFACE ( | TS), 34:1 APPRO | ACH SURFACE           | (AS)                 |   |
|------------|-------------|---------|---------------|-----------------|-----------------------|----------------------|---|
| #          |             |         | OPUECE        |                 | 30:1 VGS<br>VIOLATION | PROPOSED DISPOSITION |   |
| 1          | * TREE      | (AS)    | -             | -               | -                     | -                    |   |
| 12         | TREE        | (AS)    | 723.47'       | 2.01'           | .07'                  | TRIM / REMOVE        |   |
| <u>(6)</u> | TREE        | (AS)    | 727.98'       | 3.43'           | -                     | TRIM / REMOVE        |   |
| 4          | * TREE      | (AS)    | -             | -               | -                     | -                    | *************************************** |
| <b>7</b> 5 | TREE        | (AS)    | 763.99'       | 14.61'          | 8.97'                 | TRIM / REMOVE        |   |
| 76         | TREE        | (AS)    | 761.78'       | 11.80'          | -                     | TRIM / REMOVE        |   |
| 7          | TREE        | (AS)    | 759.26'       | 6.29'           | -                     | TRIM / REMOVE        |   |
| 8          | TREE        | (AS)    | 761.84'       | 0.93'           | -                     | TRIM / REMOVE        |   |
| 6          | TREE        | (AS)    | 779.07'       | 10.70'          | 2.52'                 | TRIM / REMOVE        |   |
| 10         | TREE        | (AS)    | 771.24'       | 4.21'           | 3.78'                 | TRIM / REMOVE        |   |
| 11         | TREE        | (AS)    | 780.70'       | 15.96'          | -                     | TRIM / REMOVE        |   |
| 12         | TREE        | (AS)    | 771.92'       | 6.17'           | -                     | TRIM / REMOVE        |   |
| 13         | TREE        | (AS)    | 764.27'       | 3.40'           | .23'                  | TRIM / REMOVE        |   |
| 14         | TREE        | (AS)    | 745.85'       | 3.56'           | -                     | TRIM / REMOVE        |   |
| 15         | *TREE       | (AS)    | -             | <b>-</b>        | -                     | -                    |   |
| 16         | TREE        | (AS)    | 749.67'       | 13.30'          | -                     | TRIM / REMOVE        |   |
| 17         | TREE        | (TS)    | 751.64'       | 4.92'           | -                     | TRIM / REMOVE        |   |
| 18         | TREE        | (AS)    | 734.39'       | 3.81'           | .68'                  | TRIM / REMOVE        |   |
| 19         | TREE        | (TS)    | 744.96'       | 18.62'          |                       | TRIM / REMOVE        |   |
| 20         | TREE        | (TS)    | 779.17'       | 37.73'          | -                     | TRIM / REMOVE        |   |
| 21         | TREE        | (TS)    | 749.06'       | 24.61'          | -                     | TRIM / REMOVE        |   |
| 56         | TREE        | (TS)    | 761.20'       | 5.19'           | -                     | TRIM / REMOVE        |   |



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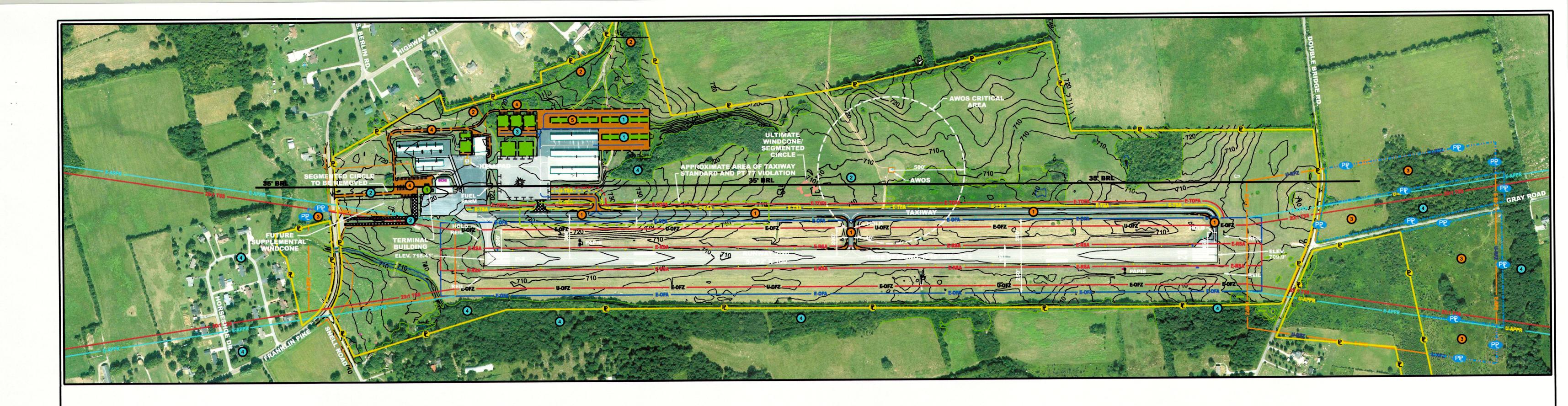
133 Holiday Court Suite 102 Franklin, TN 37067 Phone: (615) 614-0121 Fax: (615) 614-0124

| DR. | CHK. | DATE      | DESCRIPTION |  |
|-----|------|-----------|-------------|--|
| ES  | то   | FEB. 2018 | 30% REVIEW  |  |
| ES  | то   | MAR. 2019 | 60% REVIEW  |  |
| ES  | то   | OCT. 2019 | 90% REVIEW  |  |
| ES  | то   | DEC. 2019 | 100% REVIEW |  |
| ES  | то   | DEC. 2019 | FINAL       |  |
|     |      |           |             |  |

**INNER APPROACH 20 SURFACE DRAWING** 

AIRPORT LAYOUT PLAN SET **ELLINGTON AIRPORT** 

LEWISBURG, MARSHALL COUNTY, TENNESSEE T.A.D. NO. 59-555-0146-18



| PROPOSE  | D AIRPORT CAPITAL IMPROVEMENT F   | PROJECTS   |
|--|---|--|
| STAGE I: 2019 - 2022 PROJECT COST  | STAGE II : 2023 - 2025 PROJECT COST   | STAGE III : BEYOND 2026 PROJECT  |
| TERMINAL BUILDING EXPANSION (PHASE I - II) \$489,000  THE CURRENT TERMINAL BUILDING IS OUTDATED, DOES NOT PROVIDE SUFFICIENT OPERATIONAL CAPACITY AND IS NOT ADA COMPLIANT. THIS EXPANSION WILL PROVIDE ADDITIONAL OFFICE SPACE AND CONFERENCE ROOMS AND WILL INCORPORATE ALL NECESSARY FEATURES TO MEET CURRENT 2019 ADA STANDARDS. PHASE I INCLUDES ENGINEERING, ENVIRONMENTAL, AND ADMINISTRATIVE DESIGN SERVICES THROUGH BID. PHASE II OF THIS PROJECT WILL ENTAIL ALL ASSOCIATED SERVICES REQUIRED TO COMPLETE THE CONSTRUCTION OF THE TERMINAL BUILDING EXPANSION AND RENOVATION.  | AS NOTED IN THE 2019 UPDATE OF THE TDOT STATEWIDE PCI INDEX STUDY, ELLINGTON AIRPORT'S PARALLEL TAXIWAY RECEIVED A RATING OF 22. THE TAXIWAY HAS REACHED ITS USEFUL LIFE AND IS IN NEED OF A MAJOR REHABILITATION. IN ADDITION TO ITS CURRENT CONDITION, A LARGE PORTION OF THE TAXIWAY RISES APPROXIMATELY 20' ABOVE THE ELEVATION OF THE RUNWAY. THIS AREA PENETRATES THE RUNWAYS OBSTACLE FREE ZONE, PART 77 PRIMARY SURFACE, AND EXCEEDS TAXIWAY GRADIENT CRITERIA. THE PROJECT IS TO BE THREE SEPARATE PHASES WITH THIS BEING PHASE III WHICH WILL ENTAIL ALL ASSOCIATED ELEMENTS REQUIRED TO COMPLETE THE CONSTRUCTION PHASE.     | CURRENTLY, THE AIRPORT HAS A T-HANGAR WAITING LIST OF 65 THAT IS GROWING AS MIDDLE TENNESSEE CONTINUES TO GROW AT A RAPID RATE. WITH TDOTS COMPREHENSIVE TRANSPORTATION PLAN PROJECTING MARSHALL COUNTY TO GROW 37% THROUGH 2040, THE DEMAND FOR ADDITIONAL HANGARS IS OBVIOUS. THE INTENT OF THIS PROJECT IS TO CONSTRUCT ADDITIONAL 10-UNIT T-HANGARS PER TDOT AERONAUTICS DIVISION GUIDANCE. THIS PROJECT IS TO BE PHASED INTO PRELIMINARY DESIGN, FINAL DESIGN THRU BID, AND CONSTRUCTION. THIS REQUEST IS FOR THE REMAINING TWO PROPOSED 10-UNIT T-HANGARS. |
| AS NOTED IN THE 2019 UPDATE OF THE TDOT STATEWIDE PCI INDEX STUDY, ELLINGTON AIRPORT'S PARALLEL TAXIWAY RECEIVED A RATING OF 22. THE TAXIWAY HAS REACHED ITS USEFUL LIFE AND IS IN NEED OF A MAJOR REHABILITATION. IN ADDITION TO ITS CURRENT CONDITION, A LARGE PORTION OF THE TAXIWAY RISES APPROXIMATELY 20' ABOVE THE ELEVATION OF THE RUNWAY. THIS AREA PENETRATES THE RUNWAYS OBSTACLE FREE ZONE, PART 77 PRIMARY SURFACE, AND EXCEEDS TAXIWAY GRADIENT CRITERIA. THE PROJECT IS TO BE THREE SEPARATE PHASES WITH THIS BEING PHASE I WHICH WILL ENTAIL PRELIMINARY DESIGN, GEOTECHNICAL INVESTIGATION, SURVEY, AND ENVIRONMENTAL SERVICES. | THE ELLINGTON AIRPORT HAS MULTIPLE AREAS THAT SECURITY GATES AND FENCING WOULD BE BENEFICIAL. THESE AREAS INCLUDE THE REAR CONSTRUCTION ENTRANCE AND PROPERTY LINE BETWEEN NEIGHBORING PROPERTIES ALONG FRANKLIN PIKE, SNELL RD, AND DOUBLE BRIDGE RD. THIS PROJECT WOULD BE FOR PHASE II & III OF THE SECURITY FENCING PROJECT AND WOULD INCLUDE FINAL DESIGN, BID PHASE, AND ALL ASSOCIATED ELEMENTS REQUIRED TO COMPLETE THE CONSTRUCTION PHASE OF THIS PROJECT.   | CURRENTLY, THE AIRPORT ENTRANCE ROAD IS LOCATED WITHIN THE RUNWAY 02 RPZ, WHICH IS CONSIDERED TO BE AN INCOMPATIBLE LAND USE WITHIN THE RPZ. IN ADDITION, THE ENTRANCE ROAD IS A TRAVERSE WAY VIOLATION, AND PENETRATES THE EXISTING RUNWAY APPROACH SURFACE. THE AIRPORT INTENDS TO RELOCATE THE ROAD AFTER THE PAVEMENT HAS REACHED ITS USEFUL LIFE.   |
| AS NOTED IN THE 2019 UPDATE OF THE TDOT STATEWIDE PCI INDEX STUDY, ELLINGTON AIRPORT'S PARALLEL TAXIWAY RECEIVED A RATING OF 22. THE TAXIWAY HAS REACHED ITS USEFUL LIFE AND IS IN NEED OF A MAJOR REHABILITATION. IN ADDITION TO ITS CURRENT CONDITION, A LARGE PORTION OF THE TAXIWAY RISES APPROXIMATELY 20' ABOVE THE ELEVATION OF THE RUNWAY. THIS AREA PENETRATES THE RUNWAYS OBSTACLE FREE ZONE, PART 77 PRIMARY SURFACE, AND EXCEEDS TAXIWAY GRADIENT CRITERIA. THE PROJECT IS TO BE THREE SEPARATE PHASES WITH THIS BEING PHASE II WHICH WILL ENTAIL FINAL DESIGN, BID PHASE, AND PROJECT ADMINISTRATION SERVICS.                       | WITH GPS CAPABILITIES CONSTANTLY IMPROVING, SO ARE THE AIRPORTS VISIBILITY MINIMUMS, WHICH CAN INTRODUCE MORE DEMANDING RUNWAY PROTECTION ZONE CRITERIA THAT WAS NOT PLANNED FOR. THE AIRPORT CURRENTLY CONTROLS A MAJORITY OF THE AIRPORT'S RPZ'S BY WAY OF AVIGATION EASEMENTS. PER TDOT AERONAUTICS GUIDANCE, ELLINGTON AIRPORT INTENDS TO PURCHASE THESE AREAS OF LAND TO GUARANTEE CONTROL OF EXISTING / FUTURE RPZ, AS IT BECOMES AVAILABLE. LAND ACQUISITIONS TYPICALLY TAKE EXTENDED PERIODS OF TIME, SO THIS PROJECT IS TO BE PHASED AND WILL BEGIN WITH INITIAL COORDINATION AND LAND APPRAISELS PRIOR TO PURCHASNG PROPERTY. | WITH DEMAND FOR BUSINESS AVIATION AIRCRAFT HANGARS INCREASING IN THE NASHVILLE VICINITY, ELLINGTON AIRPORT INTENDS TO COMPLETE THE PHASED ENVIRONMENTAL, PRELIMINARY DESIGN, AND CONSTRUCTION FOR THE GRADING AND SITE PREP. THIS WILL ALLOW THE AIRPORT TO HAVE BUILD READY LOCATIONS FOR POTENTIAL OUTSIDE INVESTORS AND ECONOMIC DEVELOPMENT OPPORTUNITIES.   |
| THE ELLINGTON AIRPORT HAS MULTIPLE AREAS THAT SECURITY GATES AND FENCING WOULD BE BENEFICIAL. THESE AREAS INCLUDE THE REAR CONSTRUCTION ENTRANCE AND PROPERTY LINE BETWEEN NEIGHBORING PROPERTIES ALONG FRANKLIN PIKE, SNELL RD, AND DOUBLE BRIDGE RD. THIS PROJECT WOULD BE FOR PHASE I OF THE SECURITY FENCING PROJECT AND WOULD INCLUDE PRELIMINARY DESIGN, SURVEY, GEOTECHNICAL INVESTIGATION, AND ALL ENVIRONMENTAL COORDINATION REQUIRED PRIOR PHASE II OR III.  | THIS PROPOSED PROJECT WILL ADDRESS THE FOLLOWING ITEMS. THE EXISTING PARKING LOT DOES NOT HAVE A SUFFICIENT AMOUNT OF PARKING, DOES NOT MEET ADA STANDARDS, AND HAS EXISTING PAVEMENT THAT IS IN VERY POOR CONDITION. AS THE ONLY AIRSIDE ACCESS POINT FOR THE AIRPORT, THIS CREATES A HAZARD AS FOD IS TRANSFERED DIRECTLY FROM THE PARKING LOT TO THE AIRPORT APRONS AND TAXIWAYS VIA VEHICLE TRAFFIC. THIS PROJECT WILL BE DIVIDED INTO PRELIMINARY DESIGN, FINAL DESIGN THROUH BID, AND CONSTRUCTION.   | MANY POTENTIAL OBSTRUCTIONS WITHIN 10' BELOW THE APPROACH SURFACES WERE NOTED DURING THE 2019 AGIS SURVEY. THIS PROJECT IS TO RE-EVALUATE THE PART 77 SURFACES TO IDENTIFY AND REMOVE ANY OBSTRUCTIONS. ADDITIONAL CONSIDERATION WILL BE GIVEN TO CHANGES IN STANDARDS OR COMMON PRACTICES, AND ANY DIMENSIONAL CHANGES TO APPROACH SURFACES WILL BE INCORPORATED.   |
|  | CURRENTLY, THE AIRPORT HAS A T-HANGAR WAITING LIST OF 65 THAT IS GROWING AS MIDDLE TENNESSEE CONTINUES TO GROW AT A RAPID RATE. WITH TDOTS COMPREHENSIVE TRANSPORTATION PLAN PROJECTING MARSHALL COUNTY TO GROW 37% THROUGH 2040, THE DEMAND FOR ADDITIONAL HANGARS IS OBVIOUS. THE INTENT OF THIS PROJECT IS TO CONSTRUCT THE FIRST OF THREE PROPOSED 10-UNIT T-HANGARS PER TDOT AERONAUTICS DIVISION GUIDANCE. THIS PROJECT IS TO BE PHASED INTO PRELIMINARY DESIGN, FINAL DESIGN THRU BID AND CONSTRUCTION. THE ESTIMATED PROJECT AMOUNT IS FOR ONE 10-UNIT BUILDING INCLUDING SITE PREP AND ENGINEERING.                            | AN ALP UPDATE  AN ALP UPDATE WILL BE REQUIRED TO RE-EVALUTATED THE CURRENT DEMAND ON THE AIRPORT AND UPDATE THE LOCAL AVIATION FORECAST. ADDITIONALLY ANY COMPLETED PROJECTS WILL BE ADDED TO ALP AND NEW STANDARDS WILL BE INCORPORATED, IF NEEDED, WILL INCLUDE AN UPDATED AGIS SURVEY.  |
| STAGE I TOTAL \$1,393,000  | STAGE II TOTAL \$5,160,000  |  |

| * BASED AIRCRAFT           |           | #                        | *OPER/                         | ATIONS      | #      |
|----------------------------|-----------|--------------------------|--------------------------------|-------------|--------|
| SINGLE ENGINE              |           | 47                       | AIR TAXI                       |             | 1,000  |
| MULTI ENGINE               |           | 1                        | GA LOCAL                       |             | 10,000 |
| TURBINE                    |           | 2                        | GA INTINERANT                  |             | 5,000  |
| OTHER                      |           | 2                        | MILITARY                       |             | 50     |
| тс                         | OTAL:     | 52                       |                                | TOTAL:      | 16,05  |
| T-HANGAR WAITING LIST      |           | 65                       | INSTRUMENT OPERATIONS (TFMSC)  |             | 494    |
| CRITICAL AIRCRAFT ULTIMATE | FALCON 50 |                          | CRITICAL AIRCRAFT OPS (I       | FLEETMAX)** | 1,000  |
| CRITICAL AIRCRAFT S        |           | AME                      | ULTIMATE CRITICAL AIRCRAFT OPS |             | SAM    |
|                            |           |                          | EXISTING                       | ULTIMA      | TE     |
| RUNWAY DESIGN CODE         |           | B-II-4000                | B-II-4000                      |             |        |
| APPROACH REFERENCE CODE    |           | B-III-4000<br>D-II-4000  | B-III-4000<br>D-II-4000        |             |        |
| DEPARTURE REFERENCE CODE   |           | B-III B-III<br>D-II D-II |                                |             |        |

\* OPERATIONS COUNTS ARE SHOWN AS LISTED ON 5010 MASTER RECORD FOR TWELVE MONTHS ENDING 12/31/2018. BASED AIRCRAFT COUNTS LISTED ABOVE REFLECT ACTUAL BASED AIRCRAFT AT THE TIME THIS ALP UPDATE WAS COMPLETED. 4 AIRCRAFT WERE AWAITING VERIFICATION AND WERE NOT INCLUDED ON 5010 AVAILABLE AT THE TIME. BASED AIRCRAFT COUNTS ARE CAN FLUCTUATE CONSIDERABLY AS AIRCRAFT ARE RELOCATED BY OWNERS. ACTUAL AIRCRAFT COUNTS WERE PROVIDED BY AIRPORT MANAGER.

\*\* SEE ALP NARRATIVE REPORT

\*- 2 FOOT CONTOUR INTERVAL

| LE                                    | EGEND                                   |                                     |
|---------------------------------------|---|-------------------------------------|
|                                       | EXISTING                                | ULTIMATE                            |
| RUNWAY CENTERLINE                     |   |                                     |
| RUNWAY SAFETY AREA (RSA)              | E-RSA                                   |                                     |
| RUNWAY OBJECT FREE AREA (ROFA)        | E-OFA                                   | the same of the table with the same |
| RUNWAY OBSTACLE FREE ZONE (ROFZ)      | E-OFZ                                   | U-OFZ                               |
| RUNWAY PROTECTION ZONE (RPZ)          | E-RPZ                                   | — — - U-RPZ — —                     |
| FAR PT 77 APPROACH SURFACE            | water I A TANK water on                 | ***・「飲食物」のであり                       |
| TAXIWAY OBJECT FREE AREA (TOFA)       | E-TOFA                                  | U-TOFA                              |
| TAXIWAY SAFETY AREA (TSA)             |   |                                     |
| 35' BUILDING RESTRICTION LINE (BRL)   |   | SAME                                |
| AIRPORT PAVEMENT                      | SEE PHOTO                               |                                     |
| AIRPORT BUILDINGS                     | SEE PHOTO                               |                                     |
| AIRPORT PROPERTY LINE / EASEMENTS     |   | PP                                  |
| FENCE                                 |   |                                     |
| *GROUND ELEVATIONS CONTOURS           | 1025                                    | <del></del>                         |
| PAVEMENT OR BUILDING TO BE REMOVED    | *************************************** |                                     |
| GVGSI (PAPI's)                        |   | *                                   |
| RUNWAY END INDENTIFIER LIGHTS (REILs) |   | 0                                   |
| WINDCONE                              |   | Δ                                   |
| BEACON                                | 804                                     | •••                                 |
| WINDCONE AND SEGMENTED CIRCLE         |   | 0                                   |

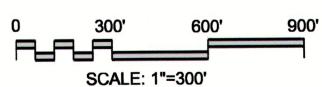
#### NOTES

- 1. ESTIMATED COST NOT BASED ON DETAILED DESIGN.
- 2. ALL COSTS ARE SHOWN IN TERMS OF (ALP YR) DOLLARS.
- 3. AIRPORT CAPITAL IMPROVEMENT PLAN UPDATES REQUIRED ON AN ANNUAL BASIS.
- SEE ALP NARRATIVE REPORT FOR MORE DESCRIPTIVE PROJECT DETAILS AND JUSTIFICATION.
   RUNWAY 2/20 HAS NO PUBLISHED DECLARED DISTANCES OR OPERATIONAL LIMITATIONS.
- 6. AUDDORT HAS NO EXISTING MODIFICATIONS TO STANDARDS
- 6. AIRPORT HAS NO EXISTING MODIFICATIONS TO STANDARDS.
- SEE EXHIBIT "A" AIRPORT PROPERTY INVENTORY MAP FOR ADDITIONAL INFORMATION ON PROPOSED PROPERTY / PROPERTY RIGHTS AQUISITIONS.
- 8. EXISTING AND ULTIMATE AIRPORT CONFIGURATION COINCIDES.

  9. B-II FLEET MIX BASED ON AIRCRAFT WITH SIMILAR CHARACTERISTICS OF FALCON 50.

MAGNETIC DECLINATION:
NOVEMBER 2018
3° 46' W + 0° 22'
CHANGING BY 0° 4' W
PER YEAR

0 300' 600' 900



\* DESIGN ONLY PROJECTS LISTED ABOVE ARE NOT SHOWN OR LABELED ON CAPTIAL IMPROVEMENT DRAWING.



133 Holiday Court Suite 102 Franklin, TN 37067 Phone: (615) 614-0121 Fax: (615) 614-0124

| DR. | CHK. | DATE      | DESCRIPTION |  |
|-----|------|-----------|-------------|--|
| ES  | то   | FEB. 2018 | 30% REVIEW  |  |
| ES  | то   | MAR. 2019 | 60% REVIEW  |  |
| ES  | то   | OCT. 2019 | 90% REVIEW  |  |
| ES  | то   | DEC. 2019 | 100% REVIEW |  |
| ES  | то   | DEC. 2019 | FINAL       |  |
|     |      |           |             |  |

## AIRPORT CAPITAL IMPROVEMENT PLAN

AIRPORT LAYOUT PLAN SET ELLINGTON AIRPORT

LEWISBURG, MARSHALL COUNTY, TENNESSEE
T.A.D. NO. 59-555-0146-18

SHEET

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