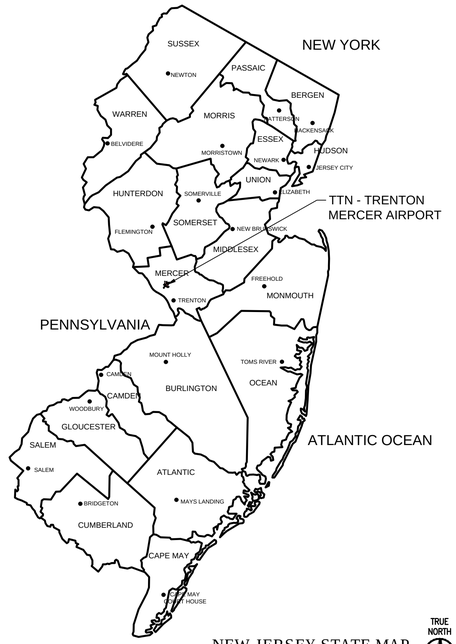
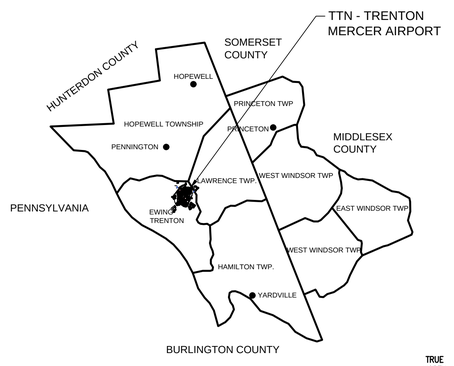
D. AIRPORT LAYOUT PLAN (ALP) SET OF DRAWINGS

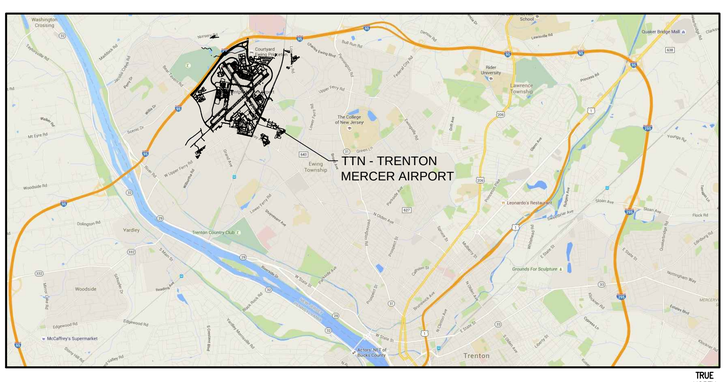
AIRPORT LAYOUT PLANS

TRENTON - MERCER AIRPORT

MERCER COUNTY
EWING TOWNSHIP, NEW JERSEY







INDEX OF DRAWINGS		
NO.	DRAWING TITLE	REVISION DATE
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2	AIRPORT DATA SHEET	-
3	AIRPORT LAYOUT PLAN	-
4	AIRPORT AIRSPACE DRAWING	-
5	AIRPORT AIRSPACE DRAWING	-
6	INNER PORTION OF THE APPROACH SURFACE DRAWINGS (SEE LIST)	
7	RUNWAY DEPARTURE SURFACE DRAWINGS (SEE LIST)	
8	TERMINAL AREA PLAN	-
9	LAND USE PLAN	-
10	AIRPORT PROPERTY MAP / EXHIBIT A	-
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6 - INNER PORTION OF THE APPROACH SURFACE DRAWINGS LIST		
NO.	DRAWING TITLE	REVISION DATE
6-1	RUNWAY 6 PART 77 APPROACH SURFACE PLAN	-
6-2	RUNWAY 24 PART 77 APPROACH SURFACE PLAN	-
6-3	RUNWAY 16 PART 77 APPROACH SURFACE PLAN	-
6-4	RUNWAY 34 PART 77 APPROACH SURFACE PLAN	-
6-5	RUNWAY 6 PART 77 APPROACH SURFACE PROFILE	-
6-6	RUNWAY 24 PART 77 APPROACH SURFACE PROFILE	-
6-7	RUNWAY 16 PART 77 APPROACH SURFACE PROFILE	-
6-8	RUNWAY 34 PART 77 APPROACH SURFACE PROFILE	-
6-9	RUNWAY 24 PAPI OCS PLAN AND PROFILE	-
6-10	RUNWAY 16 PAPI OCS PLAN AND PROFILE	-
6-11	RUNWAY 34 PAPI OCS PLAN AND PROFILE	-
6-12	OBSTRUCTION DATA TABLES NOTES AND LEGEND	-
6-13	OBSTRUCTION DATA TABLES	-
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6-16	RUNWAY 6-24 CENTERLINE PROFILE	-
6-17	RUNWAY 16-34 CENTERLINE PROFILE	-

7 - RUNWAY DEPARTURE SURFACE DRAWINGS LIST		
NO.	DRAWING TITLE	REVISION DATE
7-1	RUNWAY 24 DEPARTURE SURFACE PLAN	-
7-2	RUNWAY 24 DEPARTURE SURFACE PROFILE	-
7-3	RUNWAY 6 DEPARTURE SURFACE PLAN	-
7-4	RUNWAY 6 DEPARTURE SURFACE PROFILE	-

URBAN ENGINEERS
Formulating Excellence®

ENGINEER: _____ DATE 5/24/2018

TRENTON TTN MERCER AIRPORT

AIRPORT SPONSOR APPROVAL:
NAME: [signature]
TITLE: Airport Manager
DATE: 5/24/2018

URBAN ENGINEERS
Formulating Excellence®

REVISION	DESCRIPTION	DATE

TRENTON-MERCER AIRPORT
AIRPORT LAYOUT PLANS
PROJECT NO: 020.137.001

TITLE SHEET

DRAWN: JNH | APPROVED:
CHECKED: KWF | DATE: 05/10/2018

DRAWING NO.
1

SHEET NO. 1 of 30

T:\2014\020137_ttn_on-call\001_mp_update_Sheets\1 TITLE SHEET.dwg 05/09/2018

RUNWAY DATA TABLE

ITEM		RUNWAY 6-24 EXISTING	RUNWAY 6-24 PROPOSED	RUNWAY 16-34 EXISTING & PROPOSED
RUNWAY DESIGN CODE (RDC)		C-III-2400	C-III-2400	C-III-4000
APPROACH REFERENCE CODE (APRC)		C-III-2400	C-III-2400	C-III-4000
DEPARTURE REFERENCE CODE (DPRC)		C-III	C-III	C-III
CRITICAL AIRCRAFT		A-320 NEO SHARKLET	A-320 NEO SHARKLET	GULFSTREAM V
PAVEMENT STRENGTH	SINGLE WHEEL	120,000 LBS	120,000 LBS	120,000 LBS
	DUAL WHEEL	180,000 LBS	180,000 LBS	180,000 LBS
	DUAL TANDEM	320,000 LBS	320,000 LBS	320,000 LBS
	PCN	23.79 / F/ A / X / T	23.79 / F/ A / X / T	40.76 / F / A / X / T
SURFACE TYPE		ASPHALT GROOVED	ASPHALT GROOVED	ASPHALT GROOVED
EFFECTIVE RUNWAY GRADIENT		0.53%	0.53%	0.80%
MAXIMUM GRADE CHANGE		2.80%	2.80%	1.65%
WIND COVERAGE (%) 16.0 KNOTS	ALL WEATHER	99.11%	99.11%	99.33%
	IFR	99.14%	99.14%	98.44%
RUNWAY LENGTH		6,006'	6,006'	4,800'
RUNWAY WIDTH		150'	150'	150'
SHOULDER WIDTH		NONE	NONE	NONE
DISPLACED THRESHOLD		NONE	NONE	NONE
RUNWAY END COORDINATES	LATITUDE	6 - N40°16'11.11"	6 - N40°16'11.11"	16 - N40°17'01.38"
	LONGITUDE	6 - W74°49'17.68"	6 - W74°49'17.68"	16 - W74°49'04.70"
	LATITUDE	24 - N40°16'51.98"	24 - N40°16'51.98"	34 - N40°16'22.21"
	LONGITUDE	24 - W74°48'21.49"	24 - W74°48'21.49"	34 - W74°48'29.76"
RUNWAY LIGHTING		HIRL	HIRL	HIRL
RUNWAY MARKING		PRECISION	PRECISION	NON-PRECISION
CFR PART 77 APPROACH TYPE		PRECISION / NON-PRECISION	PRECISION / NON-PRECISION	NON-PRECISION
CFR PART 77 APPROACH CATEGORY		50:1-40:1 / 34:1	50:1-40:1 / 34:1	34:1 / 34:1
VISIBILITY MINIMUMS		1/2 MILE / 1-1/4 MILE	1/2 MILE / 3/4 MILE	1 MILE / 1 MILE
TYPE OF AERONAUTICAL SURVEY		VERTICALLY GUIDED	VERTICALLY GUIDED	NON-VERTICALLY GUIDED
RUNWAY DEPARTURE SURFACE		YES / YES	YES / YES	NO / NO
AIRPORT DESIGN APPROACH SURFACE		#7 / #6 *	#7 / #6 *	#5 *
RUNWAY PROTECTION ZONE (RPZ)	INNER WIDTH	1,000' / 500'	1,000' / 1,000'	500'
	OUTER WIDTH	1,750' / 1,010'	1,750' / 1,510'	1,010'
	LENGTH	2,500' / 1,700'	2,500' / 1,700'	1,700'
RUNWAY OBJECT FREE AREA (ROFA)	LENGTH BEYOND RUNWAY	343' / 288'	343' / 288'	284' / 262'
	WIDTH	800'	800'	800'
RUNWAY SAFETY AREA (RSA)	LENGTH BEYOND RUNWAY	343' / 288'	343' / 288'	284' / 262'
	WIDTH	500'	500'	500'
RUNWAY OBSTACLE FREE ZONE (ROFZ)	LENGTH BEYOND RUNWAY	200'	200'	200'
	WIDTH	400'	400'	400'
INNER APPROACH OBSTACLE FREE ZONE	INNER WIDTH	400'	400'	NA
	LENGTH	2400' / NA	2400' / NA	NA
INNER TRANSITIONAL OBSTACLE FREE ZONE	INNER WIDTH	1158' / 1147'	1158' / 1147'	NA
	OUTER WIDTH	1142' / NA	1142' / NA	NA
TAXIWAY SEPARATION		400'	400'	400'
VISUAL APPROACH AIDS		MALSR / PAPI, REIL	MALSR / PAPI, REIL	PAPI, REIL / PAPI, REIL
INSTRUMENT APPROACH AIDS		ILS, RNAV, VOR / RNAV, VOR	ILS, RNAV, VOR / RNAV, VOR	RNAV, VOR
MAXIMUM ELEVATION		192.6'	192.6'	212.6'
RUNWAY END ELEVATIONS		160.3' / 192.1'	160.3' / 192.1'	212.6' / 174.4'
DISPLACED THRESHOLD ELEVATION		NONE	NONE	NONE
TOUCH DOWN ZONE (TDZ) ELEVATION		185.9' / 192.6'	185.9' / 192.6'	212.6' / 202.1'
LINE OF SIGHT VIOLATIONS		NONE	NONE	NONE

* PER TABLE 3-2 OF AC 150/5300-13A

AIRPORT DATA TABLE

ITEM		EXISTING & PROPOSED
AIRPORT REFERENCE CODE (ARC)		C-III
MEAN MAXIMUM TEMPERATURE OF HOTTEST MONTH		85.2°F
AIRPORT ELEVATION		212.6'
AIRPORT NAVIGATIONAL AIDS		ILS, ASR, VOR, VDF, BEACON, ASDE, RTR
AIRPORT REFERENCE POINT	LATITUDE	N40°16'36.10"
	LONGITUDE	W74°48'48.54"
MISCELLANEOUS FACILITIES		ASOS, WIND CONES
CRITICAL AIRCRAFT		A-320 NEO SHARKLET
MAGNETIC VARIATION (SOURCE: NGS, 2016)		12° 25' W
NPIAS SERVICE LEVEL		PRIMARY COMMERCIAL SERVICE
STATE SERVICE LEVEL		COMMERCIAL
COMBINED WIND COVERAGE (%) 16.0 KNOTS	ALL WEATHER	99.98%
	IFR	99.94%
TAXIWAY DESIGN GROUP		3
TAXIWAY SAFETY AREA (TSA) WIDTH		118'
TAXIWAY OBJECT FREE AREA (TOFA) WIDTH		186'
TAXILANE OBJECT FREE AREA (TLOFA) WIDTH		162'
TAXIWAY EDGE SAFETY MARGIN (TESM)		10'
TAXIWAY LIGHTING		MITL
TAXIWAY MARKING		CENTERLINE TRACKING
TAXIWAY SURFACE TYPE		ASPHALT

RUNWAY SAFETY AREA DETERMINATION

RUNWAY ID	STANDARD RSA LENGTH BEYOND RUNWAY END	ACTUAL RSA LENGTH BEYOND RUNWAY END	ACTUAL RSA VIOLATIONS TO RSA ALONG SIDE OF RUNWAY	RSA DETERMINATION	DATE APPROVED
RUNWAY 6-24					
6	1,000'	343'	NONE	06/11/2014	06/11/2014
24	1,000'	288'	NONE	02/11/2014	06/11/2014
RUNWAY 16-34					
16	1,000'	284'	NONE	06/11/2014	06/11/2014
34	1,000'	262'	NONE	06/11/2014	06/11/2014

TAXIWAY WIDTH TABLE

TAXIWAY	EXISTING WIDTH	PROPOSED WIDTH
A	75'	75'
B	75' TO 80'	50' TO 75'
C	75'	REMOVED
D	50'	50'
E	75'	50' TO 75'
F	50' TO 60'	50'
G	75'	RENAMED D
H	75'	RENAMED E
J	75'	RENAMED B

DECLARED DISTANCES

APPROACH END ID	TORA	TODA	ASDA	LDA	LDA APPROACH END RSA LENGTH	LDA STOP END RSA LENGTH	ASDA RSA LENGTH	DATE APPROVED
RUNWAY 6-24								
6	6,006'	6,006'	6,006'	6,006'	288'	343'	343'	N/A
24	6,006'	6,006'	6,006'	6,006'	343'	288'	288'	N/A
RUNWAY 16-34								
16	4,800'	4,800'	4,800'	4,800'	262'	284'	284'	N/A
34	4,800'	4,800'	4,800'	4,800'	284'	262'	262'	N/A

MODIFICATION TO DESIGN STANDARDS

NO.	STANDARD MODIFIED	FAA STANDARDS	EXISTING CONDITION	PROPOSED ACTION	DATE APPROVED
1	SURFACE GRADIENT STANDARDS	MAX. LONGITUDINAL GRADE +/- 1.5%; 0.8% IN THE FIRST QUARTER. NO CHANGES IN GRADE IN THE 1ST AND 4TH QUARTER OF THE RUNWAY	1.3% IN THE 1ST QUARTER; VERTICAL CURVE 600' FROM THE RUNWAY END	NO CHANGE	06/10/2016
2	RUNWAY LINE OF SITE	OBJECTS 5' ABOVE THE RUNWAY MUST BE VISIBLE FOR THE ENTIRE RUNWAY LENGTH, UNLESS THERE IS A FULL LENGTH PARALLEL TAXIWAY	VERTICAL PROFILE OF RUNWAY 6-24 OBSTRUCTS OBJECTS, THUS THE REQUIREMENT CANNOT BE MET.	CONSTRUCT FULL LENGTH PARALLEL TAXIWAY CONNECTING TAXIWAY B AND J; STANDARD THEN BECOMES VISIBILITY FOR HALF OF THE RUNWAY LENGTH, WHICH WILL BE MET.	06/10/2016

PROPOSED LAND RELEASE OF PROPERTY

REFERENCE	TAX PARCEL NO.	ACREAGE	PROPOSED DATE OF RELEASE	PURPOSE OF RELEASE
43 - MERCER COUNTY LIBRARY, EWING BR.	17/17A	3 ACRES	6/20/18	SURPLUS PROPERTY

PROPOSED NON-AERONAUTICAL PROPERTY

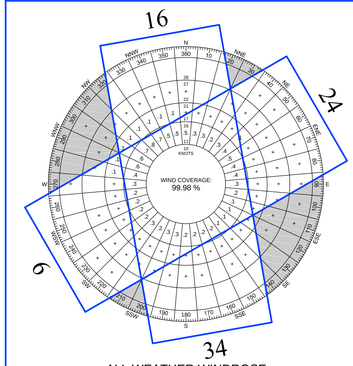
REFERENCE	APPROX. SIZE	NOTE	FAA APPROVAL DATE
21 - DPW BLDGS	13 ACRES	SEE EXHIBIT A, PARCEL 30A	
41 - GOLF COURSE	275 ACRES	SEE EXHIBIT A, PARCELS 15, 16, 32, 33	

PROPOSED INTERIM NON-AERONAUTICAL USE *

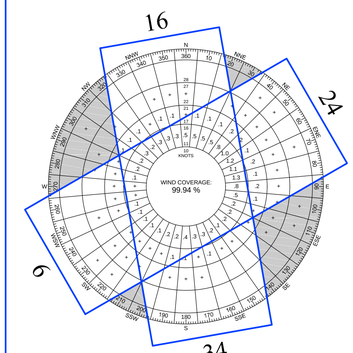
REFERENCE	APPROX. SIZE	NOTE	FAA APPROVAL DATE
11 - MERCER CO. MORGUE	0.5 ACRES	CONVERT TO AERONAUTICAL USE BY TTN MTCE, SEE EXHIBIT A, PARCEL 3	
19 - CIVIL AIR PATROL	0.5 ACRES	SEE EXHIBIT A, PARCEL 3	
35 - COUNTY IMPOUND LOT	0.5 ACRES	SEE EXHIBIT A, PARCEL 6	
40 - SALT DOME	1 ACRE	SEE EXHIBIT A, PARCEL 16	
42 - SOCCER FIELDS	11 ACRES	SEE EXHIBIT A, PARCEL 17	

* WILL BE CONVERTED TO AERONAUTICAL USE BY 12/20/2018

WIND COVERAGE



ALL WEATHER WINDROSE



IFR WINDROSE

SOURCE: NATIONAL CLIMACTIC DATA CENTER – TRENTON-MERCER AIRPORT 2006-2015 (108,581)

WIND COVERAGE

KNOTS	ALL WEATHER	IFR
10.5	99.14%	99.16%
13.0	99.83%	99.79%
16.0	99.98%	99.94%

NOTES:
- ALL POSITIONAL DATA REFERENCES NORTH AMERICAN DATUM OF 1983 (NAD83) AND NORTH AMERICAN VERTICAL DATUM 1988 (NGVD88).
- AERIAL MAPPING BY WOOLPERT, 2014.

TRENTON TTN MERCER AIRPORT

URBAN ENGINEERS
Formulating Excellence®

REVISION	DESCRIPTION	DATE

TRENTON-MERCER AIRPORT
AIRPORT LAYOUT PLANS
PROJECT NO: 020.137.001

AIRPORT DATA SHEET

DRAWN: JNH APPROVED:
CHECKED: KWF DATE: 05/10/2018

DRAWING NO. 2

SHEET NO. 2 of 30

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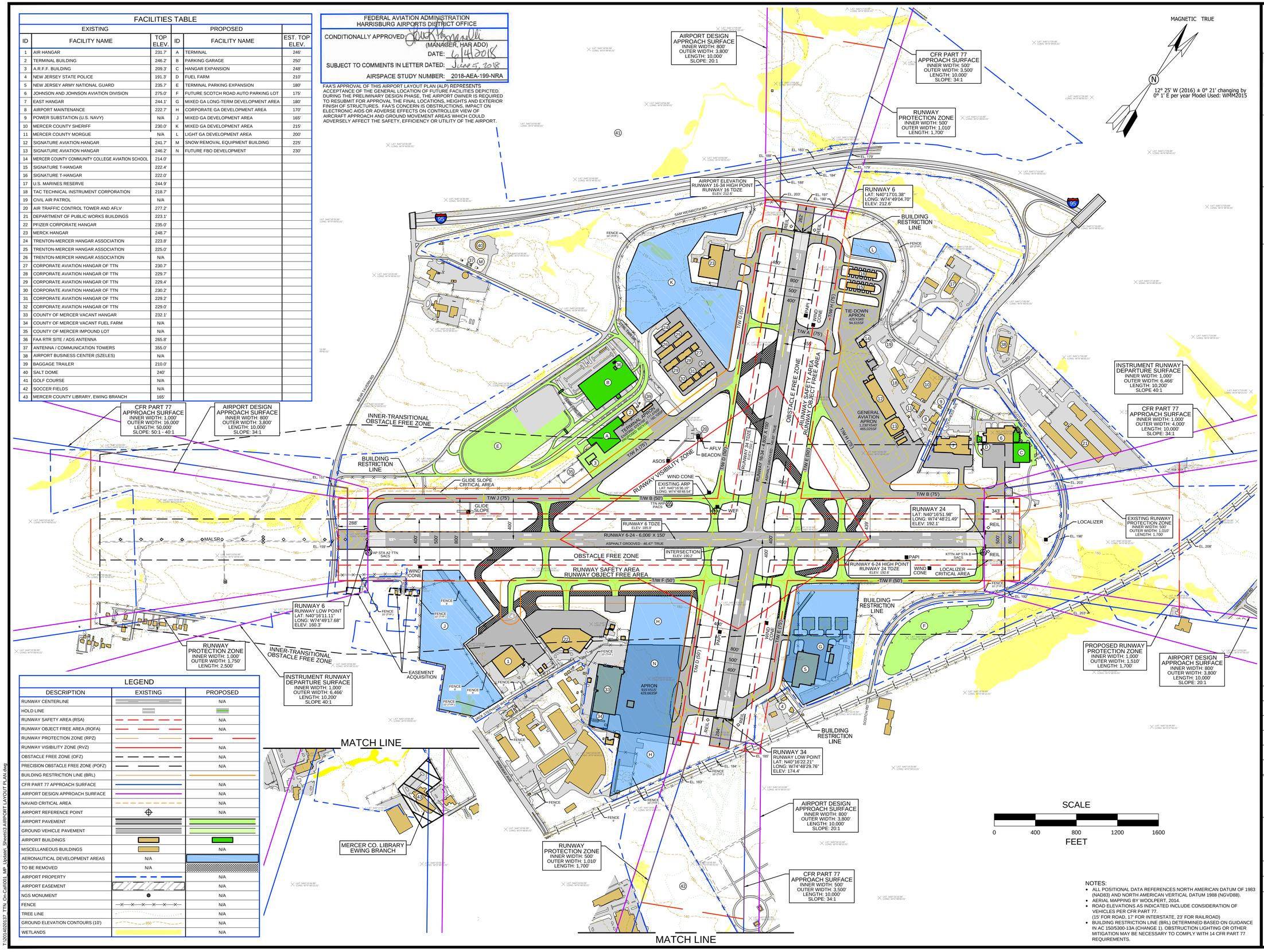
FACILITIES TABLE

EXISTING ID	EXISTING FACILITY NAME	TOP ELEV.	PROPOSED ID	PROPOSED FACILITY NAME	EST. TOP ELEV.
1	AIR HANGAR	231.7'	A	TERMINAL	246'
2	TERMINAL BUILDING	246.2'	B	PARKING GARAGE	250'
3	A.R.F.F. BUILDING	209.3'	C	HANGAR EXPANSION	248'
4	NEW JERSEY STATE POLICE	191.3'	D	FUEL FARM	210'
5	NEW JERSEY ARMY NATIONAL GUARD	235.7'	E	TERMINAL PARKING EXPANSION	180'
6	JOHNSON AND JOHNSON AVIATION DIVISION	275.0'	F	FUTURE SCOTCH ROAD AUTO PARKING LOT	175'
7	EAST HANGAR	244.1'	G	MIXED GA LONG-TERM DEVELOPMENT AREA	180'
8	AIRPORT MAINTENANCE	222.7'	H	CORPORATE GA DEVELOPMENT AREA	170'
9	POWER SUBSTATION (U.S. NAVY)	N/A	J	MIXED GA DEVELOPMENT AREA	165'
10	MERCER COUNTY SHERIFF	230.0'	K	MIXED GA DEVELOPMENT AREA	215'
11	MERCER COUNTY MORGUE	N/A	L	LIGHT GA DEVELOPMENT AREA	200'
12	SIGNATURE AVIATION HANGAR	241.7'	M	SNOW REMOVAL EQUIPMENT BUILDING	225'
13	SIGNATURE AVIATION HANGAR	246.2'	N	FUTURE FBO DEVELOPMENT	230'
14	MERCER COUNTY COMMUNITY COLLEGE AVIATION SCHOOL	214.0'			
15	SIGNATURE T-HANGAR	222.4'			
16	SIGNATURE T-HANGAR	222.0'			
17	U.S. MARINES RESERVE	244.9'			
18	TAC TECHNICAL INSTRUMENT CORPORATION	218.7'			
19	CIVIL AIR PATROL	N/A			
20	AIR TRAFFIC CONTROL TOWER AND AFLV	277.2'			
21	DEPARTMENT OF PUBLIC WORKS BUILDINGS	223.1'			
22	PFIZER CORPORATE HANGAR	235.0'			
23	MERCK HANGAR	248.7'			
24	TRENTON-MERCER HANGAR ASSOCIATION	223.8'			
25	TRENTON-MERCER HANGAR ASSOCIATION	225.0'			
26	TRENTON-MERCER HANGAR ASSOCIATION	N/A			
27	CORPORATE AVIATION HANGAR OF TTN	230.7'			
28	CORPORATE AVIATION HANGAR OF TTN	229.7'			
29	CORPORATE AVIATION HANGAR OF TTN	229.4'			
30	CORPORATE AVIATION HANGAR OF TTN	230.2'			
31	CORPORATE AVIATION HANGAR OF TTN	229.2'			
32	CORPORATE AVIATION HANGAR OF TTN	229.0'			
33	COUNTY OF MERCER VACANT HANGAR	232.1'			
34	COUNTY OF MERCER VACANT FUEL FARM	N/A			
35	COUNTY OF MERCER IMPOUND LOT	N/A			
36	FAA RTR SITE / ADS ANTENNA	265.8'			
37	ANTENNA / COMMUNICATION TOWERS	355.0'			
38	AIRPORT BUSINESS CENTER (SZELES)	N/A			
39	BAGGAGE TRAILER	210.0'			
40	SALT DOME	240'			
41	GOLF COURSE	N/A			
42	SOCCER FIELDS	N/A			
43	MERCER COUNTY LIBRARY, EWING BRANCH	165'			

FEDERAL AVIATION ADMINISTRATION
HARRISBURG AIRPORTS DISTRICT OFFICE

CONDITIONALLY APPROVED: [signature] (MANAGER, HAR ADO)
DATE: 6/4/2018
SUBJECT TO COMMENTS IN LETTER DATED: June 5, 2018
AIRSPACE STUDY NUMBER: 2018-AEA-199-NRA

FAA'S APPROVAL OF THIS AIRPORT LAYOUT PLAN (ALP) REPRESENTS ACCEPTANCE OF THE GENERAL LOCATION OF FUTURE FACILITIES DEPICTED. DURING THE PRELIMINARY DESIGN PHASE, THE AIRPORT OWNER IS REQUIRED TO RESUBMIT FOR APPROVAL THE FINAL LOCATIONS, HEIGHTS AND EXTERIOR FINISH OF STRUCTURES. FAA'S CONCERN IS OBSTRUCTIONS, IMPACT ON ELECTRONIC AIDS OR ADVERSE EFFECTS ON CONTROLLER VIEW OF AIRCRAFT APPROACH AND GROUND MOVEMENT AREAS WHICH COULD ADVERSELY AFFECT THE SAFETY, EFFICIENCY OR UTILITY OF THE AIRPORT.



LEGEND

DESCRIPTION	EXISTING	PROPOSED
RUNWAY CENTERLINE		N/A
HOLD LINE		
RUNWAY SAFETY AREA (RSA)		N/A
RUNWAY OBJECT FREE AREA (ROFA)		N/A
RUNWAY PROTECTION ZONE (RPZ)		
RUNWAY VISIBILITY ZONE (RVZ)		N/A
OBSTACLE FREE ZONE (OFZ)		N/A
PRECISION OBSTACLE FREE ZONE (POFZ)		N/A
BUILDING RESTRICTION LINE (BRL)		
CFR PART 77 APPROACH SURFACE		N/A
AIRPORT DESIGN APPROACH SURFACE		N/A
NAVAID CRITICAL AREA		N/A
AIRPORT REFERENCE POINT		N/A
AIRPORT PAVEMENT		
GROUND VEHICLE PAVEMENT		
AIRPORT BUILDINGS		
MISCELLANEOUS BUILDINGS		N/A
AERONAUTICAL DEVELOPMENT AREAS	N/A	
TO BE REMOVED	N/A	
AIRPORT PROPERTY		N/A
AIRPORT EASEMENT		N/A
NGS MONUMENT		N/A
FENCE		N/A
TREE LINE		N/A
GROUND ELEVATION CONTOURS (10')	850	N/A
WETLANDS		N/A

NOTES:
- ALL POSITIONAL DATA REFERENCES NORTH AMERICAN DATUM OF 1983 (NAD83) AND NORTH AMERICAN VERTICAL DATUM 1988 (NGVD88).
- AERIAL MAPPING BY WOOLPERT, 2014.
- ROAD ELEVATIONS AS INDICATED INCLUDE CONSIDERATION OF VEHICLES PER CFR PART 77. (15' FOR ROAD, 17' FOR INTERSTATE, 23' FOR RAILROAD)
- BUILDING RESTRICTION LINE (BRL) DETERMINED BASED ON GUIDANCE IN AC 150/5300-13A (CHANGE 1). OBSTRUCTION LIGHTING OR OTHER MITIGATION MAY BE NECESSARY TO COMPLY WITH 14 CFR PART 77 REQUIREMENTS.

TRENTON MERCER AIRPORT

AIRPORT SPONSOR APPROVAL:
NAME: [signature]
TITLE: Airport Manager
DATE: 5/24/2018

URBAN ENGINEERS
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REVISION	DESCRIPTION	DATE

TRENTON-MERCER AIRPORT
AIRPORT LAYOUT PLANS
PROJECT NO: 020.137.001

AIRPORT LAYOUT PLAN

DRAWN: JNH | APPROVED:
CHECKED: KWF | DATE: 05/10/2018

DRAWING NO. 3

SHEET NO. 3 of 30

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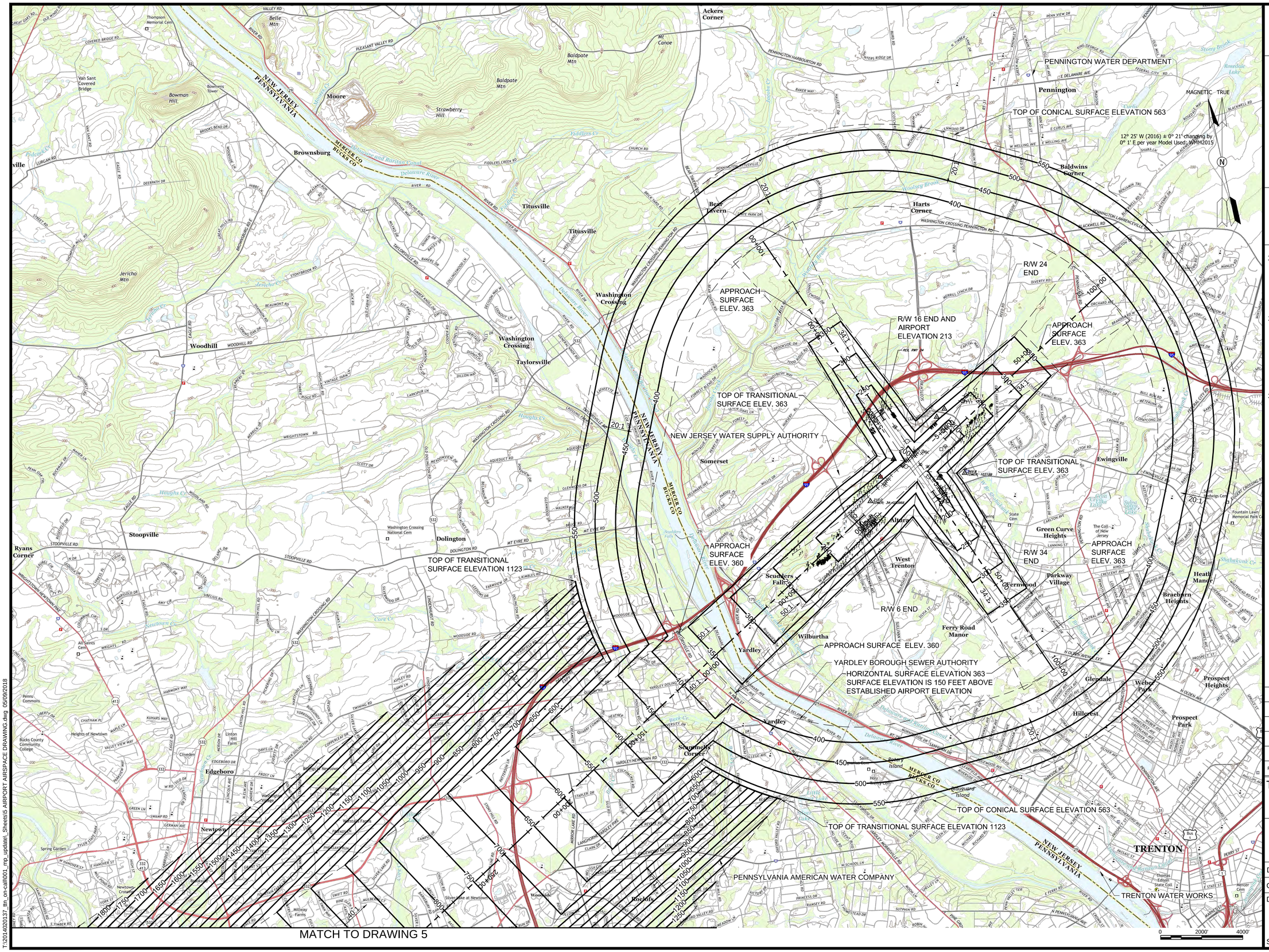

TRENTON TTN MERCER AIRPORT

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1. GEO-REFERENCES: THE SURVEY WAS BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD83/2011) HORIZONTALLY, AND THE NORTH AMERICAN VERTICAL DATUM (NAVD88) VERTICALLY.

2. ANALYTICAL AERIAL TRANGULATION, AERIAL PHOTO CONTROL AND OBSTACLES RELATIVE TO AIRPORT AIRSPACE FAR PART 77 SURFACES WERE DETERMINED BY AERIAL PHOTOGRAPHY OBTAINED BY WOOLPERT, INC. ON AUGUST 2014

3. AN INDIVIDUAL TREE OBSTRUCTION, AS SHOWN WITH A "T" SYMBOL, MAY CONSIST OF A SINGLE TREE WITH ONE MAIN TRUNK, A SINGLE TREE WITH MULTIPLE BOUGHS GROWING FROM A SINGLE TRUNK, MULTIPLE TREES GROWING SO CLOSELY TOGETHER THAT THEY APPEAR TO BE ONE TREE, OR MULTIPLE TREES ENTWINED INTO ONE CANOPY. THERE IS NO REPRESENTATION AS TO THE NUMBERS OF TRUNKS OR THEIR DIAMETERS, IN IDENTIFYING INDIVIDUAL TREE OBSTRUCTIONS.

REVISION	DESCRIPTION	DATE

TRENTON-MERCER AIRPORT
AIRPORT LAYOUT PLANS
PROJECT NO: 020.137.001

AIRPORT AIRSPACE DRAWING

DRAWN: KWF	APPROVED:
CHECKED: KWF	DATE: 05/10/2018

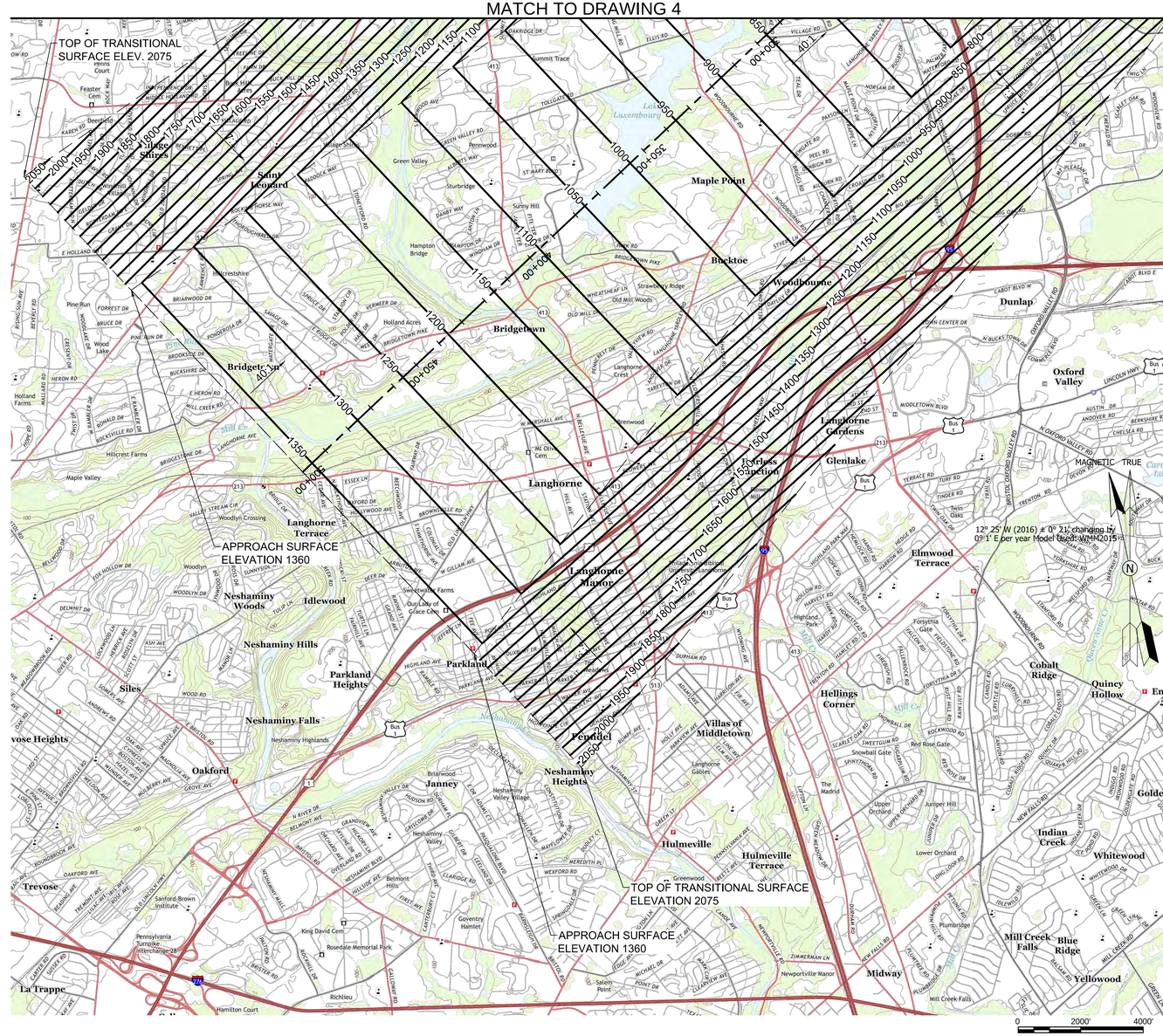
DRAWING NO.

4

SHEET NO. 4 of 30

T:\2014\020137_ttn_on-call\001_mp_update_Sheets\ AIRPORT AIRSPACE DRAWING.dwg 05/09/2018

MATCH TO DRAWING 4



TRENTON TTN MERCER AIRPORT

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REVISION	DESCRIPTION	DATE

TRENTON-MERCER AIRPORT
AIRPORT LAYOUT PLANS
PROJECT NO: 020.137.001

AIRPORT AIRSPACE DRAWING

DRAWN: KWF	APPROVED:
CHECKED: KWF	DATE: 05/10/2018

DRAWING NO.

5

SHEET NO. 5 of 30

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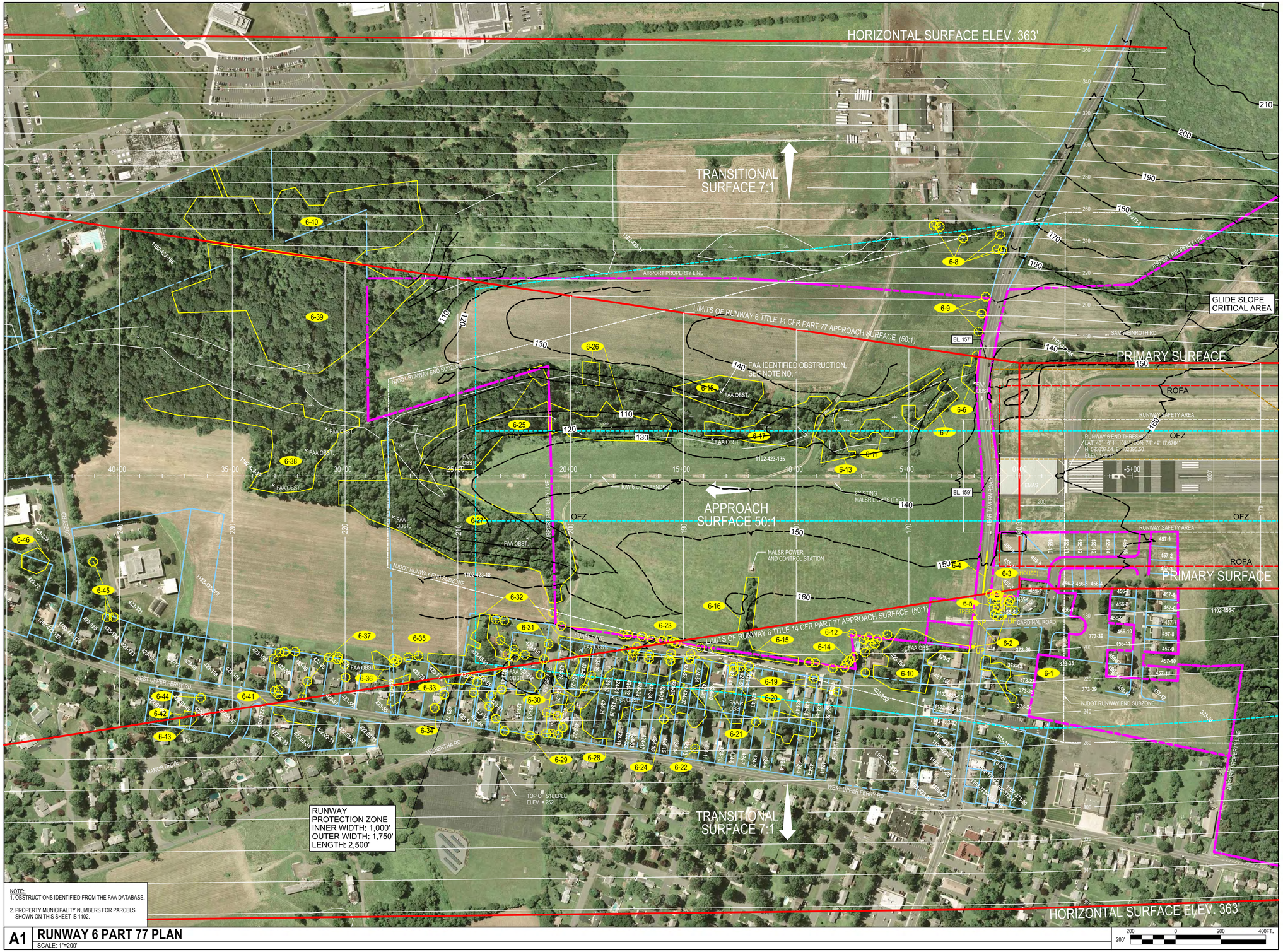

A1 RUNWAY 6 PART 77 PLAN

SCALE: 1"=200'

TRENTON TTN MERCER AIRPORT

MAGNETIC TRUE

12° 25' W (2016) ± 0° 21' CHANGING BY 0° 1' E PER YEAR MODEL USED: WMM2015

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THIS SHEET DEVELOPED FROM RUNWAY PROTECTION ZONE AND OBSTRUCTION ANALYSIS CREATED BY C&S COMPANIES, MARCH 2015.

REVISION	DESCRIPTION	DATE

TRENTON-MERCER AIRPORT
AIRPORT LAYOUT PLANS
PROJECT NO: 020.137.001

RUNWAY 6 PART 77 APPROACH SURFACE PLAN

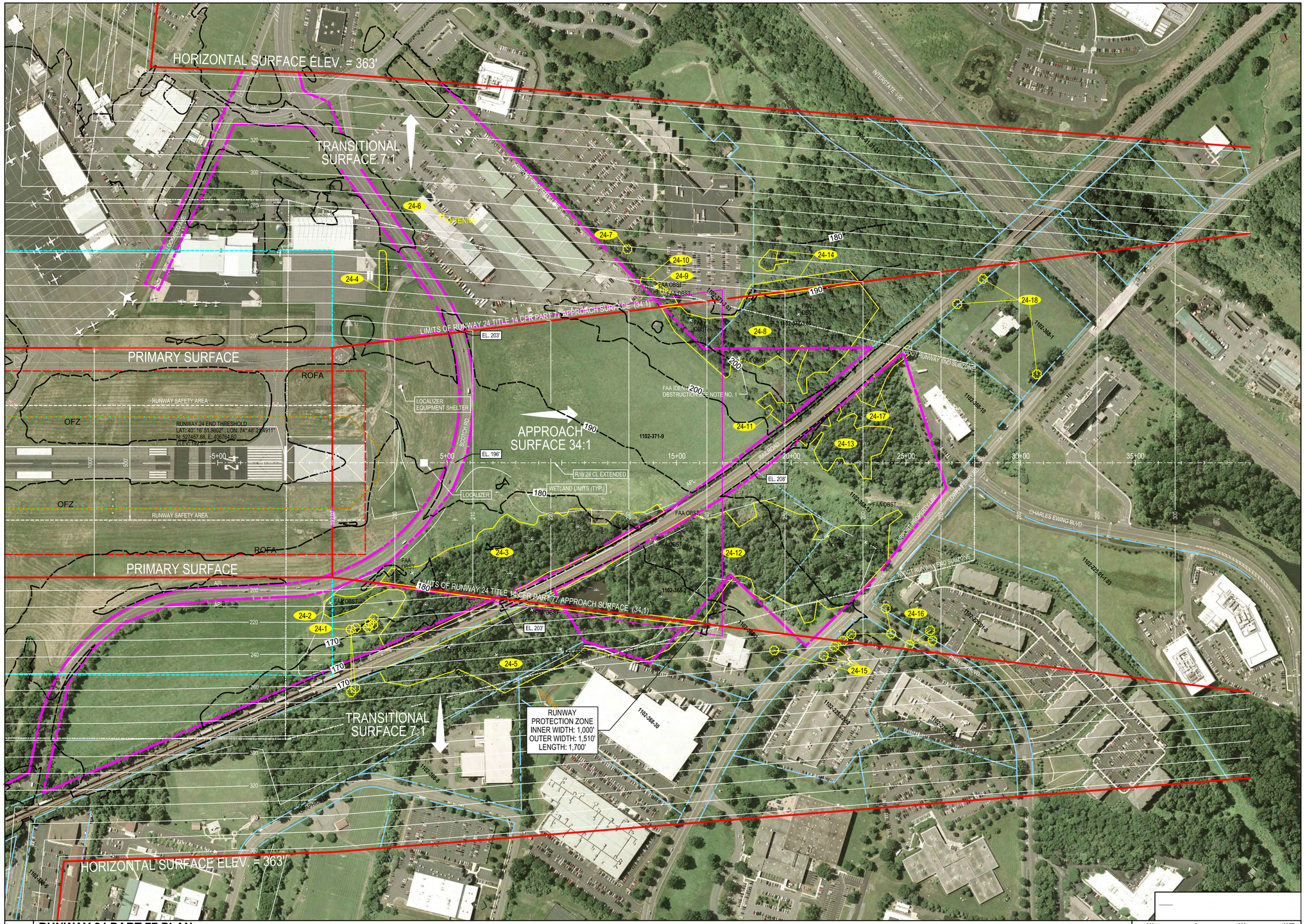
DRAWN: KWF | APPROVED:

CHECKED: DER | DATE: 05/10/2018

DRAWING NO.

6-1

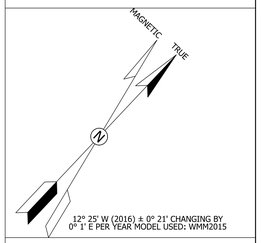
SHEET NO. 6 of 30



A1 RUNWAY 24 PART 77 PLAN

SCALE: 1"=200'

TRENTON TTN MERCER AIRPORT



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AIRPORT LAYOUT PLANS
PROJECT NO: 020.137.001

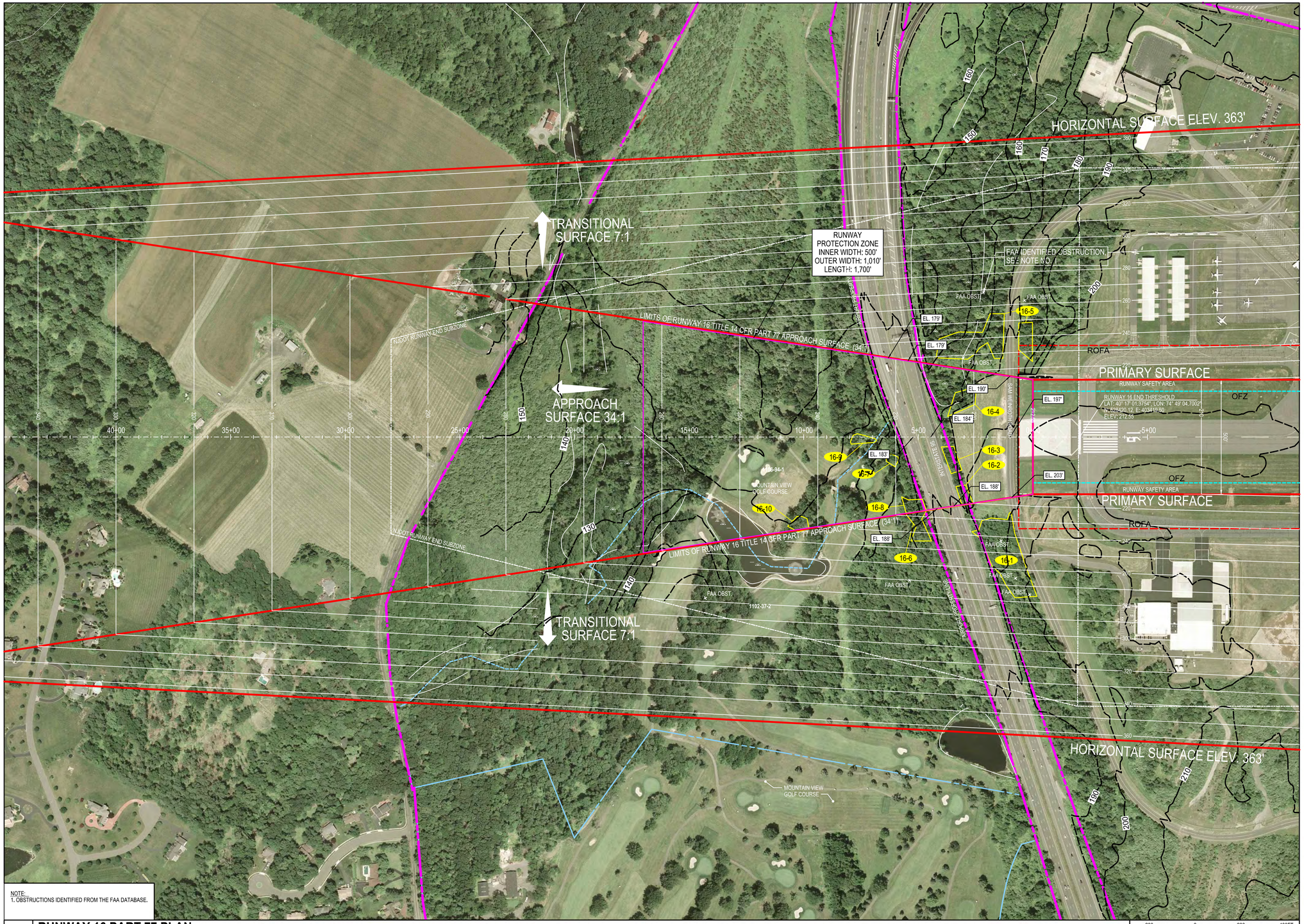
RUNWAY 24 PART 77 APPROACH SURFACE PLAN

DRAWN: KWF	APPROVED:
CHECKED: DER	DATE: 05/10/2018

DRAWING NO.

6-2

SHEET NO. 7 of 30



NOTE:
1. OBSTRUCTIONS IDENTIFIED FROM THE FAA DATABASE.

A1 **RUNWAY 16 PART 77 PLAN**
SCALE: 1"=200'

200' 200 0 200 400FT.

TRENTON TTN MERCER AIRPORT

MAGNETIC TRUE N

12° 25' W (2016) ± 0° 21' CHANGING BY 0° 1' E PER YEAR MODEL USED: WMM2015

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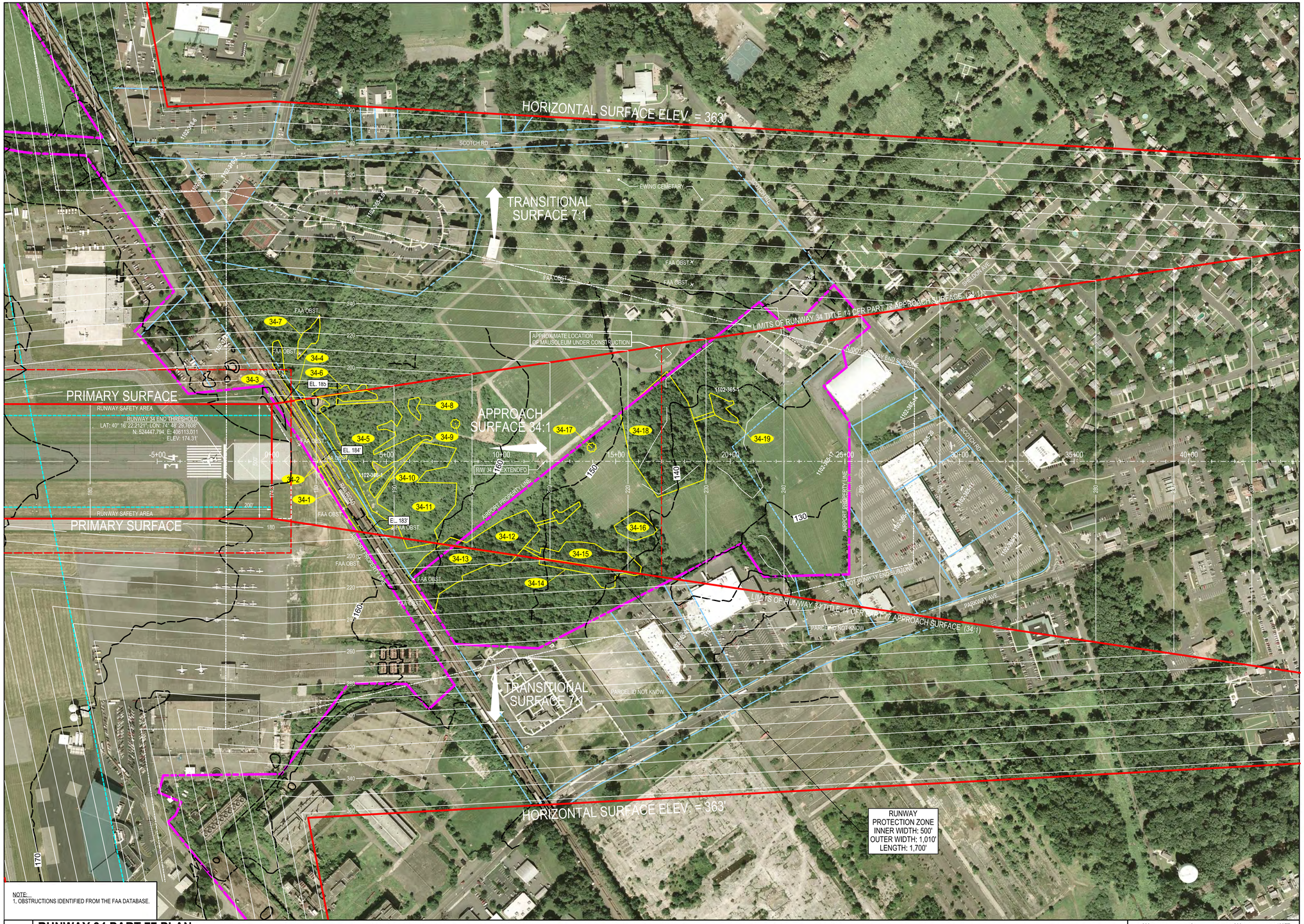
TRENTON-MERCER AIRPORT
AIRPORT LAYOUT PLANS
PROJECT NO: 020.137.001

RUNWAY 16 PART 77 APPROACH SURFACE PLAN

DRAWN: KWF | APPROVED:
CHECKED: DER | DATE: 05/10/2018

DRAWING NO.
6-3

SHEET NO. 8 of 30

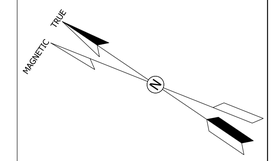


NOTE:
1. OBSTRUCTIONS IDENTIFIED FROM THE FAA DATABASE.

A1 **RUNWAY 34 PART 77 PLAN**
SCALE: 1"=200'

200 0 200 400FT.
200'

TRENTON TTN MERCER AIRPORT



12° 25' W (2016) ± 0° 21' CHANGING BY 0° 1' E PER YEAR MODEL USED: WMM2015

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PROJECT NO: 020.137.001

RUNWAY 34 PART 77 APPROACH SURFACE PLAN

DRAWN: KWF	APPROVED:
CHECKED: DER	DATE: 05/10/2018

DRAWING NO.

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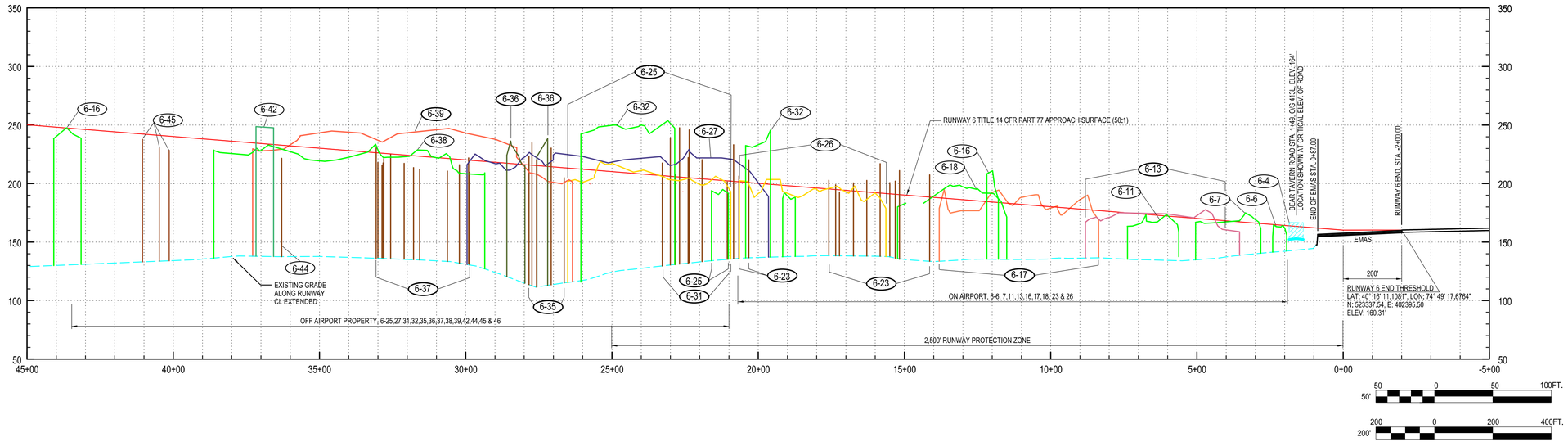
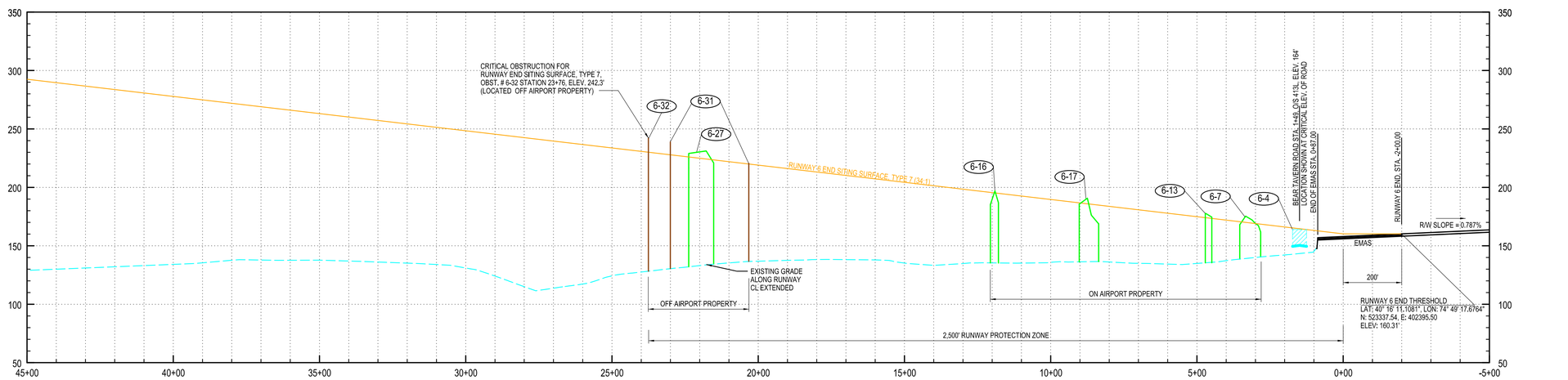
SHEET NO. 9 of 30



B1 **RUNWAY 6 TITLE 14 CFR PART 77 APPROACH SURFACE PROFILE**

SCALE: 1"=200' HORIZ./ 1"=50' VERT.



PROFILE LEGEND:

- (6-1) PART 77/RESS SURFACE OBSTRUCTION ID #
- INDIVIDUAL TREE OBSTRUCTION
- TREE CANOPY OBSTRUCTION AREAS (VARIOUS COLORS)
- VERTICAL CLEARANCE OVER ROADWAY (15')

A1 **RUNWAY 6 END THRESHOLD SITING PROFILE**

SCALE: 1"=200' HORIZ./ 1"=50' VERT.

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TRENTON-MERCER AIRPORT
AIRPORT LAYOUT PLANS
PROJECT NO: 020.137.001

RUNWAY 6 PART 77 APPROACH SURFACE PROFILE

DRAWN: KWF | APPROVED:

CHECKED: DER | DATE: 05/10/2018

DRAWING NO.

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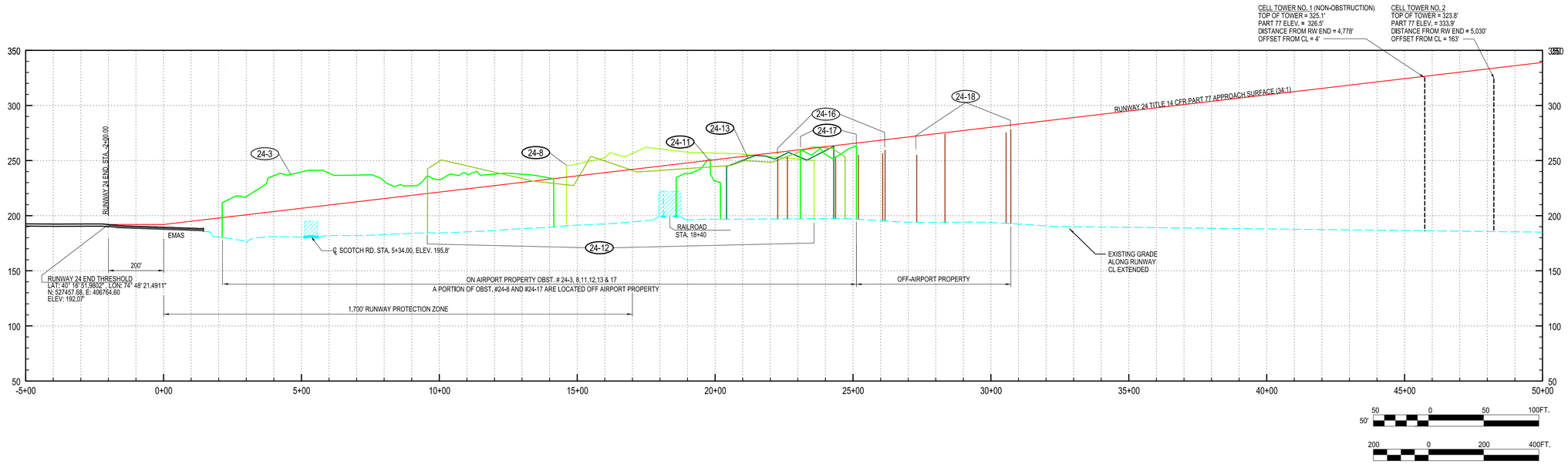
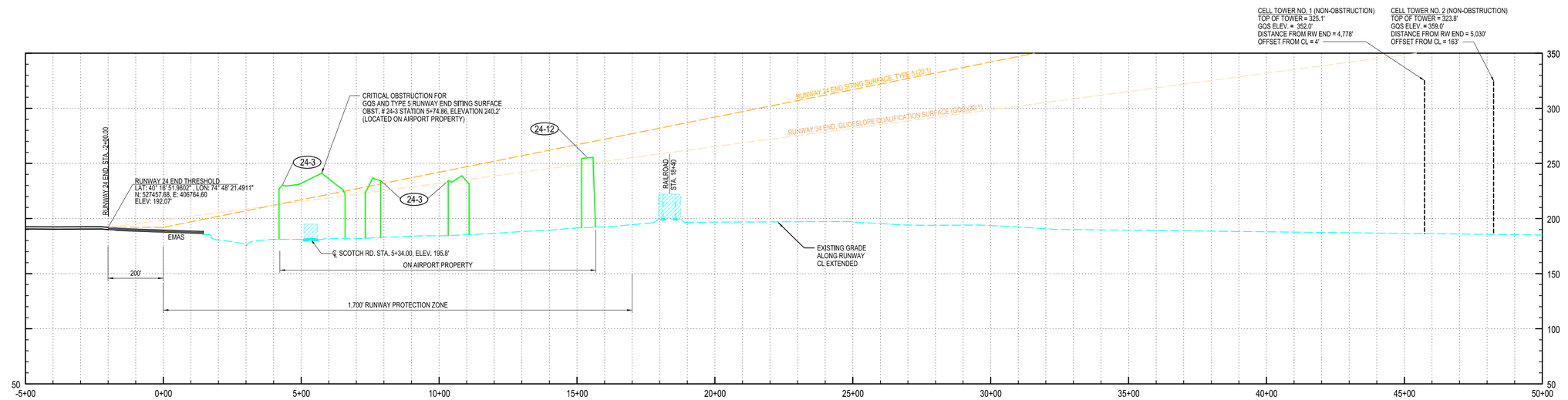
SHEET NO. 10 of 30



B1 RUNWAY 24 TITLE 14 CFR PART 77 APPROACH SLOPE PROFILE

SCALE: 1"=200' HORZ./ 1"=50' VERT.



PROFILE LEGEND:

- (24-1) PART 77/RESS SURFACE OBSTRUCTION ID #
- INDIVIDUAL TREE OBSTRUCTION
- VERTICAL CLEARANCE OVER ROADWAY (15')
- TREE GROUP OBSTRUCTION (VARIOUS COLORS)
- VERTICAL CLEARANCE OVER RAILROAD (23')

A1 RUNWAY 24 END SITING PROFILE

SCALE: 1"=200' HORZ./ 1"=50' VERT.

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TRENTON-MERCER AIRPORT
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PROJECT NO: 020.137.001

RUNWAY 24 PART 77 APPROACH SURFACE PROFILE

DRAWN: KWF | APPROVED:

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DRAWING NO.

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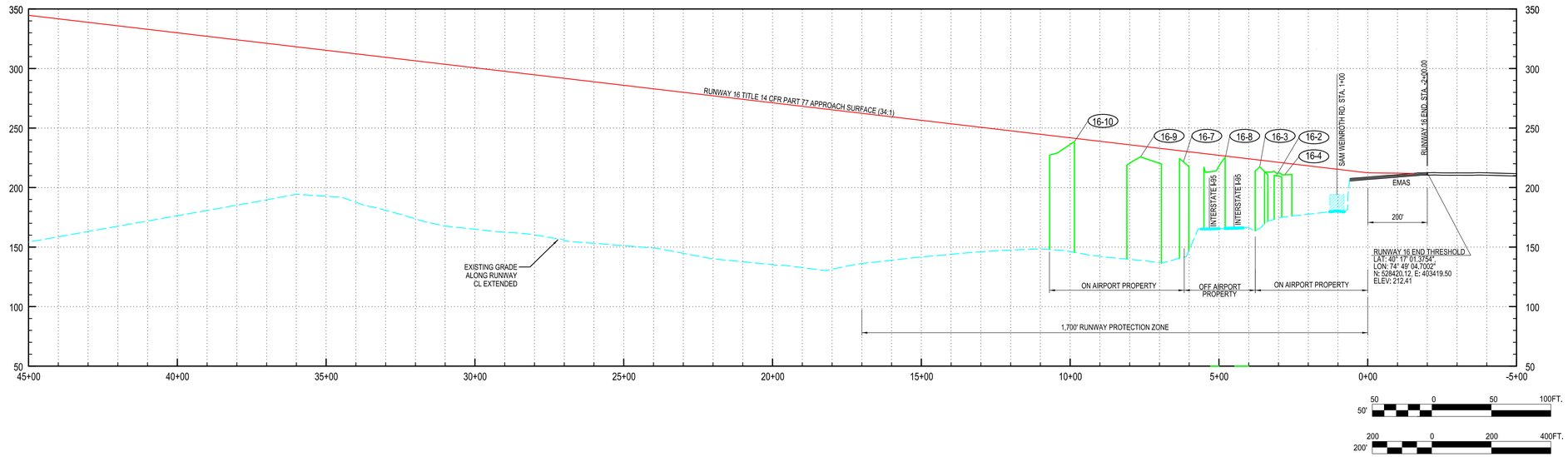
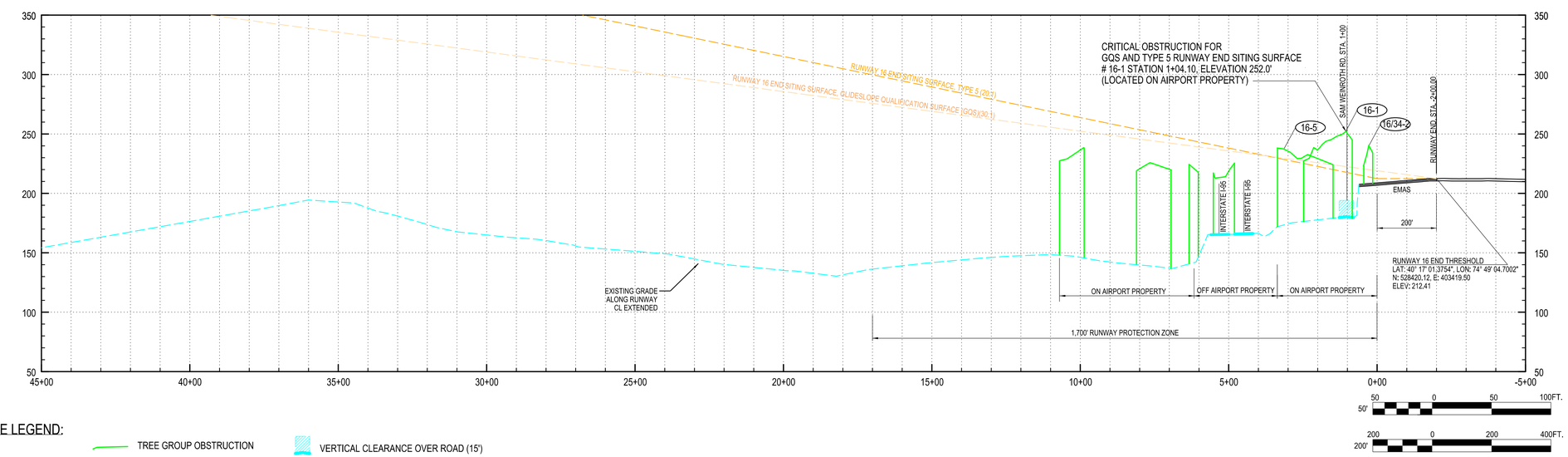
SHEET NO. 11 of 30



B1 RUNWAY 16 TITLE 14 CFR PART 77 APPROACH PROFILE

SCALE: 1"=200' HORIZ./ 1"=50' VERT.



PROFILE LEGEND:

(16-1) TREE GROUP OBSTRUCTION

VERTICAL CLEARANCE OVER ROAD (15')

A1 RUWANY 16 END SITING PROFILE

SCALE: 1"=200' HORIZ./ 1"=50' VERT.

TRENTON-MERCER AIRPORT

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PROJECT NO: 020.137.001

RUNWAY 16 PART 77 APPROACH SURFACE PROFILE

DRAWN: KWF | APPROVED:

CHECKED: DER | DATE: 05/10/2018

DRAWING NO.

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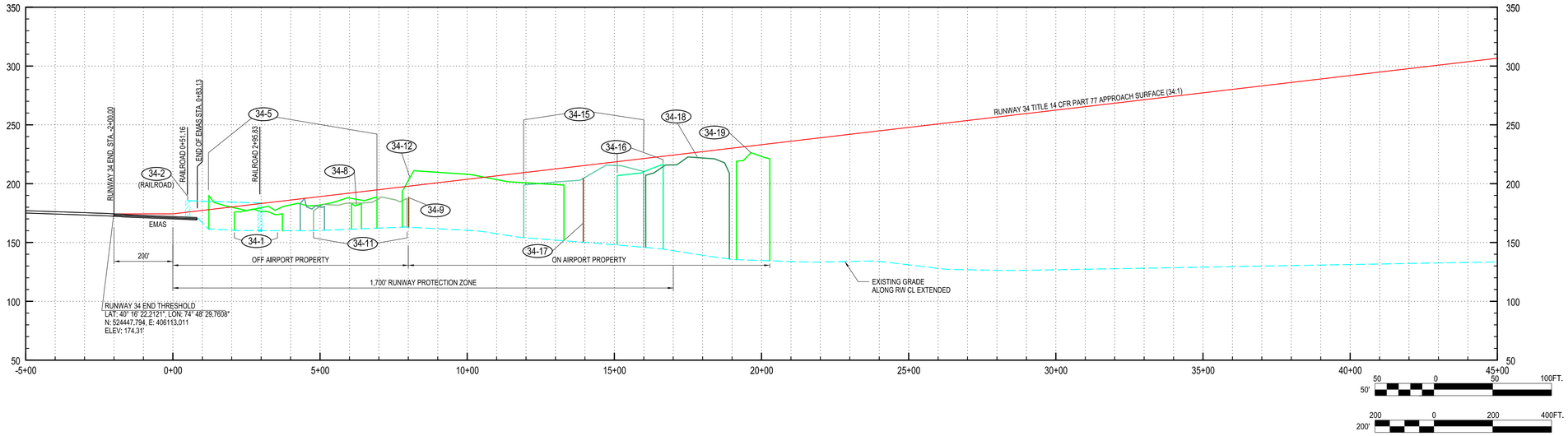
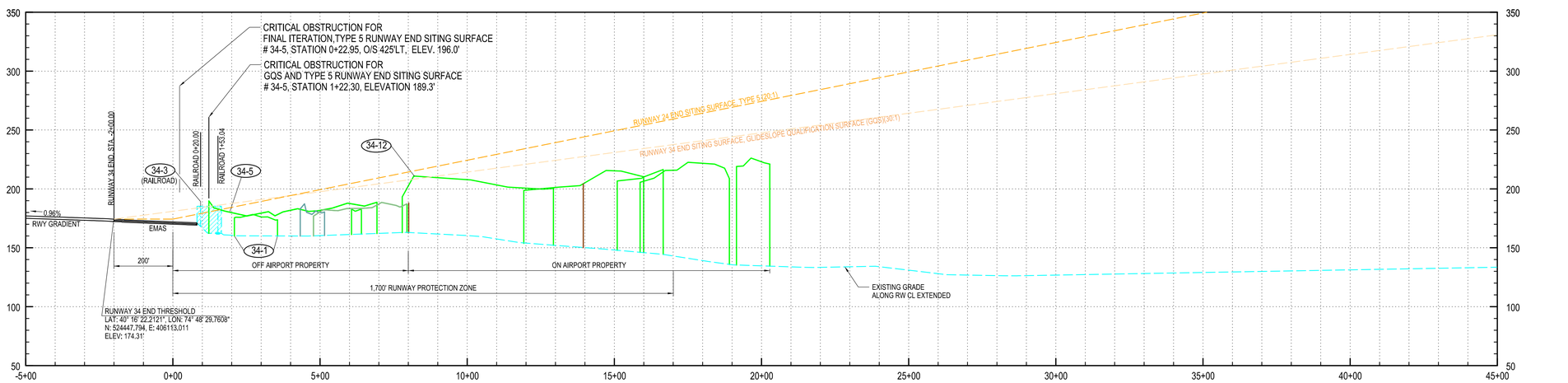
SHEET NO. 12 of 30



B1 **RUNWAY 34 TITLE 14 CFR PART 77 APPROACH PROFLE**

SCALE: 1"=200' HORIZ./ 1"=50' VERT.



PROFILE LEGEND:

- (34-1) PART 77/RESS SURFACE OBSTRUCTION ID #
- VERTICAL CLEARANCE OVER RAILROAD (23')
- INDIVIDUAL TREE OBSTRUCTION
- TREE CANOPY OBSTRUCTION AREAS (VARIOUS COLORS)

A1 **RUNWAY 34 END SITING PROFILE**

SCALE: 1"=200' HORIZ./ 1"=50' VERT.

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PROJECT NO: 020.137.001

RUNWAY 34 PART 77 APPROACH SURFACE PROFILE

DRAWN: KWF | APPROVED:

CHECKED: DER | DATE: 05/10/2018

DRAWING NO.

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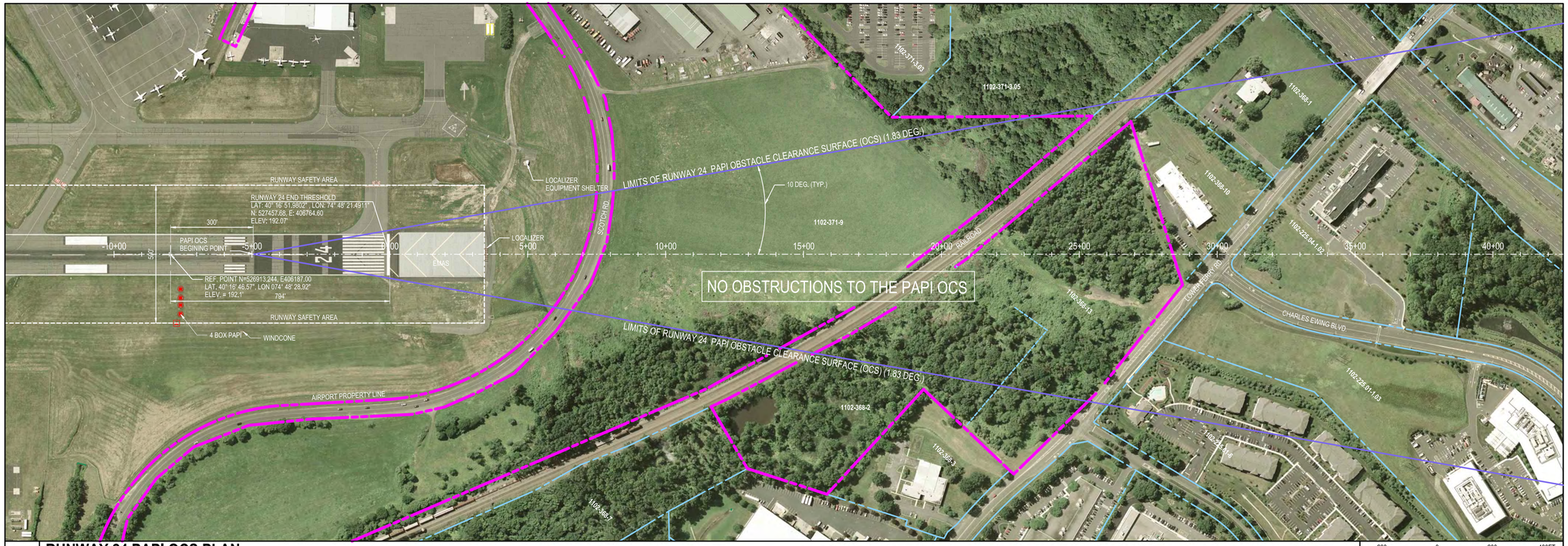
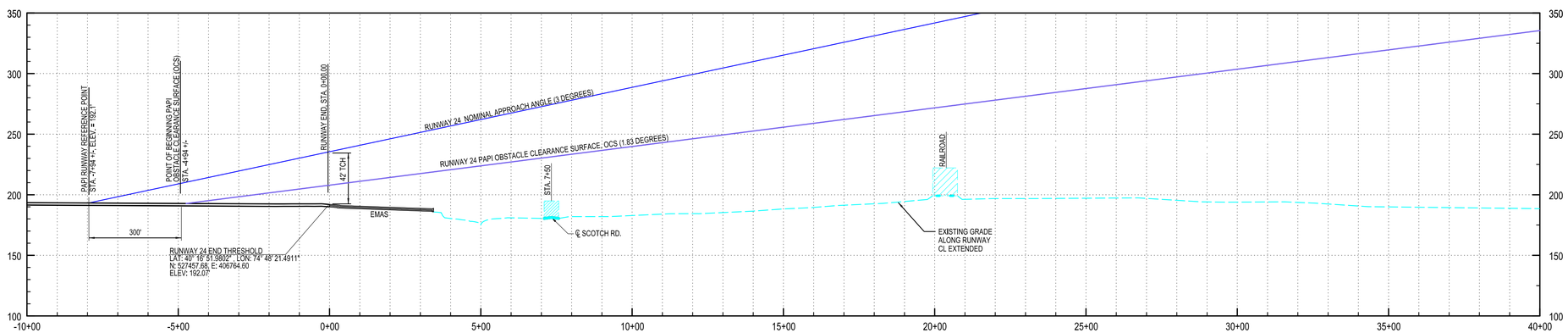
SHEET NO. 13 of 30



B1 RUNWAY 24 PAPI OCS PLAN

SCALE: 1"=200'

200' 200 0 200 400FT.



PROFILE LEGEND:

VERTICAL CLEARANCE OVER RAILROAD (23')

VERTICAL CLEARANCE OVER ROADWAY (15')

50' 50 0 50 100FT.

200' 200 0 200 400FT.

A1 RUNWAY 24 PAPI OCS PROFILE

SCALE: 1"=200' HORIZ./ 1"=50' VERT.

TRENTON TTN MERCER AIRPORT

MAGNETIC TRUE

12° 25' W (2016) ± 0° 21' CHANGING BY 0° 1' E PER YEAR MODEL USED: WMM2015

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AIRPORT LAYOUT PLANS
PROJECT NO: 020.137.001

RUNWAY 24 PAPI OCS PLAN AND PROFILE

DRAWN: KWF | APPROVED:

CHECKED: DER | DATE: 05/10/2018

DRAWING NO.

6-9

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