Figure 1 Project Location

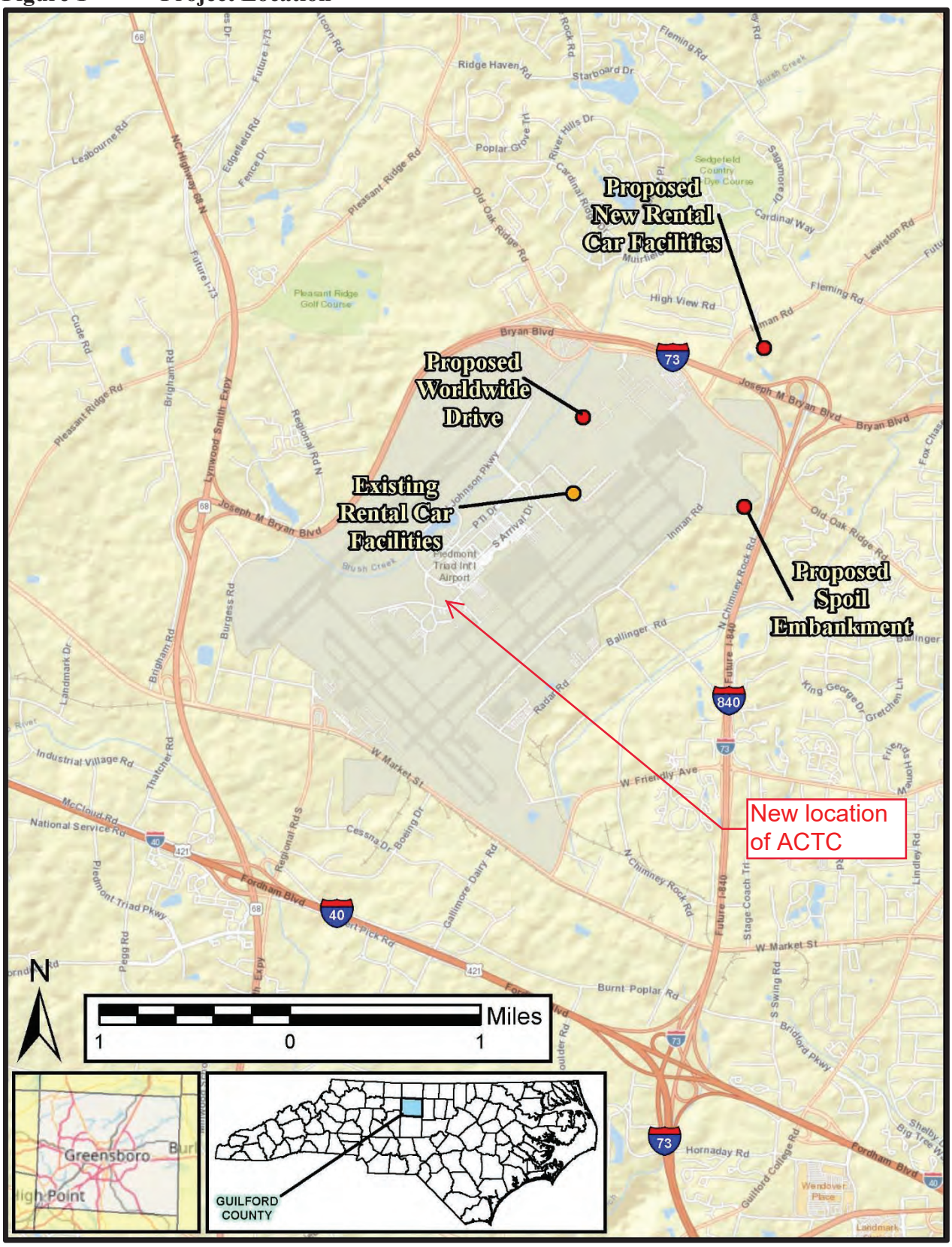


Figure 2 Project Components

Figure 3 Removal of Existing Rental Car Facilities

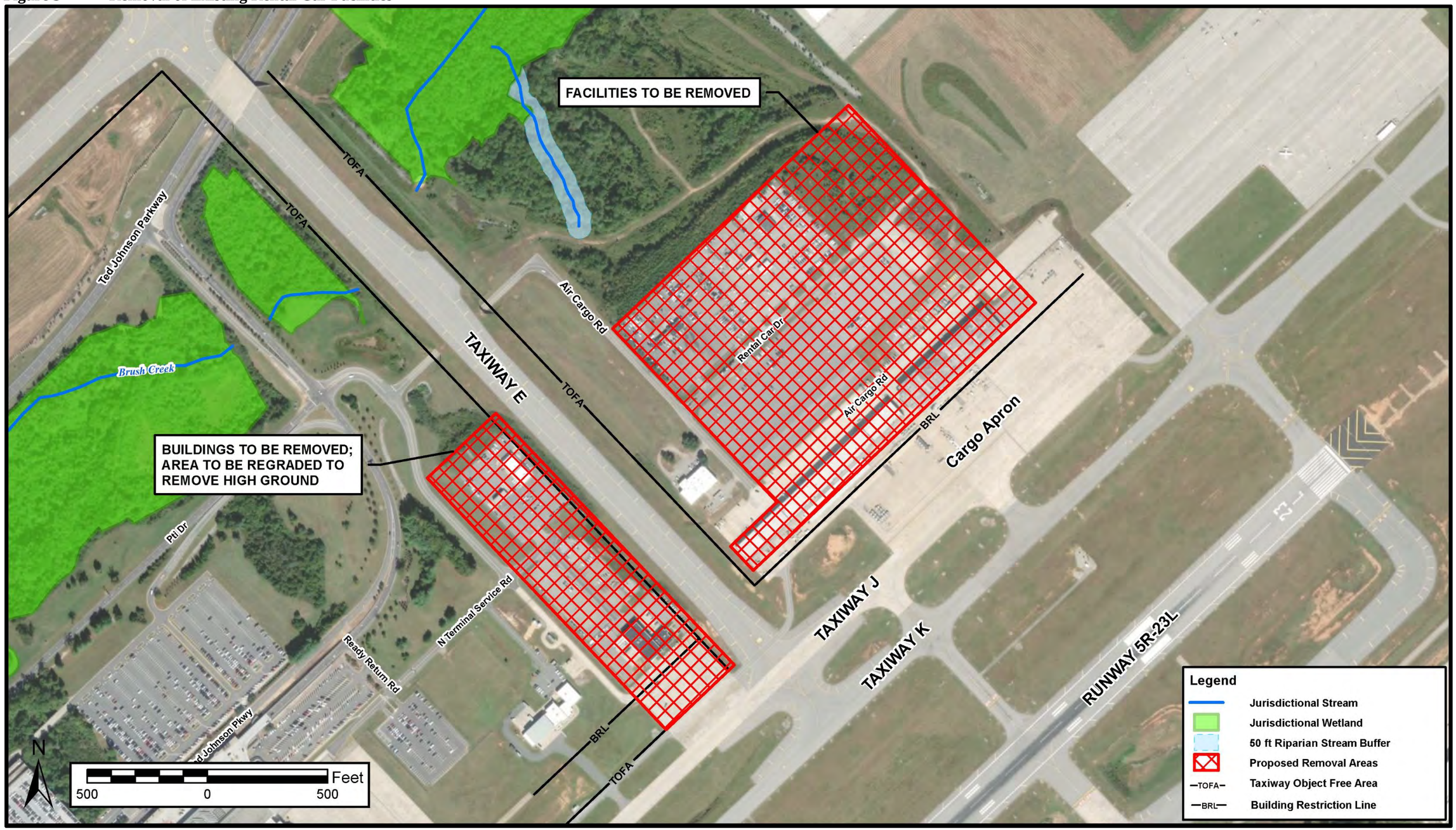


Figure 4 Proposed Worldwide Drive

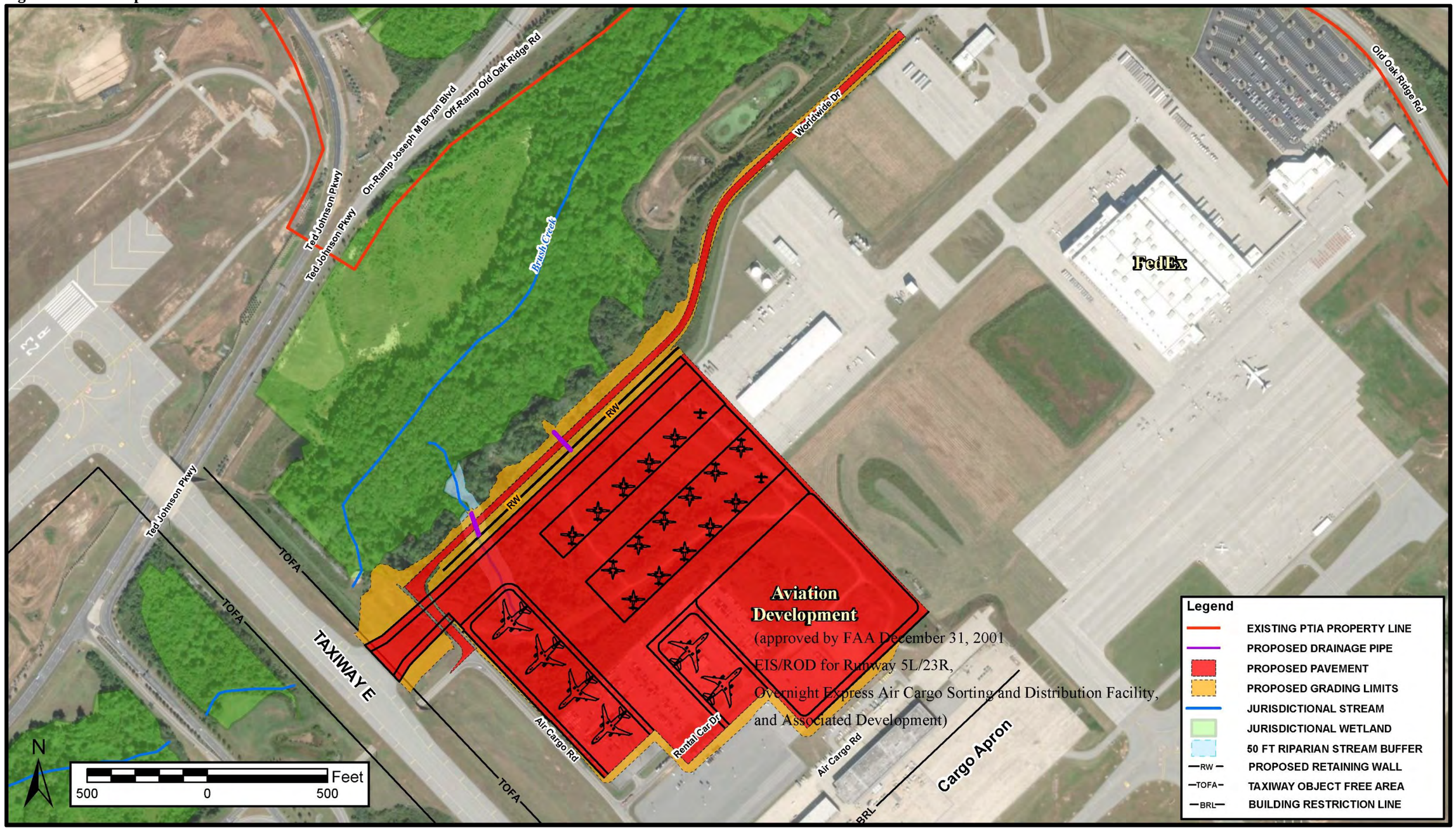


Figure 5 Proposed New Rental Car Facilities

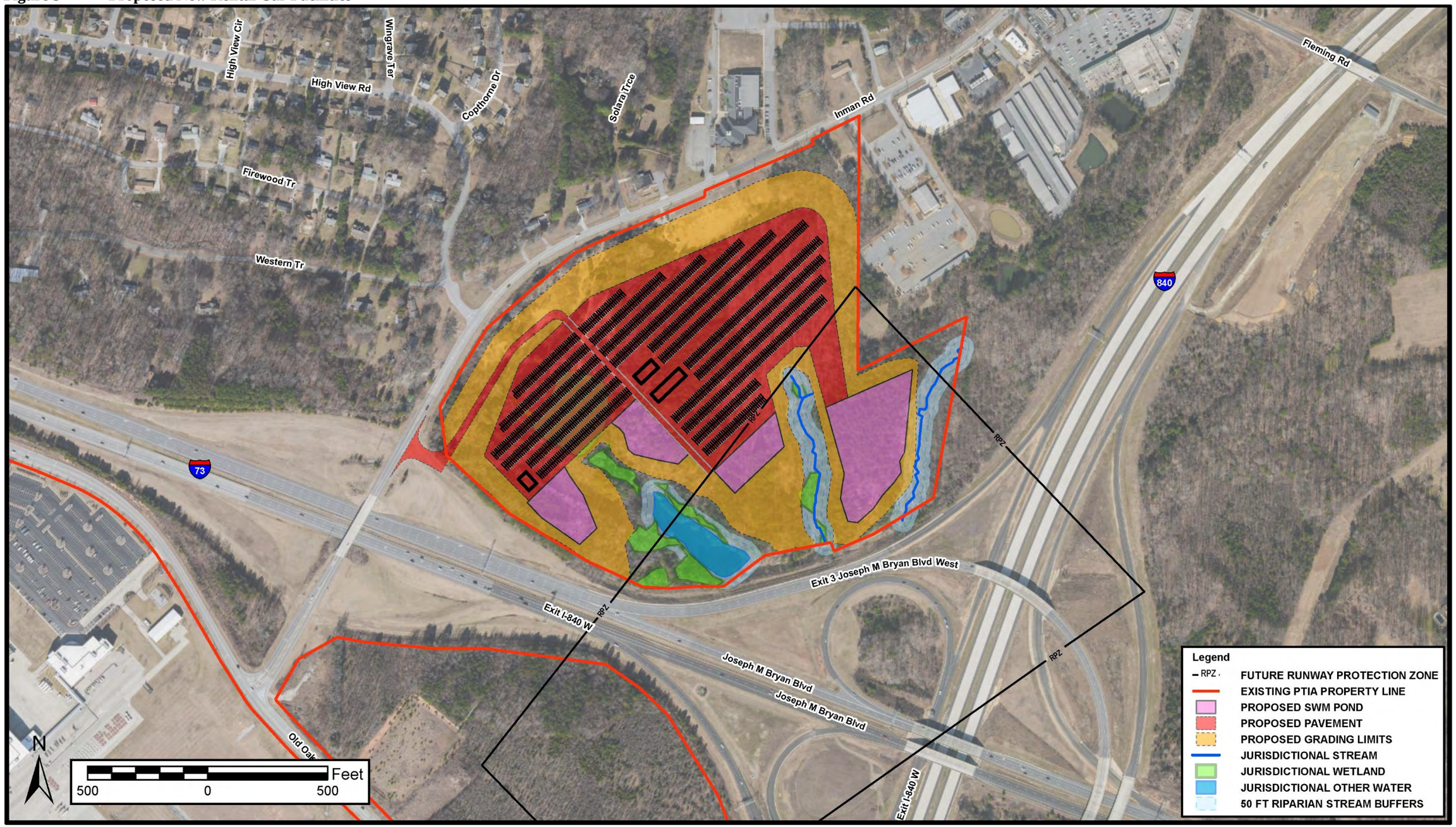
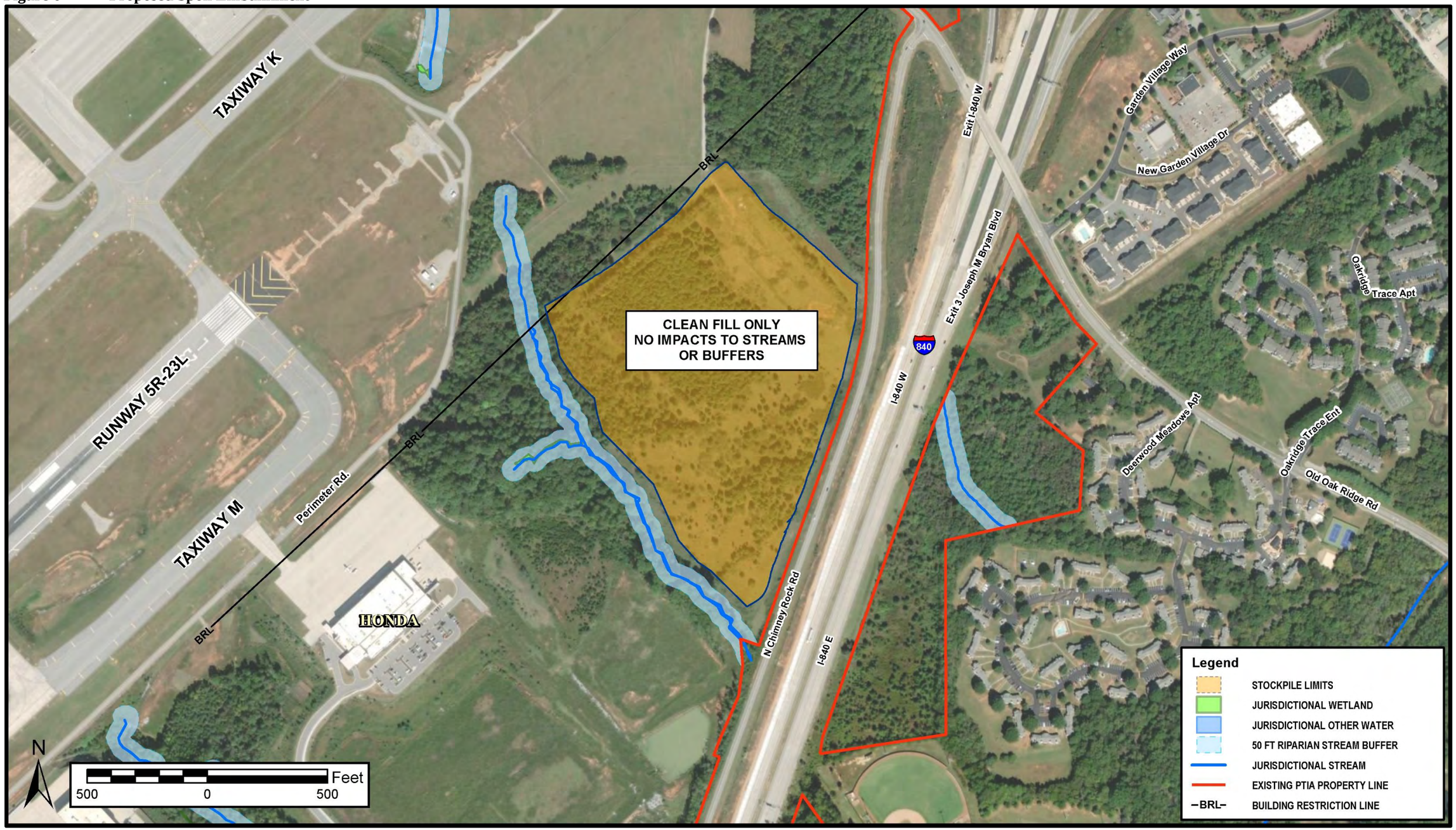
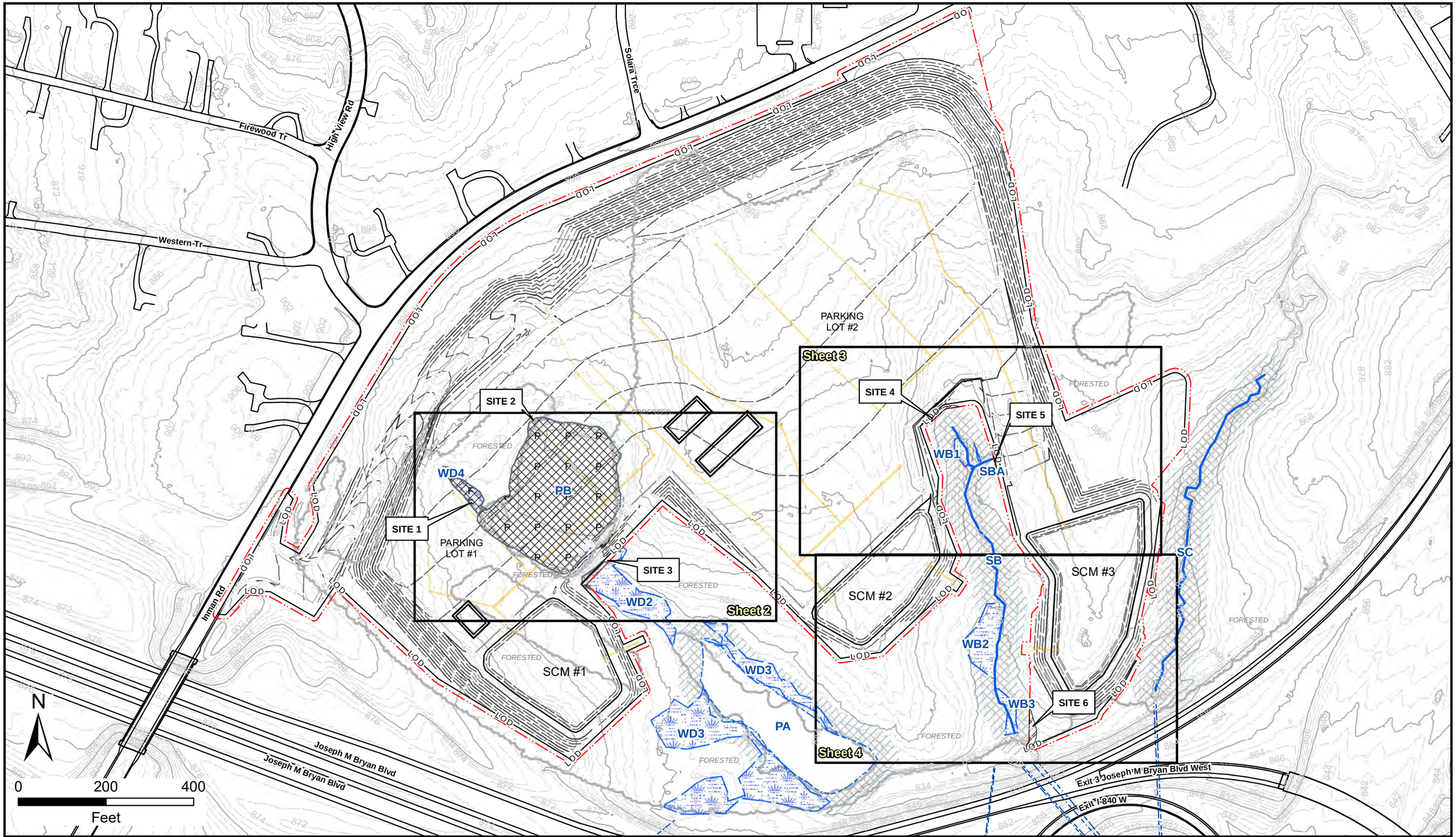


Figure 6 Proposed Spoil Embankment





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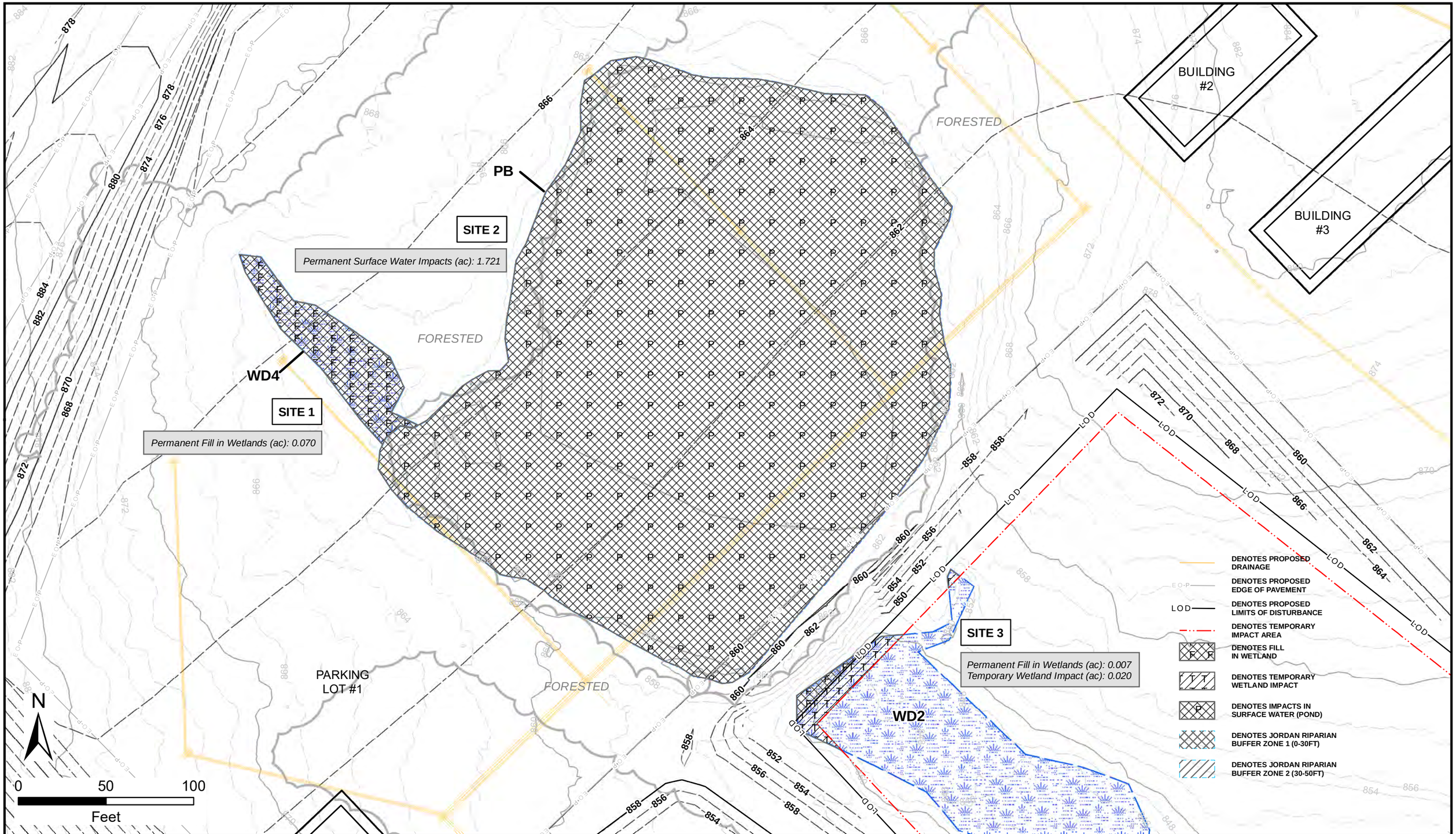
Application for Section 404 Permit (SAW-2017-00103),
Section 401 Water Quality Certification,
and Jordan Buffer Exemption

Wetland, Surface Water and Riparian Buffer Impacts
Sheet 1 of 4

GSO Rental Car Facilities Relocation

Permit Drawings

August 7, 2019



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Section 401 Water Quality Certification,
and Jordan Buffer Exemption

Wetland, Surface Water and Riparian Buffer Impacts
Sheet 2 of 4

GSO Rental Car Facilities Relocation

Permit Drawings *August 7, 2019*

SITE 4

Jordan Riparian Buffer Impacts
Zone 2, Exempt: 405 sq ft

SITE 5

Jordan Riparian Buffer Impacts
Zone 2, Exempt: 41 sq ft

WB1

WB1

SBA

SB

FORESTED

STORMWATER CONTROL
MEASURE #2

STORMWATER CONTROL
MEASURE #3

DENOTES PROPOSED DRAINAGE

DENOTES PROPOSED EDGE OF PAVEMENT

DENOTES PROPOSED LIMITS OF DISTURBANCE

DENOTES TEMPORARY IMPACT AREA

DENOTES ALLOWABLE IMPACTS ZONE 2

DENOTES JORDAN RIPARIAN BUFFER ZONE 1 (0-30FT)

DENOTES JORDAN RIPARIAN BUFFER ZONE 2 (30-50FT)

N

0 50 100
Feet

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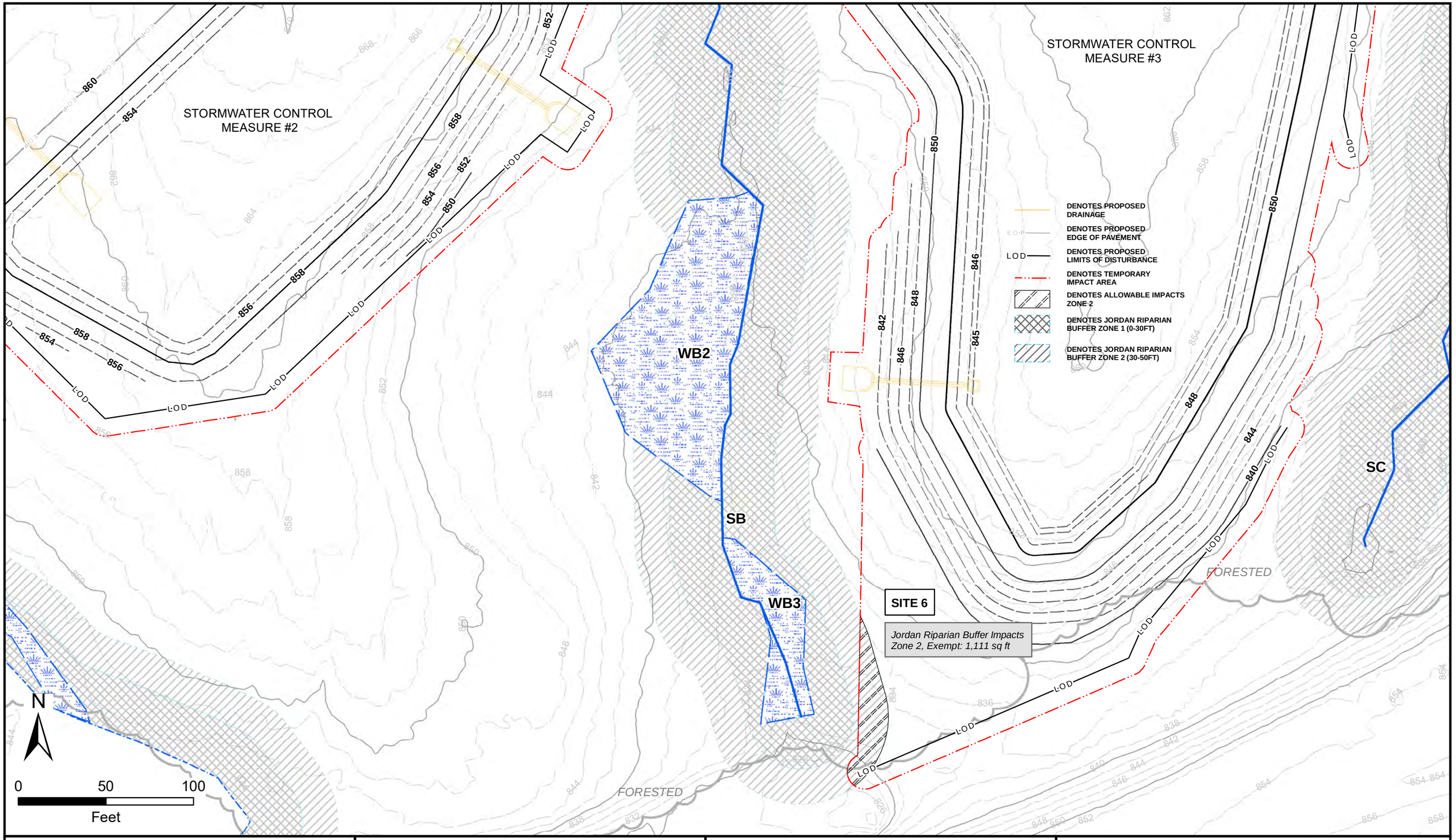
Section 401 Water Quality Certification,
and Jordan Buffer Exemption

Wetland, Surface Water and Riparian Buffer Impacts
Sheet 3 of 4

GSO Rental Car Facilities Relocation

Permit Drawings

August 7, 2019



PIEDMONT TRIAD AIRPORT AUTHORITY

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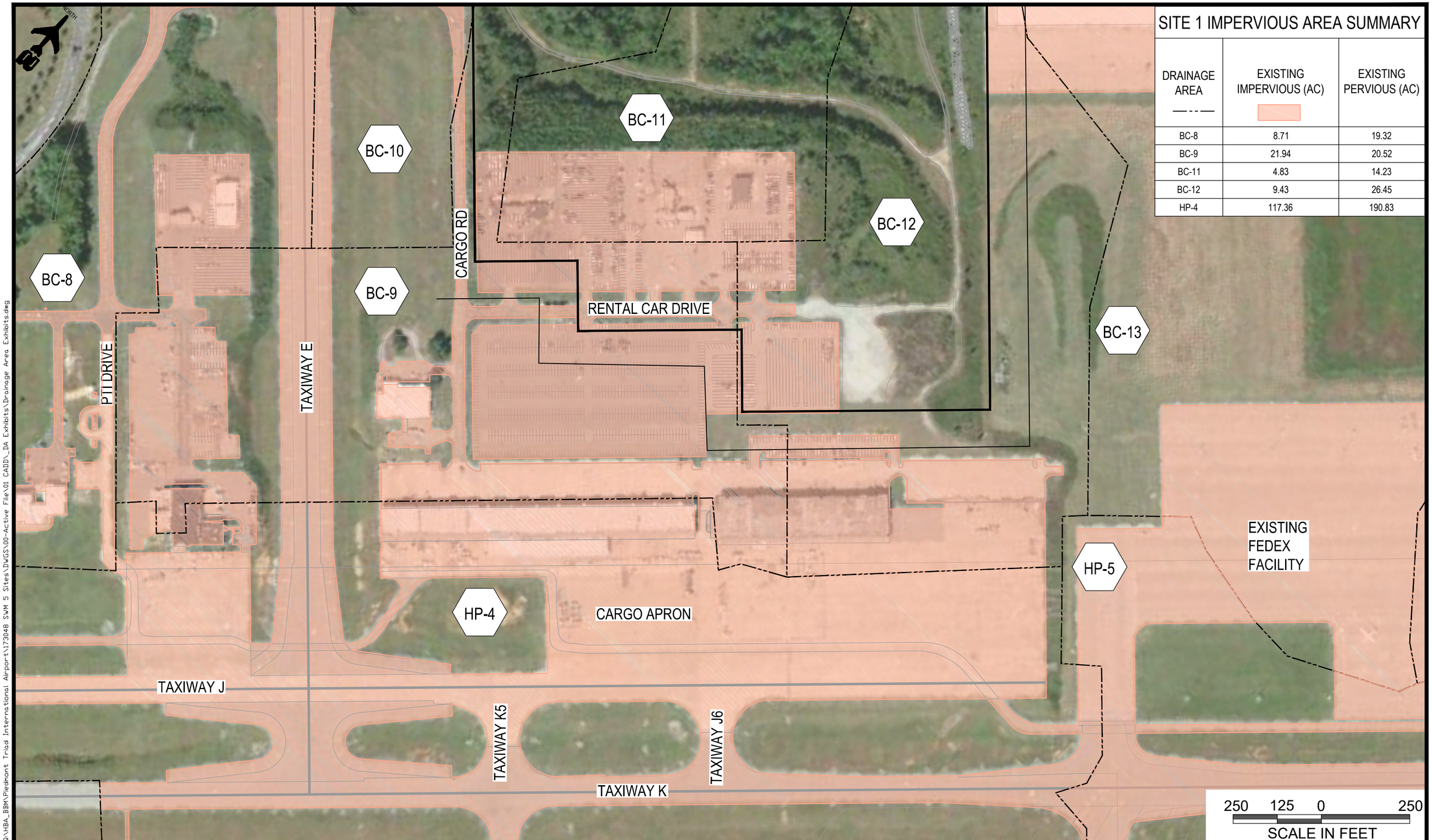
Application for Section 404 Permit (SAW-2017-00103), Section 401 Water Quality Certification, and Jordan Buffer Exemption

Wetland, Surface Water and Riparian Buffer Impacts
Sheet 4 of 4

GSO Rental Car Facilities Relocation

Permit Drawings *August 7, 2019*



SITE 1 IMPERVIOUS AREA SUMMARY

DRAINAGE AREA	EXISTING IMPERVIOUS (AC)	EXISTING PERVIOUS (AC)
BC-8	8.71	19.32
BC-9	21.94	20.52
BC-11	4.83	14.23
BC-12	9.43	26.45
HP-4	117.36	190.83

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SITE 1 - EXISTING RENTAL CAR FACILITIES - EXISTING CONDITIONS

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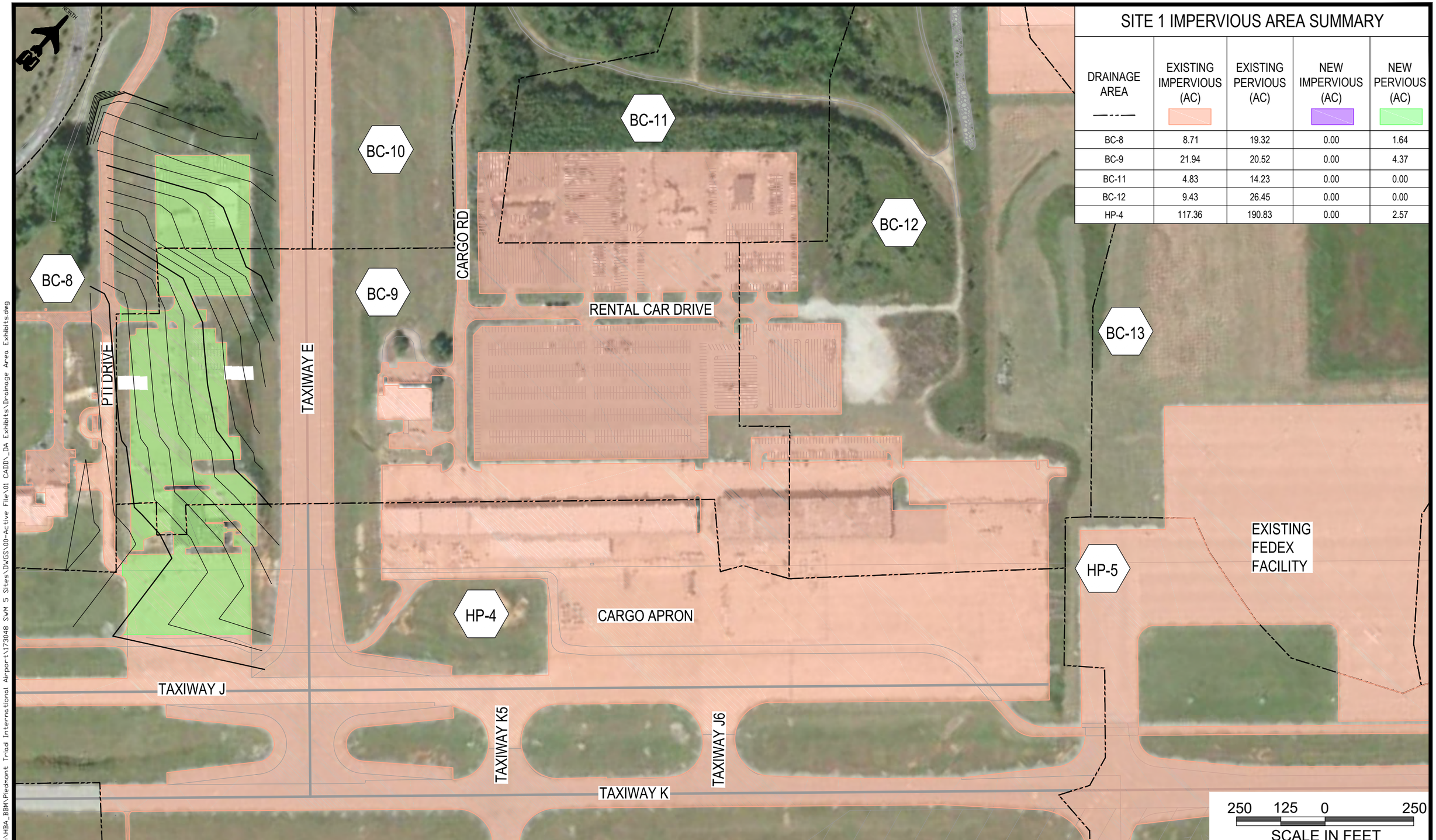

SITE 1 IMPERVIOUS AREA SUMMARY

DRAINAGE AREA	EXISTING IMPERVIOUS (AC)	EXISTING PERVIOUS (AC)	NEW IMPERVIOUS (AC)	NEW PERVIOUS (AC)
BC-8	8.71	19.32	0.00	1.64
BC-9	21.94	20.52	0.00	4.37
BC-11	4.83	14.23	0.00	0.00
BC-12	9.43	26.45	0.00	0.00
HP-4	117.36	190.83	0.00	2.57

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SITE 1 - EXISTING RENTAL CAR FACILITIES - PROPOSED CONDITIONS

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SITE 2 IMPERVIOUS AREA SUMMARY

DRAINAGE AREA	EXISTING IMPERVIOUS (AC)	EXISTING PERVIOUS (AC)
BC-9	21.94	20.52
BC-10	1.86	10.32
BC-11	4.83	14.23
BC-12	9.43	26.45
BC-13	22.79	31.58
BC-14	30.44	21.87
BC-15	29.45	49.07

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SITE 2 - PROPOSED WORLDWIDE DRIVE AND FUTURE AEROSPACE DEVELOPMENT - EXISTING CONDITIONS

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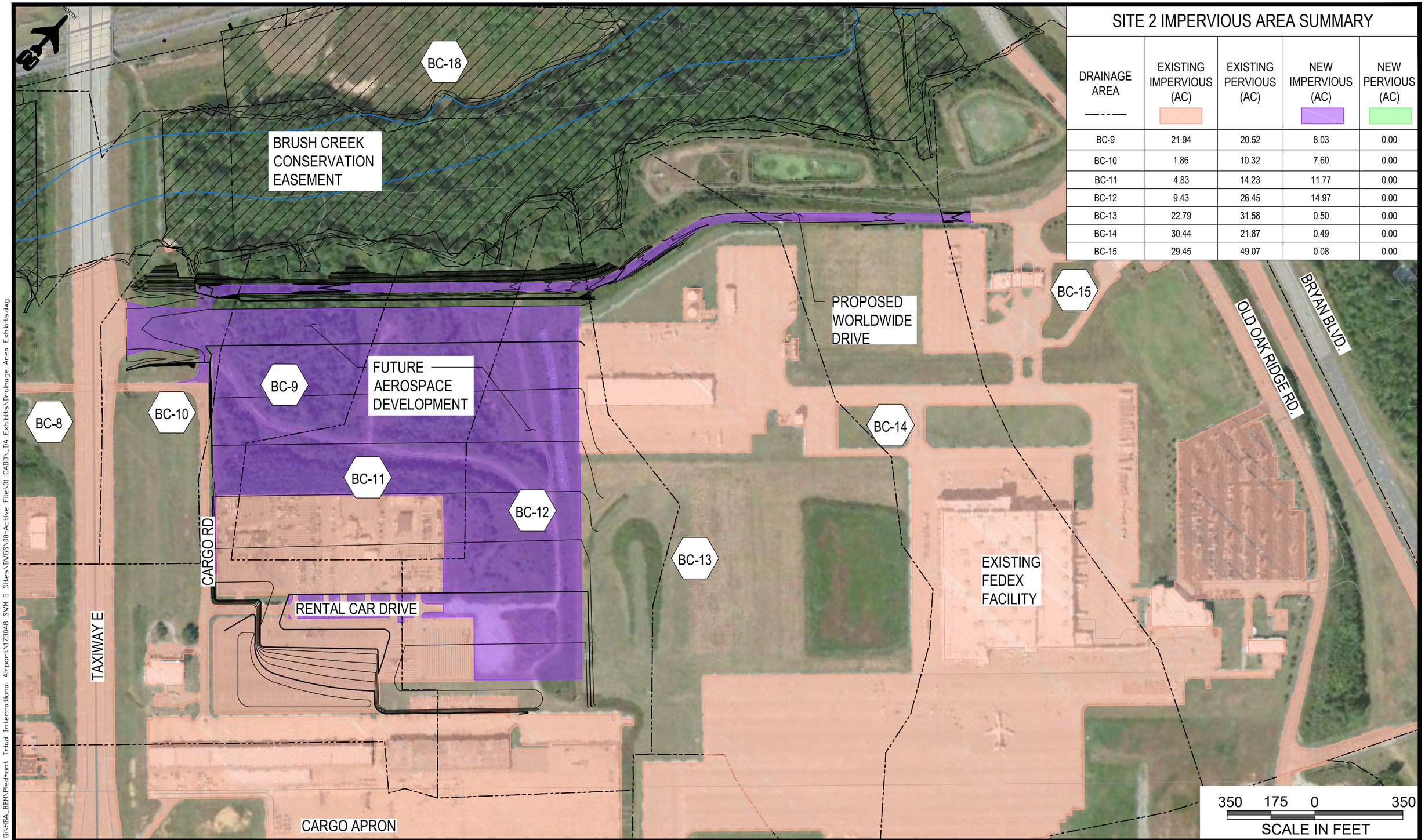

SITE 2 IMPERVIOUS AREA SUMMARY

DRAINAGE AREA	EXISTING IMPERVIOUS (AC)	EXISTING PERVIOUS (AC)	NEW IMPERVIOUS (AC)	NEW PERVIOUS (AC)
BC-9	21.94	20.52	8.03	0.00
BC-10	1.86	10.32	7.60	0.00
BC-11	4.83	14.23	11.77	0.00
BC-12	9.43	26.45	14.97	0.00
BC-13	22.79	31.58	0.50	0.00
BC-14	30.44	21.87	0.49	0.00
BC-15	29.45	49.07	0.08	0.00

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SITE 2 - PROPOSED WORLDWIDE DRIVE AND FUTURE AEROSPACE DEVELOPMENT - PROPOSED CONDITIONS

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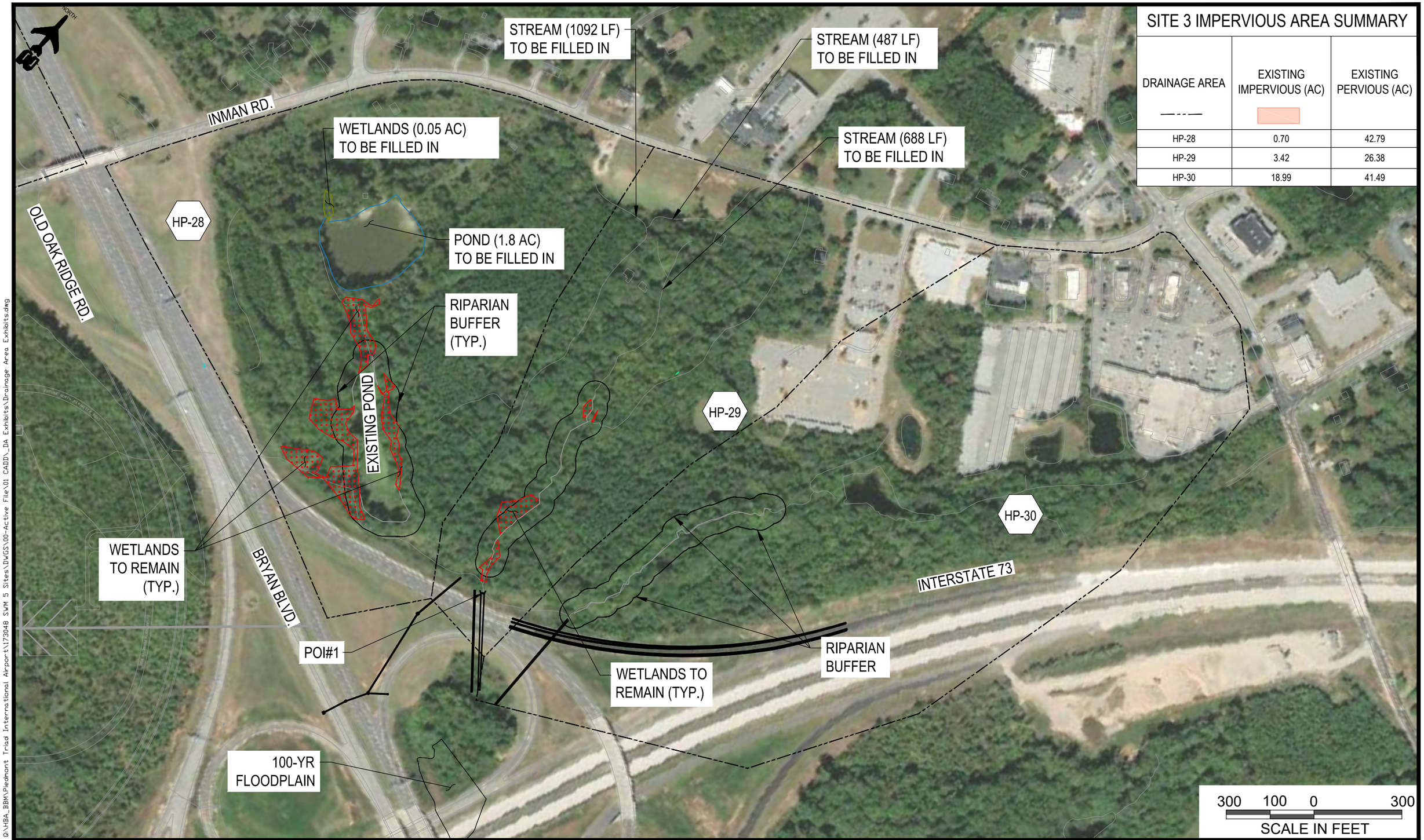

SITE 3 IMPERVIOUS AREA SUMMARY

DRAINAGE AREA	EXISTING IMPERVIOUS (AC)	EXISTING PERVIOUS (AC)
HP-28	0.70	42.79
HP-29	3.42	26.38
HP-30	18.99	41.49

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SITE 3 - NEW RENTAL CAR FACILITY (INMAN ROAD) - EXISTING CONDITIONS

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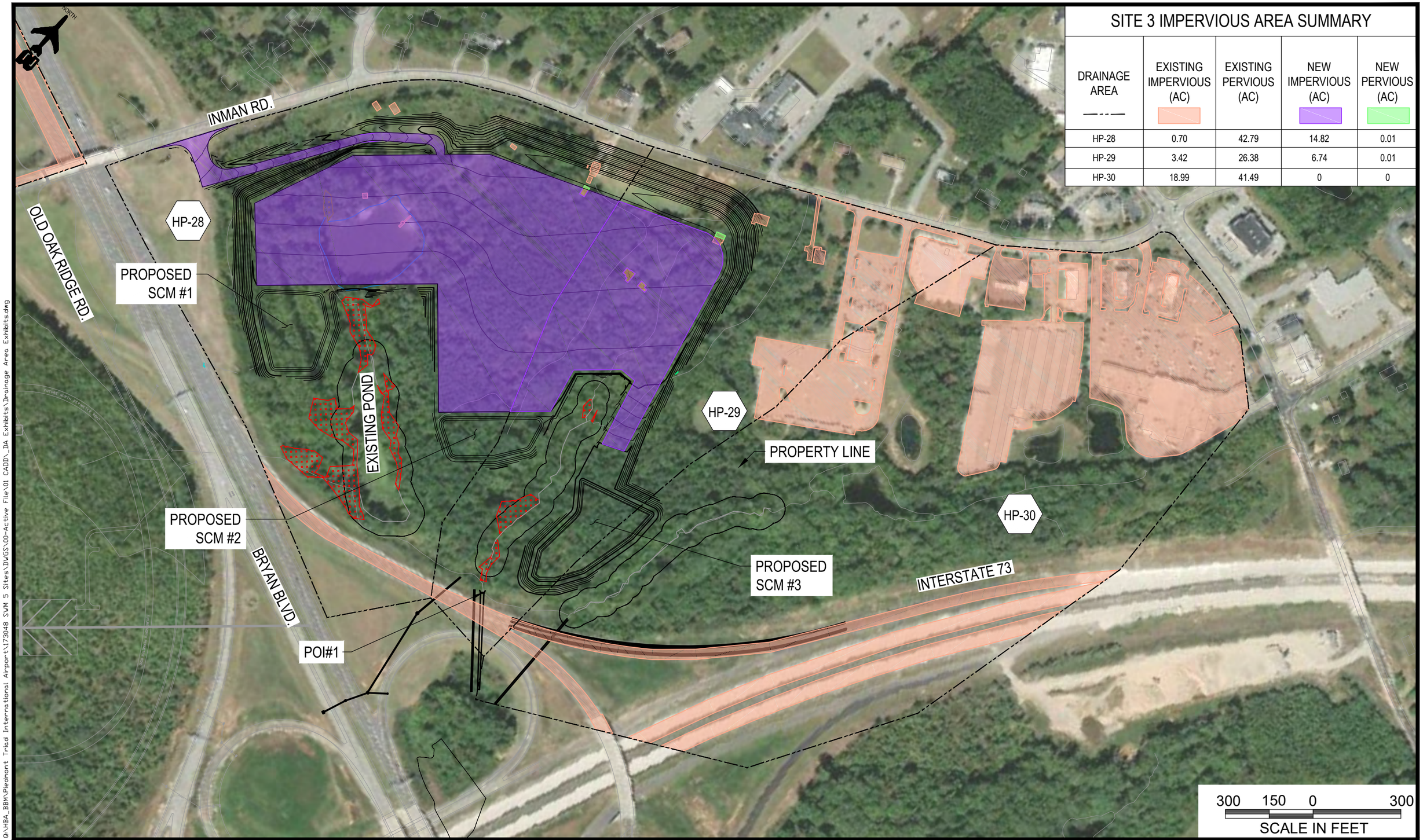

SITE 3 IMPERVIOUS AREA SUMMARY

DRAINAGE AREA	EXISTING IMPERVIOUS (AC)	EXISTING PERVIOUS (AC)	NEW IMPERVIOUS (AC)	NEW PERVIOUS (AC)
HP-28	0.70	42.79	14.82	0.01
HP-29	3.42	26.38	6.74	0.01
HP-30	18.99	41.49	0	0

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SITE 3 - NEW RENTAL CAR FACILITY (INMAN ROAD) - PROPOSED CONDITIONS

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SITE 4 IMPERVIOUS AREA SUMMARY

DRAINAGE AREA	EXISTING IMPERVIOUS (AC)	EXISTING PERVIOUS (AC)
HP-5	28.09	198.26
HP-19	15.55	110.06

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SITE 4 - SPOIL EMBANKMENT (CHIMNEY ROCK SITE) - EXISTING CONDITIONS

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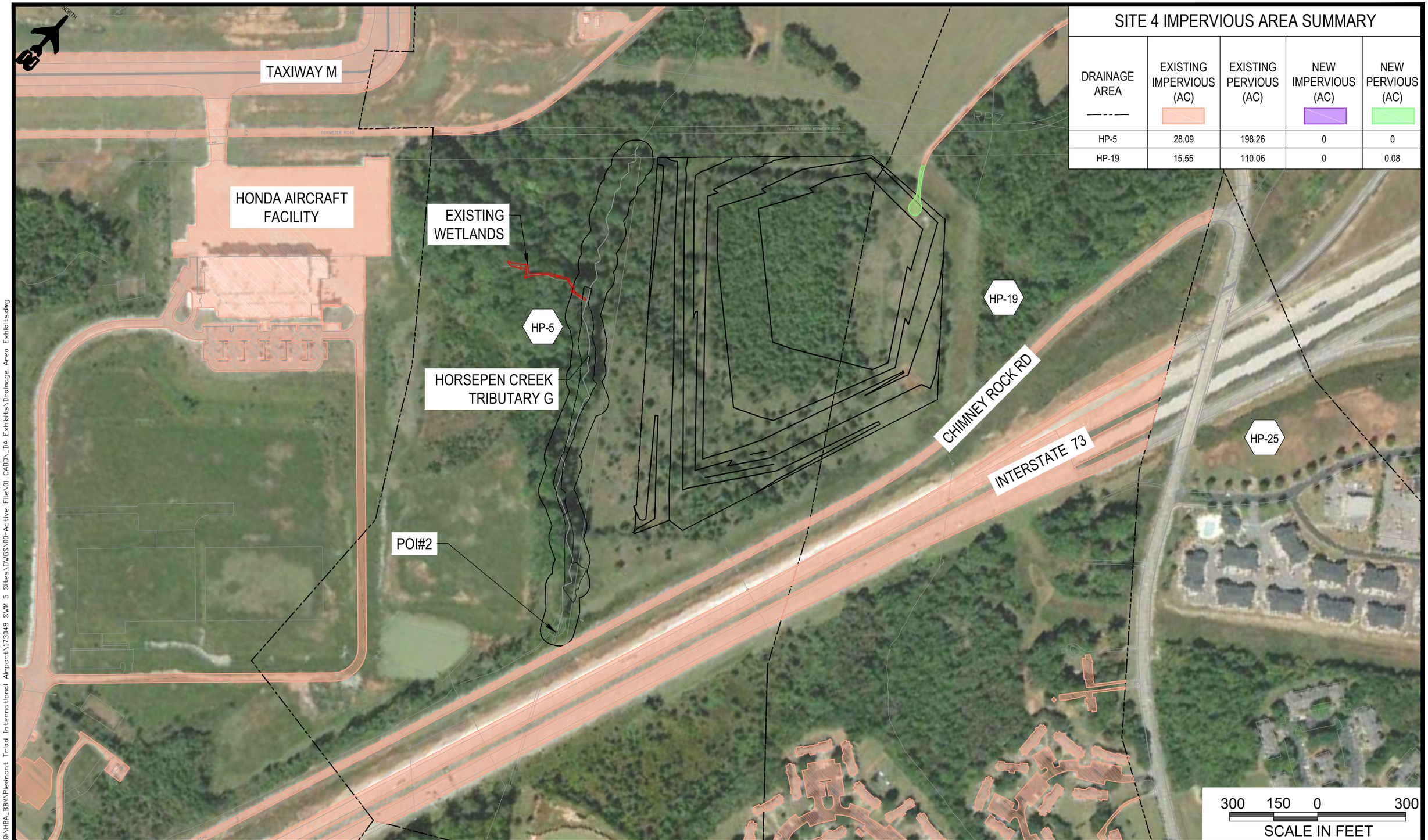

SITE 4 IMPERVIOUS AREA SUMMARY

DRAINAGE AREA	EXISTING IMPERVIOUS (AC)	EXISTING PERVIOUS (AC)	NEW IMPERVIOUS (AC)	NEW PERVIOUS (AC)
HP-5	28.09	198.26	0	0
HP-19	15.55	110.06	0	0.08

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SITE 4 - SPOIL EMBANKMENT (CHIMNEY ROCK SITE) - PROPOSED CONDITIONS

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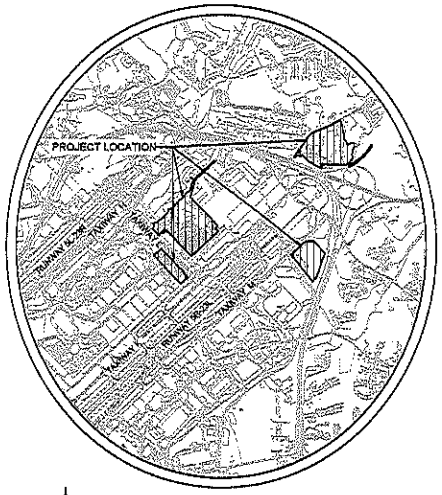
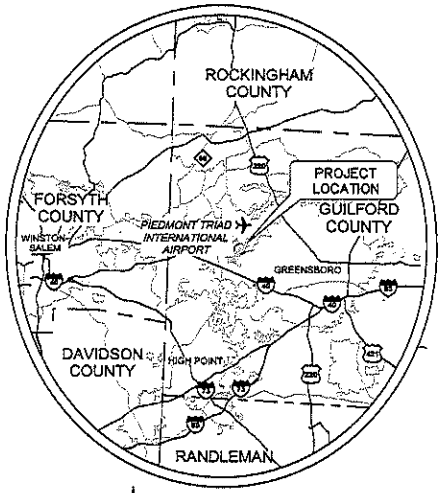
PIEDMONT TRIAD

INTERNATIONAL AIRPORT

RENTAL CAR FACILITIES RELOCATION



PROJECT LOCATION MAP



VICINITY MAP

INDEX OF DRAWINGS	
G-001	TITLE SHEET AND INDEX OF DRAWINGS
G-002	LEGEND AND ABBREVIATIONS
G-003	PROJECT LAYOUT PLAN
C-100	EXISTING CONDITIONS AND DEMOLITION PLAN - 1
C-101	EXISTING CONDITIONS AND DEMOLITION PLAN - 2
C-102	EXISTING CONDITIONS AND DEMOLITION PLAN - 3
C-103	EXISTING CONDITIONS AND DEMOLITION PLAN - 4
C-104	EXISTING CONDITIONS AND DEMOLITION PLAN - 5
C-200	SITE PLAN - 1
C-201	SITE PLAN - 2
C-202	SITE PLAN - 3
C-203	SITE PLAN - 4
C-204	SITE PLAN - 5
C-300	GRADING AND DRAINAGE PLAN - 1
C-301	GRADING AND DRAINAGE PLAN - 2
C-302	GRADING AND DRAINAGE PLAN - 3
C-303	GRADING AND DRAINAGE PLAN - 4
C-304	GRADING AND DRAINAGE PLAN - 5
C-400	STORMWATER MANAGEMENT PLAN - 1
C-401	STORMWATER MANAGEMENT PLAN - 2
C-500	STORMDRAIN PROFILE
C-600	STORMWATER MANAGEMENT DETAILS - 1
C-601	STORMWATER MANAGEMENT DETAILS - 2
C-602	STORMWATER MANAGEMENT DETAILS - 3
C-603	STORMWATER MANAGEMENT DETAILS - 4

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PIEDMONT TRIAD INTERNATIONAL AIRPORT
RENTAL CAR FACILITIES RELOCATION

TITLE SHEET AND INDEX OF DRAWINGS

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AAB	MJO
DESIGNED	DRAWN
DSK	GBV
CHECKED	APPROVED

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DATE: AUGUST 05, 2019

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SHEET

G-001

REV: 04/29/2016 IF THIS DRAWING IS LESS THAN 22" x 34", IT IS A REDUCED SIZE DRAWING

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LEGEND:

MH	MANHOLE
	STORM PIPE
— x —	FENCELINE
—TOFA—	TAXIWAY OBJECT FREE AREA
—BRL—	BUILDING RESTRICTION LINE
—TSA—	TAXIWAY SAFETY AREA
—RSA—	RUNWAY SAFETY AREA
—OFZ—	OBJECT FREE ZONE
—XXXX—	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
— W —	EXISTING WATERLINE
— SS —	EXISTING SANITARY SEWER LINE
— P —	EXISTING POWER LINE
— T —	EXISTING TELECOMMUNICATIONS LINE
— C —	EXISTING GAS LINE
— . . . —	EXISTING STREAM/BODY OF WATER
— LOD —	LIMIT OF DISTURBANCE
	TRENCH DRAIN
	PROPOSED STORM PIPE
	STORM JUNCTION
	STORM MANHOLE
	STORM INLET
	STORM FLOW BLOCKER
	STORM ENDWALL
	RIPRAP
	FLOW ARROW
TW	TOP OF WALL
BW	BOTTOM OF WALL

LIST OF ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
AC	ADVISORY CIRCULAR
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BRL	BUILDING RESTRICTION LINE
BW	BOTTOM OF WALL
CLR	CLEAR
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CMP	CORRUGATED METAL PIPE
DI	DROP INLET
ELEV	ELEVATION
FAA	FEDERAL AVIATION ADMINISTRATION
HSG	HYDROLOGIC SOIL GROUP
HT	HEIGHT
INC	INCORPORATED
LOD	LIMIT OF DISTURBANCE
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
NAD	NORTH AMERICAN DATUM
NAVD	NORTH AMERICAN VERTICAL DATUM
NCSAM	NORTH CAROLINA STREAM ASSESSMENT METHOD
NCWAM	NORTH CAROLINA WETLAND ASSESSMENT METHOD
NTS	NOT TO SCALE
OC	ON CENTER
PCC	PORTLAND CEMENT CONCRETE
POI	POINT OF INVESTIGATION
PTIA	PIEDMONT TRIAD INTERNATIONAL AIRPORT
RCP	REINFORCED CONCRETE PIPE
ROFA	RUNWAY OBJECT FREE AREA
RPZ	RUNWAY PROTECTION ZONE
RSA	RUNWAY SAFETY AREA
RW	RUNWAY
SCM	STORMWATER CONTROL MEASURE
STD	STANDARD
TSA	TAXIWAY SAFETY AREA

REVISIONS

NO.	DATE	BY	DESCRIPTION

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PIEDMONT TRIAD INTERNATIONAL AIRPORT
RENTAL CAR FACILITIES RELOCATION

LEGEND AND ABBREVIATIONS

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DESIGNED	DRAWN
DSK	GBV
CHECKED	APPROVED

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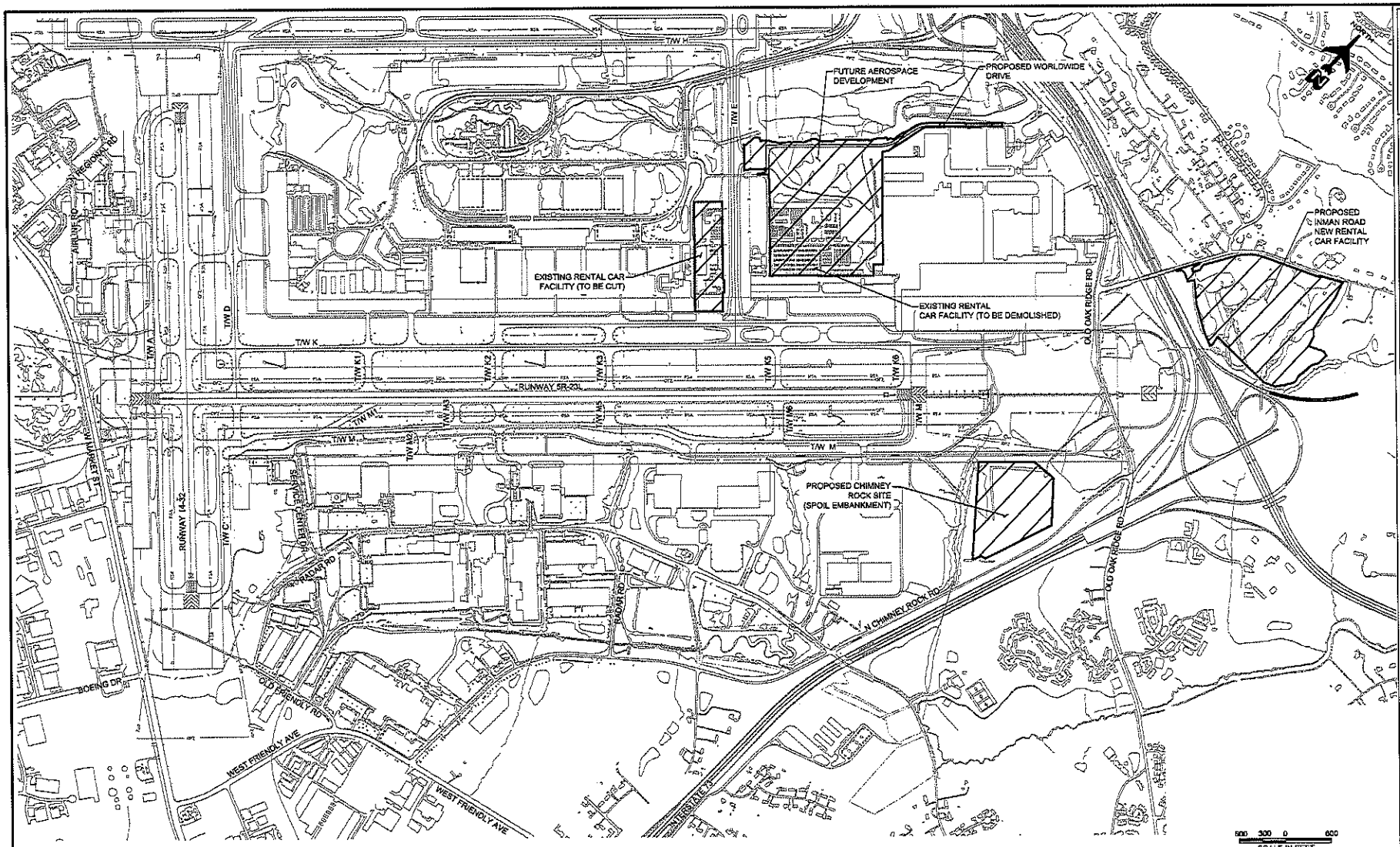
SHEET
G-002



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PIEDMONT TRIAD INTERNATIONAL AIRPORT

RENTAL CAR FACILITIES RELOCATION

PROJECT LAYOUT PLAN

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SHEET

G-003

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MATCHLINE - SEE SHEET C-101

HERTZ

TERMINAL SERVICE RD

PTI DR

CARGO RD

NATIONAL

ALAMO

ENTERPRISE

RENTAL CAR DRIVE

OVERFLOW PARKING

AIR CARGO FACILITY

SAMARITAN PURSE

TAXIWAY E

TAXIWAY J

REMOVE EXISTING RIPRAP

LOD (FUTURE DEVELOPMENT)

EXISTING ROADWAY TO BE REMOVED FOR FUTURE AEROSPACE DEVELOPMENT

NORTH

100 50 0 100
SCALE IN FEET

KEY MAP

LEGEND

LOD	LIMIT OF DISTURBANCE
895	EXISTING 5' MAJOR CONTOURS
	EXISTING 1' MINOR CONTOURS
	EXISTING STREAM/BODY OF WATER
	PROPOSED DEMO LIMITS

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PIEDMONT TRIAD INTERNATIONAL AIRPORT

RENTAL CAR FACILITIES RELOCATION

EXISTING CONDITIONS AND DEMOLITION PLAN - 1

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DSK	GBV
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NO.	DATE	BY	DESCRIPTION

SHEET

C-100

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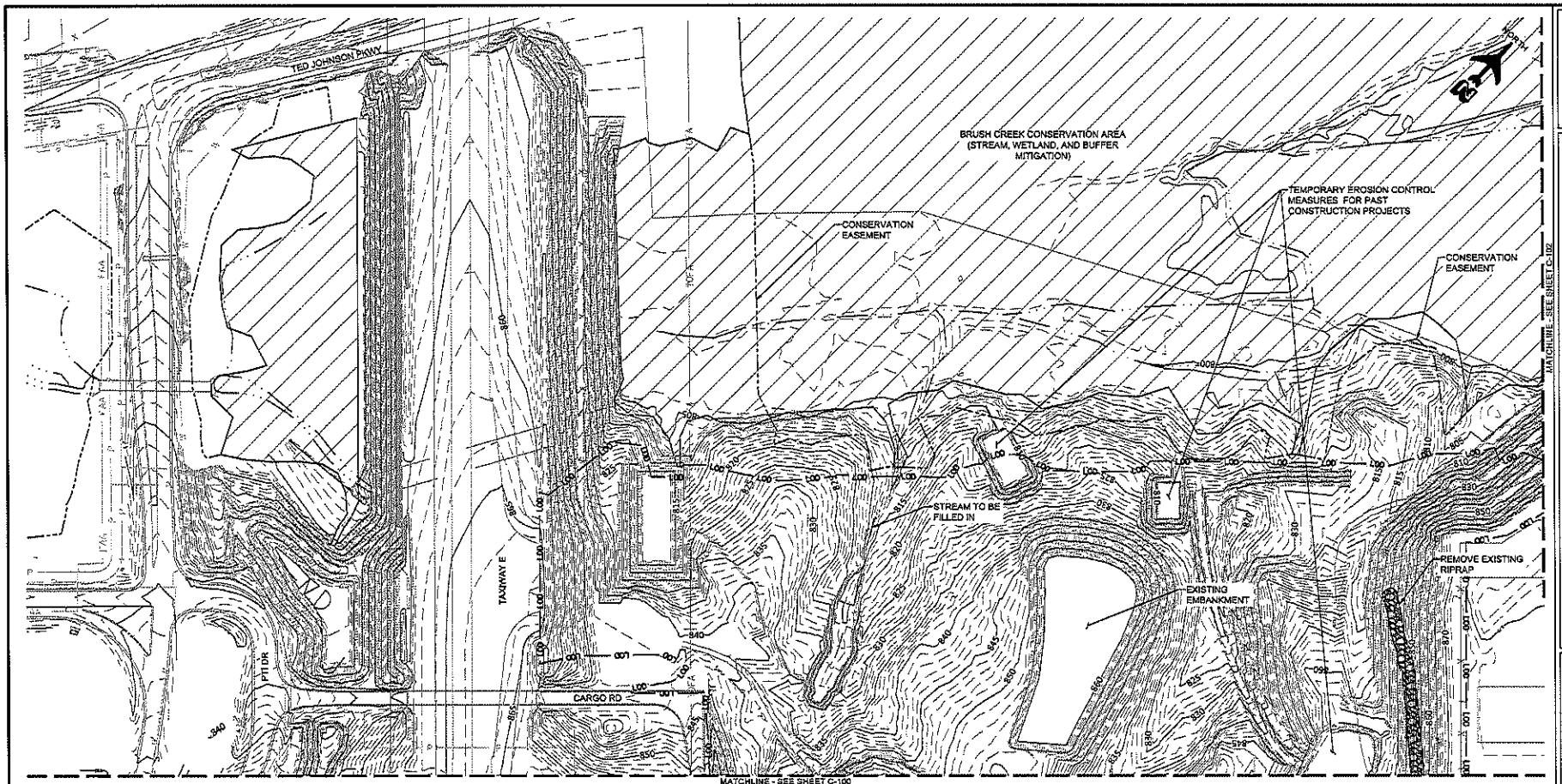
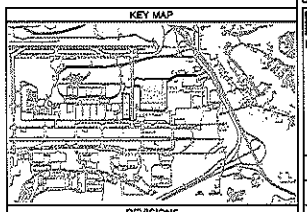


LEGEND

—— LOD ——	LIMIT OF DISTURBANCE
——895——	EXISTING 5' MAJOR CONTOURS
- - - - - -	EXISTING 1' MINOR CONTOURS
— · · —	EXISTING STREAM/BODY OF WATER
▨	BRUSH CREEK CONSERVATION AREA

KEY MAP



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OFC: (336) 665-5600
FAX: (336) 665-5664
www.flyfromptl.com

PIEDMONT TRIAD INTERNATIONAL AIRPORT

RENTAL CAR FACILITIES RELOCATION

EXISTING CONDITIONS AND DEMOLITION PLAN - 2

NOT FOR CONSTRUCTION

AAB DESIGNED	EAB DRAWN
DSK CHECKED	GBV APPROVED

Michael Baker INTERNATIONAL
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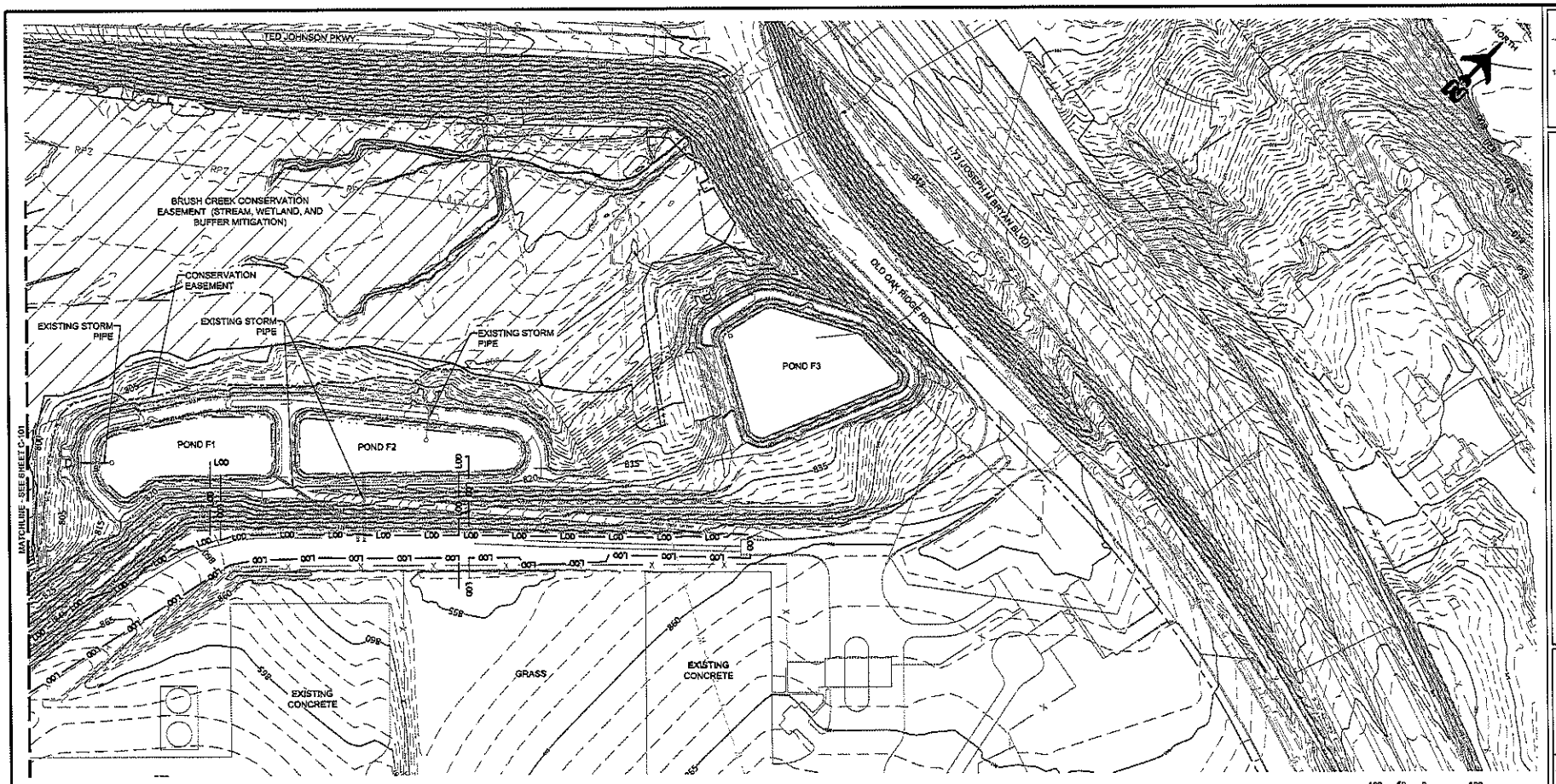
DATE: AUGUST 05, 2019

SCALE: AS SHOWN

SHEET

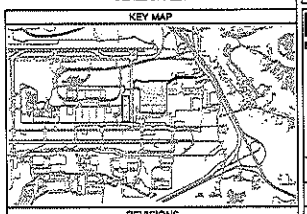
C-101



LEGEND

- LOD — LIMIT OF DISTURBANCE
- 895 — EXISTING 5' MAJOR CONTOURS
- EXISTING 1' MINOR CONTOURS
- EXISTING STREAM/BODY OF WATER
- BRUSH CREEK CONSERVATION AREA

KEY MAP



REVISIONS

NO	DATE	BY	DESCRIPTION

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PIEDMONT TRIAD INTERNATIONAL AIRPORT

RENTAL CAR FACILITIES RELOCATION

EXISTING CONDITIONS AND DEMOLITION PLAN - 3

NOT FOR CONSTRUCTION

AAB	EAB
DESIGNED	DRAWN
DSK	GBV
CHECKED	APPROVED

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MICHAEL BAKER ENGINEERING, INC.
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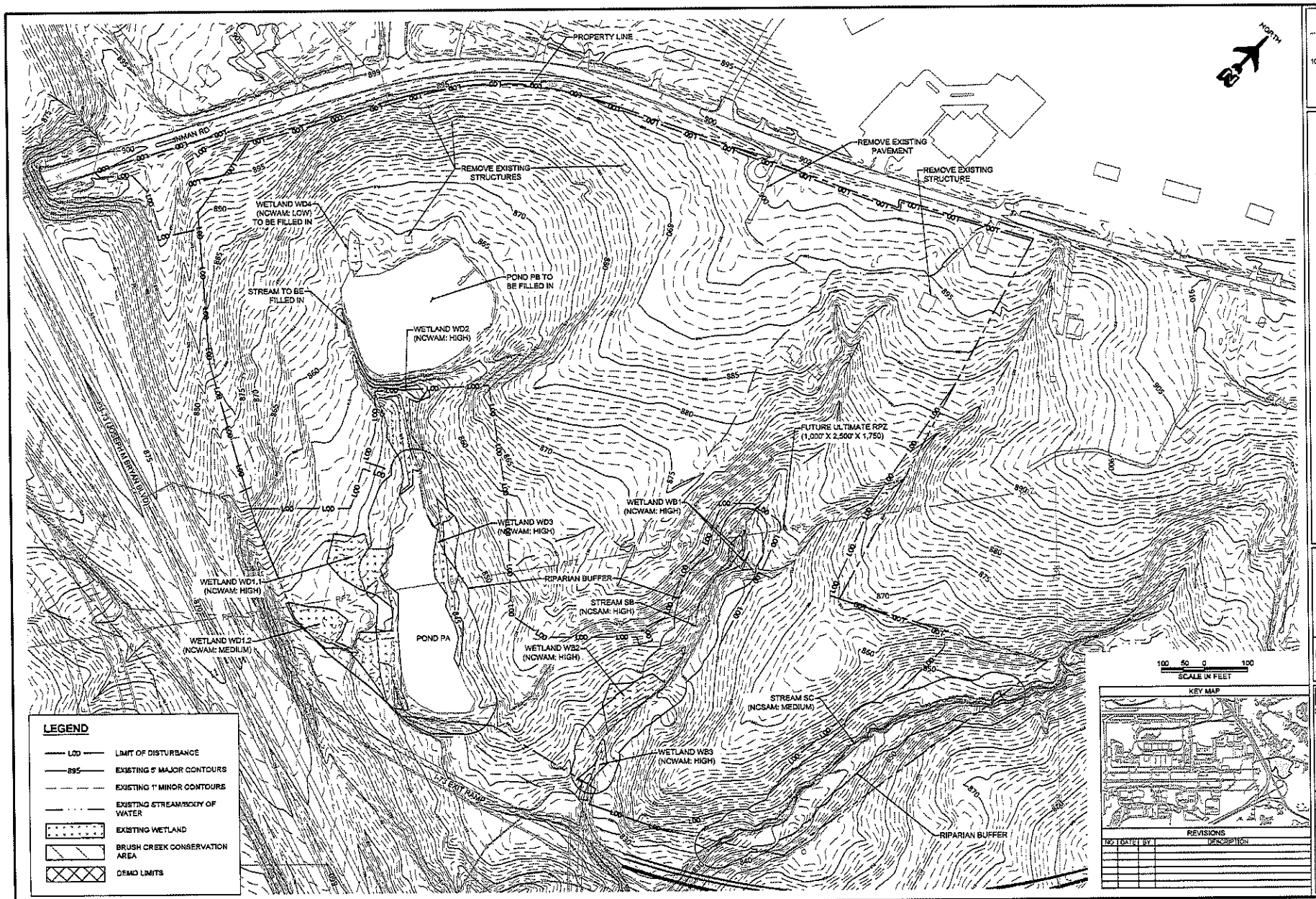
DATE: AUGUST 05, 2019

SCALE: AS SHOWN

SHEET

C-102



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PIEDMONT TRIAD INTERNATIONAL AIRPORT

RENTAL CAR FACILITIES RELOCATION

EXISTING CONDITIONS AND DEMOLITION PLAN - 4

NOT FOR CONSTRUCTION

AAB	EAB
DESIGNED	DRAWN
DSK	GBV
CHECKED	APPROVED

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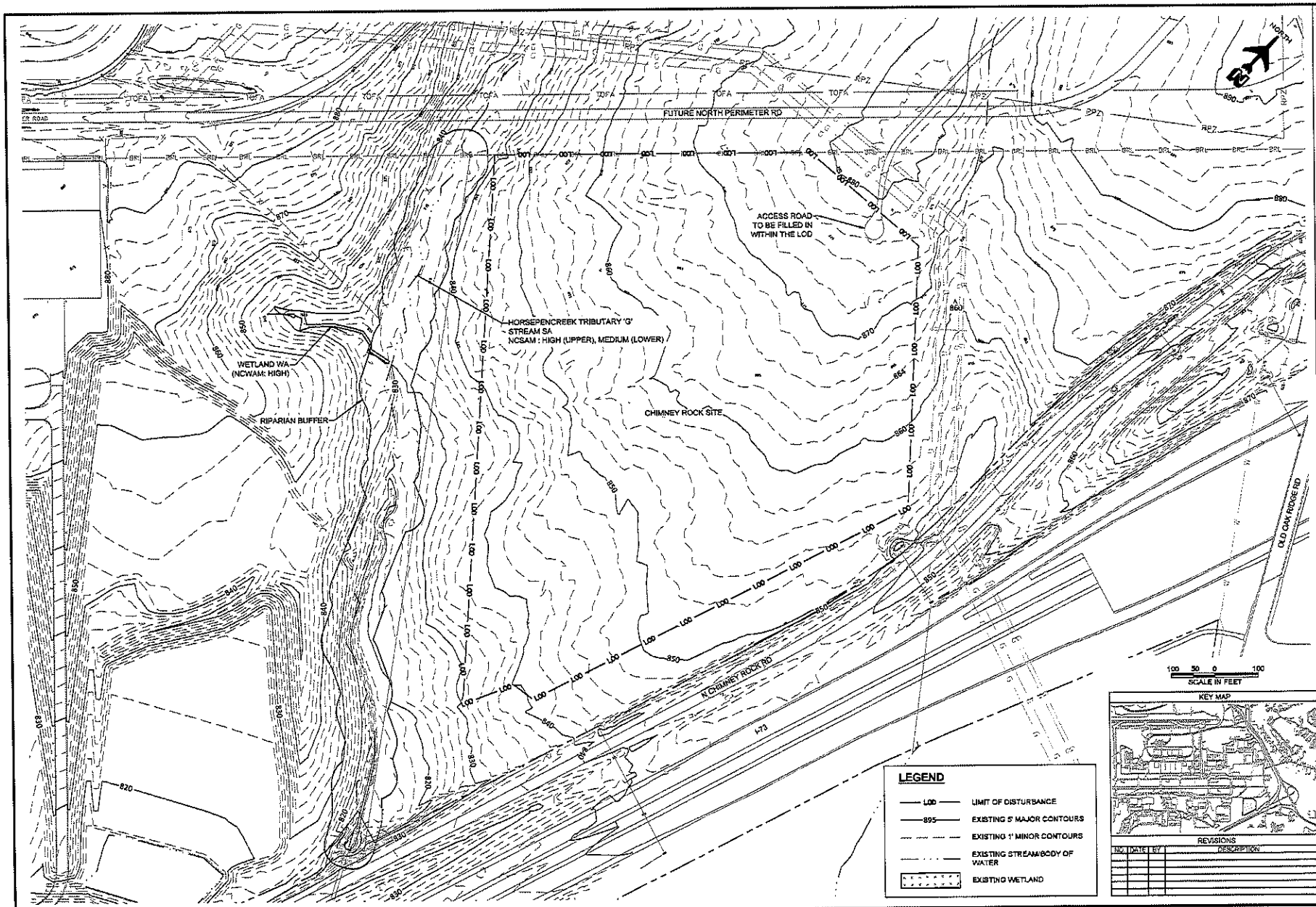
SHEET

C-103

REVISIONS

NO	DATE	BY	DESCRIPTION



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PIEDMONT TRIAD AIRPORT AUTHORITY
1000A Ted Johnson Parkway
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OFC: (336) 665-5600
FAX: (336) 665-5694
www.flytrompt.com

PIEDMONT TRIAD INTERNATIONAL AIRPORT

RENTAL CAR FACILITIES RELOCATION

EXISTING CONDITIONS AND DEMOLITION PLAN - 5

NOT FOR CONSTRUCTION

AAB	EAB
DESIGNED	DRAWN
DSK	GBV
CHECKED	APPROVED

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REVISIONS

NO.	DATE	BY	DESCRIPTION

SHEET

C-104

REV. 04/26/2019 IF THIS DRAWING IS LESS THAN 22" x 34", IT IS A REDUCED SIZE DRAWING

G:\MBA_RSA\Piedmont Triad International Airport\170048 RW 5 Sites\DWGS\00-Active Files\01 CADD\02 Civil\C-100-EXISTING CONDITIONS AND DEMOLITION PLANS.dwg

MATCHLINE - SEE SHEET C-201

PROPOSED RETAINING WALL

CARGO RD

PTI DR

TAXIWAY E

FUTURE AEROSPACE DEVELOPMENT

TOFA

TAXIWAY J

NORTH

100 50 0 100
SCALE IN FEET

KEY MAP

LEGEND

LOD	LIMIT OF DISTURBANCE
	EXISTING STREAM/BODY OF WATER
	PROPOSED PAVEMENT

REVISIONS

NO	DATE	BY	DESCRIPTION

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PIEDMONT TRIAD INTERNATIONAL AIRPORT

RENTAL CAR FACILITIES RELOCATION

SITE PLAN - 1

NOT FOR CONSTRUCTION

AAB	EAB
DESIGNED	DRAWN
DSK	GSV
CHECKED	APPROVED

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SCALE: AS SHOWN

SHEET

C-200

REV. 04/26/2018 IF THIS DRAWING IS LESS THAN 22" x 34", IT IS A REDUCED SIZE DRAWING

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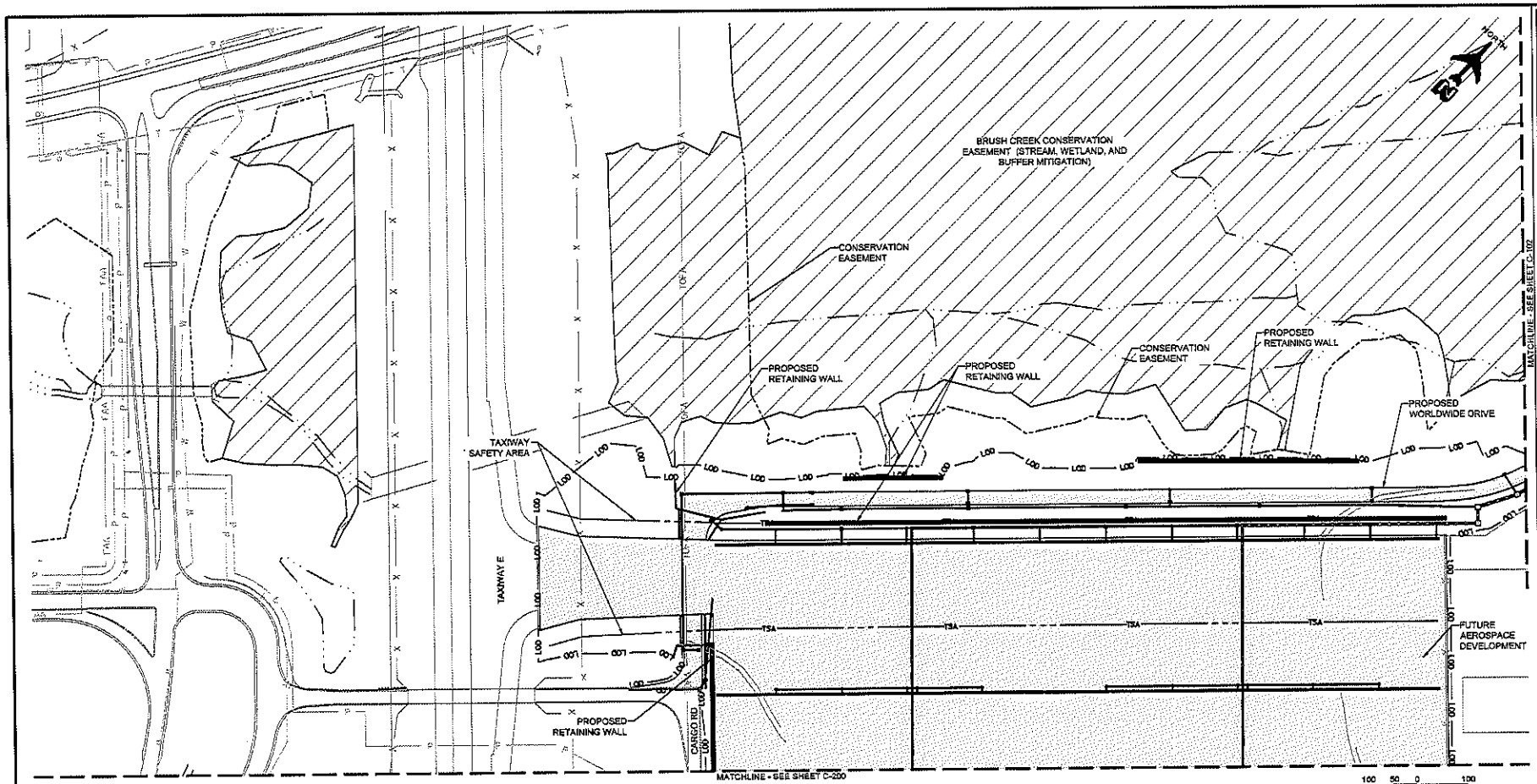
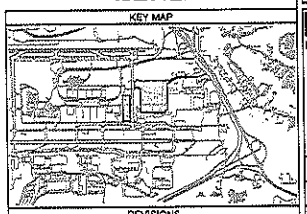


LEGEND

- LOD — LIMIT OF DISTURBANCE
- EXISTING STREAM/BODY OF WATER
- EXISTING WETLAND
- BRUSH CREEK CONSERVATION AREA
- PROPOSED PAVEMENT

KEY MAP



REVISIONS

NO	DATE	BY	DESCRIPTION

PTI
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OFC: (336) 665-5600
FAX: (336) 665-5694
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PIEDMONT TRIAD INTERNATIONAL AIRPORT

RENTAL CAR FACILITIES RELOCATION

SITE PLAN - 2

NOT FOR CONSTRUCTION

DESIGNED	DRAWN
AAS	EAB
CHECKED	APPROVED
DSK	GBV

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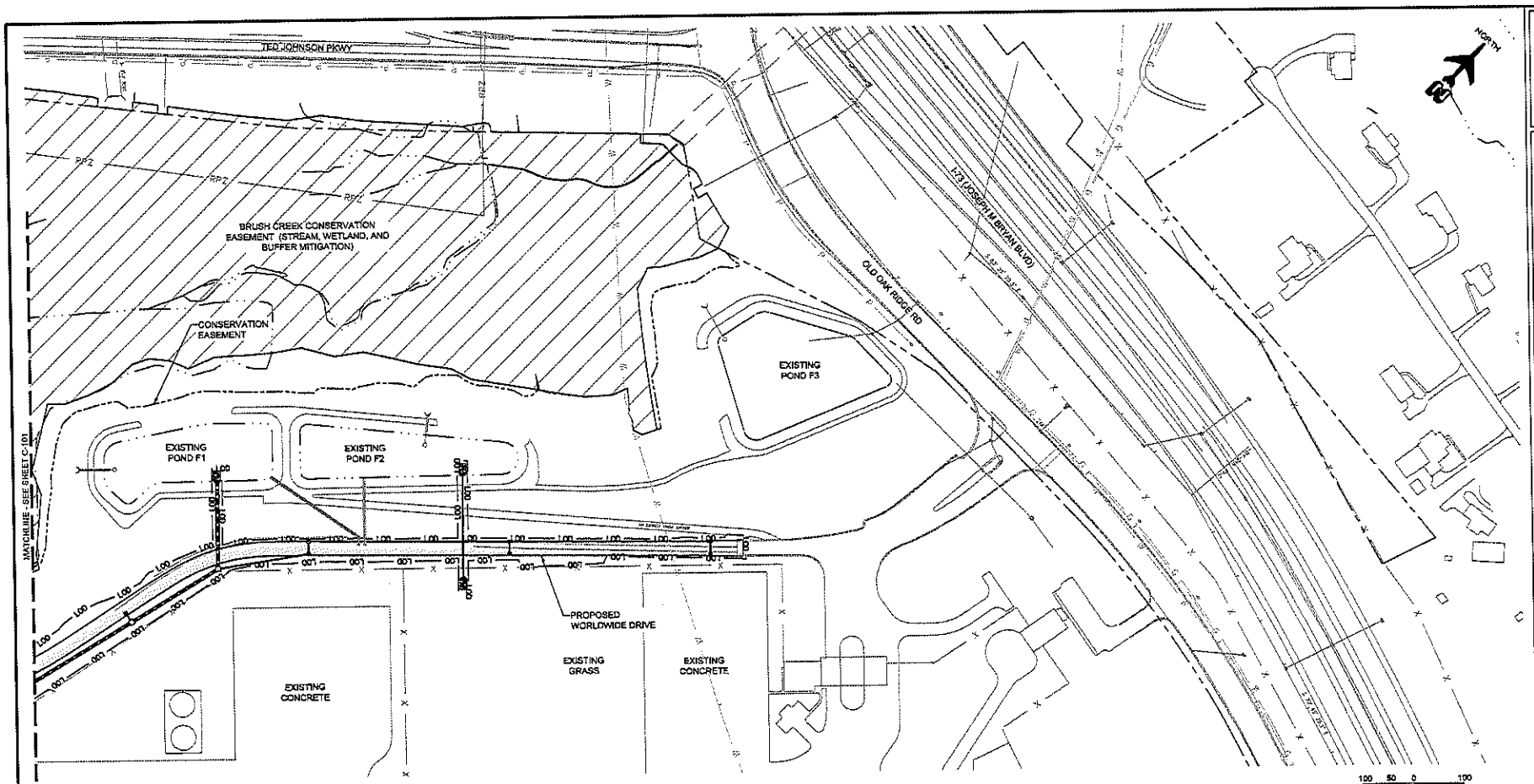
SHEET

C-201

REV. 04/26/2010 IF THIS DRAWING IS LESS THAN 22" x 34", IT IS A REDUCED SIZE DRAWING

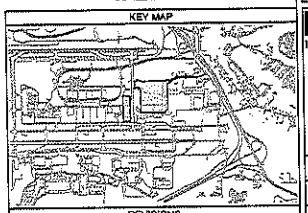
Q:\KBA_BBA\Piedmont Triad International Airport\173048 BRM 3 Sites\DWGS\00-Active Files\01 CADD\02 Civil\C-200-SITE PLANS.dwg



LEGEND

- LOD — LIMIT OF DISTURBANCE
- EXISTING STREAM/BODY OF WATER
- EXISTING WETLAND
- BRUSH CREEK CONSERVATION AREA
- PROPOSED PAVEMENT
- PROPOSED BUILDING

KEY MAP



REVISIONS

NO	DATE	BY	DESCRIPTION

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FAX: (336) 665-5684
www.flytriangle.com

PIEDMONT TRIAD INTERNATIONAL AIRPORT

RENTAL CAR FACILITIES RELOCATION

SITE PLAN - 3

NOT FOR CONSTRUCTION

AAB	EAB
DESIGNED	DRAWN
DSK	GBV
CHECKED	APPROVED

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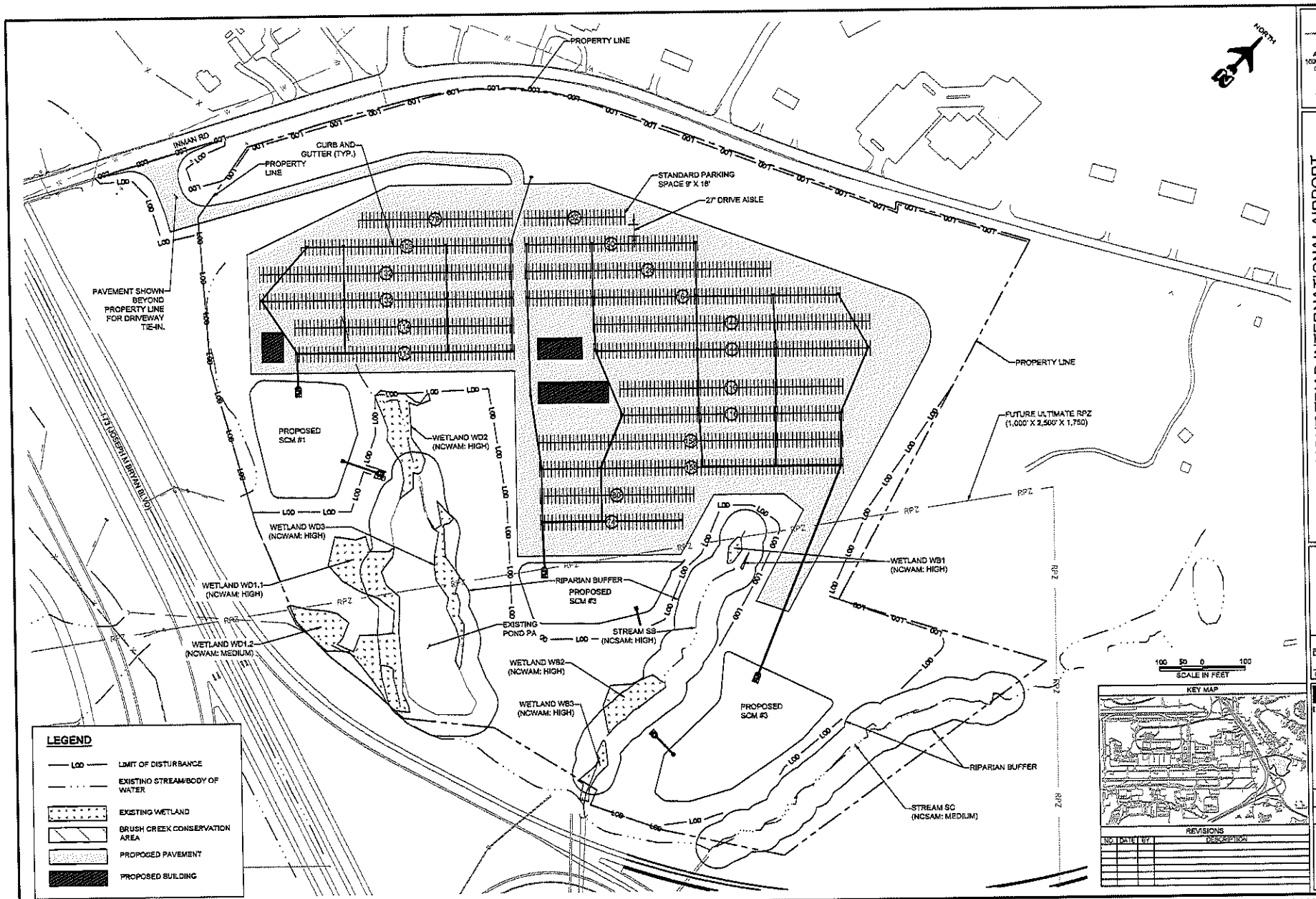
FAX: (336) 931-1501

DATE: AUGUST 05, 2019

SCALE: AS SHOWN

SHEET

C-202



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Greensboro, NC 27409
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FAX: (336) 665-5654
www.flyfromptl.com

PIEDMONT TRIAD INTERNATIONAL AIRPORT
RENTAL CAR FACILITIES RELOCATION

SITE PLAN - 4

NOT FOR CONSTRUCTION

AAB	EAB
DESIGNED	DRAWN
DSK	GBV
CHECKED	APPROVED

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FAX: (336) 931-1501

DATE: AUGUST 05, 2019

SCALE: AS SHOWN

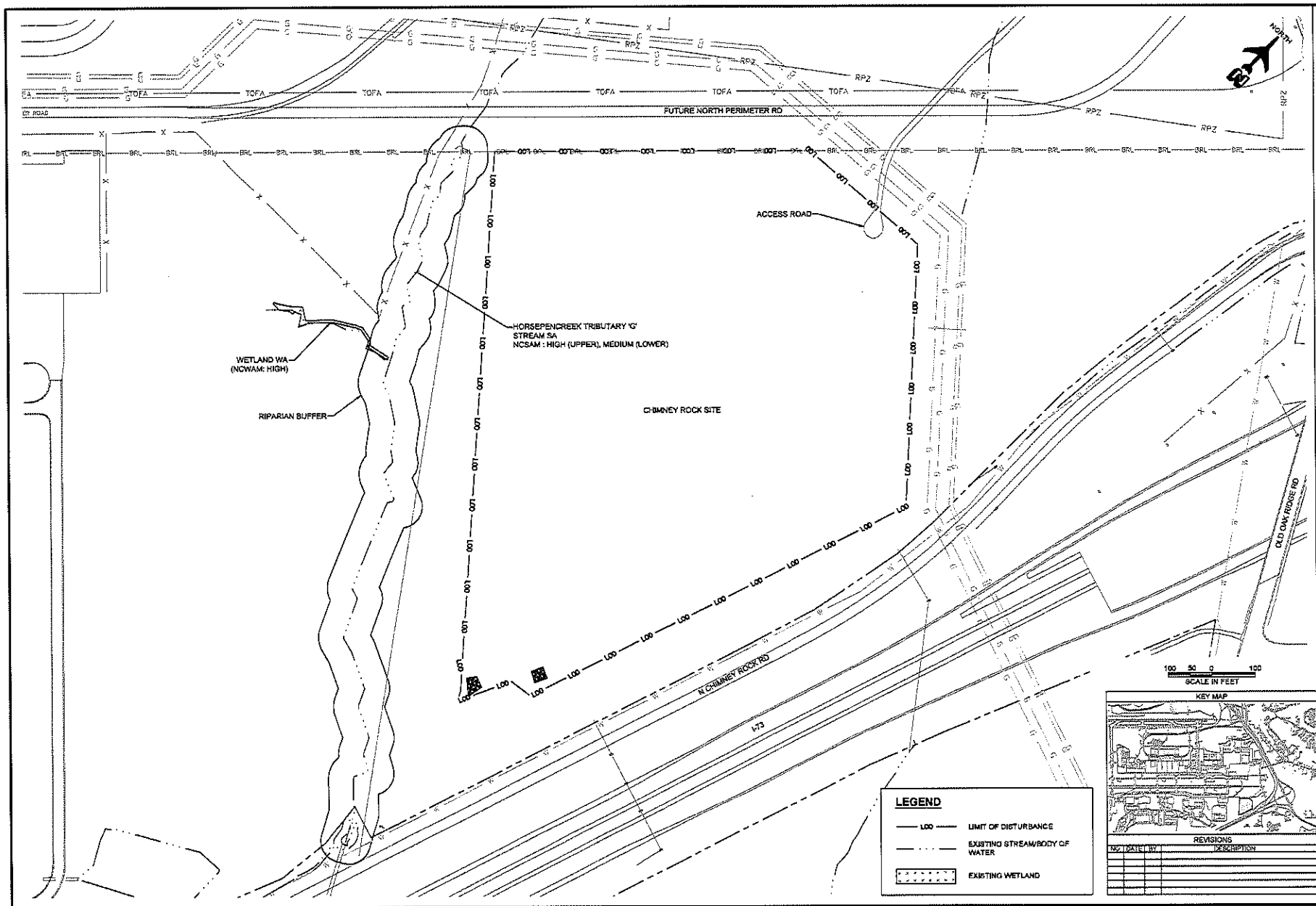
SHEET
C-203

REVISIONS

NO.	DATE	BY	DESCRIPTION

REV. 04/25/2016 IF THIS DRAWING IS LESS THAN 22" x 34", IT IS A REDUCED SIZE DRAWING

G:\MBA_BEM\Piedmont Triad International Airport\173048 BWM 5 Sites\DWGS\00-Active Files\01 CADD\02 CMP\C-200-SITE PLANS.dwg



PTI

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Greensboro, NC 27409
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FAX: (336) 665-5694
www.flytriompti.com

PIEDMONT TRIAD INTERNATIONAL AIRPORT

RENTAL CAR FACILITIES RELOCATION

SITE PLAN - 5

NOT FOR CONSTRUCTION

AAB	EAS
DESIGNED	DRAWN
DSK	GBV
CHECKED	APPROVED

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FAX: (336) 931-1501

DATE: AUGUST 05, 2019

SCALE: AS SHOWN

SHEET

C-204

REVISIONS

NO.	DATE	BY	DESCRIPTION

REV. 04/26/2018 IF THIS DRAWING IS LESS THAN 22" x 34", IT IS A REDUCED SCALE DRAWING

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MATCHLINE - SEE SHEET C-301

PROPOSED RETAINING WALL

SHALLOW ROUND MANHOLE (TYP.) 1 C-602

TRENCH DRAIN (TYP.) 1 C-601

FLOW BLOCKER (TYP.) B C-601

FUTURE AEROSPACE DEVELOPMENT

CARGO RD

TAXIWAY E

TAXIWAY J

TOFA

18" RCP

24" RCP

30" RCP

NORTH

LEGEND

100	LIMIT OF DISTURBANCE		TRENCH DRAIN
640	PROPOSED 10' MAJOR CONTOURS		STORM PIPE
	PROPOSED 2' MINOR CONTOURS		STORM JUNCTION
895	EXISTING 5' MAJOR CONTOURS		STORM MANHOLE
	EXISTING 1' MINOR CONTOURS		STORM INLET
	EXISTING STREAM/BODY OF WATER		STORM FLOW BLOCKER
	EXISTING WETLAND		STORM ENDWALL
	BRUSH CREEK CONSERVATION AREA		RIPRAP
	PROPOSED PAVEMENT		FLOW ARROW
	PROPOSED BUILDING	TW	TOP OF WALL
TSA	TAXIWAY SAFETY AREA	BW	BOTTOM OF WALL

100 50 0 100
SCALE IN FEET

KEY MAP

REVISIONS

NO.	DATE	BY	DESCRIPTION

PTI
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FAX: (336) 665-5694
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PIEDMONT TRIAD INTERNATIONAL AIRPORT

RENTAL CAR FACILITIES RELOCATION

GRADING AND DRAINAGE PLAN - 1

NOT FOR CONSTRUCTION

DESIGNED	DRAWN
AAS	EAS
CHECKED	APPROVED
DSK	GBV

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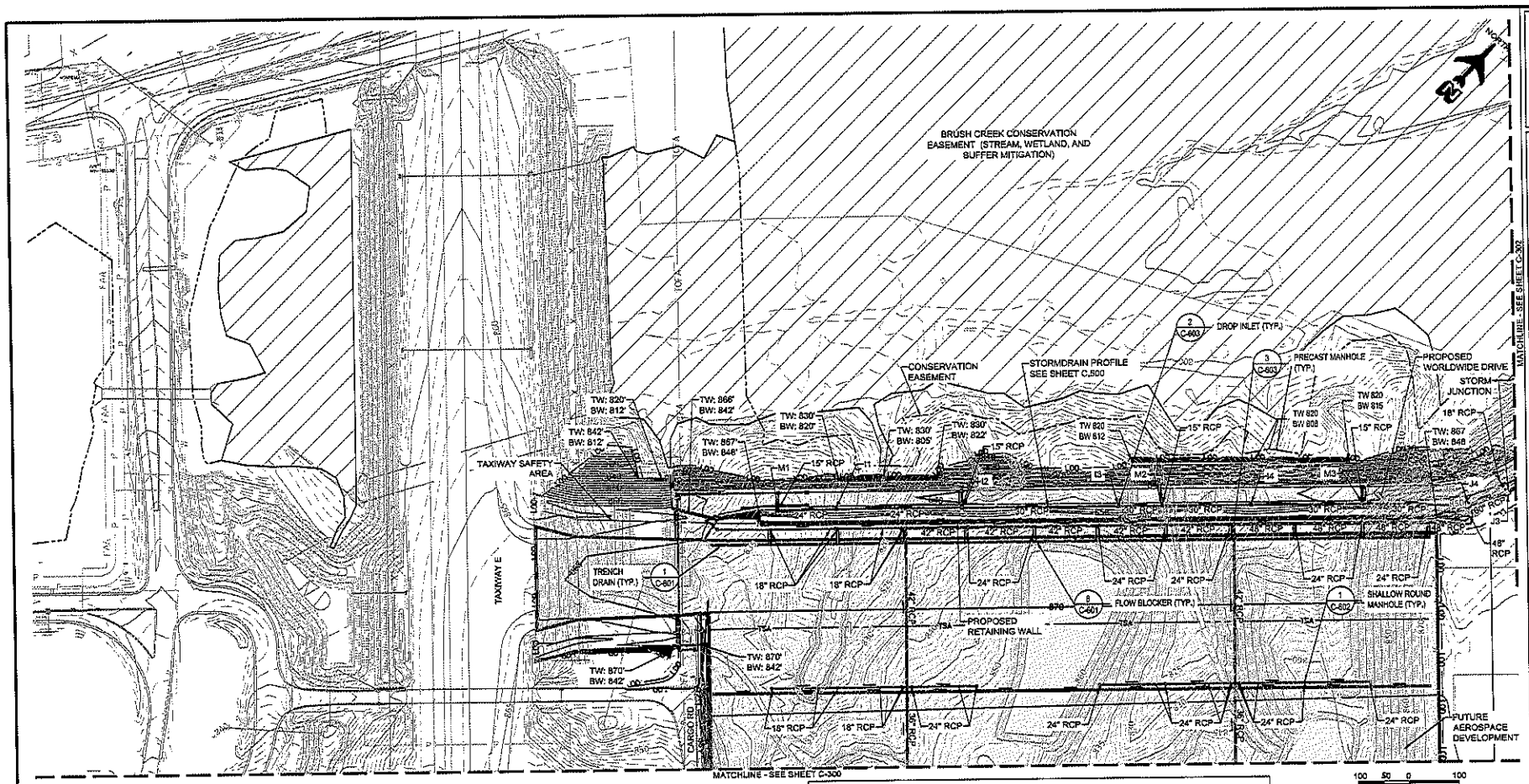
FAX: (336) 931-1501

DATE: AUGUST 05, 2019

SCALE: AS SHOWN

SHEET

C-300



LEGEND

LOD	LIMIT OF DISTURBANCE		TRENCH DRAIN
840	PROPOSED 10' MAJOR CONTOURS		STORM PIPE
	PROPOSED 2' MINOR CONTOURS		STORM JUNCTION
895	EXISTING 5' MAJOR CONTOURS		STORM MANHOLE
	EXISTING 1' MINOR CONTOURS		STORM INLET
	EXISTING STREAM/BODY OF WATER		STORM FLOW BLOCKER
	EXISTING WETLAND		STORM ENDWALL
	BRUSH CREEK CONSERVATION AREA		RIPRAP
	PROPOSED PAVEMENT		FLOW ARROW
	PROPOSED BUILDING	TW	TOP OF WALL
TSA	TAXIWAY SAFETY AREA	BW	BOTTOM OF WALL

KEY MAP

REVISIONS

NO.	DATE	BY	DESCRIPTION

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PIEDMONT TRIAD INTERNATIONAL AIRPORT

RENTAL CAR FACILITIES RELOCATION

GRADING AND DRAINAGE PLAN - 2

NOT FOR CONSTRUCTION

AAB	EAB
DESIGNED	DRAWN
DSK	GSV
CHECKED	APPROVED

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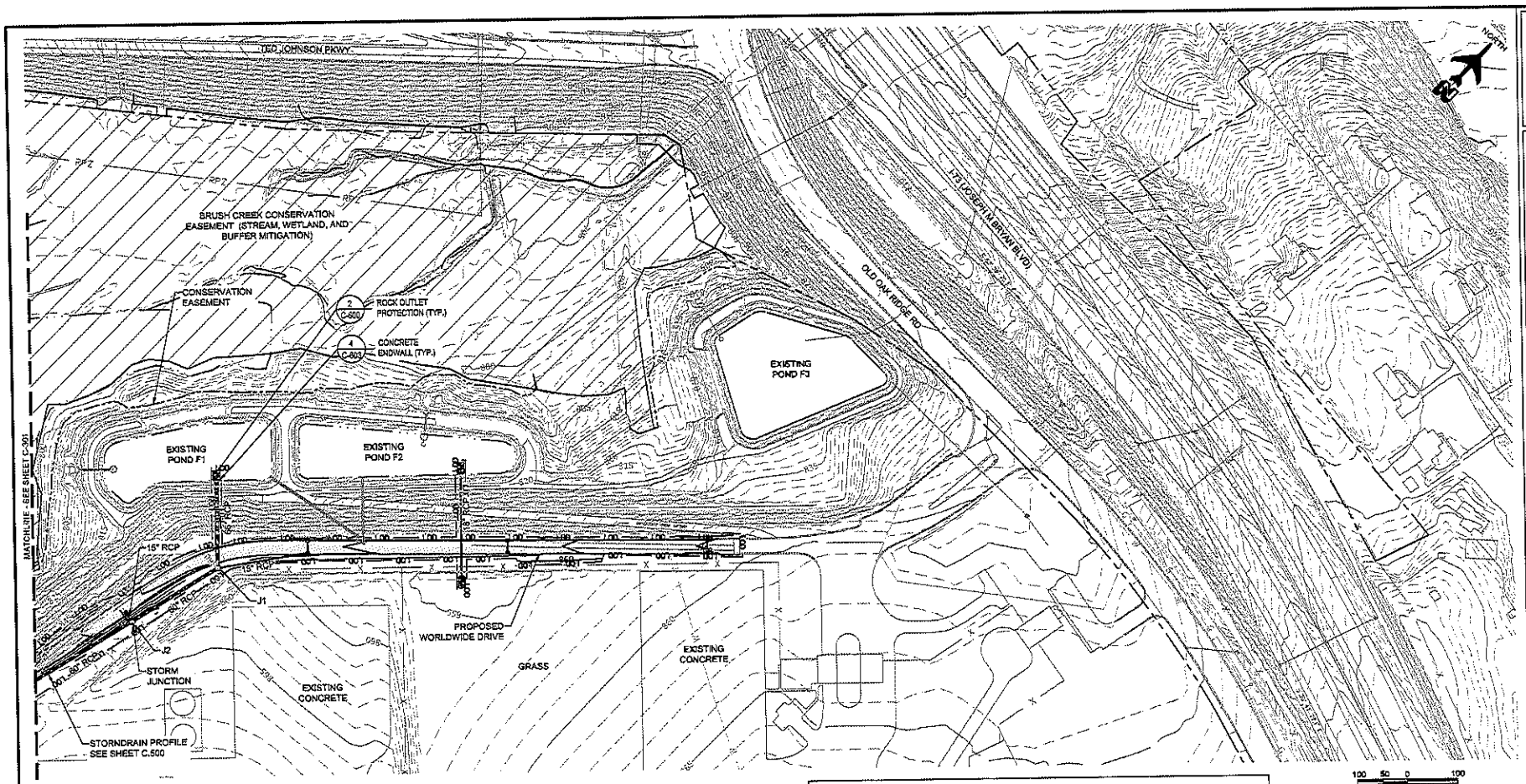
DATE: AUGUST 05, 2019

SCALE: AS SHOWN

SHEET

C-301



LEGEND

100	LIMIT OF DISTURBANCE		TRENCH DRAIN
840	PROPOSED 10' MAJOR CONTOURS		STORM PIPE
	PROPOSED 2' MINOR CONTOURS		STORM JUNCTION
895	EXISTING 5' MAJOR CONTOURS		STORM MANHOLE
	EXISTING 1' MINOR CONTOURS		STORM INLET
	EXISTING STREAM/BODY OF WATER		STORM FLOW BLOCKER
	EXISTING WETLAND		STORM ENDWALL
	BRUSH CREEK CONSERVATION AREA		RIPRAP
	PROPOSED PAVEMENT		FLOW ARROW
	PROPOSED BUILDING	TW	TOP OF WALL
TSA	TAXIWAY SAFETY AREA	BW	BOTTOM OF WALL

KEY MAP

REVISIONS

NO	DATE	BY	DESCRIPTION

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PIEDMONT TRIAD INTERNATIONAL AIRPORT
RENTAL CAR FACILITIES RELOCATION

GRADING AND DRAINAGE PLAN - 3

NOT FOR CONSTRUCTION

DESIGNED	DRAWN
AAB	EAB
CHECKED	APPROVED
DSK	QBV

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SCALE: AS SHOWN

SHEET

C-302

REV. 04/26/2016 IF THIS DRAWING IS LESS THAN 22" x 34", IT IS A REDUCED SIZE DRAWING

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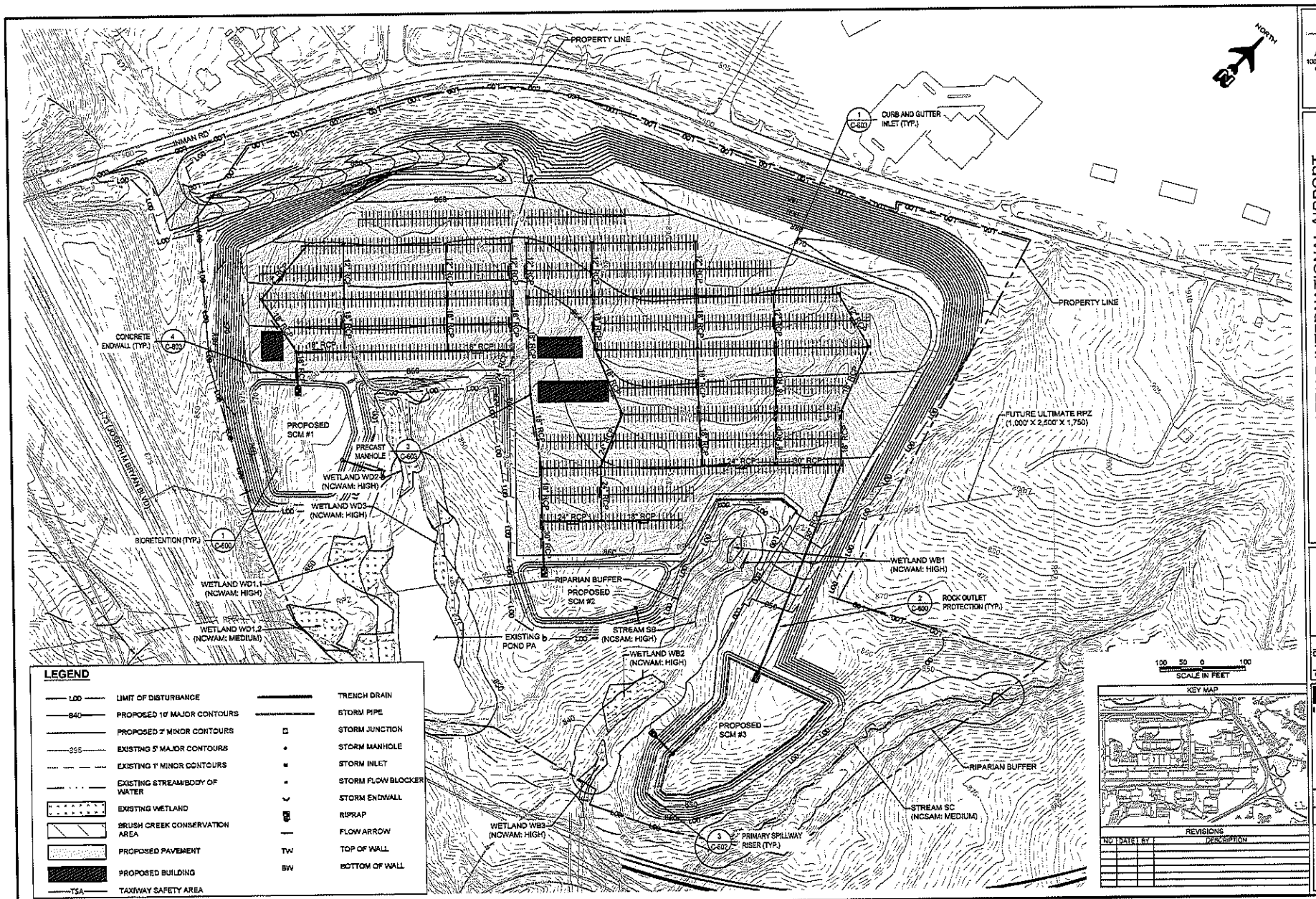

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PIEDMONT TRIAD INTERNATIONAL AIRPORT
RENTAL CAR FACILITIES RELOCATION

GRADING AND DRAINAGE PLAN - 4

NOT FOR CONSTRUCTION

AAB	EAB
DESIGNED	DRAWN
DSK	GBV
CHECKED	APPROVED

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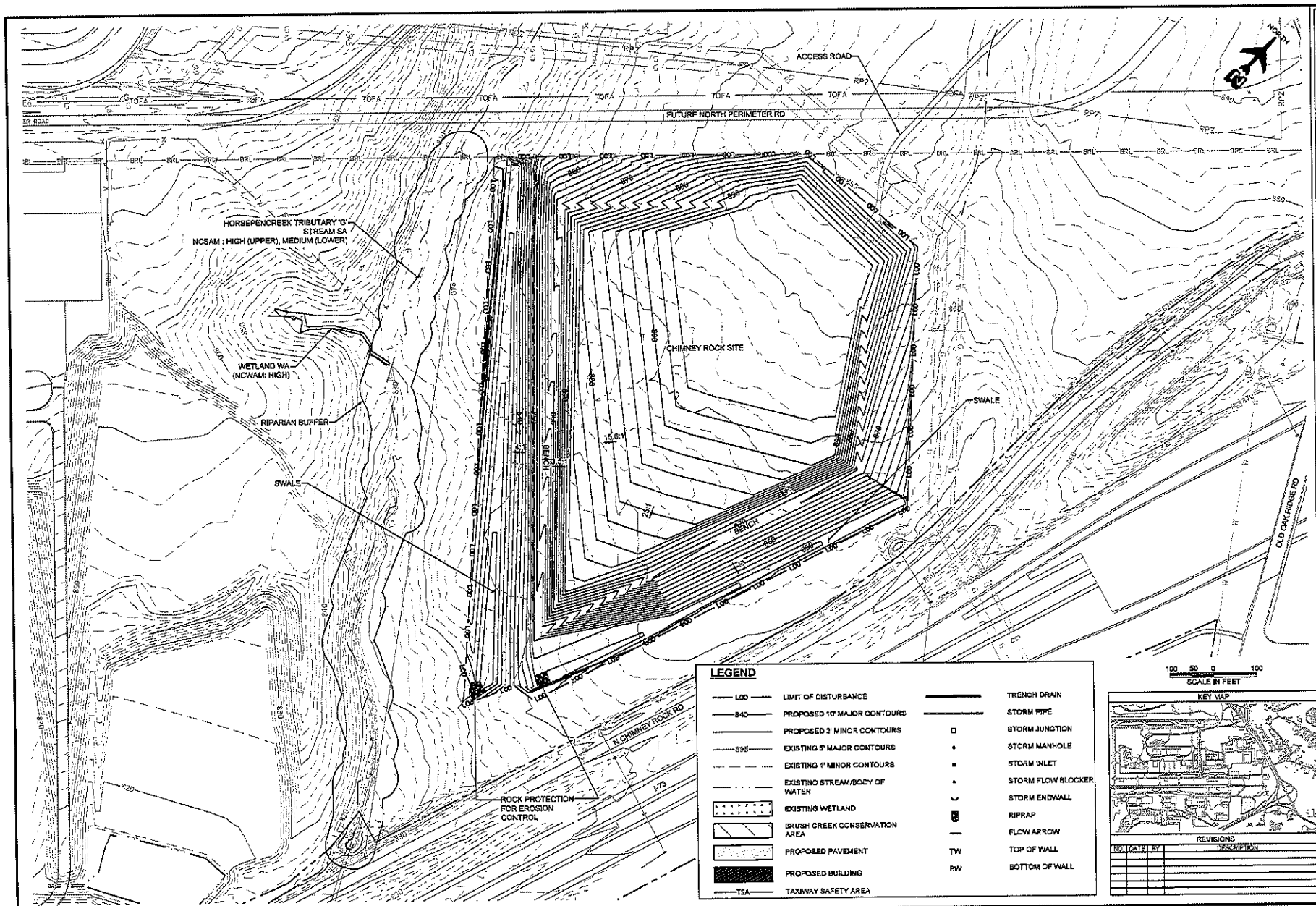
DATE: AUGUST 05, 2019
SCALE: AS SHOWN
SHEET
C-303

REVISIONS

NO	DATE	BY	DESCRIPTION

REV. 04/06/2018 IF THIS DRAWING IS LESS THAN 22" x 34", IT IS A REDUCED SIZE DRAWING

Q:\HBA_BBN\Piedmont Triad International Airport\173048 SRM 3 Sites\PRE2\00-Active File\01 CADD\02 Civil\C-300-GRADING AND DRAINAGE PLANS.dwg



KEY MAP

REVISIONS

NO.	DATE	BY	DESCRIPTION

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FAX: (336) 665-5694
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PIEDMONT TRIAD INTERNATIONAL AIRPORT
RENTAL CAR FACILITIES RELOCATION
GRADING AND DRAINAGE PLAN - 5

NOT FOR CONSTRUCTION

AAB	EAB
DESIGNED	DRAWN
DSK	GBV
CHECKED	APPROVED

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DATE: AUGUST 05, 2016

SCALE: AS SHOWN

SHEET
C-304

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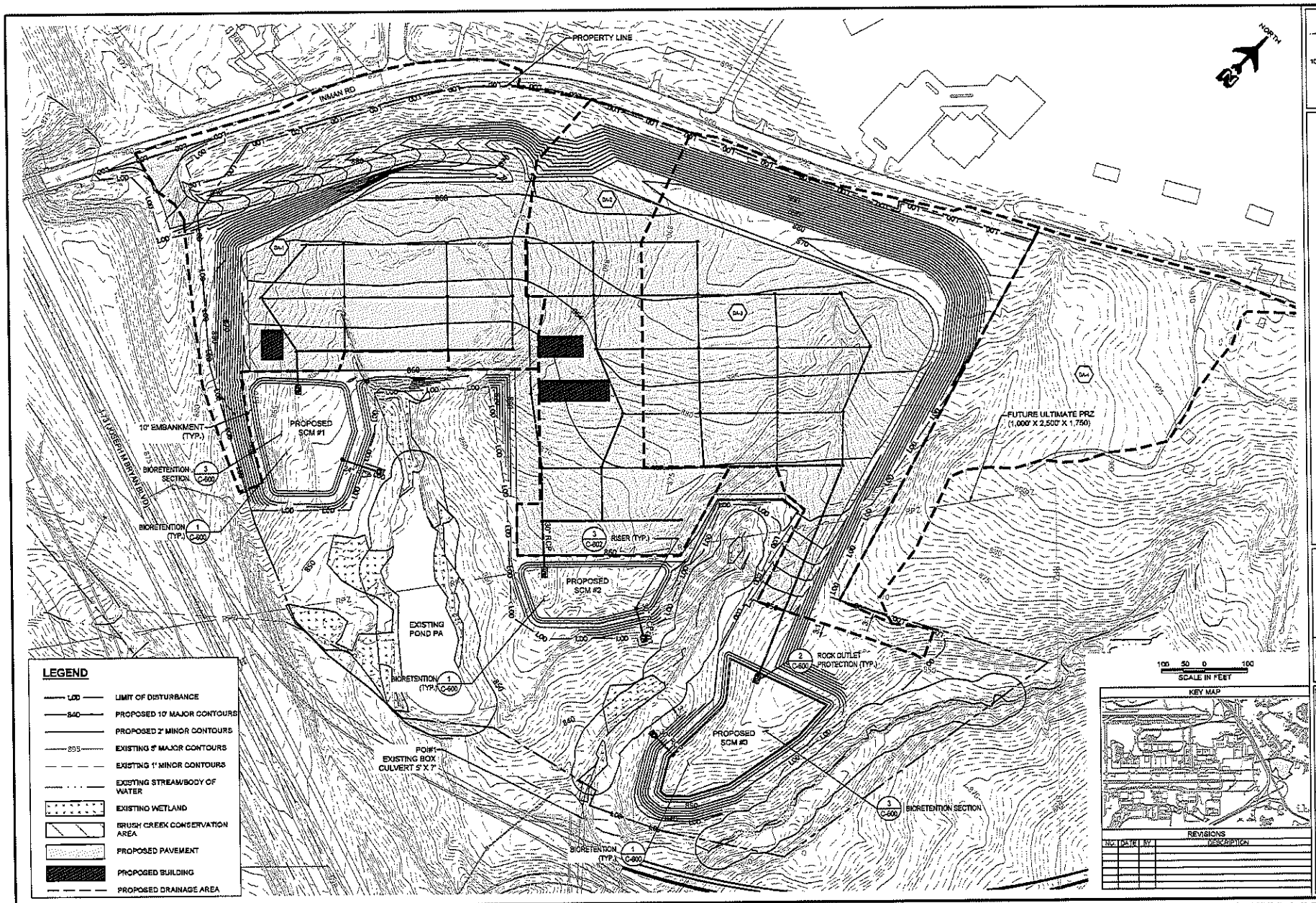

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Greensboro, NC 27409
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FAX: (336) 665-5604
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PIEDMONT TRIAD INTERNATIONAL AIRPORT

RENTAL CAR FACILITIES RELOCATION

STORMWATER MANAGEMENT PLAN - 1

NOT FOR CONSTRUCTION

AAB	EAB
DESIGNED	DRAWN
DSK	GBV
CHECKED	APPROVED

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SHEET

C-400

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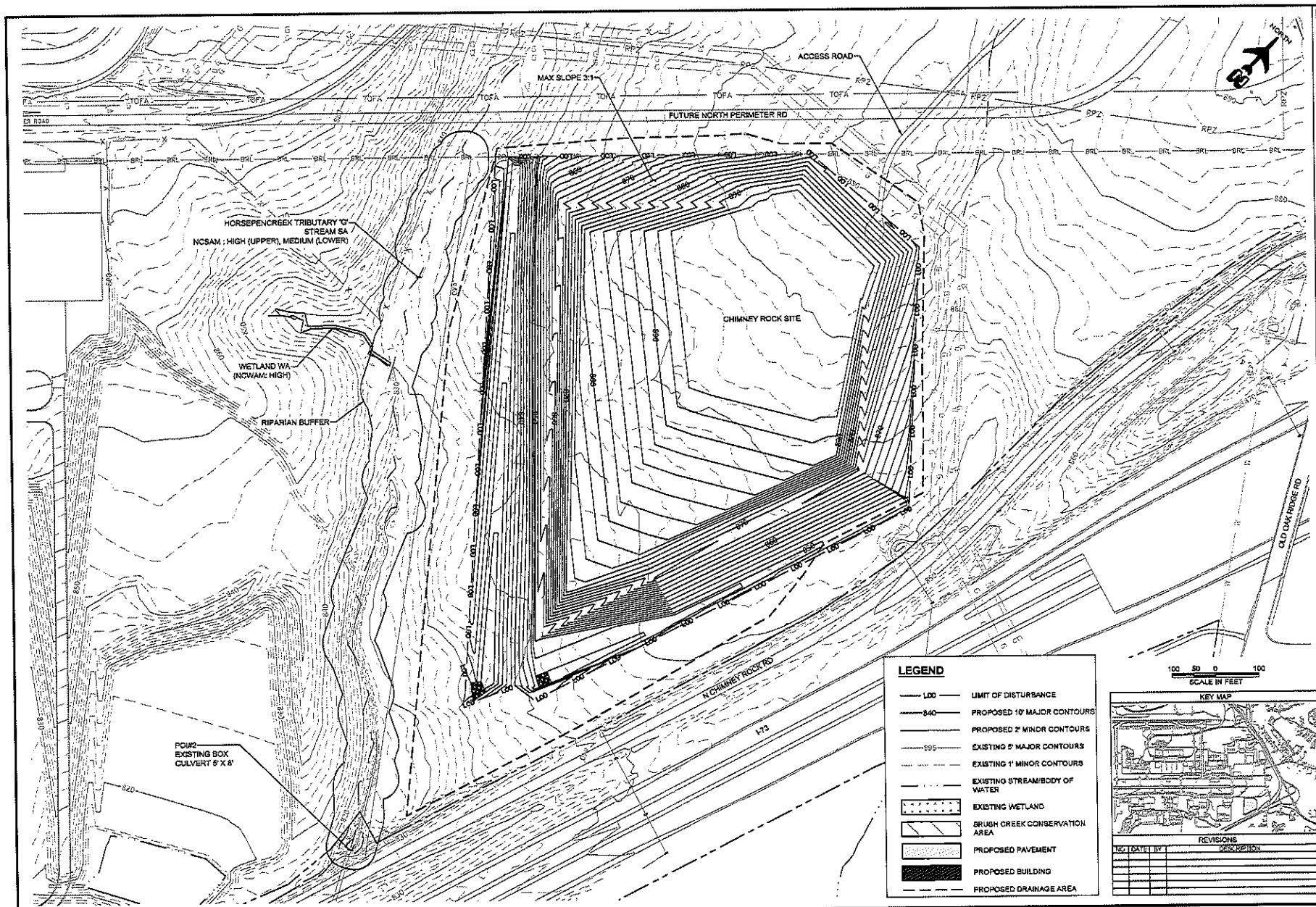

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PIEDMONT TRIAD INTERNATIONAL AIRPORT
RENTAL CAR FACILITIES RELOCATION
STORMWATER MANAGEMENT PLAN -2

NOT FOR CONSTRUCTION

AAB	EAB
DESIGNED	DRAWN
DSK	GSV
CHECKED	APPROVED

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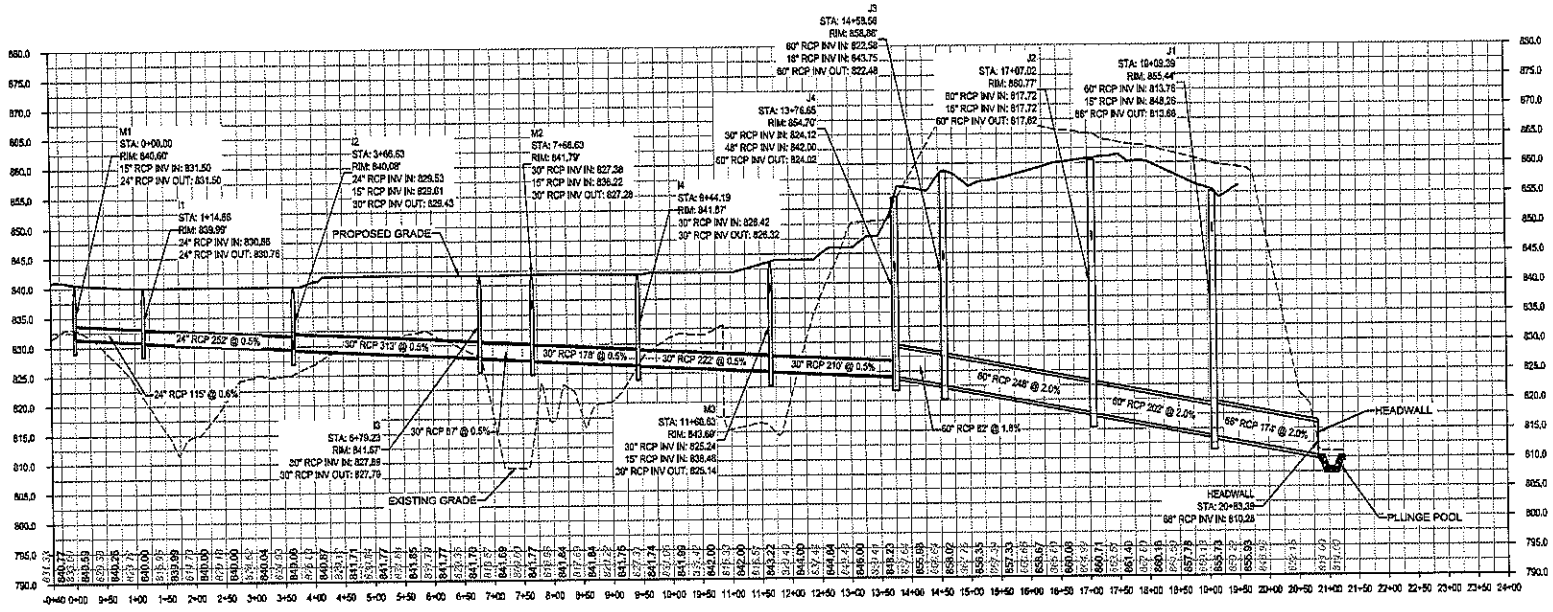
DATE: AUGUST 05, 2019

SCALE: AS SHOWN

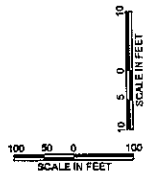
SHEET
C-401

REV. 04/25/2018 IF THIS DRAWING IS LESS THAN 22" x 34", IT IS A REDUCED SIZE DRAWING

G:\HSA_DBM\Piedmont Triad International Airport\173048 SWM 5 Sites\DWGS\30-Active Files\01 CAD\02 Civil\C-400-STORMWATER MANAGEMENT PLAN5.dwg



STORMDRAIN PROFILE ALONG PROPOSED WORLD WIDE DRIVE



REVISIONS			
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STORMDRAIN PROFILE

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SCALE: AS SHOWN

SHEET

C-500

REV_04/25/2016 IF THIS DRAWING IS LESS THAN 22" x 34", IT IS A REDUCED SIZE DRAWING

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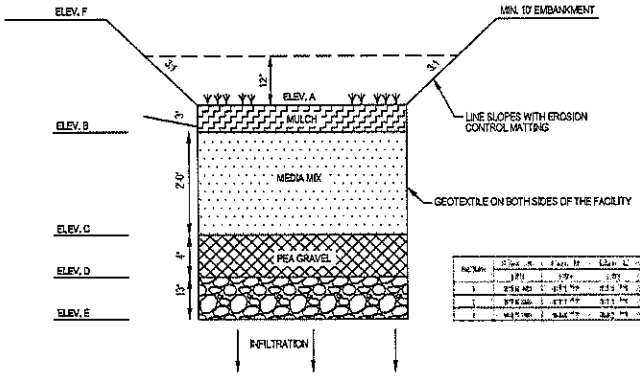

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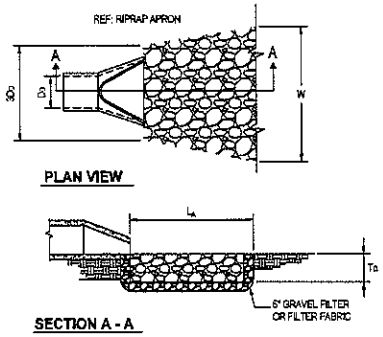
1 C-600 BIORETENTION DETAIL

SCALE: NTS

NOTES:
MEDIA SHALL BE A HOMOGENEOUS SOIL MIX ENGINEERED MEDIA BLEND WITH APPROXIMATE VOLUMES OF :

- 85-88% MEDIUM TO COARSE WASHED SAND
- 8-12% FINES (SILT AND CLAY)
- 3-5% ORGANIC MATTER
- PHOSPHORUS INDEX (P-INDEX) SHALL NOT EXCEED 30

MEDIA SHALL NOT BE MECHANICALLY COMPACTED
POST CONSTRUCTION THE FACILITY SHOULD BE MAINTAINED IN A MANNER THAT RESULTS IN AT LEAST 1"/HR AT THE PLANTING SURFACE.
INFILTRATION ASSUMED TO BE > 2"/HR AS THE EXISTING HYDROLOGIC SOIL GROUP (HSG) "A".

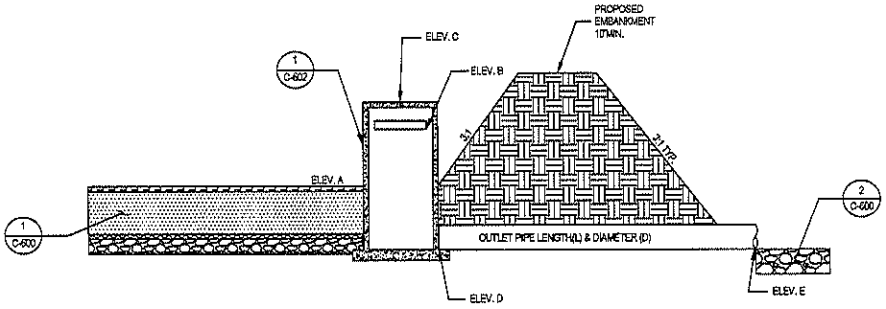


2 C-600 ROCK OUTLET PROTECTION

SCALE: NTS

NOTES:

1. L_a IS LENGTH OF RIPRAP APRON. THE APRON SHALL EXTEND TO TOE OF SLOPE.
2. THE DOWNSTREAM WIDTH (W) OF THE APRON IS EQUAL TO Do + La (MINIMUM TAILWATER)
3. A FILTER BLANKET OR FILTER FABRIC SHALL BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.
4. IN A WELL DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION 6" ABOVE MAXIMUM TAILWATER DEPTH OR TO TOP OF BANK, WHICHEVER IS LESS.
5. Ta = 1.5 x MAX. STONE DIA.; MAX. STONE DIA. 1.5 x d(50).



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3 C-600 BIORETENTION SECTION

SCALE: NTS

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STORM WATER MANAGEMENT DETAILS - 1

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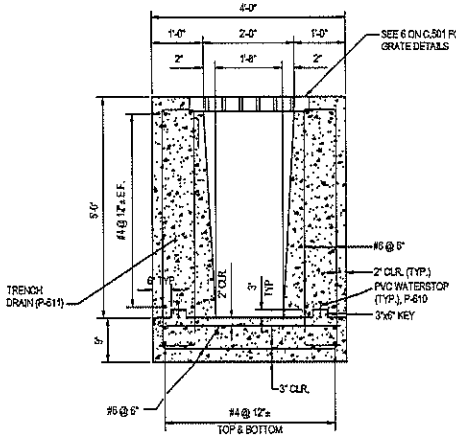
DATE: AUGUST 05, 2019

SCALE: NONE

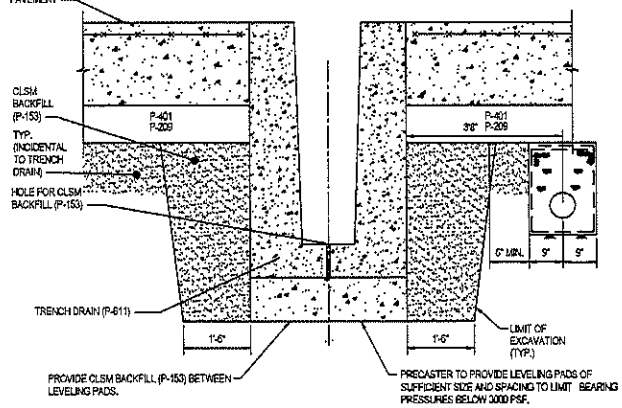
SHEET

C-600

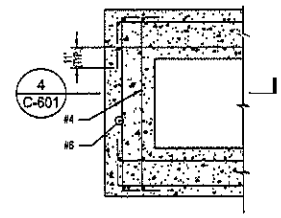
SHEET NOTES:
1. TRENCH DRAIN SHALL BE PRECAST CONCRETE (P-611)
2. APPLY SILANE BASE SEALER ON THE INSIDE OF THE TRENCH DRAIN AND ON THE TRENCH DRAIN COLLAR.



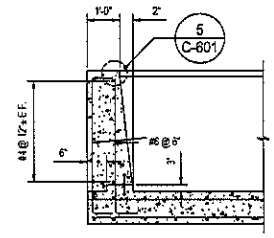
1 C-601 TYPICAL TRENCH DRAIN SECTION
N.T.S.



2 C-601 TYPICAL TRENCH DRAIN SECTION SHOWING FLOWABLE FILL LIMIT
N.T.S.



3 C-601 TYP. END OF TRENCH DRAIN PLAN
N.T.S.



4 C-601 TYP. END OF TRENCH DRAIN SECTION
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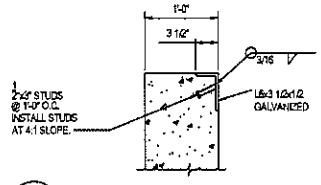
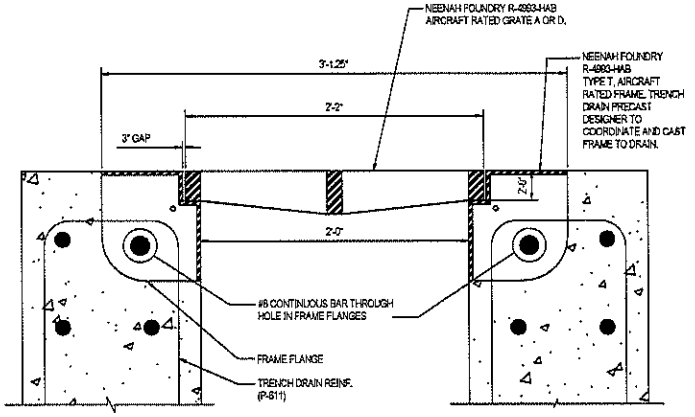
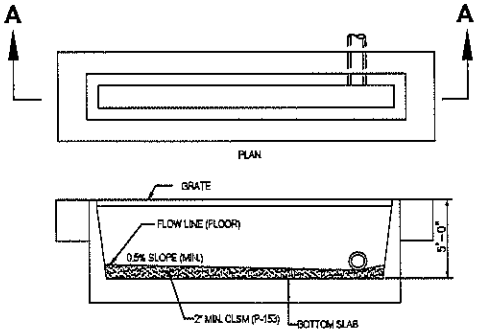


5 C-601 TRENCH DRAIN END WALL DETAIL
N.T.S.



6 C-601 TRENCH DRAIN FRAME AND GRATE
N.T.S.



7 C-601 SECTION A-A (TRENCH DRAIN)
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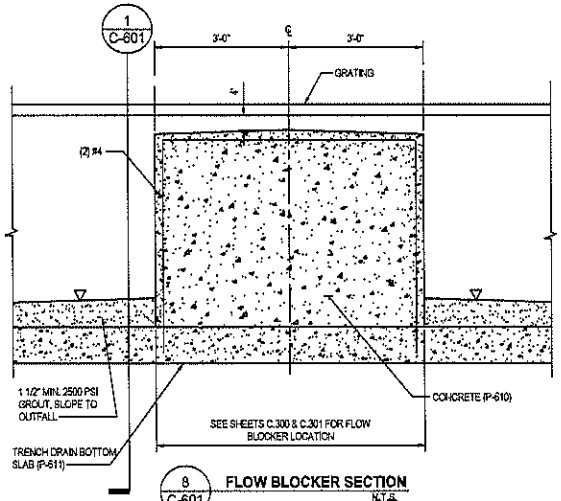

8 C-601 FLOW BLOCKER SECTION
N.T.S.

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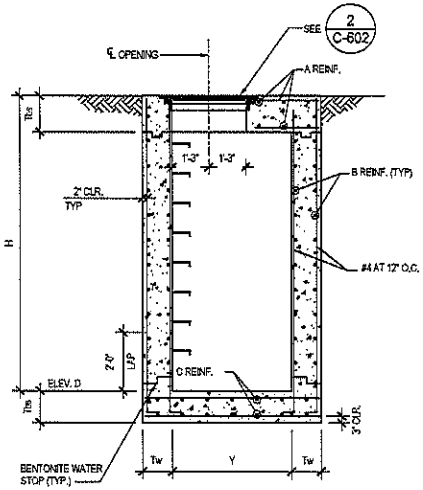
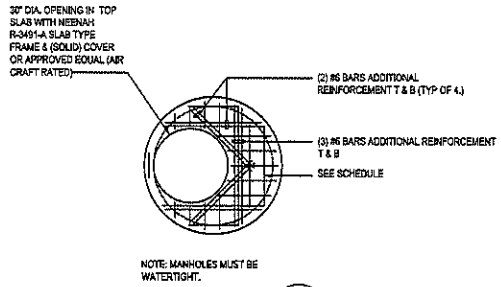
SCALE: NONE

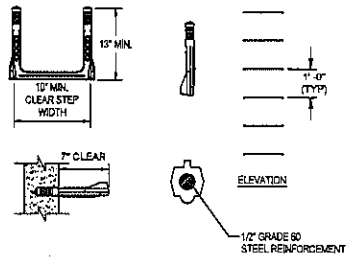
SHEET
C-601



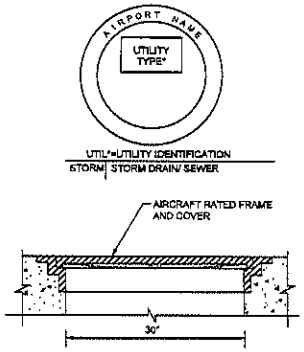
NOTES:
1. STRUCTURE LOAD RATING: AIRCRAFT FAA AC 150/5320-5E APPENDIX 3
2. PROVIDE BENTONITE WATER STOPS OR GASKETS AT ALL JOINTS.
3. PROVIDE CONCRETE CHANNEL AT BOTTOM OF STRUCTURE, 2" PER FOOT MIN SLOPE.
4. BENCH HEIGHT ABOVE OUTGOING PIPE INVERT SHALL BE HALF THE DIAMETER OF THE PIPE.
5. CONNECTION BETWEEN MANHOLE WALL AND PIPE TO BE FLEXIBLE GASKET.
6. 2'-0" MAX FROM FACE OF MANHOLE WALL TO FIRST JOINT OF PIPE.
7. PROVIDE COLLARS AT JOINTS OF PIPES SLOPE GREATER THAN 10 DEGREES TO PREVENT SEPARATION OF JOINTS DURING CONSTRUCTION.
8. DIMENSIONS TO BE DETERMINED DURING DESIGN.

1 C-602 **SHALLOW ROUND MANHOLE VERTICAL CROSS-SECTION**
N.T.S.

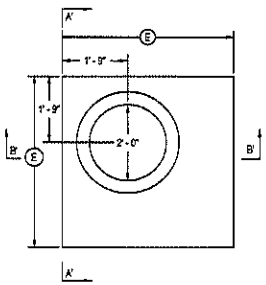




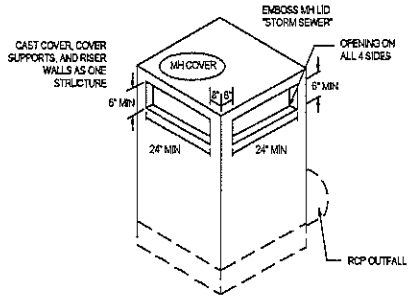
2 C-602 **ROUND LID (AIRCRAFT RATED) REINFORCING LAYOUT PLAN**
N.T.S.



2A C-602 **MANHOLE FRAME AND COVER**
N.T.S.



CONCRETE RISER COVER
PLAN VIEW
NO SCALE



ISOMETRIC VIEW
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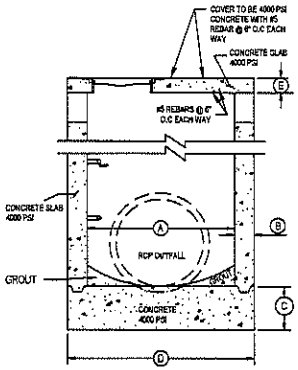
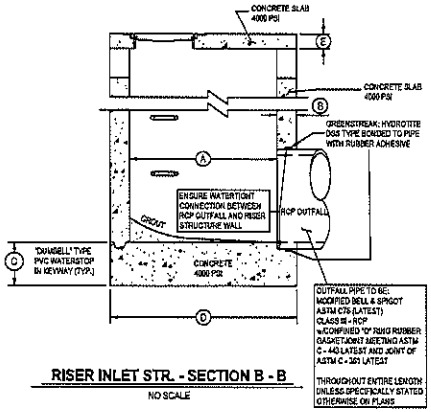


RISER INLET STR. - SECTION A - A
NO SCALE



RISER INLET STR. - SECTION B - B
NO SCALE

DIMENSION	DIMENSION VALUE
A	5' - 0"
B	8 INCHES
C	1.25"
D	6' - 4"
E	9 INCHES

* NO ORIFICE PIPE IN THIS STRUCTURE

3 C-602 **PRIMARY SPILLWAY RISER DETAIL**
N.T.S.

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STORM WATER MANAGEMENT DETAILS - 3

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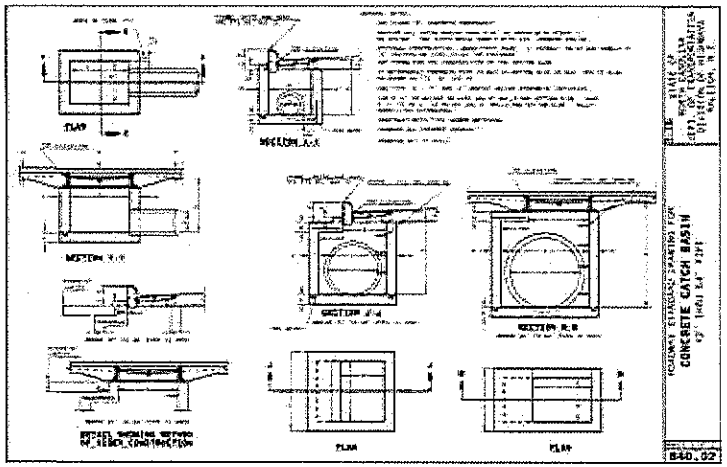
DATE: AUGUST 05, 2019

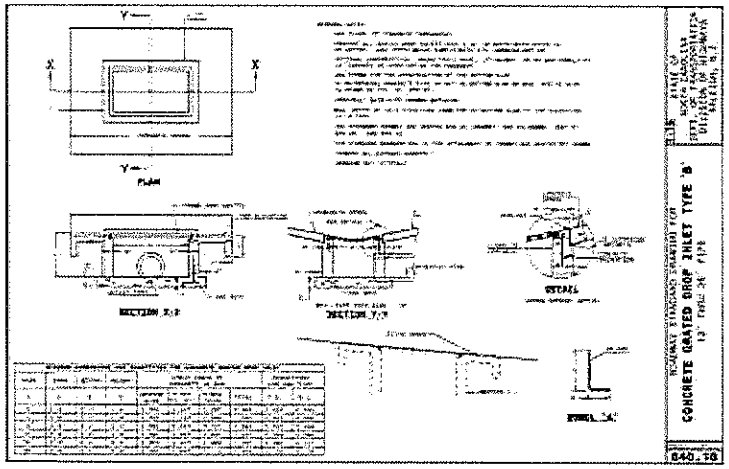
SCALE: NONE

SHEET
C-602



1 C-603 **CURB AND GUTTER INLET**

N.T.S.



2 C-603 **DROP INLET**

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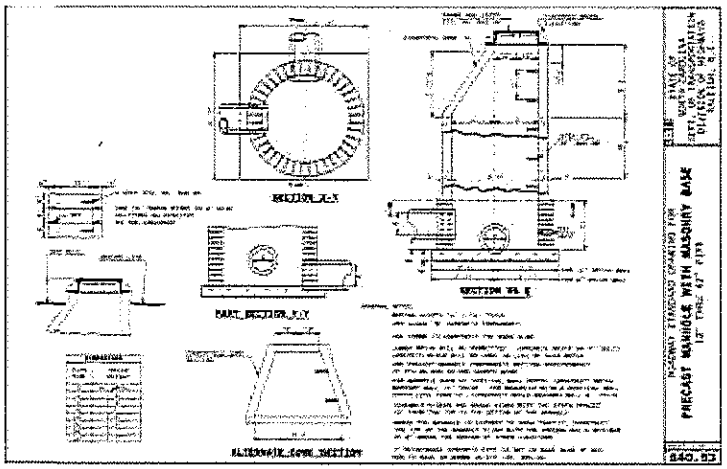
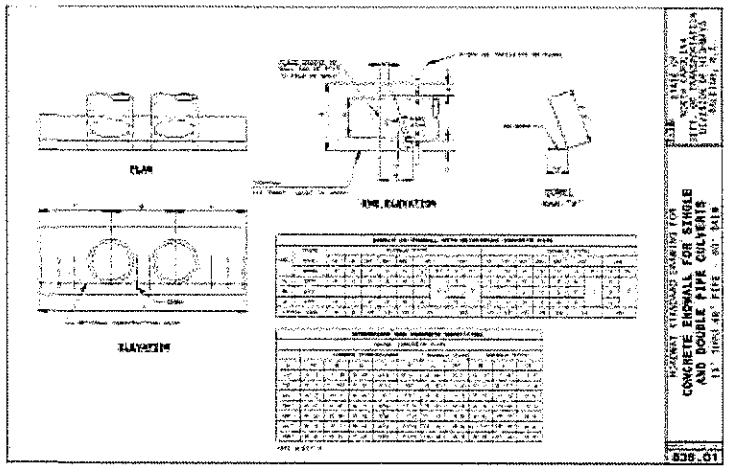


3 C-603 **PRECAST MANHOLE**

N.T.S.



4 C-603 **CONCRETE ENDWALL**

N.T.S.

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STORM WATER MANAGEMENT DETAILS - 4

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DATE: AUGUST 05, 2019

SCALE: NONE

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C-603