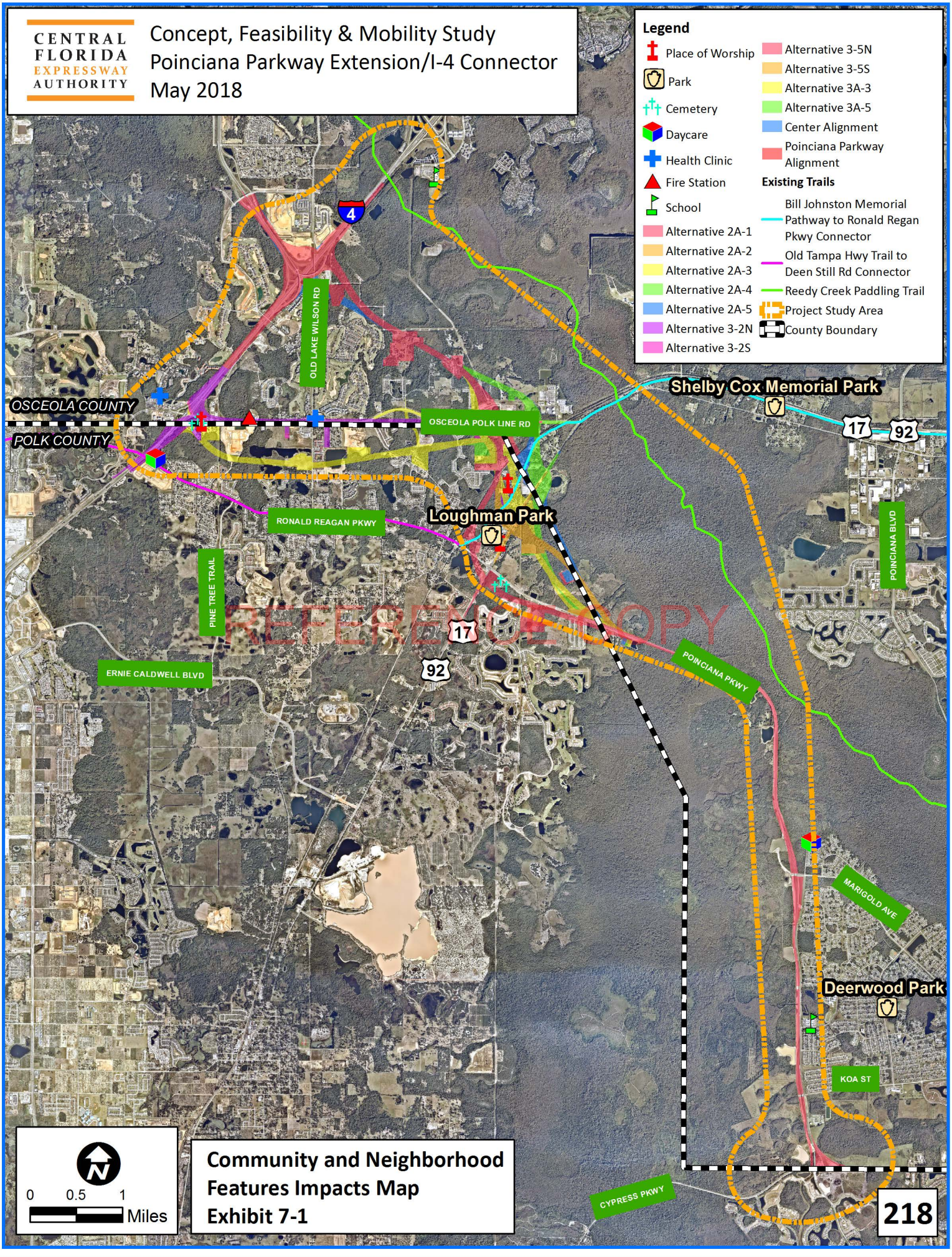

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Alternative 2A-2: ! ă ƛffdzăúNl·úŜŘ ōŜf2ǿΣ / l·ăl· 5Ŝ ŁăNl·Ŝf ¸ l·Nl·K ƛă ƛϒLJl·ŎúŜŘ úKN2dzƎK LJN2LJŜNúè l·Ŏljdzƛăƛúƛ2ϒ l·ăă2ŎƛIl·úŜŘ ǿƛúK ǿƛŘŜyƛyƎ ¦φ{φ мткфн ƛϒúKŜ ØƛŎƛyƛúè 2ŦúKŜ ŜÈLJNŜăăǿl·è ƛyúŜNŎKl·yƎŜΣ ōdzű úKŜ ŎKdzNŎK ōdzƛfŘƛyƎ ƛă y2ű ƛϒLJl·ŎűŜŘφ

REFERENCE COPY

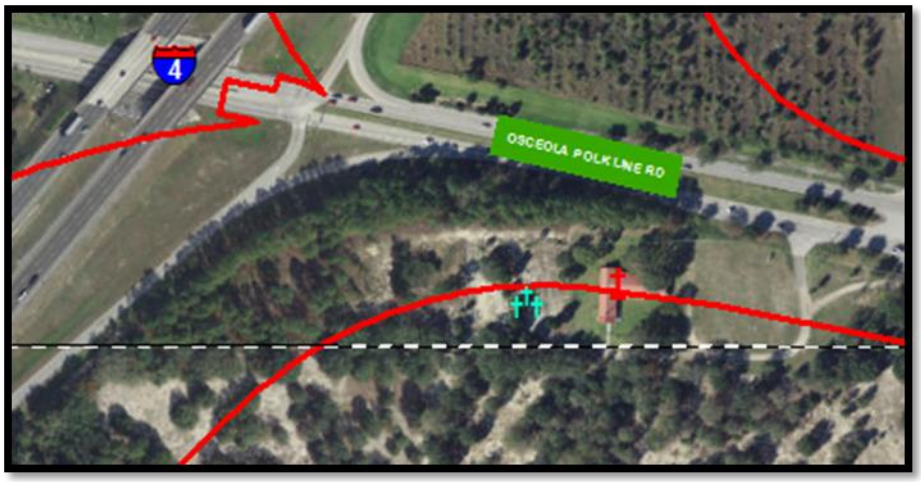
Alternative 2A-3ϒ ! ă ƛffdzăúNl·úŜŘ ōŜf2ǿΣ / l·ăl· 5Ŝ ŁăNl·Ŝf ¸ l·Nl·K ƛă ƛϒLJl·ŎúŜŘ úKN2dzƎK LJN2LJŜNúè l·Ŏljdzƛăƛúƛ2ϒ l·ăă2ŎƛIl·úŜŘ ǿƛúK ǿƛŘŜyƛyƎ ¦φ{φ мткфн ƛϒúKŜ ØƛŎƛyƛúè 2ŦúKŜ ŜÈLJNŜăăǿl·è ƛyúŜNŎKl·yƎŜΣ ōdzű úKŜ ŎKdzNŎK ōdzƛfŘƛyƎ ƛă y2ű ƛϒLJl·ŎűŜŘφ

Alternative 3-2NY ! ă ƛffdzăΰ₪ł·ΰŜŘ ōŜf2ǿΣ / l·ăl· 5Ŝ Lă₪l·Ŝf ¸ l·₪l·K ƛă ƛY˙LJl·ŎΰŜŘ ΰK₪2dzƎK LJ₪2LJŜ₪ΰè l·Ŏljdzƛăƛΰƛ2y˙ l·ăă2ŎƛI·ΰŜŘ ǿƛŘK ǿƛŘŜyƛyƎ ¦φ{φ мтκфн ƛy˙ΰKŜ ØƛŎƛyƛΰè 2ŦΰKŜ ŜÈLJ₪Ŝăăǿl·è ƛyΰŜ₪ŎKl·yƎŜΣ ōdzΰ ΰKŜ ŎKdz₪ŎK ōdzƛfŘƛyƎ ƛă y2ΰ ƛY˙LJl·ŎΰŜŘφ ! ă ƛffdzăΰ₪l·ΰŜŘ ōŜf2ǿΣ l· aƛyΘzΰŜ / fƛyƛŎ ól· KŜl·fΰK ŎfƛyƛŎΰΣ ăK2ǿy˙ōè ΰKŜ ōfdzŜ Ŏ₪2ăăΣ l·yŘ hăŎŜ2fl· /2dzyΰè C₪ŜS 5ŜLJl·₪ΰY˙Ŝyΰ {ΰl·ΰƛ2y˙τoΣ ăK2ǿy˙ōè ΰKŜ ₪ŜŘ ΰ₪ƛl·yƎfŜΣ l·₪Ŝ ƛY˙LJl·ŎΰŜŘ ōè ΰKƛă l·fΰŜ₪yl·ΰƛǾŜφ

REFERENCE COPY

Alternative 3-2S: ¢ø2 ₪ŜfλƎλ2dză ₮I·ÖλfλúλŜă I·₪Ŝ ƛY˙LJI·ŏűŜŘ ōè űKλă I·fűŜ₪yl·úλØŜY / I·ăI· 5Ŝ Lă₪I·Ŝf ¸ I·₪I·K óI·ă ƛffdzăű₪I·ûŜŘ ōŜf2øú I·yŘ űKŜ hI·ʅ Ɩƛffdzăű₪I·ûŜŘ ōŜf2øú¢ ¢KŜ hI·ʅ Ɩƛffdzăű₪I·ûŜŘ ōŜf2øú¢ KdzNǑK óI·ă ƛffdzăű₪I·ûŜŘ ōŜf2øú¢ ¢KŜ hI·ʅ Ɩ

Alternative 3-5S: ! ă ƛffʤzăúNJl·űŜŘ ōŜf2ǿΣ űKƛă l·fűŜNJyƔ·úƛØŜ ƛϒLJl·Ŏűă űKŜ hl·ʅ l ƛff . l·LJűƛăú /KʤzNJŎK l·yŘ /ŜϒŜűŜNJè¢



¢KŜNJŜ ϒl·è ōŜ űŜϒLJ2NJl·NJè ŘƛăNJʤzLJűƛ2yã ŘʤzNJƛyƎ Ŏ2yãúNJʤzŎűƛ2ϒŦ2NJ f2Ŏl·f NJŜŎNJŜl·úƛ2yƔ·f l·yŘ Ŏ2ϒϒʤzyƔúè ŦI·ŎƛfűúƛŜăΣ ōʤzű l·ŎŎŜăă ǿƛff ōŜ ϒl·ƛyűƔl·ƛySŘ¢ ! a l·ƛyűŜyƔ·yŎŜ 2Ŧ ¢NJl·ŦŦƛŎ ó a h¢ú tfl·ϒăK2ʤzfŘ ōŜ LJNJŜLJl·NJŜŘ ű2 ϒƛyƔϒƛÎŜ ŘƛăNJʤzLJűƛ2yã 2ϒűKŜ úNJl·ØŜfűyƎ LJʤzōfűŎ l·yŘ ØƛăƛúŁNJă ű2 úKŜ ŦI·ŎƛfűúƛŜă¢

Community Cohesion

/2ϒϒʤzyƔúè Ŏ2KŜăƛ2ϒƛă úKŜ ŘŜƎNJŜŜ ű2 ǿKƛŎK NJŜăƛŘŜyűă Kl·ØŜ l· ăŜyãŜ 2Ŧ ōŜf2yƎƛyƎ ű2 űKŜƛNJ Ŏ2ϒϒʤzyƔúè¢ /2ϒϒʤzyƔúè Ŏ2KŜăƛ2ϒϒl·è l·fă2 ƛyŎfʤzŘŜ úKŜ ŘŜƎNJŜŜ ű2 ǿKƛŎK yŜƛƎKō2NJă ƛyűŜNJl·Ŏű l·yŘ Ŏ22LJŜNJl·úŜ ǿƛúK 2yŜ l·y2űKŜNJΣ úKŜ fŜØŜf 2Ŧ l·űűl·ŎKϒŜyű ŦŜfü ōŜűǿŜŜyNJŜăƛŘŜyűă l·yŘ ƛyãűƛúʤzúƛ2yã ƛyϒúKŜ Ŏ2ϒϒʤzyƔúèΣ l· ăŜyãŜ 2Ŧ Ŏ2ϒϒ2ϒōŜf2yƎƛyƎΣ l·yŘ Ŏʤzfúʤzl·f ăƛϒƛfl·NJúè 2NJ ű2ƎŜűKŜNJySăă ŜÈLJŜNJƛŜyŎŜŘ ōè úKŜ LJ2LJʤzfl·úƛ2y¢ LyϒƎŜyŜNJl·fΣ úKŜ l·fűŜNJyƔ·úƛØŜă úKl·ű ōƛăŜŎű 2NJ ŜÈűŜyŘ úKNJ2ʤzƎKΣ l·ă 2LJLJ2ăŜŘ ű2 l·NJ2dzyŘΣ úKŜ [2ʤzƎKϒl·yϒŎ2ϒϒʤzyƔúè Kl·ØŜ l· ƎNJŜl·ûŜNJ ƛϒLJl·Ŏű ű2 Ŏ2ϒϒʤzyƔúè Ŏ2KŜăƛ2ϒóн ! πмΣ н ! πнΣ н ! πoΣ oπнb l·yŘ oπн{ú¢ ¢KŜ 2űKŜNJ l·fűŜNJyƔ·úƛØŜă Kl·ØŜ l· f2ǿ ű2 ϒ2ŘŜNJl·ûŜ ŜŦŦŜŎű 2yϒŎ2ϒϒʤzyƔúè Ŏ2KŜăƛ2ϒŜƛúKŜNJ ōŜŎl·dzăŜ úKŜè Ŧ2ff2ǿ ŜÈƛăűƛyƎ NJ21·Řă 2NJ l·NJŜ ǿƛúKƛϒ l·NJŜl·ă úKl·ű l·NJŜ ƛϒŎ2yãŜNJØl·úƛ2ϒ2NJ l·NJŜ 2úKŜNJǿƛăŜ dzyŘŜØŜf2LJŜŘ¢ ! ű úKŜ NJŜljdzŜăű 2Ŧ úKŜ [2ʤzƎKϒl·yϒŎ2ϒϒʤzyƔúè fŜl·ŘŜNJăΣ l· yŜƛƎKō2NJK22Ř ϒŜŜűƛyƎ ǿl·ă KŜfŘ ű2 NJŜØƛŜǿ úKŜ l·fűŜNJyƔ·úƛØŜă ōŜƛyƎ ŜØl·fʤzl·úŜŘ l·yŘ úKŜ ŜŦŦŜŎűă 2yϒúKŜ [2ʤzƎKϒl·yϒŎ2ϒϒʤzyƔúè¢ /2yŎŜNJyã ǿŜNJŜ NJl·ƛăŜŘ úKl·ű úKŜ LJNJ2ȩŜŎű ϒl·è ƛϒLJl·Ŏű ŦŜl·úʤzNJŜă óōʤzƛfŘƛyƎăΣ K2ϒŜăΣ l·yŘ úKŜ [2ʤzƎKϒl·yϒ/ŜϒŜűŜNJèú 2NJ ŦʤzNJúKŜNJ ŘƛØƛŘŜ úKŜ ŎŽϒϒʤzyƔúèT ăŜLJl·NJl·úƛyƎ ŦI·ϒƛfŒŜă 2yϒŜƛúKŜNJ ăƛŘŜ 2Ŧ úKŜ ŜÈLJNJŜăăǿl·è¢ ¢KƛăŎŽϒϒʤzyƔúè Kl·ă l· ăűNJ2yƎ ăŜyãŜ 2Ŧ ű2ƎŜűKŜNJySăă l·yŘ Kƛăúƛ2NJè l·yŘ ŜÈLJNJŜăăŜŘ úKl·ű ŘŜØŜf2LJϒŜyű LJNJŜăăʤzNJŜă ŦNJ2ϒ úKŜ 5l·ØŜyLJ2NJű !NJŜl·Σ t2ƛyŎƛl·yl·Σ l·yŘ dzűƛfúè Ŏ2yãúNJʤzŎűƛ2yϒ Kl·ØŜ l·fNJŜl·Řè ŘƛØƛŘŜŘ úKŜ Kƛăú2NJƛŎ l·NJŜl· 2Ŧ [2ʤzƎKϒl·yϒl·yŘ úKƛă LJNJ2ȩŜŎű Ŏ2ʤzfŘ NJŜăʤzfű ƛyϒl·ŘŘƛűƛ2yl·f ƛϒLJl·Ŏűă¢ ¢KƛăŎŽϒϒʤzyƔúè ƛă l·fă2 Ŏ2yãƛŘŜNJŜŘ l· ϒƛyƔ2NJúè l·yŘ f2ǿ ƛyŎ2ϒŜ ŎŽϒϒʤzyƔúèΣ l·ă ǿŜff l·ă l·yϒŜyØNJ2yϒϒŜyűl·f ʤzăűƛŎŜ Ŏ2ϒϒʤzyƔúè¢

T¢H¢H / ¦ [¢ ¦w! [w9{h ¦w/9{

¢KNJŜŜ fƛyŜl·NJ NJŜă2ʤzNJŎŜăΣ úKŜ {2ʤzűK Cf2NJƛŘl· wl·ƛfNJ2l·Ř l·yŘ úKŜ hfŘ YƛăăƛϒϒŜŜ w2l·ŘκhfŘ ¢l·YLJl· . l·è l ƛƎKǿl·è óűKƛă NJŜă2ʤzNJŎŜ ăă ŘƛØƛŘŜŘ ƛyű2 űǿ2 ăŜƎϒŜyűăúΣ ŜÈűŜyŘ űKNJ2ʤzƎK űKŜ ŎŜyűNJl·f LJ2NJűƛ2yϒ2Ŧ úKŜ ăűʤzŘè l·NJŜl· l·yŘ l·NJŜ ƛϒLJl·ŎűŜŘ ōè l·ff LJNJ2LJ2ăŜŘ l·fűŜNJyl·úƛØŜă¢ ! ŘŘƛűƛ2yl·f Ŏʤzfűʤzl·f NJŜă2ʤzNJŎŜă ƛyŎfʤzŘŜ l· Kƛăú2NJƛŎ yŜƛƎKō2NJK22Ř l·f2yƎ ¦{¢ l ƛƎKǿl·è мτκфнΣ y2NJűK 2Ŧ t2ƛyŎƛl·yl· t l·NJʅǿl·èΣ úKl·ű Ŏ2yűl·ƛyã ϒʤzfűƛLJfŜ ăűNJʤzŎűʤzNJŜă úKl·ű ϒl·è ōŜ ƛϒLJl·ŎűŜŘ ōè LJNJ2LJ2ăŜŘ l·fűŜNJyl·úƛØŜă ǿƛúK l·ŘŘƛűƛ2yl·f ăűNJʤzŎűʤzNJŜă l·Ř?l·ŎŜyű ű2 LJNJ2LJ2ăŜŘ l·fűŜNJyl·úƛØŜă¢ adzfűƛLJfŜ Kƛăú2NJƛŎ ŎŜϒŜűŜNJŜă ŜÈƛăű ǿƛúKƛyűKŜ ăűʤzŘè l·NJŜl·Σ ƛyŎfʤzŘƛyƎ úKŜ YƛyŷŜè l l·NJϒ2ϒw2l·Ř /ŜϒŜűŜNJè ǿƛúKƛyűKŜ ŎŜyűNJl·f LJ2NJűƛ2yϒ2Ŧ úKŜ ăűʤzŘè l·NJŜl·Σ l·ă ǿŜff l·ă úKŜ hl·ʅ l ƛff . l·LJűƛăú /KʤzNJŎK /ŜϒŜűŜNJè ƛyűKŜ

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yƵℕúKøŜăúŜℕyˇLJƵℕúλ2yˇ2Ŧ úKŜ ăűdzŘè I·ℕŜI·φ **Table 7-11** ăK2øă úKŜ ˥yƵøyˇKλăű2ℕλŎ I·yŘ I·ℕŎKI·Ŝƶf2ƎλŎI·f ℕŜă2dzℕŎŜă I·yŘ úKŜ λYˇLJI·Ŏűă ōè I·fúŜℕyl·úλØŜφ

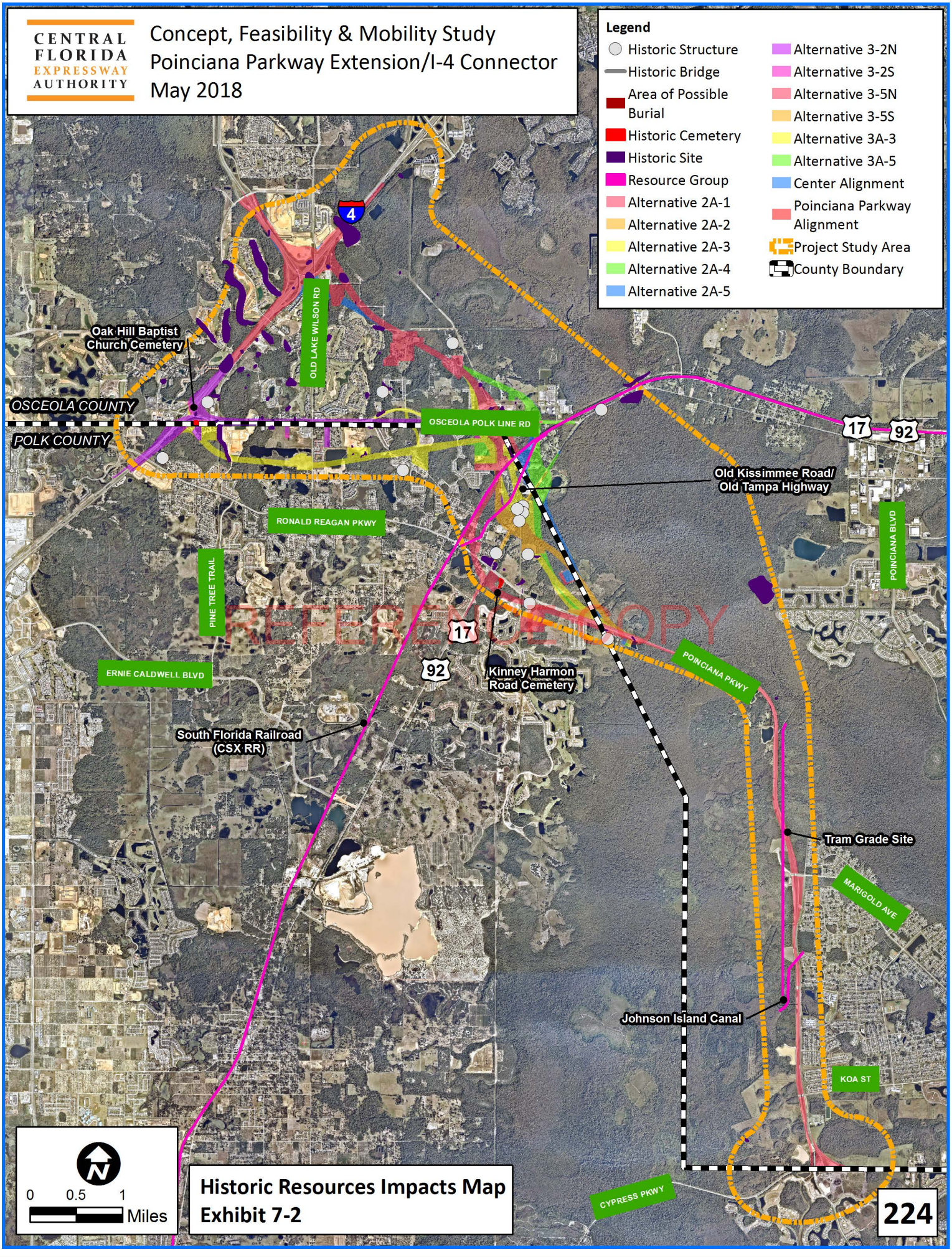
Table 7-11: Cf2ℕλŘI· a l·ăúŜℕ {λúŜ CλfŜ óC a {Cú wŜă2dzℕŎŜă LYˇLJI·ŎűŜŘ ōè ! fűŜℕyl·úλØŜ

FMSF No.	Resource Name	Resource Type	State Historic Preservation Officer (SHPO) Evaluation	Alternative Name
yh{лллпу	5λăyŜè ² 2ℕfŘ п	! ℕŎKI·Ŝ2f2ƎλŎI·f {λúŜ	b2ű 9ØI·fdzI·úŜŘ	оπнbΣ оπн{
yh{лллфо	hăŎŜ2fI· t2λyűŜ м	! ℕŎKI·Ŝ2f2ƎλŎI·f {λúŜ	b2ű 9ØI·fdzI·úŜŘ	н ! πмΣ н ! πнΣ н ! поΣ н ! ппΣ н ! пр
yh{ллмлл	DI·ăLJ	! ℕŎKI·Ŝ2f2ƎλŎI·f {λúŜ	b2ű 9ØI·fdzI·úŜŘ	н ! πмΣ н ! πнΣ н ! поΣ н ! ппΣ н ! пр
yh{ллммо	I ŜÈI·Ǝ2y / Ŝyűŝℕ мм	! ℕŎKI·Ŝ2f2ƎλŎI·f {λúŜ	b2ű 9ØI·fdzI·úŜŘ	оπнbΣ оπpb
yh{ллсмо	5I·ØŜyLJ2ℕú {øI·YLJ	! ℕŎKI·Ŝ2f2ƎλŎI·f {λúŜ	b2ű 9ØI·fdzI·úŜŘ	н ! πмΣ н ! πнΣ н ! поΣ н ! ппΣ н ! пр
yh{лнрпл	{2dzűK Cf2ℕλŘI· wI·λ€ℕ2I·Ř	[λyŜI·ℕ wŜă2dzℕŎŜ	9fλƎλōfŜ Ŧ2ℕ bw I t	н ! ппΣ н ! прΣ оppbΣ опp{Σ o ! пр
yh{лнрст	hfŘ YλăăλYˇYˇŜŜ w2I·ŘkhfŘ ¢I·YLJI· I λƎKøI·è	[λyŜI·ℕ wŜă2dzℕŎŜ	LyƵdzŦŦλŎλŜyű LyŦ2ℕYˇI·úλ2yˇ	н ! ппΣ н ! прΣ оppbΣ опp{Σ o ! пр
ythлтмрп	hfŘ YλăăλYˇYˇŜŜ w2I·ŘkhfŘ ¢I·YLJI· I λƎKøI·è	[λyŜI·ℕ wŜă2dzℕŎŜ	LyƵdzŦŦλŎλŜyű LyŦ2ℕYˇI·úλ2yˇ	н ! πмΣ н ! πнΣ н ! поΣ н ! прΣ оπнbΣ оπн{Σ оppbΣ опp{Σ o ! поΣ o ! пр

REFERENCE COPY

¢KŜ YλyyŜè I I·ℕYˇ2yˇw2I·Ř / ŜYˇŜúŜℕè óy t hлмрмфúΣ I·fűK2dzƎK y2ű f2ŎI·úŜŘ ŘλℕŜŎűfè øλúKλyˇI·yê 2Ŧ úKŜ ! fűŜℕyl·úλØŜăΣ λă I·Ř2I·ŎŜyű ű2 ! fűŜℕyl·úλØŜ н ! πмφ ¢Kλă ŎŜYˇŜúŜℕè λă bI·úλ2yl·f wŜƎλăűŜℕ 2Ŧ I λăű2ℕλŎ tfI·ŎŜă óbw I tú ŜfλƎλōfŜ Ŧ2ℕ λúă I·ăă2ŎλI·úλ2yˇøλúK úKŜ ø2ℕ˥ă 2Ŧ ½2ℕI· bŜI·fŜ I dzℕăű2yˇI·yŘ ! ŦℕλŎI·yπ ! YˇŜℕλŎI·yˇōdzℕλI·f LJℕI·ŎűλŎŜăφ ¢KŜ ℕŜŎŜyű ø2ℕ˥ Ŏ2yŘdzŎűŜŘ ōè {9 ! w / I Σ LyŎφ ℕŜădzfűŜŘ λyˇI· YˇƵŘλŦλŜŘ ℕŜŎƵYˇYˇŜyŘŜŘ LJℕŜăŜℕØI·úλ2yˇ ō2dzyŘI·ℕè Ŧ2ℕ úKŜ ŎŜYˇŜúŜℕèφ

LYˇLJI·ŎűăúƵ Kλăű2ℕλŎ ℕŜă2dzℕŎŜă øλúKλyˇúKŜ ăúdzŘè I·ℕŜI· I·ℕŜ ŘλăLJfI·èŜŘ 2yˇ **Exhibit 7-2**φ


CENTRAL FLORIDA EXPRESSWAY AUTHORITY
Concept, Feasibility & Mobility Study
Poinciana Parkway Extension/I-4 Connector
May 2018
Legend
Historic Structure
Historic Bridge
Area of Possible Burial
Historic Cemetery
Historic Site
Resource Group
Alternative 2A-1
Alternative 2A-2
Alternative 2A-3
Alternative 2A-4
Alternative 2A-5
Alternative 3-2N
Alternative 3-2S
Alternative 3-5N
Alternative 3-5S
Alternative 3A-3
Alternative 3A-5
Center Alignment
Poinciana Parkway Alignment
Project Study Area
County Boundary
Oak Hill Baptist Church Cemetery
OLD LAKE WILSON RD
OSCEOLA COUNTY
POLK COUNTY
OSCEOLA POLK LINE RD
Old Kissimmee Road/ Old Tampa Highway
RONALD REAGAN PKWY
PINE TREE TRAIL
POINCIANA BLVD
ERNIE CALDWELL BLVD
Kinney Harmon Road Cemetery
South Florida Railroad (CSX RR)
POINCIANA PKWY
Tram Grade Site
MARIGOLD AVE
Johnson Island Canal
KOA ST
CYPRESS PKWY
4
17
92
0 0.5 1 Miles
Historic Resources Impacts Map
Exhibit 7-2
224

T⌀H⌀H⌀M I L{¢hwL/ ! [

LY I·ŘŘλΰλ2Y ΰK Ŝ λY₮2NY I·ΰλ2Y I·ō2ØÊ {9 ! w/ I Σ LYÕ⌀ λŘŜYΰλ₮ΛŜŘ dzYNŜÕ2NŘŜŘ NŜă2dzNÕŜă ΰKN2dzƎK2dzΰ ΰK Ŝ ăΰdzŘè I·NŜI· ΰKI·ΰ 2ÕÕdzN ØλΰKλY ΰK Ŝ I·fΰŜNY1·ΰλØŜ I·fΛƎyY Ŝyΰăó**Table 7-12**ú⌀ ¢KŜăŜ dzYNŜÕ2NŘŜŘ NŜă2dzNÕŜă Õ2yãλăΰ 2₮ ăΰNdzÕΰdzNŜă Õ2yãΰNdzÕΰŜŘ LJNλ2N ΰ2 мфтоΣ ōI·ăŜŘ 2Y I· NŜØλŜø 2₮ ΰK Ŝ t2f] /2dzyΰè I·yŘ hăÕŜ2fI· /2dzyΰè tN2LJŜNΰè ! LJLJNI·λăŜNΰăΩ DL{ ŘI·ΰI·ōI·ăŜăΣ ØKλÕK KŜfLJŜŘ f2ÕI·ΰŜ ăλyƎfŜπ₮I·Yλfè Y dzfΰλπ₮I·Yλfè I·yŘ Y2ōλfŜ K2YŜăΣ I·ă ØŜft I·ă I· LJI·NÕŜf 2₮ ăΰ2NŜăΣ I·yŘ ΰø2 LJI·NÕŜfă 2₮ ƎNI·ÎλyƎ fI·yŘ⌀ ! ŘŘλΰλ2yI·f dzYNŜÕ2NŘŜŘ NŜă2dzNÕŜă ØŜNŜ f2ÕI·ΰŜŘ ōè I· NŜØλŜø 2₮ ¦ yλΰŜŘ {ΰI·ΰŜă DŜ2f2ƎλÕI·f {dzNØŜè ó ¦ {D{ú Kλăΰ2NλÕ I·ŜNλI·f LJK2ΰ2ƎNI·LJKă ₣N2Y мфрл ăK2øλyƎ 2ΰKŜN LJ2ΰŜyΰλI·f Kλăΰ2NλÕ NŜă2dzNÕŜă Õ2yãλăΰλyƎ 2₮ ÕKdzNÕKŜăΣ dzYNŜÕ2NŘŜŘ fλyŜI·N NŜă2dzNÕŜăΣ I·yŘ I·ŘŘλΰλ2yI·f LJI·ØŜŘ I·yŘ dzYLJI·ØŜŘ N2I·Ră ΰKI·ΰ Y I·è yŜŜŘ I·ŘŘλΰλ2yI·f ăΰdzŘè⌀

Table 7-12: t2ΰŜyΰλI·f I λăΰ2NλÕ wŜă2dzNÕŜă

Alternatives	Previously Recorded Resources	Unrecorded Resources		
	Linear Resource	County Property Appraiser Historic-Age Parcels	Other Potential Historic Resources	Total Unrecorded Resources
b2 . dzλfŘ	л	л	л	л
н ! πм	м	мл	н	мн
н ! πн	м	п	м	р
н ! πо	м	мр	м	мс
н ! пп	н	о	н	р
н ! πр	о	с	н	у
опнb	м	р	м	с
опн{	м	р	м	с
опрb	о	мн	н	мо
опр{	о	р	н	т
о ! πо	м	н	м	о
о ! πр	о	н	о	р

REFERENCE COPY

T⌀H⌀H⌀H ! w/ I ! 9h[hDL/ ! [

! NÕKI·Ŝ2f2ƎλÕI·f NŜă2dzNÕŜă ₮2dzyŘ ØλΰKλYΰKŜ ăΰdzŘè I·NŜI· ØŜNŜ λŘŜYΰλ₮ΛŜŘ ΰKN2dzƎK LJNŜØλ2dză ÕdzfΰdzNI·f NŜă2dzNÕŜ ădzNØŜèă I·yŘ NŜØλŜø 2₮ C a {C ŘI·ΰI·⌀ ¢K2ăŜ I·NÕKI·Ŝ2f2ƎλÕI·f NŜă2dzNÕŜă λYLJI·ÕΰŜŘ ōè ΰKŜ LJ2ΰŜyΰλI·f I·fΰŜNyI·ΰλØŜă ó I·yŘ λŘŜyΰλ₮ΛŜŘ ōè {9 ! w/ I Σ LyÕ⌀ I·ă ŜfλƎλōfŜ ₮2N fλăΰλyƎ 2yΰKŜ bw I t 2N NŜIjdzNλyƎ I·ŘŘλΰλ2yI·f ŜØI·fdzI·ΰλ2yΰΣ I·NŜ I·ÖÕ2dzyΰŜŘ ₮2N λY**Table 7-13**⌀

Table 7-13: ! ŇŎKI·Ŝ2f2ƎλŎI·f wŜă2dzŇŎŜă LϒLJI·ŎűŜŘ ōè ! fűŜŇyϒ1·ûλØŜ

Alternatives	Impacts
b2 . dzλftŘ	л
н ! πм	o
н ! πн	o
н ! πo	o
н ! πп	o
н ! πp	o
oπнb	н
oπн{	л
oπpb	н
oπp{	л
o ! πo	л
o ! πp	л

LϒƎŜyŜŇI·fΣ ûKŜ н ! πм ûKŇ2dzƎK н ! πp I·fűŜŇyϒ1·ûλØŜă KI·ØŜ I· KλƎKŜŇ LJ2ûŜyűλI·f û2 λϒLJI·Ŏű I·ŇŎKI·Ŝ2f2ƎλŎI·f ŇŜă2dzŇŎŜă ŘdzŜ û2 ûKŜ yűzϒōŜŇ 2Ŧ LJ2ûŜyűλI·f ŇŜă2dzŇŎŜă I·Ň2dzyŘ ûKŜ Lπnκ{ΦwΦ πнф λyűŜŇŎKI·yƎŜΦ ! ff I·fűŜŇyϒ1·ûλØŜă KI·ØŜ I· f2ø û2 Ϋ2ŘŜŇI·ûŜ LJ2ûŜyűλI·f Ŧ2Ň λϒLJI·ŎűλyƎ ϒ]ϒ2øϒKλăű2ŇλŎ ŇŜă2dzŇŎŜă ŜĖŎŜLJű Ŧ2Ň н ! πpΣ oπpbΣ oπp{Σ I·yŘ o ! πpΣ øKλŎK ŇŜădztű λyϒ2ŇŜ λϒLJI·Ŏűă û2 fλyŜI·Ň ŇŜă2dzŇŎŜă ó{2dzűK Cf2ŇλŘI· wI·λfŇ2I·Ř I·yŘ htŘ ¢I·ϒLJI· I λƎKøI·èκhtŘ Yλăăλ ϒϒŜŜ w2I·Řú ōŜŎI·dzâŜ ûKŜè ŎŇ2ăă htŘ ¢I·ϒLJI· I λƎKøI·èκhtŘ Yλăăλ ϒϒŜŜ w2I·Ř øKŜŇŜ ûKŜ ûø2 Ň2I·Ř ăŜƎϒŜyűă ⁄2λyΦ ! ă ŘλăŎdzăăŜŘ I·ō2ØŜΣ ûKŜŇŜ λă I· LJ2ûŜyűλI·f Ŧ2Ň dzy]ϒ2øyϒKλăű2ŇλŎ ŇŜă2dzŇŎŜă û2 2ÖÖdzŇΦ ¢Kλă λă ŜăLJŜŎλI·ffè ûŇdzŜ λϒûKŜ I·ŇŜI· I·Ň2dzyŘ ¦{Φ мтκфн I·yŘ ûKŜ [2dzƎKϒI·yϒ ! ŇŜI·Φ ! / dzfűdzŇI·f wŜă2dzŇŎŜ ! ăăŜăăϒŜyű {dzŇØŜè ó/w ! {ú ø2dzfŘ ōŜ Ŏ2yŘdzŎűŜŘ ŘdzŇλyƎ ûKŜ t5ƨ9 tKI·ăŜ 2Ŧ ûKŜ LJŇ2⁄ŜŎű I·yŘ Ŏ2yădzfűI·ûλ2ϒ øλúK ûKŜ {űI·ûŜ I λăű2ŇλŎ tŇŜăŜŇØI·ûλ2ϒ hŦŦλÔŜ ó{ I thú øλff ōŜ ŇŜIjdzŇŇŜŘ û2 I·ŘŘŇŜăă LJŇ2⁄ŜŎűπŇŜfI·ûŜŘ ŜŦŦŜŎűă û2 Kλăű2ŇλŎ I·yŘ I·ŇŎKI·Ŝ2f2ƎλŎI·f ŇŜă2dzŇŎŜă Φ

тΦнΦo 9 a 9wD9b / ¸ {9w±L / 9{

Lű λă I·yűλŎλLJI·ûŜŘ ûKI·ú ŜϒŜŇƎŜyŎè ŇŜăLJ2yãŜ ûλϒŜă ø2dzfŘ λϒLJŇ2ØŜ øλúK I·ff I·fűŜŇyϒ1·ûλØŜă ŘdzŜ û2 I· ŇŜŘdzŎűλ2ϒ λϒűŇI·ŦŦλŎ Ŏ2yƎŜăűλ2ϒ2ϒf2ŎI·f Ň2I·Ră λϒűKŜ ăűdzŘè I·ŇŜI· ŇŜădztűλyƎ λϒŘŜŎŇŜI·ăŜŘ űŇI·ØŜf ûλϒŜă Φ

7.3 NOISE

LŦ ûKλă LJŇ2⁄ŜŎű Ϋ2ØŜă Ŧ2ŇøI·ŇŘ λyű2 ûKŜ t5ƨ9 tKI·ăŜΣ I· b2λăŜ {údzŘè wŜLJ2Ňú øλff ōŜ LJŇŜLJI·ŇŜŘ I·yŘ Ŏ2yŘdzŎűŜŘ ăŜLJI·ŇI·ûŜfè λϒI·ŎŎ2ŇŘI·yŎŜ øλúK I·LJLJfλŎI·ōfŜ f2ŎI·fΣ ăűI·ûŜΣ I·yŘ ŦŜŘŜŇI·f ŇŜIjdzλŇŜϒŜyűăΦ

7.4 AIR QUALITY

LŦ ûKλă LJŇ2⁄ŜŎű Ϋ2ØŜă Ŧ2ŇøI·ŇŘ λyű2 ûKŜ t5ƨ9 tKI·ăŜΣ I·yΓI·λŇ IjdzI·fλúè ŇŜØλŜø øλff ōŜ Ŏ2yŘdzŎűŜŘ Ŧ2Ň ûKŜ LJŇ2LJ2ăŜŘ I·fűŜŇyϒ1·ûλØŜΦ ¢KŜ ăűdzŘè I·ŇŜI· ăă fŽŎI·ûŜŘ øλúKλyΓI·yΓI·ŇŜI· ŘŜăλƎyϒ1·ûŜŘ I·ă ōŜλyƎ λyΓI·ûűI·λyϒŜyű Ŧ2Ň ûKŜ Ŧ2ff2øλyƎ ŎŇλûŜŇăI· I·λŇ LJ2ffdzűI·yűăϒ 2Î2yŜΣ yûŇŇ2ƎŜyΓŘλ2ĖλŘŜΣ LJI·ŇûλŎdzfI·ûŜ ϒI·ûûŜŇΣ ădzfŦdzŇ Řλ2ĖλŘŜΣ ŎI·Ň ō2yΓ ϒ2y2ĖλŘŜΣ I·yŘ fŜI·Řφ ⁄2yãúŇdzŎűλ2yΓI·ŎûλØλûλŜă Ŏ2dzfŘ ŎI·dzăŜ ăK2ŇûπûŜŇϒ I·λŇ IjdzI·fλúè λϒLJI·Ŏűă λyΓûKŜ Ŧ2Ň ϒ 2Ŧ Řdzăΰ ŦŇ2ϒ ŜI·ŇûKø2Ň] I·yŘ dzyLJI·ØŜŘ Ň2I·Răφ ¢KŜăŜ λϒLJI·Ŏűă øλff ōŜ ϒλyλϒλÎŜŘ ōè I·ŘKŜŇŜyŎŜ û2 I·ff I·LJLJfλŎI·ōfŜ {űI·ûŜ I·yŘ f2ŎI·f ŇŜƎdzfI·ûλ2yã I·yŘ û2 ûKŜ {űI·yŘI·ŇŘ {LJŜŎλŦλŎI·ûλ2yã Ŧ2Ň w2I·Ř I·yŘ . ŇλŘƎŜ ⁄2yãúŇdzŎűλ2yΦ

FREE-BRIDGE LIBRARY

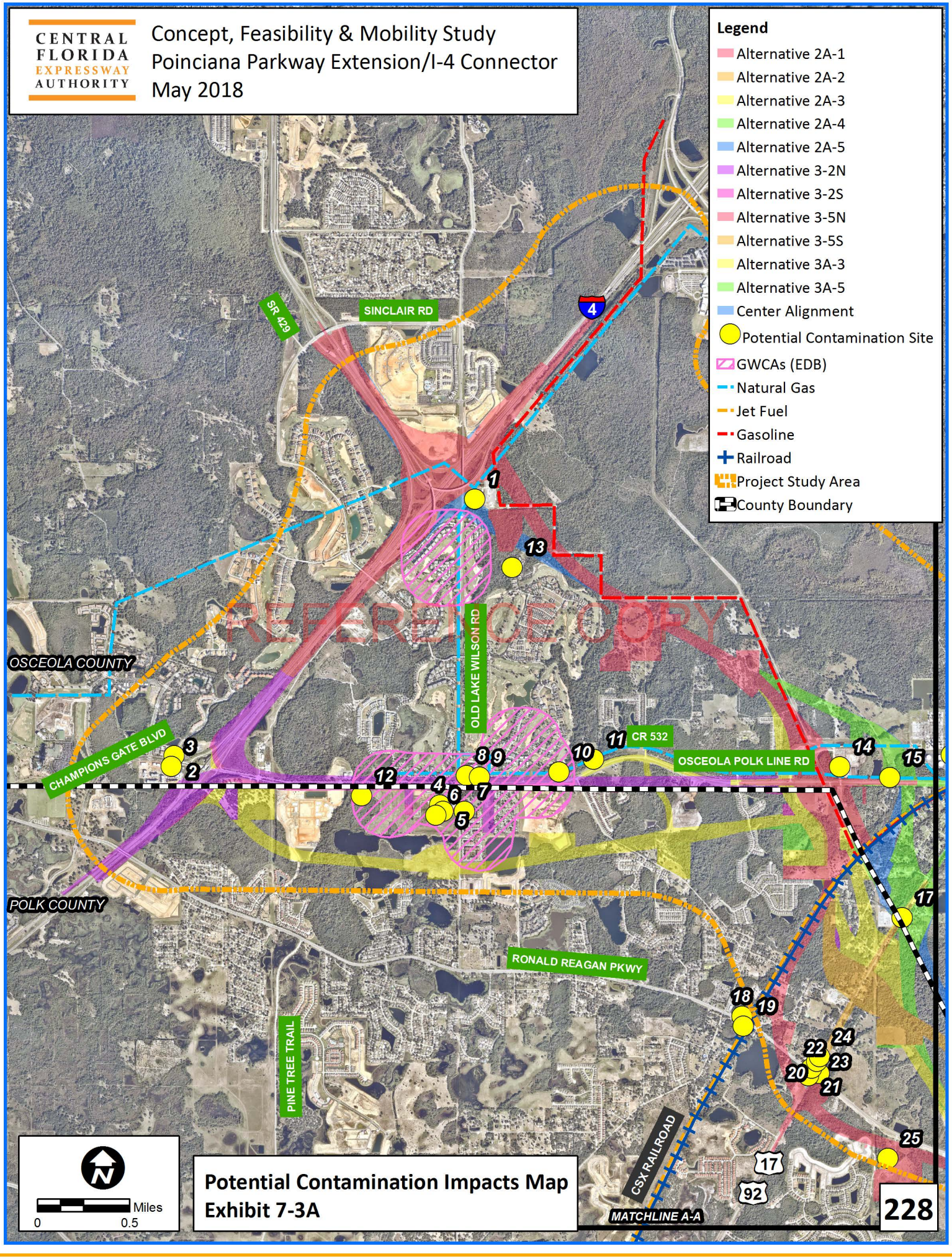
7.5 CONTAMINATION

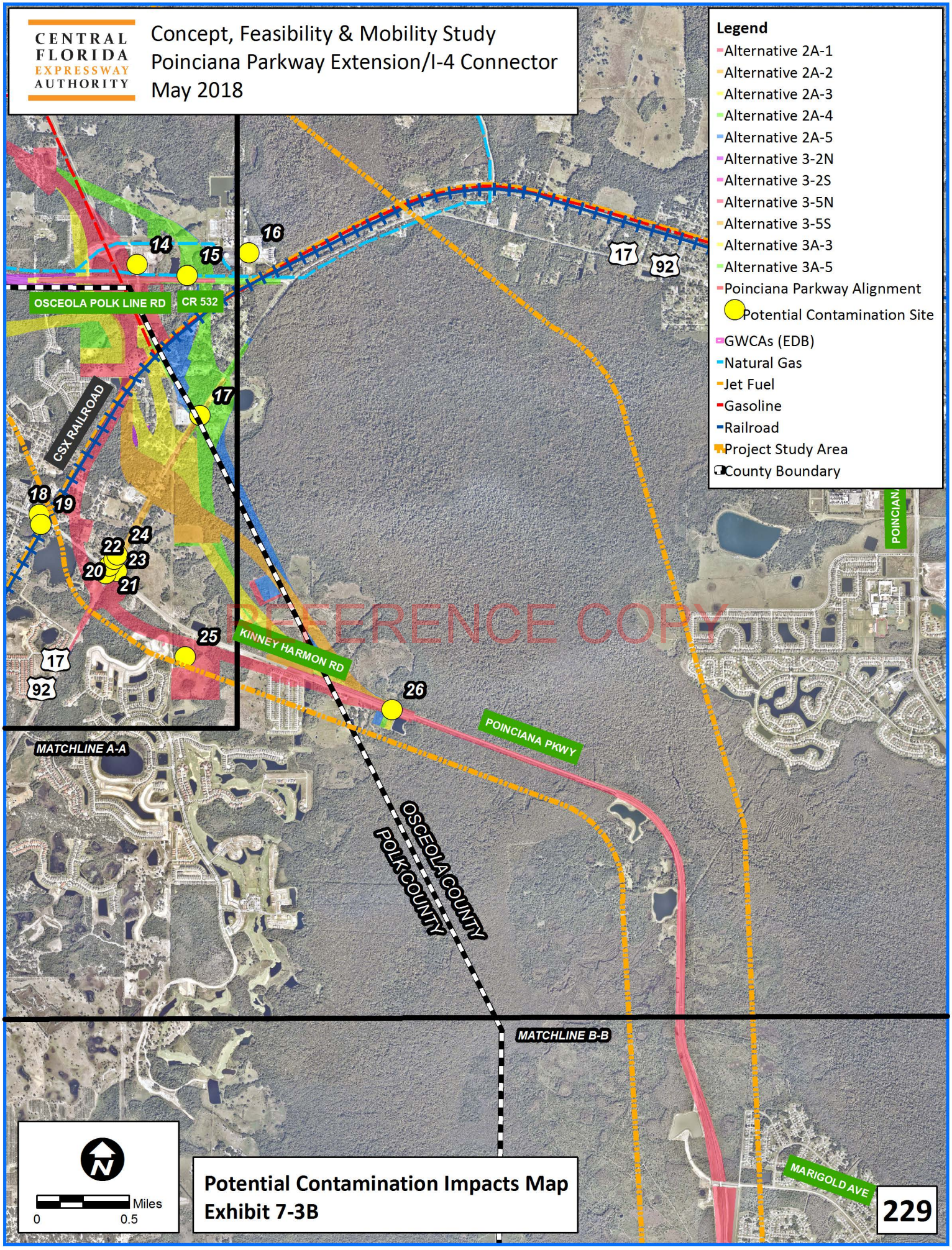
Cf2ℕλŘI· 5ŜLJI·ℕűY^Ŝyű 2₮ 9yØλℕ2yY^Ŝyű I·f tℕ2űŜŎűλ2y^óC59tú ŘI·ű I· ǿI·ă dzăŜŘ ű2 ŘŜűŜℕY^λyŜ I·ℕŜI·ă 2₮ LJ2ăăλōfŜ Ŏ2yűI·Y^λyI·ûλ2yΦ t2űŜyűλI·f /2yűI·Y^λyI·ûλ2y^{λűŜă ót/{ú I·ℕŜ ăŎI·úűŜℕŜŘ ûKℕ2dzƎK2dzű ûKŜ ăűdzŘè I·ℕŜI· I·yŘ ƎŜySℕI·ffè λyŎfdzŘŜ Řℕè ŎfŜI·ySℕăΣ ǿI·ăűŜǿI·ûŜℕ ûℕŜI·úY^Ŝyű LJfI·yűăΣ ƎI·ă ăűI·ûλ2yãΣ I·yŘ f₮ű ăűI·ûλ2yãΦ ! ŘŘλûλ2yI·f ă2dzℕÔŜă 2₮ LJ2űŜyűλI·f Ŏ2yűI·Y^λyI·ûλ2y^λyŎfdzŘŜ ûǿ2 Dℕ2dzyŘǿI·ûŜℕ /2yűI·Y^λyI·ûλ2y^ ! ℕŜI·ă óD² /!ú Ŏ2yűI·λyλyƎ ŜűKètŜyŜ Řλōℕ2Y^λŘŜ f2ŎI·ûŜŘ I·f2yƎ hfŘ [I·ʅŜ ² λfă2y^w2I·Ř I·yŘ hăŎŜ2fI· t2fʅ [λyŜ w2I·Řɸ **Table 7-14** ăK2ǿă D² /! I·yŘ t/{ λY^LJI·Ŏűă ōè I·fűŜℕyI·ûλØŜɸ ! ℕŜI·ă 2₮ LJ2űŜyűλI·f Ŏ2yűI·Y^λyI·ûλ2y^ǿλúKλy^ûKŜ ăűdzŘè I·ℕŜI· I·ℕŜ λffdzăűℕI·ûŜŘ 2y^**Exhibit 7-3**ɸ

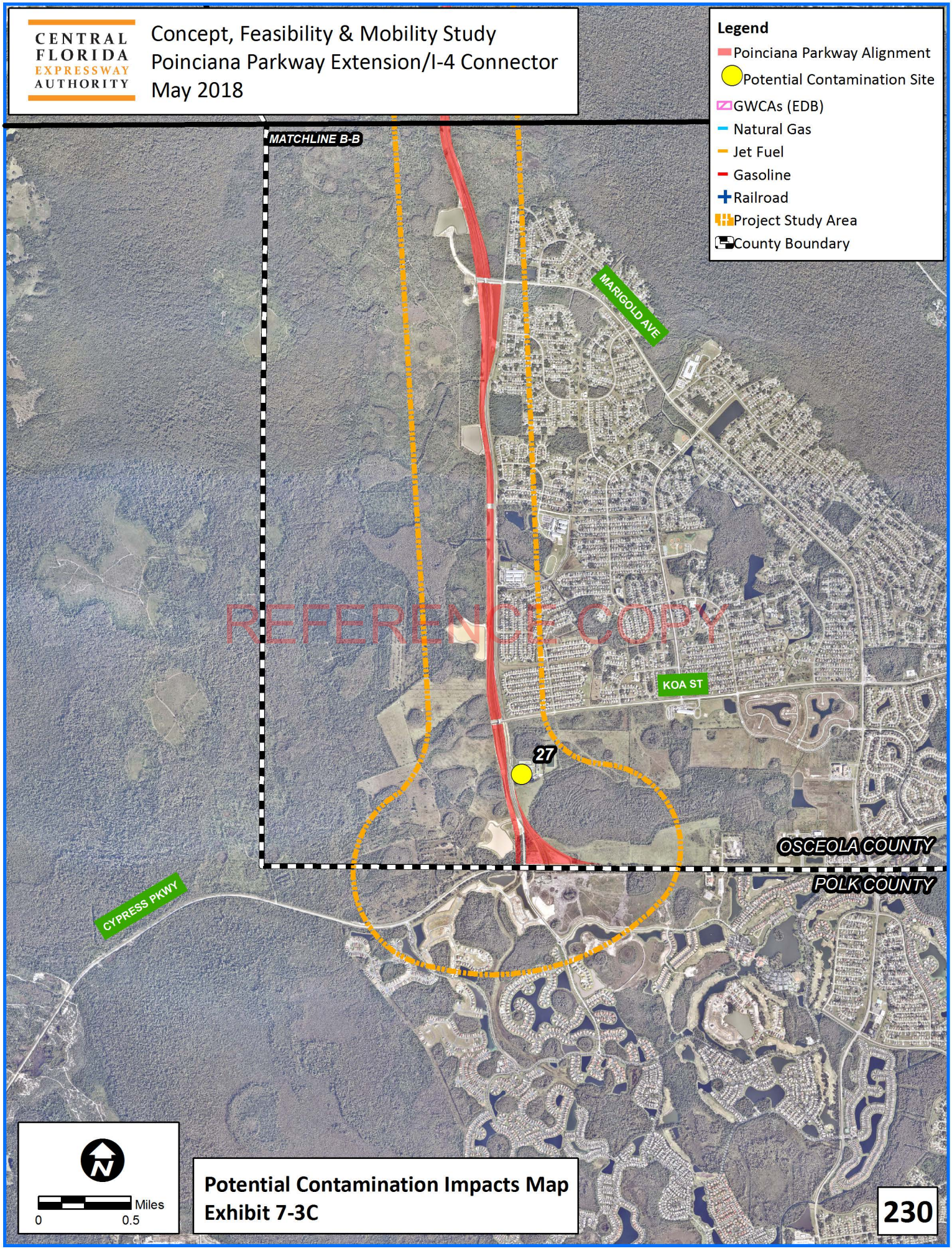
Table 7-14: t2űŜyűλI·f /2yűI·Y^λyI·ûλ2y^LY^LJI·Ŏűă ōè ! fűŜℕyI·ûλØŜ

Alternatives	GWCA (Acres)	Contamination Sites and Facilities
b2 . dzλfŘ	л	л
н!πм	мс	н
н!πн	мс	о
н!πо	мс	о
н!ππ	мс	о
н!πр	мс	о
опнb	ру	п
опн{	рф	н
опрb	ру	с
опр{	ру	о
о!πо	у	м
о!πр	у	н

REFERENCE COPY


CENTRAL FLORIDA EXPRESSWAY AUTHORITY
Concept, Feasibility & Mobility Study
Poinciana Parkway Extension/I-4 Connector
May 2018
Legend
Alternative 2A-1
Alternative 2A-2
Alternative 2A-3
Alternative 2A-4
Alternative 2A-5
Alternative 3-2N
Alternative 3-2S
Alternative 3-5N
Alternative 3-5S
Alternative 3A-3
Alternative 3A-5
Center Alignment
Potential Contamination Site
GWCAs (EDB)
Natural Gas
Jet Fuel
Gasoline
Railroad
Project Study Area
County Boundary
SR 429
SINCLAIR RD
4
OSCEOLA COUNTY
OLD LAKE WILSON RD
CHAMPIONS GATE BLVD
CR 532
OSCEOLA POLK LINE RD
POLK COUNTY
RONALD REAGAN PKWY
PINE TREE TRAIL
CSX RAILROAD
MATCHLINE A-A
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
17
18
19
20
21
22
23
24
25
92
REFERENCE COPY
N
Miles
0
0.5
Potential Contamination Impacts Map
Exhibit 7-3A
228


CENTRAL FLORIDA EXPRESSWAY AUTHORITY
Concept, Feasibility & Mobility Study
Poinciana Parkway Extension/I-4 Connector
May 2018
Legend
Alternative 2A-1
Alternative 2A-2
Alternative 2A-3
Alternative 2A-4
Alternative 2A-5
Alternative 3-2N
Alternative 3-2S
Alternative 3-5N
Alternative 3-5S
Alternative 3A-3
Alternative 3A-5
Poinciana Parkway Alignment
Potential Contamination Site
GWCAs (EDB)
Natural Gas
Jet Fuel
Gasoline
Railroad
Project Study Area
County Boundary
OSCEOLA POLK LINE RD
CR 532
CSX RAILROAD
KINNEY HARMON RD
POINCIANA PKWY
OSCEOLA COUNTY
POLK COUNTY
MATCHLINE A-A
MATCHLINE B-B
MARIGOLD AVE
14
15
16
17
18
19
20
21
22
23
24
25
26
92
REFERENCE COPY
Miles
0
0.5
Potential Contamination Impacts Map
Exhibit 7-3B
229


CENTRAL FLORIDA EXPRESSWAY AUTHORITY
Concept, Feasibility & Mobility Study
Poinciana Parkway Extension/I-4 Connector
May 2018
Legend
Poinciana Parkway Alignment
Potential Contamination Site
GWCAs (EDB)
Natural Gas
Jet Fuel
Gasoline
Railroad
Project Study Area
County Boundary
MATCHLINE B-B
MARIGOLD AVE
KOA ST
27
OSCEOLA COUNTY
POLK COUNTY
CYPRESS PKWY
REFERENCE COPY
Miles
0
0.5
Potential Contamination Impacts Map
Exhibit 7-3C
230

7.6 UTILITIES

t2ΰŜyΰλl·f l·ŘØŜ№ăŜ ŜŦŦŜŎΰă ΰ2 ŜÈλăΰλyΞ l·yŘ LJfl·yŷŷŜŘ dzΰλfΒΰλŜă ΰKl·ΰ Y l·è ōŜ l·ŦŦŜŎΰŜŘ ōè ΰKŜ LJ№2LJ2ăŜŘ ōdzλfŘ l·fΰŜ№yl·ΰλØŜă l·№Ŝ ŜØl·fdzl·ΰŜŘ λyΌKλă ăŜŎΰλ2y℗ ! ΞŜyŜ№l·f ŘŜăŎ№ALJΰλ2y Y l·yŘ f2Ŏl·ΰλ2y 2Ŧ ΰKŜ Y l·ƨ2№ dzΰλfΒΰλŜă f2Ŏl·ΰŜŘ 2№ LJfl·yŷŜŘ ØλΰKλyăΰdzŘè l·№Ŝl· Ŏl·yŌŜ Ŧ2dzyŘ λyΌKŜ LJ№2ƨŜŎΰΩă 9ÈλăΰλyΞ /2yŘλΰλ2yã ¢ŜŎKyλŎl·f aŜY2№l·yŘdzYΣ Řl·ΰŜŘ b2ØŜYŌŜ№ нлмт℗ . Ŝf2ø λă l· ŘŜăŎ№ALJΰλ2y2Ŧ ΰKŜ Y l·ƨ2№ dzΰλfΒΰλŜă ΰKl·ΰ Y l·è ōŜ l·ŘØŜ№ăŜfè l·ŦŦŜŎΰŜŘ ōè ΰKŜ l·fΰŜ№yl·ΰλØŜă ŜØl·fdzl·ΰŜŘ Ŧ2№ ΰKŜ LJ№2ƨŜŎΰ℗

Alternative 2A I-4 Interchange at S.R. 429, North Alignment

Existing Utility Impacts:

- ∉ ¢KŜ λyΰŜ№ŎKl·yΞŜ Ŏ№2ăăŜă 5dz]Ŝ 9yŜ№ΞèΩă ΰ№l·yãY λăăλ2yΒλyŜ yƀzY Ŝ№2dză ΰλY Ŝă l·f2yΞ ΰKŜ y2№ΰK l·yŘ ă2dzΰK ăλŘŜă 2Ŧ Lπn℗
- ∉ ¢KŜ λyΰŜ№ŎKl·yΞŜ Ŏ№2ăăŜă h№fl·yŘ2 ¦ ΰλfΒΰλŜă /2YY λăăλ2yΩă óh ¦ /Ωăΰ ΰ№l·yãY λăăλ2yΒλyŜă f2Ŏl·ΰŜŘ l·f2yΞ ΰKŜ ă2dzΰK ăλŘŜ 2Ŧ Lπn℗
- ∉ ¢KŜ λyΰŜ№ŎKl·yΞŜ Ŏ№2ăăŜă YλyŘŜ№ a2№Ξl·yΩă мcπλyŎK Ξl·ă2fΒyŜ LJλLJŜfΒyŜ yƀzY Ŝ№2dză ΰλY Ŝă l·f2yΞ ΰKŜ ă2dzΰK ăλŘŜ 2Ŧ Lπn℗
- ∉ ¢KŜ λyΰŜ№ŎKl·yΞŜ Ŏ№2ăăŜă Cf2№ŘI· Dl·ă ¢№l·yãY λăăλ2yΩă óCD¢ύ мyπλyŎK yl·ΰdz№l·f Ξl·ă LJλLJŜfΒyŜ l·yŘ Ŏ2YLJ№Ŝăă2№кYŜΰŜ№λyΞкØŜyΰλyΞ ăΰl·ΰλ2yΒf2Ŏl·ΰŜŘ 2yΒKŜ y2№ΰK ăλŘŜ 2Ŧ Lπn℗
- ∉ ¢KŜ λyΰŜ№ŎKl·yΞŜ Ŏ№2ăăŜă !¢ϑ¢ a2ōλfΩă ŎŜft ΰ2øŜ№ 2yΒKŜ ă2dzΰK ăλŘŜ 2Ŧ Lπn℗

Planned Utility Impacts:

- ∉ ¢KŜ λyΰŜ№ŎKl·yΞŜ Ŏ№2ăăŜă {LJŜŎΰ№l· 9yŜ№Ξèπ{l·ōl·f ¢№l·λfΩă LJfl·yŷŜŘ ocπλyŎK yl·ΰdz№l·f Ξl·ă LJλLJŜfΒyŜ℗

Alternative 2A I-4 Interchange at S.R. 429, Center Alignment

Existing Utility Impacts:

- ∉ ¢KŜ λyΰŜ№ŎKl·yΞŜ Ŏ№2ăăŜă 5dz]Ŝ 9yŜ№ΞèΩă ΰ№l·yãY λăăλ2yΒλyŜ yƀzY Ŝ№2dză ΰλY Ŝă l·f2yΞ ΰKŜ y2№ΰK l·yŘ ă2dzΰK ăλŘŜă 2Ŧ Lπn℗
- ∉ ¢KŜ λyΰŜ№ŎKl·yΞŜ Ŏ№2ăăŜă h¦ /Ωă ΰ№l·yãY λăăλ2yΒλyŜă f2Ŏl·ΰŜŘ l·f2yΞ ΰKŜ ă2dzΰK ăλŘŜ 2Ŧ Lπn℗
- ∉ ¢KŜ λyΰŜ№ŎKl·yΞŜ Ŏ№2ăăŜă YλyŘŜ№ a2№Ξl·yΩă мcπλyŎK Ξl·ă2fΒyŜ LJλLJŜfΒyŜ ΰøλŎŜ l·f2yΞ ΰKŜ ă2dzΰK ăλŘŜ 2Ŧ Lπn℗
- ∉ ¢KŜ λyΰŜ№ŎKl·yΞŜ Ŏ№2ăăŜă CD¢Ωă мyπλyŎK yl·ΰdz№l·f Ξl·ă LJλLJŜfΒyŜΣ Ŏ2YLJ№Ŝăă2№кYŜΰŜ№λyΞкØŜyΰλyΞ ăΰl·ΰλ2yΒf2Ŏl·ΰŜŘ 2yΒKŜ y2№ΰK ăλŘŜ 2Ŧ LπnΣ l·yŘ l·yCD¢ 2øyŜŘ LJl·№ŎŜf 2yΒKŜ ă2dzΰK ăλŘŜ 2Ŧ Lπn℗
- ∉ ¢KŜ λyΰŜ№ŎKl·yΞŜ Ŏ№2ăăŜă Ddzf̄ăΰ№Ŝl·Y bl·ΰdz№l·f Dl·ăΩă мcπλyŎK yl·ΰdz№l·f Ξl·ă LJλLJŜfΒyŜ l·f2yΞ ΰKŜ ă2dzΰK ăλŘŜ 2Ŧ Lπn℗

Planned Utility Impacts:

- ∉ ¢KŜ λyΰŜ№ŎKl·yΞŜ Ŏ№2ăăŜă {LJŜŎΰ№l· 9yŜ№Ξèπ{l·ōl·f ¢№l·λfΩă LJfl·yŷŜŘ ocπλyŎK yl·ΰdz№l·f Ξl·ă LJλLJŜfΒyŜ℗

Alternatives 2A-1, 2A-2, and 2A-3

Existing Utility Impacts:

- ∉ ¢KŜ l·fΒΞyYŜyΰă Ŏ№2ăă 5dz]Ŝ 9yŜ№ΞèΩă ΰ№l·yãY λăăλ2yΒλyŜ l·ΰ YdzfΰALJfŜ f2Ŏl·ΰλ2yã ă2dzΰK 2Ŧ /℗w℗ рон∑ ΰKŜ№ ΰ№l·yãY λăăλ2yΒλyŜ l·f2yΞ ΰKŜ y2№ΰK ăλŘŜ 2Ŧ /℗w℗ рон∑ l·yŘ ΰ№l·yãY λăăλ2yΒλyŜ l·f2yΞ ΰKŜ ØŜăΰ ăλŘŜ 2Ŧ 5dz]Ŝ 9yŜ№ΞèΩă LyΰŜ№ŎŜăăλ2y /λΰè t2øŜ№ tfl·yΰ℗
- ∉ ¢KŜ l·fΒΞyYŜyΰă Ŏ№2ăă YλyŘŜ№ a2№Ξl·yΩă мcπλyŎK Ξl·ă2fΒyŜ LJλLJŜfΒyŜ ΰøλŎŜ l·yŘ ΰKŜ№ млπλyŎK ƨŜΰ ŦdzŜf LJλLJŜfΒyŜ 2yŎŜ℗
- ∉ ¢KŜ l·fΒΞyYŜyΰă Ŏ№2ăă Cf2№ŘI· {2dzΰKŜl·ăΰ /2yŷŜŎΰλ2yΩă ocπλyŎK yl·ΰdz№l·f Ξl·ă LJλLJŜfΒyŜ l·ΰ h№l·yΞŜ .f2ăă2Y ¢№l·λf l·yŘ l·ΰ /℗w℗ рон℗

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- ¢KŜ I·fλƎyYˇŜyűă ŎN2ăă DdzfŦăúNŜI·Yˇ bI·údzNI·f DI·ăΩă нпπλyŐK yl·údzNI·f ƎI·ă LJλLJŜfλyŜ I·f2yƎ űKŜ y2NűK ăλŘŜ 2Ŧ /ΦwΦ poнΦ
- ¢KŜ I·fλƎyYˇŜyűă ŎN2ăă Yλăăλ YˇYˇŜŜ ¦ űλfλűè !dzűK2NλűèΩă yl·údzNI·f ƎI·ă LJλLJŜfλyŜ I·f2yƎ űKŜ y2NűK ăλŘŜ 2Ŧ /ΦwΦ poнΦ

Planned Utility Impacts:

- ¢KŜ I·fλƎyYˇŜyűă ŎN2ăă {LJŜŐúNI· 9yŜNƎè{I·ōI·f ¢NI·λΩă LJfI·yỳŜŘ ocπλyŐK yl·údzNI·f ƎI·ă LJλLJŜfλyŜ I·ú /ΦwΦ poнΦ

Alternatives 2A-4 and 2A-5

Existing Utility Impacts:

- ¢KŜ I·fλƎyYˇŜyűă ŎN2ăă 5dz]Ŝ 9yŜNƎèΩă úNI·yãYˇλăăλ2yˇfλyŜ I·ú hNI·yƎŜ .f2ăă2Yˇ ¢NI·λfΣ úKŜλN úNI·yãYˇλăăλ2yˇfλyŜ I·f2yƎ úKŜ y2NűK ăλŘŜ 2Ŧ /ΦwΦ poнΣ I·yŘ úNI·yãYˇλăăλ2yˇfλyŜ I·f2yƎ úKŜ ØŜăű ăλŘŜ 2Ŧ 5dz]Ŝ 9yŜNƎèΩă LyűŜNŐŜăăλ2yˇ /λûè t2ØŜN tfI·yű
- ¢KŜ I·fλƎyYˇŜyűă ŎN2ăă YλyŘŜN a2NƎI·yΩă млπλyŐK ?ŜűŦdzŜf LJλLJŜfλyŜ 2yŐŜ I·yŘ мсπλyŐK ƎI·ă2fλyŜ LJλLJŜfλyŜ 2yŐŜ y2NűK 2Ŧ /ΦwΦ poнΦ
- ¢KŜ I·fλƎyYˇŜyűă ŎN2ăă Cf2NλŘI· {2dzűKŜI·ăű /2yỳŜŐúλ2yΩă ocπλyŐK yl·údzNI·f ƎI·ă LJλLJŜfλyŜ I·ú hNI·yƎŜ .f2ăă2Yˇ ¢NI·λfΦ
- ¢KŜ I·fλƎyYˇŜyűă ŎN2ăă DdzfŦăúNŜI·Yˇ bI·údzNI·f DI·ăΩă нпπλyŐK yl·údzNI·f ƎI·ă LJλLJŜfλyŜ I·f2yƎ úKŜ y2NűK ăλŘŜ 2Ŧ /ΦwΦ poнΦ
- ¢KŜ I·fλƎyYˇŜyűă ŎN2ăă Yλăăλ YˇYˇŜŜ ¦ űλfλűè !dzűK2NλűèΩă yl·údzNI·f ƎI·ă LJλLJŜfλyŜ I·f2yƎ úKŜ y2NűK ăλŘŜ 2Ŧ /ΦwΦ poнΦ

Planned Utility Impacts:

- ¢KŜ I·fλƎyYˇŜyűă ŎN2ăă {LJŜŐúNI· 9yŜNƎè{I·ōI·f ¢NI·λfΩă LJfI·yỳŜŘ ocπλyŐK yl·údzNI·f ƎI·ă LJλLJŜfλyŜ I·ú /ΦwΦ poн I·yŘ ŦdzúdzNŜ YˇdzfűλLJfŜ ōƵ2ăűŜNκYˇŜűŜNλyƎ ăű I·ûλ2yãΦ

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Alternative 3-2N

Existing Utility Impacts:

- ¢KŜ I·fλƎyYˇŜyű ŎN2ăăŜă 5dz]Ŝ 9yŜNƎèΩă úNI·yãYˇλăăλ2yˇfλyŜ I·ú hNI·yƎŜ .f2ăă2Yˇ ¢NI·λfΣ úKŜλN úNI·yãYˇλăăλ2yˇfλyŜ I·f2yƎ úKŜ y2NűK ăλŘŜ 2Ŧ /ΦwΦ poнΣ I·yŘ úNI·yãYˇλăăλ2yˇfλyŜ I·f2yƎ hfŘ [I·]Ŝ ² λfă2yˇ w2I·ŘΦ
- ¢KŜ I·fλƎyYˇŜyű ŎN2ăăŜă h ¦ /Ωă úNI·yãYˇλăăλ2yˇfλyŜ ŜI·ăű 2Ŧ YŜYˇLJ w2I·ŘΦ
- ¢KŜ I·fλƎyYˇŜyű ŎN2ăăŜă YλyŘŜN a2NƎI·yΩă млπλyŐK ?ŜűŦdzŜf LJλLJŜfλyŜ 2yŐŜ I·yŘ мсπλyŐK ƎI·ă2fλyŜ LJλLJŜfλyŜ I·ú hNI·yƎŜ .f2ăă2Yˇ ¢NI·λf I·yŘ /ΦwΦ poнΦ
- ¢KŜ I·fλƎyYˇŜyű ŎN2ăăŜă Cf2NλŘI· {2dzűKŜI·ăű /2yỳŜŐúλ2yΩă ocπλyŐK yl·údzNI·f ƎI·ă LJλLJŜfλyŜ I·ű hNI·yƎŜ .f2ăă2Yˇ ¢NI·λfΦ
- ¢KŜ I·fλƎyYˇŜyű ŎN2ăăŜă DdzfŦăúNŜI·Yˇ bI·údzNI·f DI·ăΩă нпπλyŐK yl·údzNI·f ƎI·ă LJλLJŜfλyŜ YˇdzfűλLJfŜ ûλYˇŜă I·f2yƎ úKŜ y2NűK ăλŘŜ 2Ŧ /ΦwΦ poнΦ
- ¢KŜ I·fλƎyYˇŜyű ŎN2ăăŜă YλăăλYˇYˇŜŜ ¦ űλfλűè !dzűK2NλűèΩă yl·údzNI·f ƎI·ă LJλLJŜfλyŜ YˇdzfűλLJfŜ ûλYˇŜă I·f2yƎ úKŜ y2NűK ăλŘŜ 2Ŧ /ΦwΦ poнΦ

Planned Utility Impacts:

- ¢KŜ I·fλƎyYˇŜyű ŎN2ăăŜă {LJŜŐúNI· 9yŜNƎè{I·ōI·f ¢NI·λfΩă LJfI·yỳŜŘ ocπλyŐK yl·údzNI·f ƎI·ă LJλLJŜfλyŜ I·ú /ΦwΦ poнΦ

Alternative 3-2S

Existing Utility Impacts:

- ¢KŜ I·fλƎyYˇŜyΰ ŎN2ăăŜă 5dz]Ŝ 9yŜNƎèΩă ΰNI·yãYˇλăăλ2yˇfλyŜ I·ΰ hNI·yƎŜ . f2ăă2Yˇ ¢NI·λfΣ ΰKŜNN ΰNI·yãYˇλăăλ2yˇfλyŜ I·f2yƎ hfŘ [I·]Ŝ ² λfă2yˇw2I·ŘΣ I·yŘ ădzōăΰI·ΰλ2yˇI·yŘ I·ăă2ŐλI·ΰŜŘ ΰNI·yãYˇλăăλ2yˇfλyŜă I·f2yƎ ΰKŜ ă2dzΰK ăλŘŜ 2Ŧ /Φwφ ронφ
- ¢KŜ I·fλƎyYˇŜyΰ ŎN2ăăŜă h ¦ /Ωă ΰNI·yãYˇλăăλ2yˇfλyŜ ŜI·ăΰ 2Ŧ YŜYˇLJ w2I·Řφ
- ¢KŜ I·fλƎyYˇŜyΰ ŎN2ăăŜă YλyŘŜN a 2NƎI·yΩă млπλyŎK ?Ŝΰ ŦdzŜf LJλLJŜfλyŜ 2yŎŜ I·yŘ мсπλyŎK ƎI·ă2fλyŜ LJλLJŜfλyŜ I·ΰ hNI·yƎŜ . f2ăă2Yˇ ¢NI·λf I·yŘ /Φwφ ронφ
- ¢KŜ I·fλƎyYˇŜyΰ ŎN2ăăŜă Cf2NλŘI· {2dzΰKŜI·ăΰ /2yyŜŎΰλ2yΩă ocπλyŎK yl·ΰdzNI·f ƎI·ă LJλLJŜfλyŜ I·ΰ hNI·yƎŜ . f2ăă2Yˇ ¢NI·λfφ
- ¢KŜ I·fλƎyYˇŜyΰ ŎN2ăăŜă DdzfŦăΰNŜI·Yˇ bI·ΰdzNI·f DI·ăΩă нπλyŎK yl·ΰdzNI·f ƎI·ă LJλLJŜfλyŜ I·f2yƎ ΰKŜ ă2dzΰK ăλŘŜ 2Ŧ /Φwφ рон ǿŜăΰ 2Ŧ hfŘ ² λfă2yˇw2I·Řφ

Planned Utility Impacts:

- ¢KŜ I·fλƎyYˇŜyΰ ŎN2ăăŜă {LJŜŎΰNI· 9yŜNƎèπ{I·ōI·f ¢NI·λfΩă LJfI·yyŜŘ ocπλyŎK yl·ΰdzNI·f ƎI·ă LJλLJŜfλyŜ I·ΰ /Φwφ ронφ

Alternative 3-5N

Existing Utility Impacts:

- ¢KŜ I·fλƎyYˇŜyΰ ŎN2ăăŜă 5dz]Ŝ 9yŜNƎèΩă ΰNI·yãYˇλăăλ2yˇfλyŜ I·ΰ hNI·yƎŜ . f2ăă2Yˇ ¢NI·λfΣ ΰKŜNN ΰNI·yãYˇλăăλ2yˇfλyŜ I·f2yƎ ΰKŜ yƵNΰK ăλŘŜ 2Ŧ /Φwφ ронΣ I·yŘ ΰNI·yãYˇλăăλ2yˇfλyŜ I·f2yƎ hfŘ [I·]Ŝ ² λfă2yˇ w2I·Řφ
- ¢KŜ I·fλƎyYˇŜyΰ ŎN2ăăŜă h ¦ /Ωă ΰNI·yãYˇλăăλ2yˇfλyŜ ŜI·ăΰ 2Ŧ YŜYˇLJ w2I·Řφ
- ¢KŜ I·fλƎyYˇŜyΰ ŎN2ăăŜă YλyŘŜN a 2NƎI·yΩă млπλyŎK ?Ŝΰ ŦdzŜf LJλLJŜfλyŜ 2yŎŜ I·yŘ мсπλyŎK ƎI·ă2fλyŜ LJλLJŜfλyŜ ă2dzΰK 2Ŧ /Φwφ ронφ
- ¢KŜ I·fλƎyYˇŜyΰ ŎN2ăăŜă Cf2NλŘI· {2dzΰKŜI·ăΰ /2yyŜŎΰλ2yΩă ocπλyŎK yl·ΰdzNI·f ƎI·ă LJλLJŜfλyŜ I·ΰ hNI·yƎŜ . f2ăă2Yˇ ¢NI·λf I·yŘ /Φwφ ронφ
- ¢KŜ I·fλƎyYˇŜyΰ ŎN2ăăŜă DdzfŦăΰNŜI·Yˇ bI·ΰdzNI·f DI·ăΩă нπλyŎK yl·ΰdzNI·f ƎI·ă LJλLJŜfλyŜ Yˇdzfΰλ LJfŜ ΰλYˇŜă I·f2yƎ ΰKŜ yƵNΰK ăλŘŜ 2Ŧ /Φwφ ронφ
- ¢KŜ I·fλƎyYˇŜyΰ ŎN2ăăŜă YλăăλYˇYˇŜŜ ¦ΰλfΰΰè !dzΰK2NλΰèΩă yl·ΰdzNI·f ƎI·ă LJλLJŜfλyŜ Yˇdzfΰλ LJfŜ ΰλYˇŜă I·f2yƎ ΰKŜ yƵNΰK ăλŘŜ 2Ŧ /Φwφ ронφ

Planned Utility Impacts:

- ¢KŜ I·fλƎyYˇŜyΰ ŎN2ăăŜă {LJŜŎΰNI· 9yŜNƎèπ{I·ōI·f ¢NI·λfΩă LJfI·yyŜŘ ocπλyŎK yl·ΰdzNI·f ƎI·ă LJλLJŜfλyŜ I·ΰ /Φwφ ронφ

Alternative 3-5S

Existing Utility Impacts:

- ¢KŜ I·fλƎyYˇŜyΰ ŎN2ăăŜă 5dz]Ŝ 9yŜNƎèΩă ΰNI·yãYˇλăăλ2yˇfλyŜ I·ΰ hNI·yƎŜ . f2ăă2Yˇ ¢NI·λfΣ ΰKŜNN ΰNI·yãYˇλăăλ2yˇfλyŜ I·ΰ /Φwφ ронΣ ΰNI·yãYˇλăăλ2yˇfλyŜ I·f2yƎ hfŘ [I·]Ŝ ² λfă2yˇw2I·ŘΣ I·yŘ ădzōăΰI·ΰλ2yˇI·yŘ I·ăă2ŐλI·ΰŜŘ ΰNI·yãYˇλăăλ2yˇfλyŜă I·f2yƎ ΰKŜ ă2dzΰK ăλŘŜ 2Ŧ /Φwφ ронφ
- ¢KŜ I·fλƎyYˇŜyΰ ŎN2ăăŜă h ¦ /Ωă ΰNI·yãYˇλăăλ2yˇfλyŜ ŜI·ăΰ 2Ŧ YŜYˇLJ w2I·Řφ
- ¢KŜ I·fλƎyYˇŜyΰ ŎN2ăăŜă YλyŘŜN a 2NƎI·yΩă млπλyŎK ?Ŝΰ ŦdzŜf LJλLJŜfλyŜ 2yŎŜ I·yŘ мсπλyŎK ƎI·ă2fλyŜ LJλLJŜfλyŜ ă2dzΰK 2Ŧ /Φwφ ронφ
- ¢KŜ I·fλƎyYˇŜyΰ ŎN2ăăŜă Cf2NλŘI· {2dzΰKŜI·ăΰ /2yyŜŎΰλ2yΩă ocπλyŎK yl·ΰdzNI·f ƎI·ă LJλLJŜfλyŜ I·ΰ hNI·yƎŜ . f2ăă2Yˇ ¢NI·λf I·yŘ /Φwφ ронφ

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- ¢KŜ l·fλƎyϒŜyΰ ŎNƵ2ăăŜă DdzfŦăΰNƵŜl·Y bl·ΰdzNƵl·f Dl·ăΩă нпπλyŎK yl·ΰdzNƵl·f ∃l·ă LJλLJŜfλyŜ l·f2yƎ ΰKŜ ă2dzΰK ăλŘŜ 2Ŧ /ΦwΦ poн ǿŜăΰ 2Ŧ hfŘ ² λfă2ϒw2l·ŘΦ

Planned Utility Impacts:

- ¢KŜ l·fλƎyϒŜyΰ ŎNƵ2ăăŜă {LJŜŎΰNƵl· 9yŜNƵƎèℼ{l·ōl·f ¢Ƶl·λfΩă LJfl·yyŜŘ ocπλyŎK yl·ΰdzNƵl·f ∃l·ă LJλLJŜfλyŜ l·ΰ /ΦwΦ poнΦ

Alternatives 3A-3 and 3A-5

Existing Utility Impacts:

- ¢KŜ l·fλƎyϒŜyΰă ŎNƵ2ăă 5dzℼŜ 9yŜNƵƎèΩă ΰNƵl·yãYλăăλ2yϒfλyŜ l·ΰ hNƵl·yƎŜ . f2ăă2Y ¢Ƶl·λfΣ ΰKŜλNƵ ΰNƵl·yãYλăăλ2yϒfλyŜ ă2dzΰK 2Ŧ /ΦwΦ poнΣ l·yŘ ΰNƵl·yãYλăăλ2yϒfλyŜ l·f2yƎ [l·ℼŜ ² λfă2ϒw2l·ŘΦ
- ¢KŜ l·fλƎyϒŜyΰă ŎNƵ2ăă h ¦ /Ωă ΰNƵl·yãYλăăλ2yϒfλyŜ Ŝl·ăΰ 2Ŧ YŜYLJ w2l·ŘΦ
- ¢KŜ l·fλƎyϒŜyΰă ŎNƵ2ăă YλyŘŜNƵ a 2NƵƎl·yΩă млπλyŎK ƨŜΰ ŦdzŜf LJλLJŜfλyŜ 2yŎŜ l·yŘ мcπλyŎK ƎlăăλfλyŜ LJλLJŜfλyŜ ă2dzΰK l·ΰ hNƵl·yƎŜ . f2ăă2Y ¢Ƶl·λfΦ
- ¢KŜ l·fλƎyϒŜyΰă ŎNƵ2ăă Cf2NƵλŘl· {2dzΰKŜl·ăΰ /2yŷŜŎΰλ2yΩă ocπλyŎK yl·ΰdzNƵl·f ∃l·ă LJλLJŜfλyŜ l·ΰ hNƵl·yƎŜ . f2ăă2Y ¢Ƶl·λfΦ
- ¢KŜ l·fλƎyϒŜyΰă ŎNƵ2ăă DdzfŦăΰ NŜl·Y bl·ΰdzNƵl·f Dl·ăΩă нпπλyŎK yl·ΰdzNƵl·f ∃l·ă LJλLJŜfλyŜ l·Ř?l·ŎŜyΰ ΰ2 h ¦ / ΰNƵl·yãYλăăλ2yϒfλyŜΦ

7.7 RAILROADS

hyŜ /{· wl·λfN2l·Ř fλyŜ ŜÈλăΰă ǿλΰKλyϒΰKŜ ŎŜyΰNƵl·f LJ2Nΰλ2yϒ2Ŧ ΰKŜ ăΰdzŘè l·NŜl·Σ Ndzyŷλy∃ LJl·Ƶl·ffŜf ǿλΰK ¦{πмтκфнΣ ŎNƵ2ăăλy∃ w2yl·fŘ wŜl·∃l·yϒtl·Nℼǿl·è l·yŘ hăŎŜ2fl· t2fℼ [λyŜ w2l·ŘΦ !ff LJN2LJ2ăŜŘ l·fΰŜNƵyl·ΰλØŜă ŎNƵ2ăă ΰKλă NƵl·λfN2l·ŘΦ

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7.8 ANTICIPATED PERMITS REQUIRED

¢KŜ Ŧ2ff2ǿλy∃ LJŜNƵYλΰă l·NŜ l·yΰλŎλLJl·ΰŜŘ ΰ2 ōŜ NŜIjdzλNƵŜŘY

- C59t ç DŜyŜNƵλŎ tŜNƵYλΰ Ŧ2Ƶ {ΰ2NƵYϒǿl·ΰŜNƵ 5λăŎKl·N∃Ŝ ŦN2Y [l·N∃Ŝ l·yŘ {Yl·ff /2yăΰNdzŎΰλ2yϒ !ŎΰλØλΰλŜă óŦ2NƵYϒŜNƵtè ¦Φ{Φ 9yØλN2yYϒŜyΰl·f tƵ2ΰŜŎΰλ2yϒ !∃ŜyŎè ó¦{9t !ú bl·ΰλ2yl·f t2ffdzΰl·yΰ 5λăŎKl·N∃Ŝ 9fλYλyl·ΰλ2yϒ{ěăΰŜY óbt59{ú tŜNƵYλΰú
- {C ² a5 2Ƶ{ ² C ² 5 9yØλN2yYϒŜyΰl·f wŜă2dzNŎŜ tŜNƵYλΰ ó9wtúᵖ
- 5Ŝǿl·ΰŜNƵλy∃ tŜNƵYλΰΣ λŦ yŜŜŘŜŘ
- ¦yλΰŜŘ {ΰl·ΰŜă !NƵYè /2NLJă 2Ŧ 9y∃λyŜŜNƵă ó¦{!/9ú ç {ŜŎΰλ2yϒплп 5NƵŜŘ∃Ŝ l·yŘ Cλff tŜNƵYλΰ
- ¦{!/9 {ŜŎΰλ2yϒплу wŜØλŜǿΣ λŦ yŜŜŘŜŘ Ŧ2Ƶ λYLJl·Ŏΰă ΰ2 ăΰNƵŜl·Y ŎNƵ2ăăλy∃ă

9ÈΰŜyăλØŜ Ŏ22NƵŘλyl·ΰλ2yϒ ǿλff ōŜ NƵŜIjdzλNƵŜŘ Ŧ2Ƶ λYLJl·Ŏΰă ΰ2 ΰKŜ Ŏ2yăŜNƵØl·ΰλ2yϒfl·yŘă l·yŘ LJl·NΰλŎdzfl·Nfè ΰ2 ΰKŜ wŜŜŘè /NŜŜℼ aλΰλ∃l·ΰλ2yϒ .l·yℼΦ ¢K2dz∃K λYLJl·Ŏΰă ǿŜNƵŜ LJŜNƵYλΰΰŜŘ Ŧ2Ƶ ΰKŜ ŜÈλăΰλy∃ LJ2Nΰλ2yϒ2Ŧ t2λyŎλl·yl· tl·Nℼǿl·èΣ ΰKŜ ¦{!/9 l·yŘ {C ² a5 Kl·ØŜ λyŘλŎl·ΰŜŘ ŘdzNλy∃ ΰKŜ !fΰŜNƵyl·ΰλØŜ /2NNλŘ2Ƶ 9Ø l·fdzl·ΰλ2yϒwŜLJ2Nΰú ó!/9wú LJNƵ2ŎŜăă l·yŘ ŘdzNλy∃ ΰKŜ LJNƵŜØλ2dză LJŜNƵYλΰΰλy∃ LJNƵ2ŎŜăă ΰKl·ΰ λYLJl·Ŏΰă ΰ2 ΰKŜ Yλΰλ∃l·ΰλ2yϒōl·yℼ Yl·è ōŜ ŘλŦŦλŎdzfΰ ΰ2 LJŜNƵYλΰΦ

7.9 SUMMARY MATRIX - ANTICIPATED EFFECTS

Table 7-15 ădzYϒl·NλÎŜă ΰKŜ l·yΰλŎλLJl·ΰŜŘ ŜŦŦŜŎΰă 2yϒΰKŜ LJKèăλŎl·fΣ ŎdzfΰdzNƵl·fΣ yl·ΰdzNƵl·f l·yŘ ă2Ŏλl·f ŜyØλN2yYϒŜyΰă Ŧ2Ƶ Ŝl·ŎK l·fΰŜNƵyl·ΰλØŜΦ

[3] **Because the project extends over two water management districts, it is anticipated that one water management district would take the lead in issuance of the ERP.**

Table 7-15: {dzY'Y'I·ℕè 2Ŧ ! yűλŐλLJI·úŜŘ 9ŦŦŜŐűă

Evaluation Criteria	Unit of Measure	2A-1	2A-2	2A-3	2A-4	2A-5	3-2N	3-2S	3-5N	3-5S	3A-3	3A-5
Physical												
a I·ς2ℕ ¦ űλfŧλűè /2y'fŧλŐűă π 9ÈλăűλyƎ	b2φ 2Ŧ /2y'fŧλŐűă	нт	нт	нт	нс	ну	мр	мо	мп	мо	у	у
a I·ς2ℕ ¦ űλfŧλűè /2y'fŧλŐűă π tfI·yŷŜŘ	b2φ 2Ŧ /2y'fŧλŐűă	н	н	н	о	о	м	м	н	м	м	м
/2yűI·Y'λyI·űλ2y'{λúŜă ɘ CI·ŐλfŧλúλŜă	b2φ 2Ŧ /2y'fŧλŐűă	н	о	о	о	о	п	н	с	о	м	н
wI·λfŧℕ2I·Ř Lyø2fØŜY'Ŝyű	b2φ 2Ŧ /2y'fŧλŐűă	м	м	м	м	м	м	м	м	м	м	м
Cultural Environment Effects												
tdzōfŧλŐ [I·yŘă	I·ŐℕŜă	л	л	л	л	л	л	л	л	л	л	л
{ŜŐúλ2y'nóŦú /22ℕŘλyI·űλ2y' wŜIjdzℕŜŘ ó tdzōfŧλÔ wŜŐℕŜI·űλ2y' [I·yŘăΣ ² λfŘfŧλŦŜ wŜŦdzƎŜăΣ ŜűÔφú	¸кb	¸	¸	¸	¸	¸	¸	¸	¸	¸	¸	¸
t2űŜyűλI·f I λăű2ℕλÔ wŜă2dzℕŐŜă	b2φ 2Ŧ /2y'fŧλŐűă	н	м	м	н	н	м	м	н	н	м	о
t2űŜyűλI·f I λăű2ℕλÔ [λyŜI·ℕ wŜă2dzℕŐŜă ó/I·yI·făк I λƎKø I·èăкwI·λfŧℕ2I·Řăú	b2φ 2Ŧ wŜă2dzℕŐŜă	м	м	м	н	о	м	м	о	о	м	о
t2űŜyűλI·f !ℕŐKI·Ŝf2ƎλÔI·f wŜă2dzℕŐŜă	b2φ 2Ŧ wŜă2dzℕŐŜă	о	о	о	о	о	н	л	н	л	л	л
Natural Environment												
² I·űŜℕ CŜI·údzℕŜă												
t2yŘă к [I·'ŜăI·ŐℕŜă		м	л	л	м	м	л	л	м	м	ф	мл
/I·yI·făкwŜƎdzfI·űŜŘ Cf22Řø I·ëă	b2φ 2Ŧ /2y'fŧλŐűă	с	с	с	у	у	л	л	н	н	м	н
Cf22Ř I I·Î I·ℕŘ !ℕŜI·ă π млл ¸ŜI·ℕ Cf22ŘLJfI·λy'	I·ŐℕŜă	мтс	ннн	нло	мпф	мол	нлп	нмм	мну	мос	нпт	ннл
² ŜűfI·yŘă óy2yπŦ2ℕŜăúŜŘ I·yŘ Ŧ2ℕŜăúŜŘú	I·ŐℕŜă	мтм	мур	мсн	мср	мср	млр	млу	уп	уп	мрр	мсф
t2űŜyűλI·f I I·ōλűI·ú π CŜŘŜℕI·f [λăúŜŘ {LJŜŐλŜă	I·ŐℕŜă	ррр	ртс	рсп	рмм	рлс	плс	пмм	офс	отр	псо	псм
t2űŜyűλI·f I I·ōλűI·ú π {űI·úŜ [λăúŜŘ {LJŜŐλŜă	I·ŐℕŜă	нфу	нфт	нфс	нрп	нру	нфп	олм	нпр	нпт	оут	осо
t2űŜyűλI·f . I·fŘ 9I·ƎfŜ bŜăű	¸кb	b	b	b	b	b	b	b	b	b	b	b
t2űŜyűλI·f {LJŜŐλŜă LY'LJI·Ŏűă óŐ2Y'LJ2ăλűŜ ℕI·úλyƎú	wI·úλyƎ	I LD I	I LD I	I LD I	I LD I	I LD I	I LD I	I LD I	I LD I	I LD I	I LD I	I LD I
aλűλƎI·űλ2y' . I·y'Ťă												
wŜŜŘè /ℕŜŜ'Ť aλűλƎI·űλ2y' . I·y'Ť	I·ŐℕŜă	мм	рн	пм	ос	пс	рн	рн	пу	пу	оо	пу
/2yãŜℕØI·úλ2y'9I·ăŜY'Ŝyűă												
¦ LJLJŜℕ [I·'ŤŜă . I·ăλy' ² I·űŜℕăKŜŘ	I·ŐℕŜă	л	л	л	м	нм	л	л	нм	нм	л	нн
wŜŜŘè /ℕŜŜ'Ť LY'LJℕ2ØŜY'Ŝyű 5λăúℕλÔú	I·ŐℕŜă	мм	мм	мм	мм	мм	л	л	л	л	л	л
{C ² a5 /2yãŜℕØI·úλ2y'[I·yŘă	I·ŐℕŜă	рт	ор	ор	ор	ор	л	л	н	н	н	н
Social												
wλƎKúπ2Ŧπ ² I·è !ℕŜI· óλyÔfŧdzŘλyƎ LJℕ2LJ2ăŜŘ LJ2yŘăú	I·ŐℕŜă	рсл	рпм	рон	рлн	пфн	опм	опс	омн	олф	ррр	прп

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/2yÔŜLJűΣ CŜI·ăλōλfŧλűè ɘ a2ōλfŧλűè {údzŘè
t2λyÔλI·yI· tI·ℕ'Ťø I·è 9ÈúŜyűă2y'к Lπп /2yŷŜÔű2ℕΣ CℕƧY' /èLJℕŜăă tI·ℕ'Ťø I·è ű2 Lπп
a I·è нлму ر YλY'tŜèπ I 2ℕy'I·yŘ !ăă2ÔλI·ûŜăΣ LyÔφ

нор

Table 7-15: {dzYYl·NWè 2Ŧ ! yűλÖλLJl·úŜŘ 9ŦŦŜÖűă óÖ2yűλyűzŜŘú

Evaluation Criteria	Unit of Measure	2A-1	2A-2	2A-3	2A-4	2A-5	3-2N	3-2S	3-5N	3-5S	3A-3	3A-5
t2ű Ŝyűλl·f wŜăλŘŜyűλl·f LYLJl·Ôűă óλyÖfdzŘŜă LJl·NWÔŜfăú	¢2ű l·f t l·NWÔŜfă	мтп	мпм	нмо	мфл	мрп	ут	млт	ур	млп	мрс	мол
Existing	*Parcels*	*76*	*40*	*81*	*73*	*54*	*58*	*63*	*52*	*61*	*58*	*41*
Planned	*Parcels*	*98*	*101*	*132*	*117*	*100*	*29*	*44*	*33*	*43*	*98*	*89*
t2ű Ŝyűλl·f b2yfwŜăλŘŜyűλl·f LYLJl·Ôűă óλyÖfdzŘŜă LJl·NWÔŜfăú	¢2ű l·f t l·NWÔŜfă	фу	млл	уф	сс	рт	ммм	фм	млн	фт	тс	тн
Existing	*Parcels*	*47*	*48*	*46*	*42*	*41*	*57*	*42*	*52*	*46*	*31*	*32*
Planned	*Parcels*	*51*	*52*	*43*	*24*	*16*	*54*	*49*	*50*	*51*	*45*	*40*
/2YYdzyλűè Cl·Ôλf ûλŜă	b2φ 2Ŧ /2yfŧλÔűă	м	н	н	м	м	п	п	о	о	м	м
tl·NWlă l·yŘ wŜÔNWŜl·ûλ2yl·f Cl·Ôλf ûλŜă óLJdzōfŧλÔ l·yŘ LJNWØl·úŜú	b2φ 2Ŧ /2yfŧλÔűă	л	л	л	л	л	л	л	л	л	л	л
¢NWl·λfă	b2φ 2Ŧ /2yfŧλÔűă	м	м	м	м	м	м	м	м	м	м	м
/2YYdzyλűè /2KŜăλ2yY9ŦŦŜÔűă	wl·yYλyƎ	lLDl	lLDl	lLDl	[h ²	[h ²	lLDl	lLDl	a95	a95	lLDl	[h ²
{2Ôλ2ŜÔ2y2YλÔ LYLJl·Ôűă ú2 {LJŜÔλl·f t2LJdzfl·ûλ2yã	wl·yYλyƎ	lLDl	lLDl	lLDl	[h ²	[h ²	lLDl	lLDl	[h ²	[h ²	lLDl	[h ²
tN2LJ2ăŜŘ 5ŜØŜf2LJYŜyű κ 5ŜØŜf2LJYŜyű 2Ŧ wŜƎλ2yl·f LYLJl·Ôű	l·ÖNŜă	нрс	мсс	мтр	мтс	мтс	фр	со	фр	со	от	от

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Tφφм t l ¸{L/ ! [9b±Lwhb a9b¢ 9CC9/¢{

¢KŜNWŜ λă úKŜ LJ2ûŜyűλl·f Ŧ2NW YI·ƨ2NW dzúλfŧúè Ô2yŦfŧλÔűăΣ ō2ûK ŜÈλăúλyƎ l·yŘ LJfl·yŷŜŘφ 9ÈλăúλyƎ dzúλfŧúè Ô2yŦfŧλÔűă NWl·yƎŜ ŦN2Y ŜλƎKú ó ! fűŜNWyl·ûλØŜ o ! πo l·yŘ o ! πpú ű2 ну ó ! fűŜNWyl·ûλØŜ н ! πpúφ tfl·yŷŜŘ dzúλfŧúè Ô2yŦfŧλÔűă NWl·yƎŜ ŦN2Y 2yŜ ó ! fűŜNWyl·ûλØŜă oπнbΣ oπн{Σ oπp{Σ o ! πoΣ l·yŘ o ! πpú ű2 ûKNWŜŜ ó ! fűŜNWyl·ûλØŜă нl·πп l·yŘ н ! πpúφ /2yűl·YλyÍ·ûλ2yăλúŜ l·yŘ Ŧl·Ôλfŧúè Ô2yŦfŧλÔűă NWl·yƎŜ ŦN2Y 2yŜ ó ! fűŜNWyl·ûλØŜ o ! πoú ű2 ăλÈ ó ! fűŜNWyl·ûλØŜ oπpbúφ ! ff l·fűŜNWyl·ûλØŜă ÔN2ăă ûKŜ /{ · NWl·λfN2l·Řφ

Tφφн / ¦ [¢ ¦w ! [9b±Lwhb a9b¢ 9CC9/¢{

b2yŜ 2Ŧ ûKŜ l·fűŜNWyl·ûλØŜă λYLJl·Ôű l·yê LJdzōfŧλÔ fl·yŘăφ ! ff l·fűŜNWyl·ûλØŜă øλff NWŜljdzNWŜ {ŜÔűλ2yΓπóŦú Ô22NWŘλyl·ûλ2y NWŜƎl·NWŘλyƎ LJdzōfŧλÔ NWŜÔNWŜl·ûλ2yΓfl·yŘă l·yŘк2N øλfŘfŧλŦŜ NWŜŦdzƎŜăφ t2ûŜyűλl·f Kλăű2NWλÔ NWŜă2dzNWÔŜ λYLJl·Ôűă NWl·yƎŜ ŦN2Y 2yŜ ó ! fűŜNWyl·ûλØŜă н ! πмΣ н ! πнΣ н ! πoΣ oπнbΣ oπн{Σ l·yŘ o ! πoú ű2 ûKNWŜŜ ó ! fűŜNWyl·ûλØŜ o ! πpúφ t2ûŜyűλl·f Kλăű2NWλÔ fŧyŜl·N NWŜă2dzNWÔŜ λYLJl·Ôűă NWl·yƎŜ ŦN2Y 2yŜ ó ! fűŜNWyl·ûλØŜă н ! πмΣ н ! πнΣ н ! πoΣ oπнbΣ oπн{Σ l·yŘ o ! πoú ű2 ûKNWŜŜ ó ! fűŜNWyl·ûλØŜă н ! πpΣ oπpbΣ oπp{Σ l·yŘ o ! πpúφ t2ûŜyűλl·f l·NWÔKl·Ŝ2f2ƎλÔl·f NWŜă2dzNWÔŜ λYLJl·Ôűă NWl·yƎŜ ŦN2Y ÎŜN2 ó ! fűŜNWyl·ûλØŜă oπн{Σ oπp{Σ o ! πoΣ l·yŘ o ! πpú ű2 ûKNWŜŜ ó ! fűŜNWyl·ûλØŜă н ! πмΣ н ! πнΣ н ! πoΣ н ! ππΣ l·yŘ н ! πpúφ

Tφφo b ! ¢ ¦w ! [9b±Lwhb a9b¢ 9CC9/¢{

LYLJl·Ôűă ű2 LJ2yŘă l·yŘ fl·ÎŜă NWl·yƎŜă ŦN2Y ÎŜN2 l·ÖNŜă ó ! fűŜNWyl·ûλØŜă н ! πнΣ н ! πoΣ oπнbΣ l·yŘ oπн{ú ű2 мл l·ÖNŜă ó ! fűŜNWyl·ûλØŜ o ! πpúφ /2yŦfŧλÔűă øλűK Ôl·yl·făκNWŜƎdzfl·ûŜŘ Ŧf22Řøl·èă NWl·yƎŜ ŦN2Y ÎŜN2 ó ! fűŜNWyl·ûλØŜă oπнb l·yŘ oπ н{ú ű2 ŜλƎKú ó ! fűŜNWyl·ûλØŜă н ! πп l·yŘ н ! πpúφ LYLJl·Ôűă ű2 Ŧf22Ř Kl·Îl·NWŘ l·NWŜl·ă ómллπèŜl·N Ŧf22ŘLJfl·λyÚ NWl·yƎŜ ŦN2Y мну l·ÖNŜă ó ! fűŜNWyl·ûλØŜ oπpbú ű2 нпт l·ÖNŜă ó ! fűŜNWyl·ûλØŜ o ! πoúφ LYLJl·Ôűă ű2 øŜűfl·yŘă NWl·yƎŜ ŦN2Y уп l·ÖNŜă ól·fűŜNWyl·ûλØŜă oπpb l·yŘ oπp{ú ű2 мур l·ÖNŜă ó ! fűŜNWyl·ûλØŜ н ! πнúφ LYLJl·Ôűă ű2 LJ2ûŜyűλl·f Kl·ōλúl·ú Ŧ2N ŦŜŘŜNWl·f

fŁăúŜŘ ăLJŜŎλŜă ₪I·yƎŜ ₹₪2Y отр I·Ŏ₪Ŝă ó ! fűŜ₪yƗ·úλØŜ оπр{ú ű2 ртс I·Ŏ₪Ŝă ó ! fűŜ₪yƗ·úλØŜ н ! πнúΦ LYLJI·Ŏűă ű2 LJ2űŜyűλI·f KI·ōλűI·ú ₹2₪ ăűI·űŜ fŁăúŜŘ ăLJŜŎλŜă ₪I·yƎŜ ₹₪2Y нпр I·Ŏ₪Ŝă ó ! fűŜ₪yƗ·úλØŜ оπрbú ű2 оут I·Ŏ₪Ŝă ó ! fűŜ₪yƗ·úλØŜ o ! πoúΦ b2yŜ 2₹ úKŜ I·fűŜ₪yƗ·úλØŜă KI·ØŜ I·yˇŜ₹₹ŜŐű 2yˇLJ2űŜyűλI·f . I·fŘ 9I·ƎfŜ ySăúăΦ ! ff I·fűŜ₪yƗ·úλØŜă KI·ØŜ I· KλƎK λYˇLJI·Ŏű 2yˇLJ2űŜyűλI·f ăLJŜŎλŜă λYˇLJI·Ŏűă Φ LYLJI·Ŏűă ű2 úKŜ wŜŜŘè /₪ŜŜ] aλűλƎI·úλ2yˇ . I·y] ₪I·yƎŜ ₹₪2Y мм I·Ŏ₪Ŝă ó ! fűŜ₪yƗ·úλØŜ н ! πмú ű2 рн I·Ŏ₪Ŝă ó ! fűŜ₪yƗ·úλØŜă н ! πнΣ оπнb I·yŘ оπн{úΦ LYLJI·Ŏűă ű2 úKŜ ¦LJLJŜ₪ [I·]Ŝă . I·ăλyˇ ² I·ŭŜ₪ăKŜŘ ₪I·yƎŜ ₹₪2Y ÎŜ₪2 I·Ŏ₪Ŝă ó ! fűŜ₪yƗ·úλØŜă оπнbΣ оπн{Σ оπpbΣ оπр{Σ o ! πoΣ I·yŘ o ! πрú ű2 мм I·Ŏ₪Ŝă ó ! fűŜ₪yƗ·úλØŜă н ! πмΣ н ! πнΣ н ! πoΣ н ! ππΣ I·yŘ н ! πрúΦ LYLJI·Ŏűă ű2 {2dzűK Cf2₪λŘI· ² I·ŭŜ₪ a I·yƗ·ƎŜYŜyű 5λăú₪λŎű ó{C ² a 5ú /2yăŜ₪ØI·úλ2yˇ [I·yŘă ₪I·yƎŜ ₹₪2Y ÎŜ₪2 I·Ŏ₪Ŝă ó ! fűŜ₪yƗ·úλØŜă оπнb I·yŘ оπн{ú ű2 рт I·Ŏ₪Ŝă ó ! fűŜ₪yƗ·úλØŜ н ! πмúΦ

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wλƎKűπ2₹πøI·è yŜŜŘă ₪I·yƎŜ ₹₪2Y олф I·Ŏ₪Ŝă ó ! fűŜ₪yƗ·úλØŜ оπр{ú ű2 рсл I·Ŏ₪Ŝă ó ! fűŜ₪yƗ·úλØŜ н ! πмúΦ t2úŜyűλI·f ₪ŜăλŘŜyűλI·f λYˇLJI·Ŏűă óλyŎfdzŘλyƎ LJI·₪ŭλI·ftê λYˇLJI·ŎűŜŘ LJI·₪ŎŜfăú ₪I·yƎŜ ₹₪2Y yp ó ! fűŜ₪yƗ·úλØŜ оπрbú ű2 нмо ó ! fűŜ₪yƗ·úλØŜ н ! πoúΦ t2úŜyűλI·f y2y₪ŜăλŘŜyűλI·f λYˇLJI·Ŏűă óλyŎfdzŘλyƎ LJI·₪ŭλI·ftê λYˇLJI·ŎűŜŘ LJI·₪ŎŜfăú ₪I·yƎŜ ₹₪2Y рт ó ! fűŜ₪yƗ·úλØŜ н ! πрú ű2 ммм ó ! fűŜ₪yƗ·úλØŜ оπнbúΦ /2YˇdzyλűèŦI·ŎλfλűèλYˇLJI·Ŏűă ₪I·yƎŜ ₹₪2Y 2yŜ ó ! fűŜ₪yƗ·úλØŜă н ! πмΣ н ! ππΣ н ! πрΣ o ! πoΣ I·yŘ o ! πрú ű2 ₹2dz₪ ó ! fűŜ₪yƗ·úλØŜă оπнb I·yŘ оπн{úΦ b2yŜ 2₹ úKŜ I·fűŜ₪yƗ·úλØŜă λYˇLJI·Ŏű LJI·₪]ă I·yŘ ₪ŜŎ₪ŜI·úλ2yƗ·fŦI·ŎλfλűλŜăΦ ! ff úKŜ I·fűŜ₪yƗ·úλØŜă λYˇLJI·Ŏű 2yŜ ú₪I·λfΦ bŜƎI·úλØŜ Ŏ2YˇdzyλűèŎ2KŜăλ2yˇ ŜŦ₹ŜŎűă I·₪Ŝ Ŏ2yăλŘŜ₪ŜŘ f2ø ₹2₪ ! fűŜ₪yƗ·úλØŜă н ! ππΣ н ! πрΣ I·yŘ o ! πрŤ I·yŘ KλƎK ₹2₪ ! fűŜ₪yƗ·úλØŜă н ! πмΣ н ! πнΣ н ! πoΣ оπнbΣ оπн{Σ I·yŘ o ! πoΦ {2Ŏλ2ŜŎ2y2YˇλŎ λYˇLJI·Ŏűă ű2 ăLJŜŎλI·f LJ2LJdzfI·úλ2yă I·₪Ŝ Ŏ2yăλŘŜ₪ŜŘ f2ø ₹2₪ ! fűŜ₪yƗ·úλØŜă н ! ππΣ н ! πрΣ оπрbΣ оπр{Σ I·yŘ o ! πрŤ I·yŘ KλƎK ₹2₪ ! fűŜ₪yƗ·úλØŜă н ! πмΣ н ! πнΣ н ! πoΣ оπнbΣ оπн{Σ I·yŘ o ! πoΦ LYLJI·Ŏűă ű2 LJ₪2LJ2ăŜŘ ŘŜØŜf2LJYˇŜyűă I·yŘ ŘŜØŜf2LJYˇŜyűă 2₹ ₪ŜƎλ2yƗ·fλYˇLJI·Ŏű ₪I·yƎŜ ₹₪2Y от I·Ŏ₪Ŝă ó ! fűŜ₪yƗ·úλØŜă o ! πo I·yŘ o ! πрú ű2 нрс I·Ŏ₪Ŝă ó ! fűŜ₪yƗ·úλØŜ н ! πмúΦ

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8.0 STAKEHOLDER INVOLVEMENT

8.1 INTRODUCTION

Stakeholder and public involvement was an integral part of the Concept, Feasibility and Mobility Study. Multiple opportunities for participation were provided, including:

- Environmental Advisory Group meetings
- Project Advisory Group meetings
- Meetings with local governments
- Meetings with various stakeholders (e.g., property owners, utility providers, community groups, and transportation agencies)
- Public Meetings

A summary of stakeholder involvement is provided below.

8.2 STAKEHOLDER COORDINATION AND MEETINGS

8.2.1 ENVIRONMENTAL ADVISORY GROUP

An Environmental Advisory Group (EAG) was formed to provide input to the four Concept, Feasibility and Mobility Studies being conducted by CFX. The four corridors being studied are:

- Poinciana Parkway Extension/I-4 Connector Expressway (13 miles);
- Southport Connector Expressway (13 miles);
- Northeast Connector Expressway (25 miles); and
- Osceola Parkway Extension (9 miles).

REFERENCE COPY

The first EAG meeting was held on July 11, 2017. The purpose of this EAG meeting was to review the study corridors, to present an update on the status of potential impacts, and to inform the study teams of local needs, issues and concerns within the study limits with regard to environmental impacts. There were 25 attendees, including representatives from the following:

- Audubon Society – Central Florida
- East Central Florida Regional Planning Council
- Florida Department of Transportation (FDOT), District Five
- Florida Fish and Wildlife Conservation Commission
- Florida's Turnpike Enterprise (FTE)
- Orange County Environmental Protection Division
- Osceola County Environmental Lands Conservation Program
- Osceola County Transportation
- Poinciana Residents for Smart Change
- Polk County
- Reedy Creek Improvement District (RCID)
- Sierra Club
- South Florida Water Management District
- City of St. Cloud, Planning and Zoning
- Walt Disney Imagineering

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adzŎK 2Ŧ űKŜ ŘλăŎdzăăλ2yˇI·ű űKλă 9!D YˇŜŜűλyƎ NŜfI·ûŜŘ ű2 űKŜ hăŎŜ2fI· tI·N]ǿI·è 9ĚűŜyãλ2yŒă LJ2űŜyűλI·f λYˇLJI·Ŏűă 2yˇ{LJfλű hI·] C2NŜăű I·yŘ űKŜ {2dzűKLJ2Nű /2yŷŜŎû2NŒă I·fλƎyYˇŜyűΦ ¢KŜNŜ ǿI·ă ŘλăŎdzăăλ2yˇNŜƎI·NŘλyƎ úKŜ ŎdzYˇdzfI·ûλØŜ ŜyØλN2yYˇŜyűI·f ŜŦŦŜŎûă 2Ŧ űKŜ Ŧ2dzN LJN2ŷŜŎûăΦ !yˇ2LJLJ2Núdzyλűè Ŧ2N /C· ű2 LJI·NűyŜN ǿλűK ûKŜ YλNŎKYˇI·yˇC2dzyŘI·ûλ2yˇNŜƎI·NŘλyƎ ŦdzyŘλyƎ Ŧ2N ûKŜ [I·]Ŝ /2yfλyˇLJN2LJŜNűè ǿI·ă ădzƎƎŜăűŜŘΦ hűKŜN ű2LJλŎă 2Ŧ ŘλăŎdzăăλ2yˇλyŎfdzŘŜŘ I·ŎŎ2YˇY2ŘI·ûλyƎ Cf2NλŘI·0ă bI·ûλ2yI·f {ŎŜyλŎ ¢NJI·λt dzyŘŜN ûKŜ ŜÈLJNŜăăǿI·è¢

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- ∉ t2f] /2dzyűè KI·ă ă2ŎλI·f I·yŘ ŜyØλN2yYˇŜyűI·f Ŏ2yŎŜNyã ǿλűK λYˇLJI·ŎűăûŜ [2dzƎKYˇI·yˇŎ2YˇYˇdzyλűè¢

¢KŜ ăŜŎ2yŘ 9!D YˇŜŜűλyƎ ǿI·ă KŜfŘ 2yˇwI·ydzI·Nè oмΣ нлмy¢ ¢KŜ LJdzNLJ2ăŜ 2Ŧ úKλă 9!D YˇŜŜűλyƎ ǿI·ă û2 NŜØλŜǿ úKŜ ăűdzŘè ŦλyŘλyƎă I·yŘ NŜŎŜλØŜ λyˇLJdzű ŦN2Yˇ ûKŜ 9!D ǿλűK NŜƎI·NŘ ű2 ŜyØλN2yYˇŜyűI·f λYˇLJI·ŎűăΦ

¢KŜNŜ ǿŜNŜ oл I·ûűŜyŘŜŜăΣ λyŎfdzŘλyƎ NŜLJNŜăŜyűI·ûλØŜă ŦN2Yˇ ûKŜ Ŧ2ff2ǿλyƎY

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- ∉ C¢9
- ∉ CNλŜyŘă 2Ŧ {LJfλű hI·] C2NŜăű
- ∉ Yλăăλ YˇYˇŜŜ ±I·ftŜè !dzŘdzō2yˇ{2ŎλŜûè
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- ∉ hăŎŜ2fI· /2dzyűè 9yØλN2yYˇŜyűI·f [I·yŘă /2yãŜNØI·ûλ2yˇtN2ƎNJI·Yˇ
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- ∉ 5λăyŜè LYˇI·ƎλyŜŜNλyƎ
- ∉ {2dzűKLJ2NŰ wI·yŎKΣ [[/
- ∉ {dzōdzNōI·yˇ[I·yŘ wŜăŜNØŜ
- ∉ ¢I·ØλăűŽŎ]

DŜyŜNJI·f λăădzŜă NJI·λăŜŘ ōè ûKŜ ƎN2dzLJ λyŎfdzŘŜŘY

- ∉ I I·ōλűI·ű ŎŽNNλŘŽNă yŜŜŘ ű2 ōŜ λŘŜyűλŦλŜŘ ű2 Ŏ2yãλŘŜNJ N2I·ŘǿI·è I·fλƎyYˇŜyűă I·yŘ ûKŜ ySŜŘ Ŧ2N dzyŘŜNLJI·ăăŜă Ŧ2N ǿλfŘfλŦŜΣ I·ă ǿŜft I·ă Ŧ2N YˇI·λyűŜy1·yŎŜ I·yŘ NŜŎNŜI·ûλ2y1·f dzăŜΦ /2ăű λyŎNŜI·ăŜă λyŎdzNNŜŘ ōè I·ƎŜyŎλŜă YˇI·yI·ƎλyƎ I·Ř?I·ŎŜyű fI·yŘă ăK2dztŘ ōŜ Ŏ2yãλŘŜNŜŘΦ

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- ! ŏƨϒLJNŜKŜyãλØŜ Yλűλ∃l·űλ2y˙LJl·Ŏ˺l·∃Ŝ ØKλŎK Ŏƨyãλ ŘŜNă l·ff ŜÈLJNŜăăØl·è ăŜ∃YˆŜyűă ăK2dzfŘ ōŜ Ŏƨyãλ ŘŜNŜŘΦ [l·˺Ŝ /2yfλyκ[l·˺Ŝ · Øl·ă NŜŎƨϒYˆŜyŘŜŘ ŦƨN Yˆλűλ∃l·űλ2yΦ
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bƨ ăLJŜŎλŦλŎ Ŏƨyŏ ŜNyã dzyλljdzŜ ű2 űKŜ tƨλyŎλl·yl· tl·N˺Ølè 9ÈűŜyãλ2yκLπn /2yỳŜŎűƨN ØŜNŜ ŜÈLJNŜăăŜŘΦ

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¢KŜ ŦλNăű t ! D YˆŜŜűλyƎ Øl·ă KŜfŘ 2yˆWdzfè мфΣ нлмт l·yŘ λűă LJdzNLJ2ăŜ Øl·ă ű2 NŜØλŜØ úKŜ LJN2ŜŎű l·yŘ LJNŜăŜyű l·yˆdzLJŘl·úŜ 2yˆúKŜ ăűl·údză 2Ŧ LJ2ûŜyűλl·f λYˆLJl·Ŏűă¢ ¢KŜNŜ ØŜNŜ мп l·ûűŜyŘŜŜăΣ λyŎfdzŘλyƎ NŜLJNŜăŜyűl·úλØŜă ŦN2Yˆ úKŜ Ŧ2ff2ØλyƎY

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- hăŎŜ2fl· /2dzyűè yƨűŜŘ ŘŜØŜf2LJYˆŜyű LJfl·yỳŜŘ λyˆűKŜ ăűdzŘè l·NŜl· l·yŘ űKl·ú ŘŜØŜf2LJYˆŜyű Øl·ă 2ŎŎdzNNλyƎ Nl·LJλŘfèΦ
- CD¢ yƨűŜŘ dzűλfλűλŜă λyˆűKŜ ăűdzŘè l·NŜl·Φ
- t2f˺ /2dzyűè yƨűŜŘ l·yˆl·∃NŜŜYˆŜyű ōŜűØŜŜyˆt2f˺ /2dzyűèΣ hăŎŜ2fl· /2dzyűèΣ l·yŘ hăŎŜ2fl· /2dzyűè 9ÈLJNŜăăØl·è !dzűK2NλűèűKl·ú l·yˆλyűŜNŎKl·yƎŜ ØλfŧōŜ LJN2ØλŘŜŘ ØλúK YλyỳŜè I l·NYˆ2yˆw2l·Ř λŦ t2λyŎλl·yl· tl·N˺Ølè λă ŜÈűŜyŘŜŘ ŦdzNúKŜN yƨNúKΦ
- t2f˺ /2dzyűè l·fă2 yƨűŜŘ űKl·ú ŘŜØŜf2LJYˆŜyű λă 2ŎŎdzNNλyƎ λyˆűKŜ ăűdzŘè l·NŜl·Φ
- t2f˺ /2dzyűè LJNŜŦŜNă úKl·ú úKŜ Kλăű2NλŎ [2dzƎKYˆl·yˆl·NŜl· ōŜ l·Ø2λŘŜŘΣ l·ă ØŜft l·ă űKŜ /2dzyűèΩă [2dzƎKYˆl·yˆtl·N˺ΦΦ

¢KŜ ăŜŎ2yŘ t ! D YˆŜŜűλyƎ Øl·ă KŜfŘ 2yˆCŜōNdzl·Nè yΣ нлмуΦ ¢KŜ LJdzNLJ2ăŜ 2Ŧ úKλă YˆŜŜűλyƎ Øl·ă ű2 NŜØλŜØ úKŜ ăűdzŘè ŦλyŘλyƎă l·yŘ NŜŎŜλØŜ λyˆLJdzű ŦN2Yˆ úKŜ t ! DΦ ¢KŜNŜ ØŜNŜ мп l·ûűŜyŘŜŜăΣ λyŎfdzŘλyƎ NŜLJNŜăŜyűl·úλØŜă ŦN2Yˆ úKŜ Ŧ2ff2ØλyƎY

- C5h¢Σ 5λăúNλŎű CλØŜ
- C¢9
- CD¢

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- ∉ aŜűNƵ2tfl·y˙hNƵfl·yŘ2 óY˙Ŝű 2y˙CŜōNƵdzl·NƵè cΣ нлмyú
- ∉ hăŎŜ2fl· /2dzyűè tfl·yŷλyƎ
- ∉ hăŎŜ2fl· /2dzyűè ¢NƵl·yãLJ2NƵűl·űλ2y˙
- ∉ t2f] /2dzyűè w2l·Řă ɔ 5NƵl·λyl·ƎŜ 5λØλăλ2y˙óY˙Ŝű 2y˙CŜōNƵdzl·NƵè cΣ нлмyú
- ∉ t2f] /2dzyűè ¢NƵl·yãLJ2NƵűl·űλ2y˙tfl·yŷλyƎ hNƵƎl·yλÎl·űλ2y˙óY˙Ŝű 2y˙CŜōNƵdzl·NƵè cΣ нлмyú
- ∉ t2f] /2dzyűè .2l·NƵŘ 2Ŧ /2dzyűè /2Y˙Yλăăλ2yŜNƵă
- ∉ t2λyŎλl·yl· !NƵŜl· /Kl·Y˙ōŜNƵ 2Ŧ /2Y˙YŜNƵÔŜ
- ∉ wŜdzyλ2y˙/2Y˙Ydzyλűè 5ŜØŜf2LJY˙Ŝyű 5λăúNƵXŎű
- ∉ wŜdzyλ2y˙5ŜØŜf2LJY˙Ŝyű wŜăλŘŜyűă
- ∉ {2fl·Øλúl· wŜăλŘŜyű
- ∉ {l·ōl·f ¢NƵl·λf ¢NƵl·yãY˙λăăλ2y˙tλLJŜfλyŜ
- ∉ ² l·fű 5λăyŜè ² 2NƵfŘ

/2Y˙Y˙Ŝyűă l·NƵŜ ădzY˙Y˙l·NƵλÎŜŘ ōŜf2øY

- ∉ hăŎŜ2fl· /2dzyűè NƵŜljdzŜăúŜŘ űKl·ú /C· Ô22NƵŘλyl·ûŜ øλúK hăŎŜ2fl· l·yŘ t2f] /2dzyűλŜă 2y˙úKŜ LJNƵ2?ŜŎűφ
- ∉ t2f] /2dzyűè ăűl·ŦŦ øλff λyŦ2NƵY˙ űKŜλNƵ ō2l·NƵŘ 2Ŧ űKŜ ăűdzŘè ŦλyŘλyƎăφ

y¢H¢o [h/ ! [Dh±9wb a9b¢ ! [9b¢L¢L9{

¢KŜ ăűdzŘè űŜl·Y˙ Y˙Ŝű øλúK űKŜ Ŧ2ff2øλyƎ f2ŎI·f Ǝ2ØŜNƵyY˙Ŝyű Ŝyűλúλŝăʏ

- ∉ hăŎŜ2fl· /2dzyűè
- ∉ wŜŜŘè /NƵŜŜ] LY˙LJNƵ2ØŜY˙Ŝyű 5λăúNƵXŎű ów/L5ú
- ∉ t2f] /2dzyűè

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hy˙ a l·è oмΣ нлмтΣ űKŜ ăűdzŘè űŜl·Y˙ Y˙Ŝű øλúK hăŎŜ2fl· /2dzyűè ăűl·ŦŦ ű2 λyŦ2NƵY˙ űKŜY˙ l·ō2dzű űKŜ ăűdzŘè l·yŘ LJNƵ2ØλŘŜ űKŜY˙ øλúK l·y˙2LJLJ2NƵúdzyλűè ű2 LJNƵ2ØλŘŜ λyŦ2NƵY˙l·ûλ2y˙ű2 űKŜ Ô2yãdzfűl·yű ûŜl·Y˙ Ô2yŘdzÔűλyƎ úKŜ ăűdzŘèφ LŰ øl·ă y2ŰŜŘ úKl·ű úKŜNƵŜ l·NƵŜ Y˙l·yè Ô2yãúNƵl·λyűă øλúKλy˙úKŜ ăűdzŘè l·NƵŜl·Σ λyÔfdzŘλyƎ ăŜØŜNƵl·f dzűλfλűè ădzōăűl·ûλ2yãΣ ŜÈλăűλyƎ ŘŜØŜf2LJY˙ŜyűΣ ÔKdzNƵÔKŜăΣ NƵŜăλŘŜyÔŜăΣ l·yŘ Ô2yãŜNƵØl·ûλ2y˙l·NƵŜl·ă¢ ¢NƵl·yãλú ăŜNƵØλÔŜ l·f2yƎ úKŜ ŜÈLJNƵŜăăøl·è øl·ă ŘλăÔdzăăŜŘφ ¢KŜ /2dzyűè0ă /2Y˙LJNƵŜKŜyãλØŜ tfl·y˙λyÔfdzŘŜă tNƵŜY˙λdzY˙ ¢NƵl·yãλú l·f2yƎ úKŜ ŜÈLJNƵŜăăøl·è óűKŜ ălJŜÔλŦλÔ Y˙2ŘŜ λă y2ű λŘŜyűλŦλŜŘúφ !ű űKλă ûλY˙SΣ úKŜ /2dzyűè Ř2Ŝă y2ű Kl·ØŜ ŦdzyŘλyƎ LJNƵ2ΣŜÔűŜŘ Ŧ2NƵ LJNƵŜY˙λdzY˙ ûNƵl·yãλú λy˙úKŜ Ô2NƵNƵXŘ2NƵT K2øŜØŜNƵΣ úKŜ /2dzyűè ø2dzfŘ fλ]Ŝ úKŜ úèLJλÔl·f ăŜÔűλ2y˙Ŧ2NƵ úKŜ ŜÈLJNƵŜăăøl·è ű2 l·ÔÔ2Y˙Y˙2Řl·ûŜ ûNƵl·yãλúφ Cdzúdzλ0Ŝ l·dzű2Y˙l·ûŜŘ ØŜKλÔfŜă ăK2dzfŘ l·fă2 ōŜ Ô2yãλŘŜNƵŜŘφ tfl·yŷŜŘ ŘŜØŜf2LJY˙Ŝyűă λy˙úKŜ l·NƵŜl· øŜNƵŜ ŘλăÔdzăăŜŘφ Lú øl·ă y2ûŜŘ úKl·ú úKŜ /2dzyűè dzLJŘl·ûŜă úKŜ ŘŜØŜf2LJY˙Ŝyű Řl·úl· 2y˙úKŜλNƵ C¢t ăλúŜ Y˙2yűKfè ű2 NƵŜŦfŜÔű ÔdzNƵNƵŜyű λyŦ2NƵY˙l·ûλ2yφ {űl·ŦŦ øl·ă NƵŜljdzŜăúŜŘ ű2]ŜŜLJ W2ăK 5Ŝ±NƵXŜă λyŦ2NƵY˙ŜŘ l·ă KŜ øλff Ŧ2NƵøl·NƵŘ úKŜ λyŦ2NƵY˙l·ûλ2y˙ű2 úKŜ ăűdzŘè ûŜl·Y˙φ

hy˙ a l·è oмΣ нлмтΣ űKŜ ăűdzŘè ûŜl·Y˙ Y˙Ŝű øλúK w/L5 ăűl·ŦŦ ű2 ăKl·NƵŜ λyŦ2NƵY˙l·ûλ2y˙l·ō2dzű úKŜ ăűdzŘè l·yŘ NƵŜÔŜλØŜ λyLJdzű ŦNƵ2Y˙ w/L5φ ¢KŜNƵŜ øl·ă ŘλăÔdzăăλ2y˙NƵŜƎl·NƵŘλyƎ LJNƵ2LJŜNƵûè 2øyŜŘ ōè w/L5Σ LJNƵ2LJŜNƵûè 2øyŜŘ ōè /ŜfŜōNƵl·ûλ2yΣ úKŜ w/L5 /2yãŜNƵØl·ûλ2y˙ !NƵŜl·Σ l·ă øŜff l·ă 2úKŜNƵ dzűλfλűλŜă λy˙úKŜ l·NƵŜl·φ w/L5 ăűl·ŦŦ 2ŦŦŜNƵŜŘ ű2 ól·yŘ fl·ûŜNƵ ŘλŘú ăŜyŘ YλY˙fŜèπ l 2NƵy˙DŜ2ƎNƵl·LJKλÔ Ly˙Ŧ2NƵY˙l·ûλ2y˙{èăűŜY˙ óDL{ú λy˙Ŧ2NƵY˙l·ûλ2y˙ű2 Ôfl·NƵλŦè úKŜ ō2dzyŘl·NƵλŜă 2Ŧ úKŜ Ô2yãŜNƵØl·ûλ2y˙l·yŘ Y˙λûλƎl·ûλ2y˙l·NƵŜl·ă¢ ¢KŜ ăűdzŘè ûŜl·Y˙ LJNƵŜăŜyűŜŘ l· LJNƵŜØλ2dzăfè ŜØl·fdzl·ûŜŘ λyűŜNƵÔKl·yƎŜ Ô2yÔŜLJű Ŧ2NƵ t2λyÔλl·yl· tl·NƵ]øl·è 9ÈűŜyãλ2y˙ű2 Lπn øKλÔK λyÔfdzŘŜŘ l· Nl·Y˙LJ øKλÔK úNƵl·ØŜfŜŘ l·f2yƎ úKŜ Ŝl·ăű ălŘŜ 2Ŧ úKŜ CD¢ ădzōăűl·ûλ2yó2y˙w/L5 LJNƵ2LJŜNƵûèú l·yŘ l·ă]ŜŘ w/L5 úKŜλNƵ úK2dzƎKűă φ w/L5 y2ûŜŘ úKl·ú úKŜè l·NƵŜ y2ű 2LJLJ2ăŜŘ ű2 l· Nl·Y˙LJ λy˙úKl·ú f2Ôl·ûλ2yT K2øŜØŜNƵΣ úKŜè øl·yű λű ű2 ăűl·è 2dzű 2Ŧ úKŜλNƵ Ô2yãŜNƵØl·ûλ2y˙l·NƵŜl·φ w/L5 l·fă2 y2ûŜŘ úKl·ű úKŜNƵŜ l·NƵŜ LJ2øŜNƵ úNƵl·yãY˙λăăλ2y˙fλySă λy˙úKŜ l·NƵŜl· øKλÔK ōŜÔ2Y˙Ŝ l· Ô2yãúNƵl·λyűφ ¢KŜ

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¢КŜ ăΰdzŘè ΰŜl·Y Y Ŝΰ ø⅄ΰK ΰКŜ ŦƨfƨøλyƎ ăΰl·⅂ŜK2fŘŜℕăY

- ∉ C5h¢
- ∉ h/·
- ∉ CD¢
- ∉ 5λăySè
- ∉ /Kl·YLJλ2yãDl·ΰŜ /2YYdzyλΰè 5ŜØŜf2LJYŜyΰ 5λăΰℕλÕΰ ó/55ú .2l·ℕŘ 2Ŧ {dzLJŜℕØλă2ℕă
- ∉ wL5! 5ŜØŜf2LJYŜyΰ /2ℕLJ2ℕl·ΰλ2y
- ∉ wŜdzyλ2y/55 .2l·ℕŘ 2Ŧ {dzLJŜℕØλă2ℕă
- ∉ Ddzf⊤ăΰℕŜl·Y ¦ΰλfλΰλŜă
- ∉ C¢9
- ∉ [2dzƎKYl·y/2YYdzyλΰè
- ∉ W2Ŝ hℕΰ óLJℕ2LJŜℕΰè 2øyŜℕú

hy a l·è нрΣ нлмтΣ ΰKŜ ăΰdzŘè ΰŜl·Y YŜΰ øλΰK C5h¢ 5λăΰℕλÕΰ CλØŜ ó{ŜÕℕŜΰl·ℕè a l·ℕΰλyΰ l·yŘ h/· ó/Kl·λℕYl·y aŜℕÕŜℕ l·yŘ 9ÈŜÕdzΰλØŜ 5λℕŜÕΰ2ℕ hf2ℕŜΰ℗ /Kl·λℕYl·y aŜℕÕŜℕ ŜÈLJfl·λyŜŘ K2ø ΰKŜ /2dzyΰè ø2dzfŘ fλ]Ŝ ΰ2 ŜÈΰŜyŘ t2λyÕλl·yl· tl·ℕ]øl·è ΰ2 /φw℗ ронΣ øKλÕK ø2dzfŘ λYLJℕ2Ø$ l·ÕÕŜăă ΰ2 Lπп l·yŘ ℕŜfλŜØŜ Õ2yƎŜăΰλ2y2y[l·]Ŝ ² λfă2y w2l·Ř l·yŘ ΰKŜ λyΰŜℕăŜÕΰλ2y2Ŧ ¦φ{φ мткфн l·yŘ /φw℗ ронφ ¢KŜ /2dzyΰè ΰKλy]ă ΰKλă ăă l·y λyΰŜℕλY Õ2yyŜÕΰλ2y øKλÕK Õ2dzfŘ õŜ ŜÈΰŜyŘŜŘ ΰ2 Lππφ {ŜÕℕŜΰl·ℕè a l·ℕΰλy l·Ǝℕ$ŜŘ ΰKl·ΰ λΰ ø2dzfŘ õŜ Ǝ22Ř ΰ2 λŘŜyΰλŦè l·y λyΰŜℕλY Õ2yyŜÕΰλ2y ΰ2 /φw℗ рон l·yŘ y2ΰŜŘ ΰKŜ ¦fΰλY l·ΰŜ tℕ2¿SÕΰ 5ŜØŜf2LJYŜyΰ l·yŘ 9yØλℕ2yYŜyΰ ót5ɔ9ú ăΰdzŘè ŘλŘ y2ΰ Õ2yăλŘŜℕ l·y λyΰŜℕÕKl·yƎŜ øλΰK t2λyÕλl·yl· tl·ℕ]øl·è 9ÈΰŜyãλ2y℗

hy a l·è олΣ нлмтΣ ΰKŜ ăΰdzŘè ΰŜl·Y YŜΰ øλΰK CD¢ ΰ2 ŘλăÕdzăă ΰKŜ LJℕ2¿SÕΰ l·yŘ CD¢ Ŧl·ÕλfλΰλŜă l·yŘ Ŝl·ăŜYŜyΰă øλΰKλyΰKŜ ăΰdzŘè l·ℕŜl·φ CD¢ Kl·ă l· ăYl·ff YŜΰŜℕλyƎ ăΰl·ΰλ2y2yΰKŜ y2ℕΰKŜl·ăΰ ăλŘŜ 2Ŧ ΰKŜ Lπпκ{φw℗ пнф λyΰŜℕÕKl·yƎŜ℗ Ly l·ŘŘλΰλ2yΣ CD¢ Kl·ă l·y мупλyÕK KλƎKπLJℕŜăădzℕŜ yl·ΰdzℕl·f Ǝl·ă LJλLJŜfλyŜΣ l· ăYl·ff YŜΰŜℕλyƎ ăΰl·ΰλ2yΣ l·yŘ l· fl·ℕƎŜℕ õ22ăΰŜℕκYŜΰŜℕλyƎκØŜyΰλyƎ ăΰl·ΰλ2y2yΰKŜ ă2dzΰKŜl·ăΰ ăλŘŜ 2Ŧ ΰKŜ Lπпκ{φw℗ пнф λyΰŜℕÕKl·yƎŜ℗ ¢KŜ fl·ℕƎŜℕ õ22ăΰŜℕκYŜΰŜℕλyƎκØŜyΰλyƎ ăΰl·ΰλ2yăŜℕØŜă l·ă l·y λyΰŜℕÕ2yyŜÕΰ øλΰK Ddzf⊤ăΰℕŜl·Y bl·ΰdzℕl·f Dl·ă l·yŘ {l·ōl·f ¢ℕl·λf ¢ℕl·yãYλăăλ2y℗ !ÕÕŜăă λă LJℕ2ØλŘŜŘ Fℕ2Y htŘ [l·]Ŝ ² λfă2y w2l·Ř·Lΰ øl·ă y2ΰŜŘ ΰKl·ΰ Õ2yyŜÕΰλyƎ ΰKŜ t2λyÕλl·yl· tl·ℕ]øl·è 9ÈΰŜyãλ2yKLπп /2yyŜÕΰ2ℕ ΰ2 Lπп l·ΰ {φw℗ пнф ø2dzfŘ fλ]Ŝfè ℕŜljdzλℕŜ ŜfŜØl·ΰŜŘ ℕl·YLJă yŜl·ℕ CD¢Ωă õ22ăΰŜℕκYŜΰŜℕλyƎκØŜyΰλyƎ ăΰl·ΰλ2y℗ CD¢ ăΰl·ΰŜŘ ΰKl·ΰ l·Ŝℕλl·f ŜyÕℕ2l·ÕKYŜyΰ 2Ŧ CD¢ LJℕ2LJŜℕΰè λă y2ΰ l·ÕÕŜLJΰl·õfŜ l·yŘ øλff y2ΰ õŜ LJŜℕYλΰΰŜŘ℗ bŜλΰKŜℕ ø2dzfŘ ℕŜΰl·λyλyƎ ø l·ffăΣ Ŧ2dzyŘl·ΰλ2yãΣ 2ℕ 2ΰKŜℕ ăΰℕdzÕΰdzℕŜă℗ CD¢ y2ΰŜŘ ΰKl·ΰ l·ff Õℕ2ăăλyƎă 2Ŧ CD¢ Ŧl·ÕλfλΰλŜă l·yŘκ2ℕ fl·yŘă 2Ŧ LJℕ2LJŜℕΰè ℕλƎKΰă øλff yŜŜŘ ΰ2 õŜ l·ÕÕ2YLJfλăKŜŘ λy l·ÕÕ2ℕŘl·yÕŜ øλΰK CD¢Ωă ÕdzℕℕŜyΰ ŜyƎλyŜŜℕλyƎ l·yŘ Õ2yăΰℕdzÕΰλ2yăLJŜÕλŦλÕl·ΰλ2yã℗

hyWdzyŜ pΣ нлмтΣ ΰKŜ ăΰdzŘè ΰŜl·Y YŜΰ øλΰK 5λăySè ăΰl·Ŧŧ ΰ2 ăKl·ℕŜ λyŦ2ℕYl·ΰλ2yl·õ2dzΰ ΰKŜ ăΰdzŘè l·yŘ ΰ2 ℕŜÕŜλØŜ λyLJdzΰ Fℕ2Y 5λăySè℗ 5λăySè YŜyΰλ2yŜŘ ΰKl·ΰ ΰKŜè Kl·ØŜ l·y λyΰŜℕŜăΰŜŘ õdzèŜℕ Ŧ2ℕ ΰKŜλℕ LJℕ2LJŜℕΰè fzÕl·ΰŜŘ y2ℕΰK 2Ŧ ΰKŜ ŜÈLJℕŜăăø l·è l·fλƎyYŜyΰ Õ2yyŜÕΰλyƎ ΰ2 Lπп l·ΰ {φw℗ пнф℗ ¢KŜè l·yΰλÕλLJl·ΰŜ Õf2ălyƎ ΰKŜ ăl·fŜ

ōè ΰΚŜ ŜyŘ 2ŧ нлмт¢ 5ƛăyŜè ăΰIꞏŦŦ YꞏŜyΰƛ2ySŘ ΰΚŜ№Ŝ ƛă LJfIꞏyySŘ IꞏŘŘƛΰƛ2yƛꞏf IꞏÕÕŜăă ŦN2Y ΰΚƛă LJN2LJŜNΰûè ΰ2 ΰΚŜ ă2dzΰΚ óΰ2 /¢w¢ ронú Iꞏΰ ΰΚŜ №ŜIjdzŜăΰ 2ŧ hăÕŜ2fIꞏ /2dzyΰè¢ ¢ΚŜ /2dzyΰè ǿƛff LJN2ØƛŘŜ ΰΚŜ NƛƎΚΰπ2ŦπǿIꞏè IꞏyŘ 5ƛăyŜè ǿƛff Õ2yãΰNdzÕΰ ΰΚŜ N2IꞏŘǿIꞏè¢ t2ƛyÕƛIꞏyꞏ tIꞏN]ǿIꞏè 9ÈΰŜyãƛ2yĸLπп /2yŷŜÕΰ2N IꞏfƛƎyYꞏŜyΰă ΰΚN2dzƎK ΰΚƛă IꞏN№Ŝꞏ ăK2dzfŘ IꞏÕÕ2YꞏY2ŘIꞏΰŜ ΰΚƛă Õ2yŷŜÕΰƛ2y¢

hyꞏWdzyŜ нлΣ нлмтΣ ΰΚŜ ăΰdzŘè ΰŜIꞏY ꞏYŜΰ ǿƛΰK ΰΚŜ /ΚIꞏYLJƛ2yãDIꞏΰŜ /55 .2IꞏNŘ 2ŧ {dzLJŜNØƛă2Nă ΰ2 ăΚIꞏN№Ŝ ƛyŦ2NYꞏIꞏΰƛ2yꞏIꞏō2dzΰ ΰΚŜ ăΰdzŘè IꞏyŘ ΰ2 NŜÕŜ№ØŜ ΰΚŜ№ ƛyŁJdzΰ¢ Lΰ ǿIꞏă yΣΰŜŘ ΰΚIꞏΰ ΰΚŜ№Ŝ ƛă ăƛƎyƛŦƛÕIꞏyΰ Õ2yƎŜăΰƛ2yꞏ Iꞏΰ ΰΚŜ ŜÈƛăΰƛyƎ /¢w¢ ронкLπп ƛyΰŜNÕΚIꞏyƎŜ¢ ¢ΚŜ Õ2yƎŜăΰƛ2yꞏΚIꞏă Ǝ2ΰΰŜyꞏăƛƎyƛŦƛÕIꞏyΰfè ǿ2N№ăŜ 2ØŜN ΰΚŜ fIꞏăΰ Õ2dzLJfŜ 2ŧ èŜIꞏN№ăΣ fƛ]Ŝfè ŘdzŜ ΰ2 ƛyÕNŜIꞏăŜŘ ŘŜØŜf2LJYŜyΰ ƛyꞏΰΚŜ IꞏN№ŜIꞏ Iꞏă ǿŜff Iꞏă ΰΚŜ 2LJŜyƛyƎ 2ŧ t2ƛyÕƛIꞏyꞏ tIꞏN]ǿIꞏè¢ {ƛƎyƛŦƛÕIꞏyΰ Õ2yƎŜăΰƛ2yꞏ2ÕÕdzN№ă 2yꞏΰΚŜ ǿŜăΰō2dzyŘ Lπп 2ŦŦπNIꞏYLJ IꞏyŘ ΰΚŜ ŜIꞏăΰō2dzyŘ Lπп 2yπNIꞏYLJ¢ 9Iꞏăΰō2dzyŘ ΰNIꞏŦŦƛÕ 2yꞏ /ΚIꞏYLJƛ2yã DIꞏΰŜ .2dzfŜØIꞏNŘ ΰΚN2dzƎK ΰΚŜ ƛyΰŜNÕΚIꞏyƎŜ IꞏfăΣ ŜÈLJŜN№ŜyÕŜă ăƛƎyƛŦƛÕIꞏyΰ Õ2yƎŜăΰƛ2y¢ Lΰ ǿIꞏă yΣΰŜŘ ΰΚIꞏΰ ΰΚŜ№Ŝ ΚIꞏØŜ ōŜŜyꞏăIꞏŦŜΰè ƛăădzŜă IꞏΰΣ IꞏyŘ ƛyꞏΰΚŜ ØƛÕΚyƛΰƛfè 2ŦΣ ΰΚƛă ƛyΰŜNÕΚIꞏyƎŜ ǿƛΰK yΰzYꞏŜN2dză ÕNIꞏăΚŜă 2ÕÕdzNNƛyƎ¢ ¢ΚŜ NŜÕŜyΰ NŜăΰNƛÕΰƛ2yã 2ŧ yΣ№ΰΚō2dzyŘ IꞏyŘ ă2dzΰΚō2dzyŘ fŜŦΰ ΰdzNyã IꞏyŘ ΰΚN2dzƎK YΣØŜYŜyΰă Iꞏΰ ΰΚŜ ƛyΰŜNăŜÕΰƛ2yꞏ2ŧ {2dzΰK D22ŘYꞏIꞏyꞏw2IꞏŘ IꞏyŘ /ΚIꞏYLJƛ2yã DIꞏΰŜ .2dzfŜØIꞏNŘ ΚIꞏØŜ NŜŘdzÕŜŘ ΰΚŜ yΰzYꞏōŜN 2ŧ ÕNIꞏăΚŜă ŜÈLJŜNƛŜyÕŜŘ Iꞏΰ ΰΚƛă ƛyΰŜNăŜÕΰƛ2y¢ . IꞏăŜŘ 2yꞏΰΚŜ ƛyƛΰƛIꞏf ƛyŦ2NYꞏIꞏΰƛ2yΣ IꞏyŘ ΰΚŜNΝ]yΣǿfŜŘƎŜ 2ŧ ΰNIꞏŦŦƛÕ ƛyꞏΰΚŜ IꞏN№SIꞏΣ ΰΚŜ tΣƛyÕƛIꞏyꞏ tIꞏN]ǿIꞏè 9ÈΰŜyãƛ2yĸLπп /2yŷŜÕΰ2N ΰ2 Lπп Iꞏΰ {¢w¢ пнф ƛă LJN№ŜŦŜNN№ŜŘ ΣØŜN Õ2yŷŜÕΰƛyƎ ƛΰ ΰ2 Lπп Iꞏΰ /¢w¢ рон¢

hyꞏWdzyŜ нмΣ нлмтΣ ΰΚŜ ăΰdzŘè ΰŜIꞏY ꞏYŜΰ ǿƛΰK wL5! 5ŜØŜf2LJYꞏŜyΰ /2NLJ2NIꞏΰƛ2yΣ ΰΚŜ ŘŜØŜf2LJŜN 2ŧ /ΚIꞏYLJƛ2yãDIꞏΰŜΣ ΰ2 ăΚIꞏN№Ŝ ƛyŦ2NYꞏIꞏΰƛ2yꞏIꞏō2dzΰ ΰΚŜ ăΰdzŘè IꞏyŘ ΰ2 N№ŜÕŜƛØŜ ΰΚŜ№ ƛyŁJdzΰ¢ hŦ ΰΚŜ ΰǿ2 LJ2ΰŜyΰƛIꞏf ŜÈLJN№ŜăăǿIꞏè Õ2yŷŜÕΰƛ2yã ΰ2 Lπп óIꞏΰ /¢w¢ рон 2N Iꞏΰ {¢w¢ пнфΰΣ wL5! ŜÈLJN№ŜăăŜŘ ΰΚIꞏΰ ΰΚŜ Õ2yŷŜÕΰƛ2yꞏIꞏΰ {¢w¢пнф ǿIꞏă LJN№ŜŦŜNN№ŜŘ ŘdzŜ ΰ2 fŜăă ƛYꞏLJIꞏÕΰă ΰ2 Lπп ōŜΰǿŜŜy{¢w¢ пнф IꞏyŘ /¢w¢ ронΣ ǿΚƛÕΚ ƛă ÕdzNNN№Ŝyΰfè ŜÈLJŜN№ƛŜyÕƛyƎ ăƛƎyƛŦƛÕIꞏyΰ Õ2yƎŜăΰƛ2yꞏIꞏyŘ ăΰIꞏÕ]ƛyƎ ƛăădzŜă Ŧ2N ΰNIꞏŦŦƛÕ ƎŜΰΰƛyƎ 2yꞏIꞏyŘ 2ŦŦ Lπп ŦN2Y /¢w¢ рон¢ ¢ΚŜ Õ2yÕŜLJΰdzIꞏf ƛyΰŜNÕΚIꞏyƎŜ Ŧ2N ΰΚŜ ŜÈLJN№ŜăăǿIꞏè Õ2ŷŷŜÕΰƛ2yꞏIꞏΰ /¢w¢ рон ƛă IꞏÕÕŜLJΰIꞏōfŜ ΰ2 wL5! ŦK2ǿŜØŜN№Σ ƛΰ YꞏIꞏè ŜyÕN2IꞏÕK 2yꞏΰΚŜ IꞏLJIꞏNΰYꞏŜyΰă ÕdzNNN№Ŝyΰfè dzyŘŜN№ Õ2yãΰNdzÕΰƛ2yꞏƛyꞏΰΚŜ ă2dzΰΚǿŜăΰ IjdzIꞏŘNIꞏyΰ 2ŦΰΚŜ Lπпκ/¢w¢ рон ƛyΰŜNÕΚIꞏyƎŜ IꞏyŘ ΰΚŜ IꞏŘ2IꞏÕŜyΰ NIꞏYLJ YꞏèySŜŘ ΰ2 ōŜΰƎΚΰŜyŜŘ dzLJ¢ wL5! LJN2ØƛŘŜŘ IꞏăΰΚŜ LJfIꞏyꞏŦ2N ΰΚŜ IꞏLJIꞏNΰYꞏŜyΰă¢ wL5! LJN2ØƛŘŜŘ IꞏŘŘƛΰƛ2yꞏIꞏf ƛyŦ2NYꞏIꞏΰƛ2yꞏIꞏyŘ IꞏăΰΚŜ LJfIꞏyꞏŦ2N ΰΚŜ [ŜƎIꞏÕè /IꞏfIꞏǿIꞏfꞏ] IꞏLJIꞏNΰYꞏŜyΰă dzyŘŜN№ Õ2yãΰNdzÕΰƛ2yꞏ2yꞏΰΚŜ ă2dzΰΚ ăƛŘŜ 2ŧ /¢w¢ ронΣ ŜIꞏăΰ 2ŧ Lπп¢

hyꞏWdzyŜ ннΣ нлмтΣ ΰΚŜ ăΰdzŘè ΰŜIꞏY ꞏYŜΰ ǿƛΰK ΰΚŜ wŜdzyƛ2yꞏ /55 .2IꞏNŘ 2ŧ {dzLJŜNØƛă2Nă ΰ2 ăΚIꞏN№Ŝ ƛyŦ2NYꞏIꞏΰƛ2yꞏIꞏō2dzΰ ΰΚŜ ăΰdzŘè IꞏyŘ ΰ2 N№ŜÕŜƛØŜ ΰΚŜ№ ƛyŁJdzΰ¢ a ŜYꞏōŜN№ ădzƎƎŜăΰŜŘ IꞏfƛƎyƛyƎ н! ŘN№ŜÕΰfè IꞏŘ2IꞏÕŜyΰ ΰ2 ΰΚŜ {IꞏōIꞏf ¢NIꞏΛf ƎIꞏă fƛyŜΣ ăΰIꞏΰƛyƎ ΰΚIꞏΰ ΰΚƛă ǿ2dzfŘ LJN2ØƛŘŜ IꞏŘŘƛΰƛ2yꞏIꞏf ăŜLJIꞏNIꞏΰƛ2yꞏŦN2Y ΰΚŜ wŜdzyƛ2yꞏLJN2LJŜNΰûè¢ !yꞏ ƛyΰŜNÕΚIꞏyƎŜ Õ2yÕŜLJΰ ǿIꞏă LJN№ŜăŜyΰŜŘ ǿΚƛÕΚ ΚIꞏă ΰΚŜ ŜÈLJN№ŜăăǿIꞏè ΰNIꞏØŜfƛyƎ 2yꞏΰΚŜ yƛ2N№ΰK ăƛŘŜ 2ŧ ΰΚŜ CD¢ IꞏyŘ DdzfŦăΰN№ŜIꞏY bIꞏΰdzNIꞏf DIꞏă ō22ăΰŜN№ΚYꞏŜΰŜN№ƛyƎ ăΰIꞏΰƛ2y¢ ¢Κƛă Õ2yÕŜLJΰ ƛyÕfdzŘŜă IꞏNIꞏYLJ ΰΚIꞏΰ ǿ2dzfŘ ƛYꞏLJIꞏÕΰ ΰΚŜ ÕŜff ΰ2ǿŜN№ă 2yꞏΰΚŜ yƛ2N№ΰK ăƛŘŜ 2ŧ ΰΚŜ DdzfŦăΰN№ŜIꞏY ăΰIꞏΰƛ2yꞏLΰ ǿIꞏă yΣΰŜŘ ΰΚIꞏΰ ΰΚŜ LJN№2LJŜN№ΰûè dzăŜŘ ōè DdzfŦăΰN№ŜIꞏY IꞏyŘ ΰΚŜ ŐŜff ΰ2ǿŜN№ă ōŜf2yƎă ΰ2 [w! hN№fIꞏyŘ2Σ [[/¢ LΰǿIꞏă yΣΰŜŘ ΰΚIꞏΰ DdzfŦăΰN№ŜIꞏY dzăŜă ΰΚŜ LJN№2LJŜN№ûè IꞏÕÕ2N№ŘƛyƎ ΰ2 IꞏyꞏIꞏƎN№ŜŜYŜyΰ ǿƛΰK ΰΚŜ LJN№2LJŜN№ΰûè 2ǿyÕŜN№ LJN№ƛ2N№ ΰ2 [w! hN№fIꞏyŘ2¢ LΰǿIꞏă yΣΰŜŘ ΰΚIꞏΰ ΰΚŜ ÕŜff ΰ2ǿŜN№ ăƛ yΣΰ LJIꞏN№ΰ 2ŧ ΰΚŜ DdzfŦăΰN№ŜIꞏY ăΰIꞏΰƛ2y¢ ¢ΚŜ wŜdzyƛ2yꞏIꞏyŘ ΰΚŜ /¢w¢ рон IꞏfΰŜN№yꞏΰΚŜΰă ǿ2dzfŘ ăŜØŜN№ŜfèƛYꞏLJIꞏÕΰ ΰΚŜ ÕΚIꞏN№IꞏÕΰŜN№ 2ŧ /¢w¢ ронΣ ǿΚƛÕΚ ΚIꞏă ōŜŜyꞏyΰÕŜfè fIꞏyŘăÕIꞏLJŜŘ ΰ2 LJN№2ØƛŘŜ IꞏyꞏIꞏΰΰN№IꞏÕΰƛØŜ ƎIꞏΰŜǿIꞏè ΰ2 ΰΚŜ IꞏN№ŜIꞏ¢ hŦ ΰΚŜ IꞏfΰŜN№yꞏΰΚŜă óн!Σ oΣ IꞏyŘ o! ΰΣ ΰΚŜè LJN№ŜŦŜN№ н!¢

hyꞏWdzfè pΣ нлмтΣ ΰΚŜ ăΰdzŘè ΰŜIꞏY Õ2yŘdzÕΰŜŘ IꞏÕ2yŦŜN№ŜyÕŜ ÕIꞏff ǿƛΰK DdzfŦăΰN№ŜIꞏY ¦ΰƛfƛΰƛŜă ΰ2 ăΚIꞏN№Ŝ ƛyŦ2NYꞏIꞏΰƛ2yꞏIꞏō2dzΰ ΰΚŜ ăΰdzŘè IꞏyŘ ΰ2 N№ŜÕŜƛØŜ ΰΚŜ№ ƛyŁJdzΰ¢ DdzfŦăΰN№ŜIꞏY ΚIꞏă IꞏyꞏƛyΰŜN№Ó2yŷŜÕΰ ǿƛΰK CD¢Σ ¢9/h

tŜƨLJfŜă DI·ă I·yŘ Yλăăλ Y Y ŜŜ ¦ úλ₡úè ! dzúK2₦λúè f2ÕI·ûŜŘ I·f2yƎ úKŜ ă2dzúKŜI·ăú Õ2₦yŜ₦ 2₮ úKŜ мππк{Φw Φ пнф λyûŜ₦ÕKI·yƎŜΣ I·Ř?I·ÕŜyû û2 CD¢Ωă ō22ăúŜ₦ ăúI·úλ2y Φ ¢KŜè I·tă2 KI·ØŜ Y dztûλLJfŜ LJλLJŜf₡yŜă λY úKŜ ăúdzŘè I·₦ŜI· I·yŘ 2úKŜ₦ úKI·Y₦2I·Řø I·è Õ₦2ăăλyƎă Σ I·ff DdzfŦăú₦ŜI·Y LJλLJŜf₡yŜă I·₦Ŝ f2ÕI·ûŜŘ λY ŜI·ăŜY Ŝyûă Φ t₦ŜfλY λyl·₦è Lππк{Φw Φ пнф LyûŜ₦ÕKI·yƎŜ Õ2yÕŜLJúă ØŜ₦Ŝ ₦ŜØλŜØ øλúK DdzfŦăú₦ŜI·Y I·yŘ úKŜ Ŧ2ff2øλyƎ øŜ₦Ŝ Y I·?2₦ LJ2λyûă 2Ŧ úKŜ Řλă Õdzăăλ2y Y

- ∉ Lππк{Φw Φ пнф λyûŜ₦ÕKI·yƎŜ ŜĚúŜyãλ2y I·fúŜ₦yl·úλØŜă øλúK ₦I·Y LJă û2 úKŜ ă2dzűK 2Ŧ úKŜ DdzfŦăú₦ŜI·Y λyûŜ₦Õ2yyŜÕű ăλúŜ ø2dzfŘ fλ]Ŝfè ₦ŜIjdzλ₦Ŝ ŜfŜØI·ûŜŘ ₦I·Y LJă yŜI·₦ DdzfŦăú₦ŜI·YΩă I·ÕÕŜăă ₦2I·ŘΦ
- ∉ ! Ŝ₦λI·f ŜyÕ₦2I·ÕKY Ŝyû 2Ŧ DdzfŦăú₦ŜI·Y LJ₦2LJŜ₦úè λă y2ú I·ÕÕŜLJúI·ōfŜ I·yŘ øλff y2ú ōŜ LJŜ₦Y λúûŜŘΦ
- ∉ wI·Y LJă û2 úKŜ ă2dzúK 2Ŧ DdzfŦăú₦ŜI·Y LJ₦2LJŜ₦úè øλff fλ]Ŝfè λY LJI·Ŏú úKŜ ŜĚλăúλyƎ мсπλyÕK LJλLJŜf₡yŜΦ
- ∉ Lππк{Φw Φ пнф λyûŜ₦ÕKI·yƎŜ ŜĚúŜyãλ2y I·fúŜ₦yl·úλØŜă øλúK ₦I·Y LJă úKI·ú ∃2 û2 úKŜ y2₦ûúK 2Ŧ úKŜ DdzfŦăú₦ŜI·Y λyûŜ₦Õ2yyŜÕű ăλúŜ I·₦Ŝ LJ₦ŜŦŜ₦₦ŜŘ ōè DdzfŦăú₦ŜI·YΦ
- ∉ DdzfŦăú₦ŜI·Y ØŜyûλyƎ I·ÕûλØλúλŜă ăK2dzfŘ y2ú ōŜ I·yλăădzŜ Ŧ2₦ úKŜ I·fúŜ₦yl·úλØŜă ₦ŜØλŜøŜŘΦ ¢KŜ₦ ØŜyûλyƎ I·Õûλ Øλúλŝă I·₦Ŝ LJŜ₦Ŧ2₦Y ŜŘ I·ă I· LJI·₦ú 2Ŧ úKŜ₦ y2₦Y I·f 2LJŜ₦I·úλ2y I·yŘ y2ú û2 úKŜ ŜĚûŜyû 2Ŧ CD¢ ō22ăúŜ₦ ăĕăúŜY ØŜyûλyƎΦ

hy Wdzfè муΣ нлмтΣ úKŜ ăúdzŘè ûŜI·Y Y Ŝû øλúK C¢9Ωă ăúI·ŦŦ û2 ăKI·₦Ŝ λyŦ2₦Y I·úλ2y I·ō2dzú úKŜ ăúdzŘè I·yŘ û2 ₦ŜÕŜλØŜ úKŜ₦ λyLJdzûΦ ¢dz₦yLJλ]Ŝ ăúI·ŦŦ y2ûŜŘ úKI·ú λy ₦ŜălJ2yãŜ û2 I· ₦ŜIjdzŜăú Ŧ₦2Y C5h¢ 5λăú₦λÕú hyŜ I·yŘ úKŜ hăÕŜ2fI· /2dzyűè 9ĚLJ₦Ŝăăø I·è ! dzúK2₦λúèΣ úKŜè KI·Ř LJ₦ŜØλ2dzăfè Õ2yŘdzÕûŜŘ I·y λyŘŜLJŜyŘŜyú ŜØI·fdzI·úλ2y ű2 ŘŜûŜ₦Y λyŜ úKŜ ōŜăú Õ2yyŜÕûλ2y f2ÕI·úλ2y ű2 Lππ Ŧ2₦ I· yŜø ŜĚLJ₦ŜăăøI·è ă2dzúK 2Ŧ Lππ óλΦŜΦΣ /ŜyúNJI·f t2f] t I·₦]øI·è 2₦ t2λyÕλI·yl· t I·₦]øI·è 9ĚûŜyãλ2yúΦ ¢KŜ₦ Õ2yÕfdzăλ2y øI·ă úKŜ ōŜăú Õ2yyŜÕûλ2y f2ÕI·úλ2y ø2dzfŘ ōŜ I·ú úKŜ {Φw Φ пнф λyûŜ₦ÕKI·yƎŜΦ ¢dz₦yLJλ]Ŝ ăúI·ŦŦ ăI·λŘ úKŜè ø2dzfŘ yŜŜŘ û2 Õ2yăλŘŜ₦ úKŜ LJ₦2?ŜÕûŜŘ úNJI·ŦŦλÕ Ø2fdzY Ŝă I·ăă2ÕλI·ûŜŘ øλúK úKŜ ØI·₦λ2dză λyûŜ₦ÕKI·yƎŜ I·fûŜ₦yl·úλØŜă I·ă LJI·₦ú 2Ŧ úKŜ₦λ ŜØI·fdzI·úλ2y 2Ŧ úKŜ I·fûŜ₦yl·úλØŜăΦ ¢KŜè I·fă2 ₦ŜIjdzŜăûŜŘ û2 ōŜ y2ûλŦλŜŘ I·ă úKŜ I·fûŜ₦yl·úλØŜă I·₦Ŝ ŦdzNúKŜ₦ ₦ŜŦλyŜŘΦ

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hy b2ØŜY ōŜ₦ ф Σ нлмтΣ /C· I·yŘ ăúdzŘè ûŜI·Y ăúI·ŦŦ LJ₦2ØλŘŜŘ I· Õ2Y LJ₦ŜKŜyãλØŜ 2ØŜ₦ØλŜø 2Ŧ úKŜ ăúdzŘè I·yŘ fI·ûŜăú I·fûŜ₦yl·úλØŜă û2 I·ō2dzú рл Y ŜY ōŜ₦ă 2Ŧ úKŜ [2dzƎKY I·y Õ2Y Y dzyλúè Φ /2Y Y dzyλúè Y ŜY ōŜ₦ă ŜĚLJ₦ŜăăŜŘ Õ2yÕŜ₦yã I·ō2dzú ØI·₦λ2dză LJ2ûŜyûλI·f λY LJI·ÕûăΣ y2ûλyƎ úKŜ Kλăû2₦è I·yŘ Õdzfûdz₦I·f ăλƎyŦλÕI·yÕŜ 2Ŧ úKŜ I·₦ŜI·Φ ¢KŜè ŜĚLJ₦ŜăăŜŘ Õ2yÕŜ₦yã úKI·ú úKŜ₦λ Õ2Y Y dzyλúè KI·ă 2ŦûSy ōŜŜy 2ØŜ₦f22]ŜŘ λY LJ₦2ØŜY Syûă Σ I·yŘ úKI·ú úKŜ LJ₦2?ŜÕû ø2dzfŘ Ŧ₦I·Õûdz₦Ŝ øKI·ú ø I·ă fŜŦûΦ ! ûûSyŘŜŜă øŜ₦Ŝ LJ₦ŜăSyûŜŘ øλúK ØI·₦λ2dză I·fûŜ₦yl·úλØŜ ŜĚKλōλû ō2I·₦Řă I·yŘ ŜI·ÕK ƎλØSy úø2 Ǝ₦ŜŜy Ř2ű ăûλÕ]Ŝ₦ă û2 LJfI·ÔŜ 2y úKŜ₦λ úø2 Y 2ăû Ŧ I·Ø2₦ŜŘ I·fûŜ₦yl·úλØŜă¢ ¢KŜ b2 . dzλfŘ øI·ă I·Y 2yƎ úKŜ 2LJûλ2yã ! Ŧ ûŜ₦ úKλă ŜĚŜ₦ÕλăŜΣ úKŜ₦Ŝ øŜ₦Ŝ фм Ř2ûă 2y úKŜ ō2I·₦Ř¢ ¢KŜ b2π . dzλfŘ ! fûŜ₦yl·úλØŜ ₦ŜÕŜλØŜŘ пл Ř2ûă¢ /2Y ōλySŘΣ ! fλƎyY Syû p óøKλÕK û₦I·ØŜfă I·f2yƎ úKŜ hăÕŜ2fI· /2dzyűèκt2f] /2dzyűè fλyŜ λy hăÕŜ2fI· /2dzyűèú ₦ŜÕŜλØŜŘ пс Ř2ûă óоф Ř2ûă Ŧ2₦ ! fûŜ₦yl·úλØŜ нπрΣ Ŧ λØŜ Ŧ2₦ ! fûŜ₦yl·úλØŜ oπрΣ I·yŘ ú ø2 Ŧ2₦ ! fûŜ₦yl·úλØŜ o ! πpú¢

hy 5ŜÕŜY ōŜ₦ мнΣ нлмтΣ úKŜ ăúdzŘè ûŜI·Y LJ₦ŜăSyûŜŘ I· LJ₦2?ŜÕú dzLJŘI·ûŜ û2 úKŜ /KI·Y LJλ2yãDI·ûŜ /55 .2I·₦Ř 2Ŧ {dzLJŜ₦ØλăŝăΦ wŜăλŘŜyûă øŜ₦Ŝ λy úKŜ I·dzŘλŜyÕŜ I·yŘ ō2úK ō2I·₦Ř Y ŜY ōŜ₦ă I·yŘ ₦ŜăλŘŜyûă øŜ₦Ŝ LJ₦2ØλŘŜŘ øλúK I·y 2LJLJ2₦údzyλúè û2 I·ă] IjdzŜăúλ2yã I·yŘ û2 LJ₦2ØλŘŜ úKŜ₦λ yLJdzú û2 úKŜ ăúdzŘè¢ ¢KŜ LJ₦ŜăŜyúI·ûλ2y λyÕfdzŘŜŘ I· ăúdzŘè 2ØŜ₦ØλŜøΣ ăúdzŘè ăÕKŜŘdzfŜΣ ăúdzŘè I·₦ŜI·Σ I·yŘ λyλúλI·f I·fλƎyY Syûă û2 ōŜ ŜØI·fdzI·ûŜŘΦ b2 2ŦŦλÕλI·f I·Õûλ2y ø I·ă úI·]Sy ōè úKŜ /55 .2I·₦Ř ₦ŜƎI·₦Řλy úKŜ₦λ yLJdzú û2 úKŜ t2λyÕλI·yl· t I·₦]øI·è 9ĚûŜyãλ2yκLππ /2yyŜÕû2₦Φ

hy WI·yûzI·₦è oΣ нлмуΣ úKŜ ăúdzŘè ûŜI·Y Y ŜúøλúK W2Ŝ h₦úΣ øK2 I·f2yƎ øλúK 2úKŜ₦ λyØŜăú2₦ăΣ 2øyã úKŜ LJ₦2LJŜ₦úè f2ÕI·ûŜŘ λy úKŜ ă2dzúKŜI·ăú Ijdz I·Řλ I·yû 2Ŧ úKŜ /Φw ронкLππ LyûŜ₦ÕKI·yƎŜΦ I Ŝ ōŜ₡ŜØŜă úKŜ ₦ƎKúπ2Ŧππø I·è Õ2ăúă Ŧ2₦ úKŜ /2₦₦λŘ2₦ o I·yŘ /2₦₦λŘ2₦ o ! I·fûŜ₦yl·úλØŜă øλff ōŜ ăλƎyλŦλÕI·yû Φ I Ŝ KI·ă ădzōY λúûŜŘ dzLJŘI·ûŜŘ LJfI·yã Ŧ2₦ ŘŜØŜf2LJλyƎ úKŜ LJ₦2LJŜ₦úè λy t2f] /2dzyűè Φ ¢KŜ LJfI·y ÕI·ffă Ŧ2₦ ппy Y dzfûλŦI·Y λfè I·LJI·₦úY Syûă Φ I Ŝ ăI·λŘ úKI·ú úKŜè ø2dzfŘ fλ]Ŝfè Y 2ŘλŦè úKλă LJfI·y ű2 λyÕfdzŘŜ 2úKŜ₦ dzăŜăΦ I Ŝ ăI·λŘ úKI·ú úKŜ [ŜƎI·Õè /I·ffI·ø I·f] I·LJI·₦úY Syûă

KI·ØŠ λyΛűλI·ű$Ř űK$Ⴍ LJKI·äŠ н óØKλÕK λă ă2dzűK 2Ŧ űK$ Õdzⴍⴍ$yű I·LJI·ⴍűY$yűăú¢ ¢K$è I·fă2 KI·Ø$ LJfI·yã ű2 Ř$Ø$f2LJ ůø2 Õ2YY$ⴍÕλI·f ůⴍI·Ôűă I·f2yЭ /¢w¢ pon¢ I Ŝ LJⴍ2ØλŘ$Ř λyŦ2ⴍY I·ûλ2y Ŧ2ⴍ ůK$ wŜdzyλ2y ±λfI·Э$Σ LJfI·yy$Ř Ŧ2ⴍ ůK$ y2ⴍűK ăλŘ$ 2Ŧ /¢w¢ пон Σ 2dzăű Ŝ I·ăű 2Ŧ Lπп¢ I Ŝ ăI·λŘ ůKI·ű K$ I·yŘ ůK$ [$Э I·Õè 2øy$ⴍă I·ⴍ$ I·Э I·λyãű I·fű$ⴍyI·ûλØ$ă dzăλyЭ /2ⴍⴍλŘ2ⴍă o I·yŘ o!¢ I Ŝ K2LJ$ă ůKI·ű ůK$ ⴍλЭKűπ2Ŧπø I·è $ăűλY I·û$ă Ŧ2ⴍ ůK$ă$ I·fű$ⴍyI·ûλØ$ă I·ÕÕdzⴍI·û$fè ⴍ$ŦfÕűůK$ Õ2ăű 2Ŧ I·ÕIjdzⴍλyЭ ůK$ LJⴍ2LJ$ⴍűλ$ă ůKI·ű ø2dzfŘ õ$ y$$Ř$Ř¢

hyYWI·yΩzI·ⴍè мнΣ нлмyΣ ůK$ ăűdzŘè û$I·Y Y$ű øλúK C5h¢ 5λăűⴍλÕű CλØ$ {$Õⴍ$ûI·ⴍè a I·ⴍúλyY I·yŘ 5λⴍ$Õűⴍ a 2ⴍⴍ2ø ű2 Õ22ⴍŘλyI·û$ ⴍ$Э I·ⴍŘλyЭ Õ2yy$Õűλy Э ůK$ t2λyÕλI·yI· t I·ⴍ]ø I·è 9ÈúSyãλ2yкLπп /2yy$Õű2ⴍ ű2 Lπп Σ I·yŘ ű2 λŘ$yúλŦè LJ2ú$yűλI·f 2LJLJ2ⴍűdzyλűλ$ă Ŧ2ⴍ Õ2ău ăI·ØλyЭă õè I·ÕÕ2YY2ŘI·ûλy Э λyű$ⴍÕK I·y Э$ õⴍλŘЭ$ ăúⴍdzÕűdzⴍ$ă øλúKλY ůK$ Lπп . Ŝè2yŘ ůK$ ¦ fűλY I·û$ Ř$ăλЭy¢ C5h¢ y2ú$Ř ůKI·ű ůK$ⴍ$ K I·ă õ$$y I· ÕK I·y Э$ λY ůK$ 5$LJI·ⴍűY$yűΩă I·ÕÕ2YY2ŘI·ûλ2y Ŧ2ⴍ KλЭK ălJ$$Ř ⴍI·λf λY ůK$ Y$Řλ I·Y 2Ŧ Lπп¢ /dzⴍⴍ$yúfè Σ ůK$ 5$LJI·ⴍűY$yű λă I·ff2øλy Э ă2Y$ $yÕⴍ2I·ÕKY$yű λyű2 ůK$ ππŦ22ű ⴍI·λf Õ2ⴍⴍλŘ2ⴍ Ŧ2ⴍ Õ2yãúⴍI·λy$Ř Õ2yŘλúλ2yã ă2 f2yЭ I·ă I·Y$tŜØI·û$Ř ⴍI·λf Õ2ⴍⴍλŘ2ⴍ ÕI·Y ōŜ I·ÕÕ2YY2ŘI·û$Ř óλ¢$Σ ůK$ⴍ$ λă ădzŦŦλÕλ$yű ⴍ22Y ű2 LJⴍ2ØλŘ$ Ŧ2ⴍ ōⴍλŘЭ$ ădzLJLJ2ⴍűă Ŧ2ⴍ ůK$ $tŜØI·û$Ř ⴍI·λfú¢ ¢K$ⴍ$Ŧ2ⴍ$Σ ůK$ ăűdzŘè û$I·Y ÕI·Y I·ăădzY$ ůK$ Lπп . Ŝè2yŘ ůK$ ¦ fűλY I·û$ ûèLJλÕI·f ă$Õúλ2Y ÕI·Y I·ÕÕ2YY2ŘI·û$ I·Y λyű$ⴍÕK I·y Э$ øλúK ůK$ t2λyÕλI·yI· t I·ⴍ]ø I·è 9ÈúSyãλ2yкLπп /2yy$Õű2ⴍ λyű$ⴍÕK I·y Э$ øλúK Lπп øλúK2dzú 2Ø$ⴍfè f2yЭ ălJI·yã ű2 Y I·λyúI·λY ůK$ ππŦ22ű ⴍI·λf Õ2ⴍⴍλŘ2ⴍ¢ LY I·ŘŘλúλ2y Σ ůK$ⴍ$ ø I·ă ŘăÕdzăăλ2Y ⴍ$ⴍI·ⴍŘλyЭ C5h¢Ωă LJⴍ$Ŧ$ⴍⴍ$Ř Õ2yy$Õűλ2Y LJ2λyú Ŧ2ⴍ ůK$ t2λyÕλI·yI· t I·ⴍ]ø I·è 9ÈúSyãλ2yкLπп /2yy$Õű2ⴍ I·yŘ λú øI·ă y2ú$Ř ůKI·ű C5h¢ LJⴍ$Ŧ$ⴍă ůK$ Õ2yy$Õűλ2Y ű2 2ÕÕdzⴍ I·ű {¢w¢ пнф¢

y¢н¢p t¦.[L/ lb±h[±9a9b¢ !b5 a99¢LbD{

! Õ22ⴍŘλyI·û$Ř ŜŦŧ2ⴍú ű2 2ōűI·λY LJdzÕfλÕ λyLJdzú Ŧ2ⴍ ŜI·ÕK 2Ŧ ůK$ Ŧ2dzⴍ /2yÕ$LJúΣ C$I·ăλōλfλúè I·yŘ a2ōλfλúè {údzŘλŜă øI·ă Õ2yŘdzÕúŠŘ ōè KI·ØλyЭ ůø2 ă$ⴍλŜă 2Ŧ LJdzōfλÕ YŜ$ûλyЭă øKλÕK ø$ⴍ$ K$fŘ I·ű ůKⴍ$$ f2ÕI·ûλ2yã ůKⴍ2dzЭK2dzú ůK$ Õ2YōλY$Ř ăűdzŘè I·ⴍŜI·ă Ŧ2ⴍ ůK$ LJⴍ2ΣŜÕúă¢ 9I·ÕK YŜ$ûλyЭ LJⴍ$ăSyû$Ř ůK$ ăI·Y$ λyŦ2ⴍYI·ûλ2y I·yŘ LJⴍ2ØλŘ$Ř 2LJLJ2ⴍűdzyλúλ$ă Ŧ2ⴍ LJI·ⴍúλÕλLJI·yúă ű2 Õ2YY$yű 2y I·yê 2Ŧ ůK$ Ŧ2dzⴍ ă$ЭY$yúă¢

¢K$ Ŧλⴍăű ă$ⴍλ$ă 2Ŧ Y$$ûλyЭă ø I·ă K$fŘ λY {$LJúSY ō$ⴍ I·yŘ hÕű2ō$ⴍ нлмт û2 λyŦ2ⴍY ůK$ LJdzōfλÕ I·ō2dzű ůK$ ăűdzŘλ$ă I·yŘ ű2 2ōűI·λY ůK$ⴍλⴍLJdzú¢ ¢K$ă$ ø$ⴍ$ K$fŘ I·ű ůK$ t2λyÕλI·yI· ±λfI·Э$ă /2YY dzyλûè /$yú$ⴍ ůK$ CλⴍăűⴍI·LJúλăű /KdzⴍÕK 2Ŧ {ú¢ /f2dzŘΣ I·yŘ [I·]$ b2yI· IλЭK {ÕK22f¢

tdzōfλÕ Y$$ûλyЭ λyØλúI·ûλ2y Tû$úû$ⴍă ø$ⴍ$ ă$yű õè $YI·λf ű2 см ŜtŜÕű$Ř 2ŦŦλÕλI·tă I·yŘ ůK$ⴍλŘăΣ рл I·LJLJ2λyű$Ř 2ŦŦλÕλI·tăΣ ол ⴍ$Эλ2yI·f I·Э$yÕè Õ2yűI·Õűă I·yŘ oo Ŧ$Ř$ⴍI·f I·yŘ ăúI·û$ I·Э$yÕè Õ2yűI·Õűă¢ !y I·ŘŘλúλ2yI·f мнΣнфр Y$$ûλyЭ λyØλúI·ûλ2y Tû$úû$ⴍă ø$ⴍ$ Y I·λf$Ř û2 LJⴍ2LJ$ⴍûè 2øy$ⴍă I·yŘ LJⴍ2LJ$ⴍúλ$ă øλúKλy ůK$ Ŧ2dzⴍ Õ2ⴍⴍλŘ2ⴍă¢ ¢K$ Y$$ûλyЭă ø$ⴍ$ I·ŘØ$ⴍúλă$Ř λY I·ŘØI·yÕ$ øλúK ŘλăLJfI·è I·Ră λy ůK$ [I·]$fI·yŘ [$Ř Э$ⴍ ůK$ hăÕ$2fI· bŝøă DI·Î$úû$Σ λy 9f {$yűλy$fΣ I·yŘ ůK$ hⴍfI·yŘ2 {$yűλy$f¢ !y I·Ř øI·ă LJⴍλyú$Ř λy ůK$ Cf2ⴍλŘI· !ŘYλyλăúⴍI·ûλØ$ wŜ Эλă û$ⴍ óC!wúΣ I·yŘ I· LJⴍ$ăă ⴍfI·ă$ øI·ă ŘλăúⴍλÕdzú$Ř û2 Y I·22ⴍ Y$ŘλI· 2dzúf$ûă¢ ¢K$ 2ⴍλЭλyI·f Y$ŘλI· ⴍ$f$I·ă$ I·yŘ dzLJŘI·û$ă ø$ⴍ$ LJ2ăú$Ř 2y hⴍI·yЭ$ I·yŘ hăÕ$2fI· /2dzyûè Ydzyλ$LJI·f ø$ōăλú$ă¢ LyŦ2ⴍYI·ûλ2yI·f Ŧfλ$ⴍă ø$ⴍ$ f$Ŧű I·ű ůK$ t2λyÕλI·yI· .ⴍI·yÕK [λōⴍI·ⴍè$Σ I I·ⴍúă aSY2ⴍλI·f /$yúⴍI·f [λōⴍI·ⴍè$Σ ² Ŝăú hăÕ$2fI· .ⴍI·yÕK [λōⴍI·ⴍè I·yŘ .dz$yI· ±$yúdzⴍI· [I·]$ă .ⴍI·yÕK [λōⴍI·ⴍè¢

- ∉ CλŦúè Ŧ2dzⴍ ópπú I·úű$yŘ$$ă ălЭy$Ř λY I·ű ůK$ Y$$ûλyЭ K$fŘ I·ű ůK$ t2λyÕλI·yI· ±λfI·Э$ă /2YY dzyλûè /$yú$ⴍ 2Y {$LJú$YōSⴍ мфΣ нлмт¢ {$Ø$Y Õ2YY$yű Ŧ2ⴍYă ø$ⴍ$ ⴍ$Õ$ⴍØ$Ř I·ű ůK$ Y$$ûλyЭ I·yŘ Ŧλ Ø$ Õ2YY$yűă ø$ⴍ$ ⴍ$Õ$ⴍØ$Ř ōè $YI·λf I·Ŧú$ⴍ ůK$ Y$$ûλyЭ¢
- ∉ hy$ K dzyŘⴍ$Ř I·yŘ ůKλⴍûèπă$Ø$Y óмотú I·úű$yŘ$$ă ălЭy$Ř λY I·ű ůK$ Y$$ûλyЭ K$fŘ I·ű ůK$ CλⴍăűⴍI·LJúλăű /KdzⴍÕK 2Ŧ {ú¢ /f2dzŘ 2Y {$LJú$YōSⴍ нсΣ нлмт¢ ¢KλⴍûèπŦλØ$ óopú Õ2YY$yű Ŧ2ⴍYă ø$ⴍ$ ⴍ$Õ$ⴍØ$Ř I·ű ůK$ Y$$ûλyЭ I·yŘ мо Õ2YY$yűă ø$ⴍ$ ⴍ$Õ$ⴍØ$Ř õè $YI·λf I·Ŧú$ⴍ ůK$ Y$$ûλyЭ¢

REFERENCE COPY

∉ ¢ǿƨ KdzyŘ₪ŜŘ I·yŘ yʎyŜűŜŜy´óнмфú I·úűŜyŘŜŜă ăʎƎyŜŘ ʎy´I·ű űKŜ YˆŜŜűʎyƎ KŜfŘ I·ű űKŜ [I·ʅŜ b2yl· IʎƎK {ŎK22f 2y´hŎű2ōŜ₪ pΣ нлмт℗ hyŜ KdzyŘ₪ŜŘ I·yŘ ŜʎƎKű óмлуú Ŏ2YˆYˆŜyű ₮2₪Yˆă ǿŜ₪Ŝ ₪ŜŎŜʎØŜŘ I·ű űKŜ YˆŜŜűʎyƎ I·yŘ тл Ŏ2YˆYˆŜyűă ǿŜ₪Ŝ ₪ŜŎŜʎØŜŘ ōè ŜYˆI·ʎf I·₮ŰŜ₪ űKŜ YˆŜŜűʎyƎ℗

¢KŜ ăŜŎ2yŘ ăŜ₪ʎŜă 2₮ YˆŜŜűʎyƎă ǿI·ă KŜfŘ ʎy´CŜō₪dzI·₪è нлму ű2 ʎy₮2₪Yˆ űKŜ LJdzōfʎŎ I·ō2dzű űKŜ ₮ʎyŘʎyƎă 2₮ űKŜ ăúdzŘʎŜă I·yŘ ű2 2ōúI·ʎy´úKŜʎ₪ ʎyŁJdzú℗ ¢KŜăŜ ǿŜ₪Ŝ KŜfŘ I·ű úKŜ {ű℗ /f2dzŘ IʎƎK {ŎK22f£ úKŜ [I·ʅŜ b2yl· aʎŘŘfŜ {ŎK22f£ I·yŘ úKŜ t2ʎyŎʎI·yl· ±ʎffI·ƎŜă /2YˆYˆdzyʎűè /ŜyűŜ₪℗

tdzōfʎŎ YˆŜŜűʎyƎ ʎyØʎúI·úʎ2y´fŜűúŜ₪ă ǿŜ₪Ŝ ăŜyű ōè ŜYˆI·ʎf ű2 сн ŜfŜŎűŜŘ 2₮₮ʎŎʎI·fă I·yŘ úKŜ₪ I·ʎŘăΣ рл I·LJLJ2ʎyűŜŘ 2₮₮ʎŎʎI·făΣ ол ₪ŜƎʎ2yl·f I·ƎŜyŎè Ŏ2yűI·Ŏűă I·yŘ oo ₮ŜŘŜ₪I·f I·yŘ ăúI·úŜ I·ƎŜyŎè Ŏ2yűI·Ŏűă℗ !y´I·ŘŘʎúʎ2yl·f мнΣccф YˆŜŜűʎyƎ ʎyØʎúI·úʎ2y´fŜűúŜ₪ă ǿŜ₪Ŝ YˆI·ʎfŜŘ ű2 LJ₪2LJŜ₪úè 2ǿyŜ₪ă I·yŘ LJ₪2LJŜ₪úʎŜă ǿʎúKʎy´úKŜ ₮2dz₪ Ŏ2₪₪ŘŘ2₪ă℗ ¢KŜ YˆŜŜűʎyƎă ǿŜ₪Ŝ I·ŘØŜ₪úʎăŜŘ ʎy´I·ŘØI·yŎŜ ǿʎúK ŘʎăLJfI·è I·Ră ʎy´úKŜ [I·ʅŜfI·yŘ [ŜŘƎŜ₪Σ úKŜ hăŎŜ2fI· bŜǿă DI·ÎŜűúŜΣ ʎy´9f {ŜyűʎySfΣ I·yŘ úKŜ h₪fI·yŘ2 {ŜyűʎySf℗ !y´I·Ř ǿI·ă LJ₪ʎyűŜŘ ʎy´úKŜ C!w£ I·yŘ I· LJ₪Ŝăă ₪ŜfŜI·ăŜ ǿI·ă ŘʎăúN₪ōdzúŜŘ ű2 YˆI·ƨ2₪ YˆŜŘʎI· 2dzűfŜűă℗

∉ ¢K₪ŜŜ KdzyŘ₪ŜŘ I·yŘ ăʎÈúè óослú I·úűŜyŘŜŜă ăʎƎyŜŘ ʎy´I·ű úKŜ YˆŜŜűʎyƎ KŜfŘ I·ű úKŜ {ű℗ /f2dzŘ IʎƎK {ŎK22f 2y´CŜō₪dzI·₪è моΣ нлму℗ {ŜǾŜyűèπăŜǾŜy´óттú Ŏ2YˆYˆŜyű ₮2₪Yˆă ǿŜ₪Ŝ ₪ŜŎŜʎØŜŘ I·ű úKŜ YˆŜŜűʎyƎ℗

∉ C2dz₪ KdzyŘ₪ŜŘ űǿŜyűèπűK₪ŜŜ óпноú I·úűŜyŘŜŜă ăʎƎyŜŘ ʎy´I·ű úKŜ YˆŜŜűʎyƎ KŜfŘ I·ű úKŜ [I·ʅŜ b2yl· aʎŘŘfŜ {ŎK22f 2y´CŜō₪dzI·₪è мрΣ нлму℗ ¢ǿƨ KdzyŘ₪ŜŘ I·yŘ úK₪ʎűèπ2yŜ óномú Ŏ2YˆYˆŜyű ₮2₪Yˆă ǿŜ₪Ŝ ₪ŜŎŜʎØŜŘ I·ű úKŜ YˆŜŜűʎyƎ℗

∉ hyŜ KdzyŘ₪ŜŘ I·yŘ ₮2₪ûèπ2yŜ ómпмú I·úűŜyŘŜŜă ăʎƎyŜŘ ʎy´I·ű úKŜ YˆŜŜűʎyƎ KŜfŘ I·ű úKŜ !ăă2ŎʎI·úʎ2y´2₮ t2ʎyŎʎI·yl· ±ʎffI·ƎŜă /2YˆYˆdzyűûè /ŜyűŜ₪ 2y´CŜō₪dzI·₪è нмΣ нлму℗ C2₪ûèπűǿ2 óпнú Ŏ2YˆYˆŜyű ₮2₪Yˆă ǿŜ₪Ŝ ₪ŜŎŜʎØŜŘ I·ű úKŜ YˆŜŜűʎyƎ℗

∉ ! ű2űI·f 2₮ oуп ŜYˆI·ʎfŜŘ Ŏ2YˆYˆŜyűă ǿŜ₪Ŝ ₪ŜŎŜʎØŜŘ úK₪2dzƎK aI·₪ŎK тΣ ₮2ffƨʎyƎ tdzōfʎŎ aŜŜűʎyƎă KŜfŘ CŜō₪dzI·₪è моΣ CŜō₪dzI·₪è мр I·yŘ CŜō₪dzI·₪è нмΣ нлму℗

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¢KŜ Y2₪Ŝ úKI·y´сол Ŏ2YˆYˆŜyű ₮2₪Yˆă ₪ŜŎŜʎØŜŘ I·ű úKŜ ăʎÈ LJdzōfʎŎ YˆŜŜűʎyƎă ű2dzŎKŜŘ 2y´I·y´I·₪₪I·è 2₮ ű2LJʎŎăΣ ǿʎúK Ŏ2yŎŜ₪yã I·ō2dzű ʎYˆLJI·ŎűǎűǾ úKŜ ŜyØʎ₪2yYˆŜyű I·yŘ Ŏ2yãŜ₪ØI·úʎ2y´fI·yŘăΣ I·ă ǿŜftf I·ă LJ2ŭŜyűʎI·f ʎYˆLJI·ŎűǎűǾ ű2 ₪ŜăʎŘŜyűʎI·f LJ₪2LJŜ₪úʎŜăΣ ōŜʎyƎ úKŜ YˆŽăű Ŏ2YˆYˆŽy´úKŜYˆŜă℗

aŽăű 2₮ úKŜ Ŏ2YˆYˆŜyűă ǿŜ₪Ŝ ₪ŜŎŜʎØŜŘ ŘdzN₪ʎyƎ úKŜ ăŜŎ2yŘ ₪2dzyŘ 2₮ LJdzōfʎŎ YˆŜŜűʎyƎă ς YˆŽ₪Ŝ úKI·y´прл ς I·yŘ ŘŜI·fű ǿʎúK úKŜ fI·ŭŜăű I·fűŜ₪yl·úʎØŜă℗ h₮ úKŜăŜ Ŏ2YˆYˆŜyűăΣ пу ǿŜ₪Ŝ ƎŜyŜ₪I·f Ŏ2YˆYˆŜyűăΣ I·LJLJfʎŎI·ŏfŜ ű2 I·ff ₮2dz₪ 2₮ úKŜ /2yŎŜLJűΣ CŜI·ăʎōʎfʎúèΣ I·yŘ aŽōʎfʎúè {űdzŘʎŜă I·yŘ мт ₪ŜfI·ŭŜŘ ăLJŜŎʎ₮ʎŎI·ffè ű2 úKŜ t2ʎyŎʎI·yl· tI·₪ʅǿI·è 9ÈűŜyãʎ2yĸLπп /2yŷŷŜŎű2₪℗ ¢KŜ ₪ŜYˆI·ʎyʎyƎ óI·LJLJ₪2ÈʎYˆI·ŭŜfè пллú Ŏ2YˆYˆŜyűă ₪ŜfI·ŭŜŘ ăLJŜŎʎ₮ʎŎI·ffè ű2 úKŜ 2úKŜ₪ ăŜƎYˆŜyűă dzyŘŜ₪ ăúdzŘè℗ ! ădzYˆYˆI·₪è 2₮ úKŜ ₮ŜŜŘōI·Ŏʅ ₪ŜŎŜʎØŜŘ ₮₪2Y úKžăŜ YˆŜŜűʎyƎă ǿKʎŎK I·₪Ŝ I·LJLJfʎŎI·ŏfŜ ű2 úKŜ t2ʎyŎʎI·yl· tI·₪ʅǿI·è 9ÈűŜyãʎ2yĸLπп /2yŷŷŜŎű2₪ ʎă ʎyŎfdzŘŜŘ ōŜf2ǿY

<u>DŜyŜ₪I·f /2YˆYˆŜyűă óI·LJLJfè ű2 I·ff ₮2dz₪ /2yŎŜLJűΣ CŜI·ăʎōʎfʎúèΣ I·yŘ aŽōʎfʎúè {űdzŘʎŜăú</u>

∉ /2yãʎŘŜ₪ I·fűŜ₪yl·ûʎØŜă úKI·ű Ř2yŰű ŘʎăLJfI·ŎŜ I·yʎYˆI·fă Ž₪ KdzYˆI·yã℗ ópú

∉ ¦LJăŜű ǿʎúK LJ₪ŜăŜyűI·úʎ2yΣ YˆŜŜűʎyƎ ăúèfŜ℗ óнú

∉ 9yãdz₪Ŝ fI·yŘ LJdz₪ŎKI·ăŜ ₮2₪ ǿʎfŘfʎ₮Ŝ Ŏ2yãŜ₪ØI·úʎ2y℗

∉ b2 ű2ff ₪2I·ŘăT ǿ2₪ʅ 2y´f2ŎI·f ₪2I·Ră ₮ʎ₪ăú℗

∉ ² Ŝ Ř2yQű ySŜŘ I·ff úKŜăŜ ₪2I·Ră I·yŘ ŘŜØŜf2LJYˆŜyű℗ óнú

∉ b2 Y2₪Ŝ ŘŜØŜf2LJYˆŜyűĸ2LJLJ2ăŜŘ ű2 ŜÈLJ₪ŜăăǿI·è℗ óooú

- ∉ tfŜI·ăŜ Ŏ2yãλŘŜℕ ΰĶŜ KλƎKǿI·èℚă λY·LJI·Ôΰ 2y´ΰĶŜ I·ℕŜI· ăÔK22fă I·yŘ ySλƎKō2ℕK22Řă ΰKI·ΰ ǿ2dzfŘ ōŜ λY·LJI·ÔΰŜŘ ōè ΰĶŜ λyÔℕŜI·ăŜ λy´ΰℕI·ŦŦλÔ I·yŘ LJ2ffdzΰλ2yΦ
- ∉ hLJLJ2ăŜ LJℕ2ȼŜÔΰΦ óнú
- ∉ a dzăΰ LJdzΰ λy´ă2dzyŘ ǿI·ffăΦ

t2λyŎλI·yI· tI·ℕ]ǿI·è 9ÈΰŜyãλ2yĶLπп /2ẏẎŜÔΰ2ℕ /2ΥY·Ŝyΰă

- ∉ o!πp λă ΰĶŜ ōŜăΰ ç fŜI·ăΰ λY·LJI·Ôΰă I·yŘ ÔĶŜI·LJŜℕT Ǝ2λyƎ I·f2yƎ /ΦwΦ poн λă ΰĶŜ ǿ2ℕäΰΦ
- ∉ {ΰℕ2yƎfè ădzLJLJ2ℕΰ t2λyŎλI·yI· tI·ℕ]ǿI·è /2ẏẎŜÔΰ2ℕ ΰ2 Lπп ōŜ Ř2yŜ ŦΛℕäΰΦ óпú
- ∉ /2yãλŘŜℕ ΰĶŜ I·fΰŜℕyI·ΰΛØŜ н!πp ΰKI·ΰ ǿλff ƎλØŜ dză Y·2ℕŜ ăI·ŦŜΰèΦ !ΰ ΰĶλă Y·2Y·Ŝyΰ ăI·ŦŜΰè λă I· Ŏ2yŎŜℕy´ ŘdzŜ ΰ2 ΰĶŜ KλƎK ΰℕI·ŦŦλÔ I·yŘ ălJŜŜŘλyƎ Ǝ2λyƎ 2y´λy´ t2λyŎλI·yI· tI·ℕ]ǿI·èΦ
- ∉ /2yŎŜℕy´I·ō2dzΰ λY·LJI·Ôΰ ΰ2 нм tI·fY·ă wŜă2ℕΰ I·ΰ cфpм hăÔŜ2fI· t2f[[λyŜ w2I·Ř ç Ǝ2 ŦI·ℕΰĶŜℕ ŜI·ăΰΦ óoú
- {ΰI·è I·ă ŦI·ℕ Fℕ2Y [2dzƎKY·I·y´I·ă LJ2ăăλōfŜΦ ócú
- ¢ĶŜ Ŏ2yẎŜÔΰ2ℕ ΰ2 пнф ç I·fΰK2dzƎK Ŏ2ăΰfè óy2ǿε ŘdzŜ ΰ2 ΰĶŜ λyΰŜℕŎKI·yƎŜ ç λă ΰ2 YŜ ŦI·ℕ I·yŘ I·ǿI·è ΰĶŜ Y·2ăΰ LJℕI·ÔΰλŎI·f I·yŘ fλ]Ŝfèΰ2 ōŜ dzăŜŘ Fℕ2Y t2λyŎλI·yI· tI·ℕ]ǿI·èΦ óнú

!ŘŘλΰλ2yI·ffèΣ oyп ŜY·I·λfă ǿλΰK Ŏ2YY·Ŝyΰă ǿŜℕŜ ℕŜŎŜλØŜŘ ΰKℕ2dzƎK a I·ℕŎK τΣ Ŧ2ff2ǿλyƎ tdzōfλŎ aŜŜΰλyƎă KŜtŘ CŜōℕdzI·ℕè moΣ мp I·yŘ нмΣ нлму¢ ¢ĶŜ λyŦ2ℕYI·ΰλ2y´ōŜf2ǿ ℕŜŦfŜŎΰă ΰĶŜ ƎŜyŜℕI·f yI·ΰdzℕŜ 2Ŧ Ŏ2YY·Ŝyΰă ℕŜŎŜλØŜŘΦ a I·yè ŜY·I·λfă ΰ2dzŎKŜŘ 2y´Y·dzfΰλLJfŜ ΰ2LJλŎăΣ ă2 ℕŜŦŜℕŜyŎŜŘ yΘzY·ōŜℕă Y·I·è ŜĖŎŜŜŘ ΰĶŜ ΰ2ΰI·f yΘzY·ōŜℕ 2Ŧ ŜY·I·λfă ℕŜŎŜλØŜŘΦ ! ădzYY·I·ℕè 2Ŧ Ŏ2YY·Ŝyΰă ℕŜŎŜλØŜŘ ØλI· ŜY·I·λf I·ℕŜ λyŎfdzŘŜŘ ōŜf2ǿY Φ

DŜyŜℕI·f /2YY·Ŝyΰă óI·LJLJfè ΰ2 I·ff Ŧ2dzℕ /2yŎŜLJΰΣ CŜI·ăλōλfλΰèΣ I·yŘ a2ōλfλΰè {ΰdzŘλŜăΰ

- ∉ [I·Ŏ] 2Ŧ y2ΰλŦλŎI·ΰλ2yΦ óнú
- ∉ w2I·Ř ǿλff I·ŎΰdzI·ffè ŜĖLJI·yŘ dzℕōI·y´ălJℕI·ǿf I·yŘ I·ŘŘ ΰ2 Ŏ2yƎŜăΰλ2yΦ óoú
- ∉ !ΰ ǿKI·ΰ LJ2λyΰ Ř2 ė2dz ălè Ŝy2dzƎK λă Ŝy2dzƎKK {ΰ2LJ YI·ℕ]ŜΰλyƎ ΰĶŜ I·ℕŜI· I·yŘ ŘℕΛǿλyƎ Y·2ℕŜ LJŜ2LJfŜ KŜℕŜΦ
- ∉ ¢ĶŜ IjdzλŎ] ălJℕI·ǿf 2Ŧ ŘŜǿŜf2LJY·Ŝyΰ λy´ΰĶλă I·ℕŜI· λă fŜI·ǿλyƎ y2 ℕ22Y Ŧ2ℕ 2dzℕ yI·ΰλØŜ ǿλfŘfλŦŜΣ I·yŘ y2 I·ℕŜI·ă 2Ŧ 2LJŜy´ălJI·ÔŜ ΰĶI·ΰ λă λY·LJ2ℕΰI·yΰ ΰ2 LJŜ2LJfŜΩă ǿŜffπōŜλyƎΦ óнú

t2λyŎλI·yI· tI·ℕ]ǿI·è 9ÈΰŜyãλ2yĶLπп /2ẏẎŜÔΰ2ℕ /2ΥY·Ŝyΰă

- ∉ !Ø2λŘ λY·LJI·Ôΰă ΰ2 wŜdzy2y´wŜă2ℕΰ ǿλΰK t2λyŎλI·yI· 9ÈΰŜyãλ2yΦ óyú
- ∉ hLJLJ2ăŜkăΰℕ2yƎfè 2LJLJ2ăŜ t2λyŎλI·yI· tI·ℕ]ǿI·è 2LJΰλ2y´o!πo I·yŘ o!πpΦ {dzLJLJ2ℕΰ н!Φ óoпú
  - ω t2λyŎλI·yI· tI·ℕ]ǿI·è ĶI·ă I·fℕŜI·ŘèI·ŘŘŜŘ ΰℕI·ŦŦλÔ Ŏ2yƎŜăΰλ2y´I·f2yƎ /ΦwΦ poн hăÔŜ2fI· t2f[[λyŜ w2I·Ř I·yŘ ōŜΰǿŜŜy´I·ff f2ŎI·f Ŏ2YY·dzyλΰλŜăΣ I·fă2 ōŜΰǿŜŜy´Ŏ2YY·ŜℕŎλI·f I·yŘ ℕŜΰI·λf I·ℕŜI·ă FℕY w2yI·fŘ wŜI·ƎI·y´tI·ℕ]ǿI·è ΰ2 ¦Φ{Φ мфн I·yŘ Fℕ2Y IλƎKǿI·è нт ΰ2 ¦Φ{Φ мткфнΦ 9ÈΰŜyŘλyƎ ΰĶŜ LJI·ℕ]ǿI·è I·f2yƎ /ΦwΦ poн ǿ2dzfŘ 2yfè I·ŘŘ Y·2ℕŜΦ
  - ω ² Kè I·ℕŜ KλƎK ŘŜyăλΰè ℕŜăλŘŜyΰλI·f ŘŜǿŜf2LJY·Ŝyΰă ōŜλyƎ I·LJLJℕ2ǿŜŘ I·f2yƎ ŎdzNℕŜyΰ KλƎK ΰℕI·ŦŦλÔ Ŏ2yƎŜăΰŜŘ ℕ2I·Ră I·yŘ ǿKè ǿ2dzfŘ I·ŘŘλΰλ2y1·f t2λyŎλI·yI· KŜI·ǿè ΰℕI·ŦŦλÔ ōŜ ℕ2dzΰŜŘ ΰKℕ2dzƎK ăI·Y·Ŝ KŜI·ǿè ℕŜăλŘŜyΰλI·f ŘŜǿŜf2LJλyƎ I·ℕŜI·ă I·fℕŜI·Řè KI·ǿλyƎ Ŏ2yƎŜăΰŜŘ f2ŎI·f ΰℕI·ŦŦλÔ λy´I·ff ŘλℕŜŎΰλ2yãK
  - ω Lπп Ŏ2yẎŜÔΰ2ℕ I·ΰ /KI·YLJλ2yã DI·ΰŜ ǿ2dzfŘ ōŜ I· ΰℕI·ŦŦλÔ ŘλăI·ăΰŜℕΦ
  - ω bŜƎI·ΰΛØŜ λY·LJI·Ôΰăΰ2 [I·]Ŝ ² λfă2y´ǿλΰK o!πo ōŜÔI·dzăŜ 2Ŧ y2λăŜΣ Ŏ2yƎŜăΰλ2yΣ LJ2ffdzΰλ2yΦ
  - ω 9fŜØI·ΰŜŘ ŜĖLJℕŜăăǿI·è I·f2yƎ /ΦwΦ poн λă ŜĖLJŜyãλØŜ I·yŘ άℕΛŘλÔdzf2dzăΦέ
- ∉ hLJLJ2ăŜ I·yè 2LJΰλ2y´н! ØŜℕăλ2yΣ yŜƎI·ΰΛØŜ λY·LJI·Ôΰ 2y´ ² I·ΰă2y´/2dzℕΰΣ wŜdzyλ2yΦ óмлú
- ∉ wŜăλŘŜyΰă 2Ŧ ¢K2dzăI·yŘ hI·]ă ăΰℕ2yƎfè 2LJLJ2ăŜ o I·yŘ o! 2LJΰλ2yãΦ óмпú
  - ω LY·LJI·Ôΰ ΰ2 yŜλƎKō2ℕK22Ř I·yŘ ŜyØΛℕ2yY·ŜyΰΦ
  - ω bŜƎI·ΰΛØŜ λY·LJI·Ôΰăΰ2 LJℕ2LJŜℕΰè ØI·fdzŜă I·yŘ yŜƎI·ΰΛØŜ ŜŎ2y2Y·λŎ λY·LJI·ÔΰΦ
- ∉ {dzLJLJ2ℕΰ 2LJΰλ2yã o!πo I·yŘ o!πp Ŧ2ℕ t2λyŎλI·yI· tI·ℕ]ǿI·èT 2LJLJ2ăŜ oπнΣ oπp I·yŘ н!Φ óммú

REFERENCE COPY

- ω [Ŝăă Ŏƨăűΐ fŜăă ƛϒLJI·Ŏű ƨϒdzűƛfűƛŜăΣ fŜăă ƛϒLJI·Ŏű ƨϒűKŜ ŜyØƛ₪ƨyϒŜyűф
- ∉ {ű₪ƨy∃fê ƨLJLJƨăŜ I·fƛ∃yϒŜyű I·fƨyϽ /ф₩ф poнф óнpú
  - ω 9fŜØI·űŜŘ ₮ƨdz₪π fI·yŜΣ KƛϽKπăLJŜŜŘ ŜÈLJ₪ŜăăøI·è I· ₪ƛŘƛŎdzfƨdză ŘŜăƛϽϒI·yŘ ŜÈű₪ŜϒŜfê ŜÈLJŜyãƛØŜф
  - ω bŜ∃I·ûƛØŜ ƛϒLJI·Ŏűă ű2 wŜdzyƛƨyϒwŜăƨ₪ûф
- ∉ tƨƛyŎƛI·yl· tI·₪ʅøI·è 9ÈűŜyãƛ2yκLπп Ŏ2yŷŜŎűƛ2yϒI·ű {ф₩ф пнф ϒI·ʅŜă ûKŜ ϒ2ăű ăŜyãŜф óoú
  - ω hŦŦŜ₪ă ûKŜ ϒ2ăű ƨLJLJƨ₪ûdzyƛûè ₮ƨ₪ ûK₪ƨdzϽ∃K ú₪I·ŦŦƛŎ ű2 ûKŜ 5ƛăyŜè I·₪ŜI· øƛűK2dzű ƨdzăű ŘdzϒLJƛyϽ ƛű ƨyű2 Lππф
- ∉ tdzűűƛyϽ I· ō₪ĂŘ∃Ŝ ƨŎŜ₪ hfŘ ² ƛfă2yϒw2I·ŘΣ øƛűK yƨ ₪I·ϒLJă øƨdzfŘ ₮ƨ₪ŎŜ ûKŜ ú₪I·ŦŦƛŎ ű2 dzăŜ ûKŜ Lππ ƛyűŜ₪ŎKI·yϽŜ I·yŘ ₪ŜŘdzŎŜ ûKŜ hfŘ ² ƛfă2yϒw2I·Ř ú₪I·ŦŦƛŎ ű2 LJ₪Ŝπt2ƛyŎƛI·yl· tI·₪ʅøI·è fŜØŜfăф
- ∉ adzăű Ŏ2yŷŜŎű ű2 Lππ I·ű ŘƛŦŦŜ₪Ŝyű fƨŎI·ûƛ2yϒûKI·yϒ9Èƛű py₱ 5ƛ₪ŜŎű Ŏ2yŷŜŎûƛ2yϒ{ф₩ф пнф ƛă LJ₪ŜŦŜ₪₪ŜŘф óнú
- ∉ ¢KŜ₪Ŝ I·₪Ŝ ϒI·yê ŎƨyŎŜ₪ySŘ K2ϒŜƨóyŜ₪ă ƛyϒ2dz₪ Ŏƨϒϒdzyƛűè øI·yűƛyϽ ϒƨ₪ŎŜ ŘŜűI·ƛfŜŘ ƛyŦƨ₪ϒI·ûƛ2y 2yϒøKI·ű ƛă LJfI·ŷŷŜŘ I·fƨyϽ hăŎŜƨfI· tƨfʅ [ƛyŜф
- ∉ 9ÈűŜyŘ {ф₩ф пнф ű2 ¦ф{ф мткфнΣ ōdzű ϒƛyƛϒƛÎŜ ƛϒLJI·Ŏűăф óнú
- ∉ t₪ŜŦŜ₪ă ƨLJűƛ2yϒн!πнф
- ∉ bŜŜŘ ű2 øƛŘŜyϒ /ф₩ф poн ű2 ¦ф{ф мткфнф óoú
- ∉ !fűŜ₪yl·ûƛØŜă Ŧ2₪ tƨƛyŎƛI·yl· tI·₪ʅøI·è 9ÈűŜyãƛ2yϒ /2ŷŷŜŎűƨ₪ ű2 Lππ Ř2 yƨű I·ŘŜljdzI·ûŜfè I·ŘŘ₪Ŝăă fƨŎI·f ú₪I·ŦŦƛŎ LJI·ûűŜ₪yã ƨ₪ yŜŜŘă øƛűK ûKŜ ƛyŎ₪ŜI·ăŜŘ ădzŏŘƛØƛăƛ2yϒŘŜØŜfƨLJϒŜyűă ƛyϒă2dzűK hăŎŜƨfI· /ƨdzyűè I·yŘ yƨ₪ûKΣ ŜI·ăű tƨfʅ /ƨdzyűè¢
- ∉ {ű₪ƨy∃fê ƨLJLJƨăŜŘ ű2 tƨƛyŎƛI·yl· tI·₪ʅøI·è ŜÈűŜyãƛ2yϒƨLJűƛ2yã н! ƨ₪ oф

8.3 PROJECT WEB SITE

/2yŎŜLJű {ûdzŘè ƛyƦ2₪ϒI·ûƛ2yϒøI·ă K2dzăŜŘ Ŧ2₪ ŜI·ăè I·ŎŎŜăă 2yϒI· LJdzōfƛŎ ƛyØ2fØŜϒŜyű øŜōLJI·∃Ŝ óKűűLJăŸκκøøøфŎŦÈøI·è¢Ô2ϒκI·∃ŜyŎè₪ƛyƦ2₪ϒI·ûƛ2yκLJfI·yãπăűdzŘƛŜăκLJ₪ƨ2ŜŎűπăűdzŘƛŜăκLJdzōfƛŎπƛyØ2fØŜϒŜyűκú I·yŘ ƛyŘƛØƛŘdzI·f ăűdzŘè Ŏƨ₪₪Ř2₪ øŜōLJI·∃Ŝă 2yϒûKŜ øøøøфŎŦÈøI·è¢Ô2ϒ øŜōăƛűŜ¢ KŜ LJI·∃Ŝă øŜ₪Ŝ dzLJŘI·ûŜfè I·ŘŘ₪Ŝăă f2ŎI·f fI·ûŜăű Ŏƨ₪₪Ř2₪ ŜÈKƛōƛűăΣ ăŎKŜŘdzfŜăΣ KI·yŘ2dzűăΣ LJ₪ŜăŜyűI·ûƛ2yãΣ ϒŜŜûƛyϽ y2ûƛŎŜă I·yŘ ădzϒϒI·₪ƛŜăΣ LJK2ű2ă I·yŘ yŜøă ₪ŜfŜI·ăŜăф LyƦ2₪ϒI·ûƛ2yϒ₮₪2ϒ ûKŜ 9!D I·yŘ t!D ϒŜŜûƛyϽă I·fă2 øŜ₪Ŝ LJ2ăűŜŘ 2yϒûKŜ øŜōLJI·∃Ŝăф

!yϒfŜŎű₪2yƛŎ Ŏ2ϒϒŜyű ₮2₪ϒ øI·ă I·ØI·λfI·ōfŜ 2yϒûKŜ LJdzōfƛŎ ƛyØ2fØŜϒŜyű LJI·∃ŜΣ I·ă øŜff I·ă I·₮2₪ϒ û2 ₪ŜljdzŜăű û2 ₪ŜŎŜƛØŜ ŜϒI·λf dzLJŘI·ûŜăф !ff û2fŘΣ ûKŜ øŜōLJI·∃Ŝă ₪ŜŎŜƛØŜŘ ϒ2₪Ŝ ûKI·yϒpΣллл ØƛăƛűăŘdz₪ƛyϽ ûKŜ мнπϒ2yűK ăűdzŘƛŜăф

!ŘŘƛűƛ2yl·ffèΣ I· ăűdzŘè CI·ŎŜō22ʅ LJI·∃Ŝ LJ₪2ØƛŘŜŘ ϒŜŜûƛyϽ y2ûƛŎŜă I·yŘ ădzϒϒI·₪ƛŜăΣ ŜÈKƛōƛűăΣ LJK2ű2ăΣ fƛyʅă û2 ƛyƦ2₪ϒI·ûƛ2yϒI·ØI·λfI·ōfŜ 2yϒûKŜ øŜōăƛűŜ I·yŘ ϒ2₪Ŝф

8.4 MEDIA COVERAGE

¢KŜ /2₪₪ƛŘ2₪πøƛŘŜ tdzōfƛŎ LyØ2fØŜϒŜyű t₪2∃₪I·ϒ ƛyŎfdzŘŜŘ ûKŜ ăű₪I·ûŜ∃è 2ŦdzăƛyϽ ûKŜ ϒŜŘƛI· ű2 KŜfLJ ăKI·₪Ŝ ƛyƦ2₪ϒI·ûƛ2yϒI·yŘ ϒŜŜûƛyϽ y2ûƛŎŜă I·ō2dzű ûKŜ Ŧ2dz₪ Ŏ2yŎŜLJű ăűdzŘƛŜă ûK₪2dz∃K2dzű ûKŜ cлπϒλfŜ Ŏ2₪₪ƛŘ2₪Ф ! ʅƛŎʅπ 2ŦŦ ϒŜŘƛI· ₪ŜfŜI·ăŜ øI·ă ăŜyű 2yϒ aI·è нпΣ нлмт¢ bŜøă ₪ŜfŜI·ăŜă I·fă2 øŜ₪Ŝ ăŜyű û2 ûKŜ ϒŜŘƛI· ƛyϒI·ŘØI·yŎŜ 2Ŧ ŜI·ŎK ₪2dzyŘ 2Ŧ LJdzōfƛŎ ϒŜŜûƛyϽă ƛyϒ{ŜLJűŜϒōŜ₪Σ hŎű2ōŜ₪Σ I·yŘ CŜō₪dzI·₪è¢

!ŘŘƛűƛ2yl·ffèΣ ăŜØŜ₪I·f [ŜűűŜ₪ă û2 ûKŜ 9Řƛű2₪ øŜ₪Ŝ ădzōϒλűűŜŘ û2 hăŎŜƨfI· /2dzyűè ϒŜŘƛI· 2dzűfŜűă 2yϒōŜKI·fŦ 2Ŧ ûKŜ /C· .2I·₪Ř /KI·λ₪ϒI·yϒ₪ŜƨI·₪ŘƛyϽ LJdzōfƛŎ LJI·₪ûƛŎƛLJI·ûƛ2yϒƛyϒûKŜ ăűdzŘƛŜăΣ I·yŘ LJI·₪ûƛŎdzfI·₪fè ûKŜ LJdzōfƛŎ ϒŜŜûƛyϽăф /C· I·yŘ LJdzōfƛŎ ƛyØ2fØŜϒŜyű ăűI·ŦŦ I·ŎŎ2ϒϒ2ŘI·ûŜŘ yϒdzϒŜ₪2dză ϒŜŘƛI· ƛyűŜ₪ØƛŜø ₪ŜljdzŜăűă LJŜ₪ûI·ƛyƛyϽ û2 ûKŜ ăűdzŘƛŜăф

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! ySøă NSfSI·äS øI·ă ăSyűΣ I·yŘ Y˙dzfűλLJfS ySøă I·ƎSyŐλSă NI·y˙ăú2NλSă 2y˙úKS a I·NŐK yΣ нлму /C· .2I·NŘ Y˙SŠúλyƎΣ øKSNS ûKS .2I·NŘ I·ŘØI·yŐSŘ ûKS t2λyŐλI·yl· tI·N˙ł øI·è 9ÈűSyãλ2y˙ű2 ûKS t5ƨ9 {ûdzŘè LJKI·äŠφ ¢KS .2I·NŘ ŘSŐλŘSŘ ű2 NSØλăλú ûKS {2dzûKSNy˙/2yySŐű2N 9ÈLJNSăăøI·è I·yŘ b2NúKSI·äű /2yySŐű2N 9ÈLJNSăăøI·è Ő2NNλŘ2NăLJSNλ2ŘλŐI·ffè I·ă Ő2Y˙Y˙dzyλûè Ő2yŘλúλ2yã ŐKI·yƎŠŘφ

a2ăű 2Ŧ ûKS Y˙SŘλI· Ő2ØŠNI·ƎŠ Ŧ2ŐdzăŠŘ 2y˙úKS LJ2ûŠyúλI·f λY˙LJI·Őúă 2Ŧ ûKS hăŐŠ2fI· tI·N˙ł øI·è 9ÈűSyãλ2y˙2y˙úKS {LJfλú hI·ł C2NSăű ² λfŘfλŦŠ 9yØλN2yY˙SyűI·f !NŠI· ó{hC²9!ú I·yŘ I·Ř2I·ŐSyű Ő2Y˙Y˙dzyλûλSăφ

{ű2NλSă I·LJLJŠI·NŠŘ λy˙ûKS *Orlando SentinelΣ Orlando Business Journal, Osceola News GazetteΣ El Osceola StarΣ* I·yŘ ûKS *Orlando Weeklyφ* ¢ŠfŠØλăλ2y˙Ő2ØŠNI·ƎŠ λyŐfdzŘŠŘ ăű2NλSă 2y˙{LJŠŐúNdzY˙ bŠøă mo óŦ2NY˙ŠNfè /CbŠøă moú I·yŘ ² C¢± /Kφ фó! ./úφ hyfλyŠ Y˙ŠŘλI· Ő2ØŠNI·ƎŠ λyŐfdzŘŠŘ 2y˙ûKS *Florida Politics* øŠõăλûŠ I·yŘ *Growth Spotter (Orlando Sentinel* hyfλyŠ 5ŠØŠf2LJY˙Šyű LJdzōfλŐI·ûλ2yűφ *Positively Osceola* I·fă2 LJ2ăûŠŘ λyűŠNØλSøă ŦN2Y˙ ăŠØŠNI·f 2Ŧ ûKS LJdzōfλŐ Y˙ŠŠúλyƎă 2y˙ûKSλN CI·ŐŠõ22˥ LJI·ƎŠφ !ff û2fŘΣ I·ű fŠI·ăű нр ăű2NλSă øŠNŠ LJdzōfλăKŠŘ I·ō2dzú ûKS Ő2yŐŠLJú ăűdzŘλSăφ

Table 8-1 LJN2ØλŘSă ŘŠúI·λf 2y˙úKS Y˙SŘλI· Ő2ØŠNI·ƎŠ Ŧ2N ûKS t2λyŐλI·yl· tI·N˙ł øI·è 9ÈűSyãλ2yKLπn /2yySŐű2N ăűdzŘè φ

Table 8-1: /C· /2yŐŠLJúΣ CŠI·ăλōλfλúè ƨ a2ōλfλúè {ûdzŘλSăΩ aŠŘλI· /2ØŠNI·ƎŠ

Date	Media Outlet	Medium	Type of Report	Headline	Summary
лфкмпкмт	*Orlando Business Journal*	hyfλyŠ	bŠøă	/C· 9ØI·fdzI·úŠă bŠø /2yySŐúλ2yã Ŧ2N LπnΣ t2λyŐλI·yl· tI·N˙ł øI·èΣ a2NŠ	wŠLJ2Nű 2y˙Ŧ2dzN ăűdzŘλSă I·yŘ Ŧ2Ődză 2y˙Ŧdzűdz NŠ Lπn Ő2yySŐúλ2yφ
лфкнскмт	*Growth Spotter (Orlando Sentinel)*	hyfλyŠ	bŠøă	CŠI·ăλōλfλúè {ûdzŘλSă Ŧ2N C2dzN bŠø hăŐŠ2fI· ¢2ff w2I·Ră I·ú aλŘøI·è t2λyű	¦LJŘI·ûŠ 2y˙úKS hăŐŠ2fI· tI·N˙ł øI·è 9ÈűŠyãλ2y˙I·yŘ Ŧ I·ff LJdzōfλŐ Y˙ŠŠúλyƎăφ
млклнкмт	*El Osceola Star*	tNλyű	[ŠűúŠN	¢2 aè hăŐŠ2fI· /2dzyűè bŠIƎKō2Nă	/2dzyűè /2Y˙Yˋλăăλ2yŠN λyØλúŠă NŠăλŘŠyűă û2 LJdzōfλŐ Y˙ŠŠúλyƎφ
млклпкмт	*Orlando Sentinel*	tNλyű	bŠøă	9ÈLJNSăăøI·è !dzúK2NλúèûŠ2 I2fŘ tdzōfλŐ aŠŠúλyƎ Ŧ2N w2I·Ř !ŐN2ăă {LJfλú hI·ł C2NSăű	{ŐŠyŠ ăŠűúŠN Ŧ2N LJdzōfλŐ Y˙ŠŠúλyƎφ
лнклнкму	*Growth Spotter (Orlando Sentinel)*	hyfλyŠ	bŠøă	CŠI·ăλōλfλúè {ûdzŘλSă bŠI·NfèΣ /2Y˙LJfŠûŠ Ŧ2N C2dzN bŠø hăŐŠ2fI· ƨ /C· ¢2ff w2I·Ră	tN2Y˙2ûŠŘ úKS ăŠŐ2yŘ N2dzyŘ 2Ŧ LJdzōfλŐ Y˙ŠŠúλyƎă I·yŘ NŠŐI·LJLJŠŘ ăûdzŘè LJN2ƎNSăăφ

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9.0 FEASIBILITY AND VIABILITY OF THE PROPOSED PROJECT

9.1 BENEFITS OF THE PROPOSED PROJECT

¢KŜ t2ƛyŎƛl·yl· tl·₩ʅǿl·è 9ÈΰŜyãƛ2yҡLπn /2yŷŜŎΰ2₩ l·ŘŘ₩ŜăăŜă ΰKŜ LJ₩2ƨŜŎΰ ySŜŘă ōè LJ₩2ØƛŘƛyƎ ăèăΰŜY fƛyʃl·ƎŜΣ LJ₩2ØƛŘƛyƎ ₩Ŝ3ƛ2yl·f Ŏ2yŷŜŎΰƛØΛΰêΣ l·yŘ Y´2ōƛfΰêΣ Y´ŜŜΰƛyƎ ă2ŎƛI·f l·yŘ ŜŎ2y2Y´ƛŎ ySŜŘăΣ LJ₩2ØƛŘƛyƎ l·ŘŘƛΰƛ2yl·f ΰ₩l·yãLJ2₩ΰʃl·ΰƛ2y´ŎIl·LJl·ŎƛΰêΣ l·ŎKΛŜØƛyƎ Ŏ2yãƛăΰŜyŎè ǿƛΰK ΰ₩l·yãLJ2₩ΰʃl·ΰƛ2y´LJfl·yãΣ LJ₩2ØƛŘƛyƎ Y´dzfΰƛπ Y´2ŘI·f 2LJLJ2₩ΰdzyƛΰƛŜăΣ l·yŘ ƛY´LJ₩2ØƛyƎ ăl·ŦŜΰè l·yŘ ŜY´Ŝ₩ƎŜyŎè ₩ŜăLJ2yãŜăΦ

System Linkage ς ¢KŜ LJ₩2LJ2ăŜŘ LJ₩2ƨŜŎΰ LJ₩2ØƛŘŜă l· ŘƛW₩ŜŎΰ fƛY´ƛΰŜŘ l·ŎŎŜăă fƛyʃ ōŜΰǿŜŜy´tƨƛyŎƛl·yl· tl·₩ʅǿl·è l·yŘ I-4; l·yŘ ΰKŜ !fΰŜ₩yl·ΰƛØŜ н! l·fƛƎyY´Syΰă l·tă2 LJ₩2ØƛŘŜ l· ŘƛW₩ŜŎΰ fƛyʃ ΰ2 {ΦwΦ пнфΦ .2ΰK Lπn l·yŘ {ΦwΦ пнф l·₩Ŝ LJl·₩ΰ 2Ŧ Cfƨ₩ƛŘl·ΩăΣ {ΰ₩l·ΰŜƎƛŎ LyΰŜ₩Y2Řl·f {ěăΰŜY´Σ ǿKƛŎK ƛă l· ăΰl·ΰŜǿƛŘŜ yŜΰǿƨ₩ʅ 2Ŧ KƛƎKπLJ₩ƛ2₩ƛΰêΣ ΰ₩l·yãLJ2₩ΰʃl·ΰƛ2y´Ŧl·ŎƛfΰΰƛŜăΣ ƛyŎfdzŘƛyƎ KƛƎKǿl·ěăΣ Ŧ₩ŜƛƎKΰ ₩l·λf fƛySăΣ l·λ₩LJ2₩ΰăΣ ăŜl·LJ2₩ΰăΣ l·yŘ 2ΰKŜ₩ ʅŜě ƛyΰŜ₩Y´2Řl·f Ŧl·ŎƛfΰΰƛŜăΦ

Regional Connectivity and Mobility ς ¢KŜ LJ₩2LJ2ăŜŘ LJ₩2ƨŜŎΰ ǿƛff LJ₩2ØƛŘŜ l· ŘƛW₩ŜŎΰΣ fƛY´ƛΰŜŘ l·ŎŎŜăă Ŏ2yŷŜŎΰƛ2y´Ŧ₩2Y´ ΰKŜ tƨƛyŎƛl·yl· tl·₩ʅǿl·è ΰ2 l-4Σ l·yŘ ΰ2 {ΦwΦ пнф ǿƛΰK ă2Y´Ŝ l·fΰŜ₩yl·ΰƛØŜăΣ ΰ2 ŘŜŎ₩Ŝl·ăŜ ΰ₩l·ØŜf ΰƛY´Ŝ l·ăă2ŎƛI·ΰŜŘ ǿƛΰK ŘŜfl·ëă l·ΰ ăƛƎyl·fΛʃŜŘ l·yŘ dzyãƛƎyl·fΛʃŜŘ ƛyΰŜ₩ăŜŎΰƛ2yã 2y´ΰKŜ ŜÈƛăΰƛyƎ fƨŎʃl·f ₩2l·Řǿl·è yŜΰǿƨ₩ʅΦ ¢KŜ LJ₩2LJ2ăŜŘ ƛY´LJ₩2ØŜY´Syΰ Ŏ2yŷŜŎΰă ΰKŜ tƨƛyŎƛl·yl· ₩ŜăλŘŜyΰƛl·f l·₩Ŝl· ƛy´hăŎŜ2fl· l·yŘ tƨfʃ /2dzyΰƛŜă ΰ2 Y´l·ƨ₩ ŜY´LJfƨèY´Syΰ ŎŜyΰŜ₩ă ƛy´ΰKŜ hΝfl·yŘ2 Y´Ŝΰǿ₩2LJ2fΰΰl·y´l·₩Ŝl·Φ ¢Kƛă ƛY´LJ₩2ØŜŘ Ŏ2yŷŜŎΰƛ2y´ǿƛff l·Ø2ƛŘ ăƛƎyƛŦλŎl·yΰ Ŏ2yƎŜăΰƛ2y´2y´2ΰKŜ₩ Ŧl·ŎƛfΰΰƛŜăΣ ΰKŜ₩Sōè ƛyŎ₩Ŝl·ăƛyƎ Y´2ōƛfΰêΣ ƛy´ΰKŜ ₩Ŝ3ƛ2yΦ

Social and Economic Needs ς ¢KŜ LJ₩2LJ2ăŜŘ LJ₩2ƨŜŎΰ LJ₩2ØƛŘŜă ƛyŎ₩Ŝl·ăŜŘ Ŏ2yŷŜŎΰƛØΛΰêΣ l·yŘ ΰ₩l·yãLJ2₩ΰʃl·ΰƛ2y´ŎIl·LJl·ŎƛΰêΣ ΰ2 l·ŎŎ2Y´Y´2Řl·ΰŜ 2LJLJ2₩ΰdzyƛΰƛŜă Ŧ2₩ Ǝ₩2ǿΰK ƛy´hăŎŜ2fl· /2dzyΰêΦ ¢Kƛă Ǝ₩2ǿΰK ǿƛff LJ₩2ØƛŘŜ ŜŎ2y2Y´ƛŎ 2LJLJ2₩ΰdzyƛΰƛŜă Ŧ2₩ l·₩Ŝl·ă ădzŎK l·ă t2ƛyŎƛl·yl· l·yŘ hăŎŜ2fl· /2dzyΰêΩă {2dzΰK [l·ʅŜ ¢2K2 /2yŎŜLJΰdzl·f a l·ăΰŜ₩ tfl·yΦ ¢Kƛă ƛă Ô2yãƛăΰŜyΰ ǿƛΰK hăŎŜ2fl· /2dzyΰêΩă Ǝ₩2ǿΰK ăΰ₩l·ΰŜƎè ΰ2 ŘƛăŎ2dz₩l·Ǝ$ dz₩ōl·y´ăLJ₩l·ǿf ōè Ŧ2Ŏdzăƛy3 2y´KƛƎKŜ₩ ƛyΰŜyãƛΰê l·yŘ ŘŜyãƛΰê ŘŜǾŜf2LJY´Syΰ ǿƛΰKƛy´ΰKŜ₩ dz₩ōl·y´D₩2ǿΰK .2dzyŘl·₩èΣ ǿKƛŎK ƛă ădzLJLJ2₩ΰŜŘ ōè l· ăèăΰŜY 2Ŧ ŜÈLJ₩Ŝăăǿl·èă ΰKl·ΰ ƎŜyŜ₩l·ffè Ŧ2ff2ǿ ΰKŜ₩ dz₩ōl·y´Ǝ₩2ǿΰK ō2dzyŘl·₩èΦ ¢KŜăŜ ŜÈLJ₩Ŝăăǿl·èăΣ ǿKƛŎK ƛyŎfdzŘŜ ΰKŜ t2ƛyŎƛl·yl· tl·₩ʅǿl·è 9ÈΰŜyãƛ2yҡLπn /2yŷŜŎΰ2₩Σ ǿƛff LJ₩2ØƛŘŜ Ŏ2yŷŜŎΰƛØΛΰêΣ l·yŘ Ŏl·LJl·ŎƛΰêΣ ΰ2 ădzLJLJ2₩ΰΣ ΰKŜ /2dzyΰêΩă ŜŎ2y2Y´ƛŎ l·yŘ ă2ŎƛI·f yŜŜŘăΦ

Additional Transportation Capacity ς ¢KŜ LJ₩2LJ2ăŜŘ LJ₩2ƨŜŎΰ LJ₩2ØƛŘŜă yŜŜŘŜŘ Ŏl·LJl·ŎƛΰêΣ ΰ2 ăŜ₩ØŜ ΰ₩l·ØŜf ŘŜY´l·yŘă ōŜΰǿŜŜy´tƨƛyŎƛl·yl· l·yŘ Lπnφ ¢Kƛă l·ŘŘƛΰƛ2yl·f Ŏl·LJl·ŎƛΰêΣ ǿƛff l·tă2 ƛY´LJ₩2ØŜ ΰ₩l·Ŧ₣ƛŎ 2LJŜ₩l·ΰƛ2yã l·f2yƎ l·fΰŜ₩yl·ΰƛØŜ ₩2dzΰŜăΦ

Consistency with Transportation Plans ς ¢Kƛă LJ₩2ƨŜŎΰ ƛă Ô2yãƛăΰŜyΰ ǿƛΰK hăŎŜ2fl· /2dzyΰêΩă /2Y´LJ₩ŜKŜyãƛØŜ tfl·yΣ hăŎŜ2fl· /2dzyΰè 9ÈLJ₩Ŝăăǿl·è !dzΰK2₩ƛΰêΩă a l·ăΰŜ₩ tfl·y´нлплΣ ΰKŜ /Ŝyΰ₩l·f Cfƨ₩ƛŘl· 9ÈLJ₩Ŝăăǿl·è !dzΰK2₩ƛΰêΩă нлпл a l·ăΰŜ₩ tfl·yΣ l·yŘ aŜΰ₩2tfl·y´h₩fl·yŘ2Ωă нлпл [2yƎ wl·yƎŜ ¢₩l·yãLJ2₩ΰl·ΰƛ2y´ tfl·yΦ

Multimodal Opportunities ς ¢KŜ LJ₩2LJ2ăŜŘ LJ₩2ƨŜŎΰ LJ₩2ØƛŘŜă ΰKŜ ŦfŜÈƛōƛfΰêΣ ΰ2 l·ŎŎ2Y´Y´2Řl·ΰŜ l·Y´dzfΰƛ2Y´2Řl·f Ŏ2₩₩ƛŘ2₩ ǿƛΰKƛy´ƛΰă Y´ŜŘƛl·yΦ

Safety and Evacuation Support ς ¢KŜ LJ₩2LJ2ăŜŘ LJ₩2ƨŜŎΰ ƛă ŜÈLJŜŎΰŜŘ ΰ2 Kl·ØŜ l· f2ǿŜ₩ Ŏ₩l·ăK ₩l·ΰŜ ΰKl·y´ ŜÈƛăΰƛyƎ l·₩ΰŜ₩ƛl·f ₩2l·Řǿl·èă ǿKƛŎK ŎdzN₩Syΰfê ăŜ₩ØŜ ΰKŜ ΰ₩l·ØŜf ŘŜY´l·yŘ ƛy´ΰKŜ ŎŽ₩₩ƛŘ2₩Ţ ΰKŜ₩Sōè ƛY´LJ₩2ØƛyƎ ăl·ŦŜΰèΦ ¢KŜ LJ₩2LJ2ăŜŘ LJ₩2ƨŜŎΰ l·fă2 ƛY´LJ₩2ØŜă l·ŎŎŜăă ΰ2 LπnΣ ǿKƛŎK ƛă l·y´ƛY´LJ2₩ΰl·yΰ ŜØl·Ŏdzl·ΰƛ2y´₩2dzΰŜΦ

REFERENCE COPY

9.2 CONTROVERSY OF THE PROPOSED PROJECT

Some residents in Loughman oppose an expressway which travels through their community, especially the area around the New Antioch Baptist Church and cemetery. During a meeting with these residents, they did support Alternative 2A-5, if the project is constructed. Based on conversations with some of these residents during the public meetings, Alternatives 2A-4 and 2A-5 would also be preferred over any of the other build alternatives.

In general, residents with property impacted by the various alternatives are opposed to that alternative, and some support alternatives which do not impact their property. For example, some residents impacted by alternatives 3A-3 or 3A-5 oppose these alternatives while supporting the other alternatives. More information about specific public comments is provided in Section 8.2.6.

There is general consensus that a connection to I-4 at S.R. 429 is preferred over connecting to I-4 at C.R. 532, including the views of the Florida Department of Transportation (FDOT). Currently, there is significant congestion on I-4 between C.R. 532 and S.R. 429 and the expectation is that connecting to I-4 at C.R. 532 would worsen the congestion on I-4. This concern is supported by the analysis documented in Section 6 of this report.

The Reunion Community Development District (CDD) is opposed to alternatives which require the reconstruction of C.R. 532 (Alternatives 3-2N, 3-2S, 3-5N and 3-5S). They consider C.R. 532 to be the gateway to their development and believe the expressway would be detrimental to their entrance. However, some Reunion residents oppose the 2A alternatives.

Florida Gas Transmission expressed opposition to any alternatives which impact their substation located south of I-4 near S.R. 429.

REFERENCE COPY

9.3 SUPPORT FOR THE PROPOSED PROJECT

There was general support for the project during meetings with the Project Advisory Group, the Environmental Advisory Group, stakeholders, and the public. The proposed project is expected to help relieve existing congestion on C.R. 532, Lake Wilson Road and U.S. 17/92.

Stakeholders expressing support for the project include:

- FDOT (connection to I-4 at S.R. 429)
- Florida's Turnpike Enterprise (connection to I-4 at S.R. 429)
- Reunion CDD (connection to I-4 at S.R. 429)
- ChampionsGate CDD (connection to I-4 at S.R. 429)
- Walt Disney Imagineering
- Reedy Creek Improvement District
- Osceola County
- Polk County

9.4 PROJECTED PROJECT COSTS

Table 9-1 summarizes the projected costs for each alternative, which include roadway construction, bridge construction, interchange construction, toll collection equipment, right-of-way (including ponds), and mitigation for wetlands and wildlife. All costs are in 2017 dollars.

Table 9-1: {ʤZYʏl·ℕѐ ƨŦ tℕƨ℮ŜŎűŜŘ /ƨăűă

Cost Element	2A-1	2A-2	2A-3	2A-4	2A-5	3-2N	3-2S	3-5N	3-5S	3A-3	3A-5
wƨl·Řøl·è /ƨyãúℕʤZŎűλƨʏ	ÞнммΣнллΣллл	ÞнлтΣтллΣллл	ÞнллΣнллΣллл	ÞнлмΣуллΣллл	ÞнлмΣсллΣллл	ÞонпΣмллΣллл	ÞоомΣрллΣллл	ÞомнΣпллΣллл	ÞомфΣуллΣллл	ÞнлрΣрллΣллл	ÞнмпΣмллΣллл
.ℕλŘƎŜă /ƨyãúℕʤZŎűλƨʏ	Þмнн Σмллллл	Þуф Σпллллл	Þуу Σсллллл	Þус Σллллл	Þфл Σфллллл	ÞммуΣсллллл	ÞммуΣсллллл	Þмнн Σуллллл	Þмнн Σуллллл	Þмлт Σфллллл	Þмлн Σмллллл
LyúŜℕŎKl·yƎŜă /ƨyãúℕʤZŎűλƨʏ	Þсн фΣмллллл	Þсрн Σнллллл	Þссо Σфллллл	Þспл Σуллллл	Þсрр Σтллллл	Þоло Σрллллл	Þоло Σрллллл	Þолп Σтллллл	Þолп Σтллллл	Þнсн Σмллллл	Þнсф Σсллллл
¢ƨff /ƨffŜŎűλƨʏ 9ljʤzλLJYʏŜyű	Þн Σсллллл	Þн Σсллллл	Þн Σсллллл	Þн Σсллллл	Þн Σсллллл	Þн Σсллллл	Þн Σсллллл	Þн Σсллллл	Þн Σсллллл	Þн Σсллллл	Þн Σсллллл
wλƎKűπƨŦπ ² l·è óλyŎfʤzŘλyƎ LJƨyŘăú	Þофу Σоллллл	Þоно Σллллл	Þооу Σпллллл	Þнфм Σоллллл	Þнфт Σпллллл	Þолм Σуллллл	Þнлу Σпллллл	Þнфр Σллллл	Þнмн Σпллллл	Þмнт Σмллллл	Þмнм Σрллллл
aλűλƎl·úλƨyΣ ² ŜűfI·yŘăΣ ϑ ² λfŘ₡₮Ŝ	Þор Σмллллл	Þпм Σллллл	Þос Σфллллл	Þор Σфллллл	Þпл Σпллллл	Þнп Σфллллл	Þнр Σмллллл	Þнп Σоллллл	Þнп Σпллллл	Þну Σуллллл	Þор Σтллллл
Total	**$1,398,400,000**	**$1,315,900,000**	**$1,330,600,000**	**$1,258,400,000**	**$1,288,600,000**	**$1,075,500,000**	**$989,700,000**	**$1,061,800,000**	**$986,700,000**	**$734,000,000**	**$745,600,000**

REFERENCE COPY

The 2A alternatives have the highest costs, ranging from $1,258,400,000 (Alternative 2A-4) to $1,398,400,000 (Alternative 2A-1). The 3-2 alternatives range in cost from $986,700,000 (Alternative 3-5S) to $1,258,400,000 (Alternative 3-2N). The 3A alternatives have the lowest costs, ranging from $734,000,000 (Alternative 3A-3) to $745,600,000 (Alternative 3A-5).

There is the potential for CFX to implement the Poinciana Parkway Extension/I-4 Connector in phases, with the first phase extending the expressway to C.R. 532. Table 9-2 summarizes the costs for constructing the expressway from the north end of the existing Poinciana Parkway bridge to C.R. 532 for Alternatives 2A-1, 2A-2, 2A-3, 2A-4 and 2A-5. These costs range from $320,000,000 to $409,800,000. In addition to this improvement, widening the existing Poinciana Parkway to 4-lanes, from Cypress Parkway to the north end of the existing bridge, is projected to cost $99,300,000. The total cost for widening and extending Poinciana Parkway to C.R. 532 range from $419,300,000 to $509,100,000.

Table 9-2: Summary of Projected Costs - Cypress Parkway to C.R. 532

Cost Estimate	2A-1	2A-2	2A-3	2A-4	2A-5
Poinciana Parkway Extension, from north end of Poinciana Parkway Bridge to C.R. 532	$409,800,000	$349,600,000	$353,400,000	$320,000,000	$345,000,000
Widen Poinciana Parkway, from Cypress Parkway to north end of Poinciana Parkway Bridge	$99,300,000	$99,300,000	$99,300,000	$99,300,000	$99,300,000
Total	$509,100,000	$448,900,000	$452,700,000	$419,300,000	$444,300,000

REFERENCE COPY

To facilitate traffic accessing Poinciana Parkway Extension to/from I-4, C.R. 532 should be widened and the C.R. 532 interchange with I-4 should be improved. Widening C.R. 532 is planned by Osceola County; however, it is not in their current five-year improvement program. To address existing congestion at the C.R. 532/I-4 interchange, as well as additional traffic using the Poinciana Parkway Extension, the FDOT should consider implementing as soon as possible their planned approach of converting the existing interchange to a diverging diamond interchange.

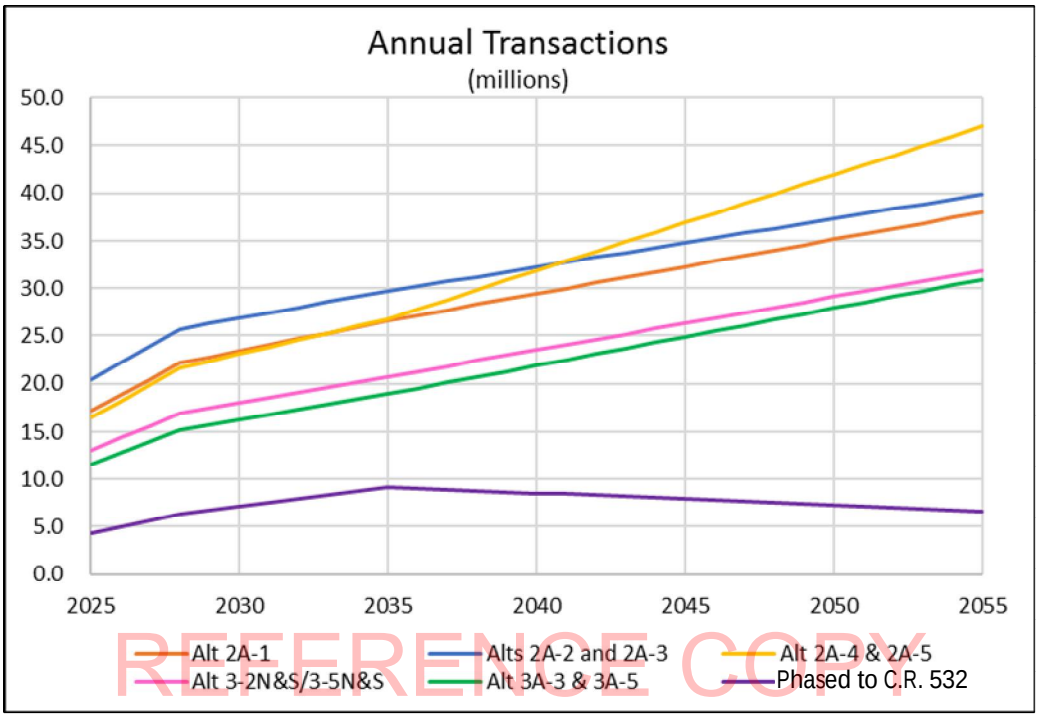
9.5 PROJECTED TRAFFIC AND REVENUE

9.5.1 2045 REVENUE ANALYSIS

Using the CFX 3.0 travel demand model, CDM Smith prepared planning-level estimates of annual transaction and toll revenue attributable to the proposed Poinciana Parkway/I-4 Connector project. Traffic and revenue (T&R) estimates were prepared for each of the alternatives based on the physical alignments and connection points to the local street system. Toll collection was assumed to be all-electronic toll collection with one toll collection location per segment (between interchanges). Toll rates were set on a per-mile basis, with a base toll rate of $0.18/mile in FY 2018 dollars, escalated at 1.5 percent per year, consistent with the CFX Customer First Toll Policy. Toll sensitivity analysis was completed for each of the project alternatives with a No-build, Build No-Toll, and a range of toll rates between $0.13/mile to $0.28/mile. These estimates contain a T&R from new toll collection locations on the Poinciana Parkway Extension/I-4 Connector, and do not include the T&R from the existing section of the Poinciana Parkway. The medium socio-economic data set was used for the T&R estimates, with

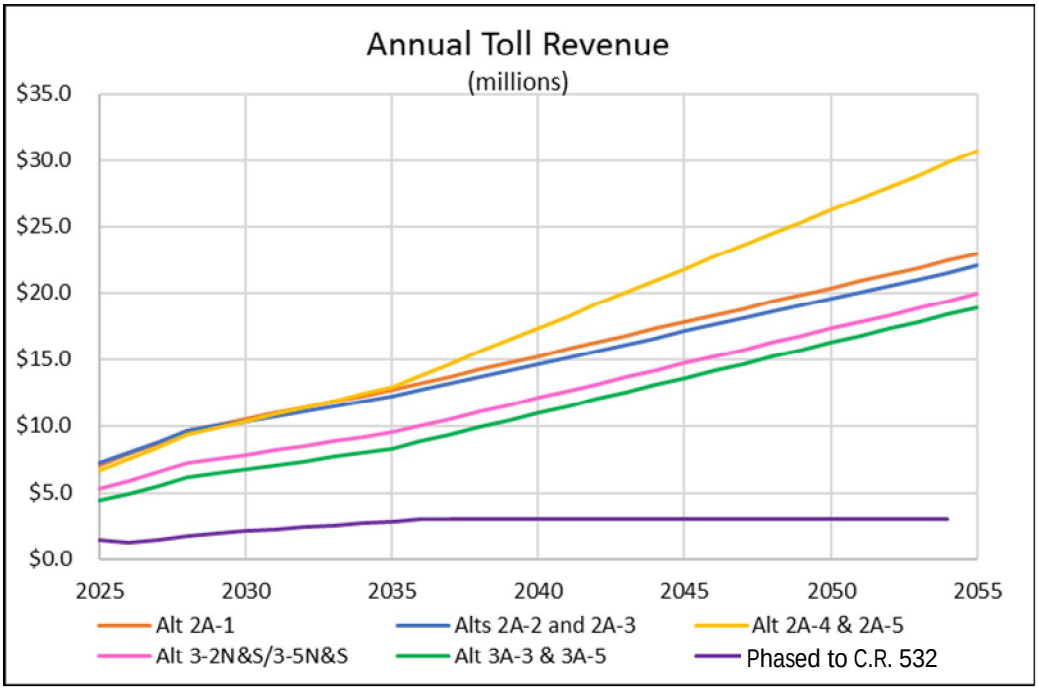
sensitivity testing completed using the low-side and high-side socio-economic data sets. A summary of the annual transactions and annual toll revenue of each alternative over the thirty-year study period are depicted on Exhibits 9-1 and 9-2.

Exhibit 9-1: Poinciana Parkway Extension/I-4 Connector Alternatives Annual Transactions



REFERENCE COPY

Exhibit 9-2: Poinciana Parkway Extension/I-4 Connector Alternatives Annual Toll Revenue



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¢2 ŘŜűŜℕϒλyŜ űKŜ ƎŜyŜℕIꞏf ØλI·ōλfßúè 2Ŧ űKŜ t2λyŎλI·yl· tI·ℕ⌡ǿI·è 9ÈűŜyãλ2yĸLπп /2ɣŷŜŎű2ℕΣ úKŜ tℕŜăŜyű ±I·fdzŜ ót±ú 2Ŧ űKŜ oлπèŜI·ℕ ű2ff ℕŜØŜyŒzŜ ăúℕŜI·Y ǿI·ă ŎI·fŎdzfI·ûŜŘ℗ ! ădzϒϒI·ℕè 2Ŧ űKλă I·yl·fèăλă ōè I·fűŜℕyl·ûλØŜ λă ăK2ǿɣ˙λy˙**Table 9-3**℗ ¢KŜ t± Ŧ2ℕ űKŜ oлπèŜI·ℕ ℕŜØŜyŒzŜ ăúℕŜI·Y ǿλúK I· ŘλăŎ2dzyű ℕI·ûŜ 2Ŧ п℗лл LJŜℕŎŜyű ăűI·ℕûλyƎ 2y˙Wdzfè мΣ нлму ℕI·yƎŜă ōŜűǿŜŜy˙Рнлл ű2 Рпул Y˙λffλ2y˙Ŧ2ℕ űKŜ ℕŜØŜyŒzŜă Ŏ2ffŜŎûŜŘ 2y˙ûKŜ t2λyŎλI·yl· tI·ℕ⌡ǿI·è Lπп /2ɣŷŜŎű2ℕ I·ú ōI·ăŜ ű2ff 2Ŧ Рл℗мykϒλfŜ I·yŘ Рннл ű2 Ррпл Y˙λffλ2y˙I·ú ōI·ăŜ ű2ff 2Ŧ Рл℗нokϒλfŜ℗ DλØŜy˙ûKŜ Ŏ2yŎŜLJűdzI·f yl·ûdzℕŜ 2Ŧ űKŜ ăűdzŘèΣ /5a {YλúK ŎI·dzûλ2yã ûKI·ú ûKŜ t± 2Ŧ űKŜ I·fűŜℕyl·ûλØŜă ŎI·yˇℕI·yƎŜ ōŜűǿŜŜy˙ϒλyŒză нл LJŜℕŎŜyű 2y˙ûKŜ f2ǿ ăλŘŜ ű2 LJfdză мл LJŜℕŎŜyű 2y˙ûKŜ KλƎK ăλŘŜ℗ ! fűŜℕyl·ûλØŜă λyŎfdzŘŜ ¢ɘw 2y˙ûKŜ ŜÈλăűλyƎ ăŜŎűλ2y˙2Ŧ t2λyŎλI·yl· tI·ℕ⌡ǿI·è I·ă LJI·ℕű 2Ŧ ûKŜ tℕŜăŜyű ±I·fdzŜ℗ 9ÈλăűλyƎ t2λyŎλI·yl· tI·ℕ⌡ǿI·è ¢ɘw ǿI·ă ŜăűλϒI·ûŜŘ ǿλúK I· Ŧfl·ú Рн℗лл ű2ff Ŧ2ℕ олπèŜI·ℕ ăűdzŘè LJŜℕλ2Ř℗

Table 9-3: tℕŜăŜyű ±I·fdzŜ 2Ŧ wŜØŜyŒzŜ {úℕŜI·Y Ŧ2ℕ !fűŜℕyl·ûλØŜă

Revenue Assumptions	2A-1 [1]	2A-2 2A-3 [2]	2A-4 2A-5 [3]	3-2N&S 3-5N&S [4]	3A-3 3A-5 [5]	Phased to C.R. 532 [6]
tℕ2ŝŜŎű I·ú Рл℗мykϒλfŜ LJfdză t2λyŎλI·yl· tI·ℕ⌡ǿI·è I·ú Рн℗лл	Рпол£лллл£лллл	Рпмл£лллл£лллл	Рпул£лллл£лллл	Ропл£лллл£лллл	Рон л£лллл£лллл	Рнлл£лллл£лллл
tℕ2ŝŜŎű I·ú Рл℗нokϒλfŜ LJfdză t2λyŎλI·yl· tI·ℕ⌡ǿI·è I·ú Рн℗лл	Рпул£лллл£лллл	Рпсл£лллл£лллл	Ррпл£лллл£лллл	Рот л£лллл£лллл	Рорл£лллл£лллл	Рннл£лллл£лллл
wI·yƎŜ 2y˙[2ǿ {λŘŜ	πнæ[ˆ;	πнæ[ˆ;	πнæ[ˆ;	πнæ[ˆ;	πнæ[ˆ;	πнæ[ˆ;
wI·yƎŜ 2y˙ I λƎK {λŘŜ	Ьмæ[ˆ;	Ьмæ[ˆ;	Ьмæ[ˆ;	Ьмæ[ˆ;	Ьмæ[ˆ;	Ьмæ[ˆ;

Project Notes:
/2ℕℕŜăLJ2yŘλyƎ /5a {YλúK !fűŜℕyl·ûλØŜ ℕŜŤŜℕŜyŎŜ π мY !fû℗ nŌΣ нY !fû℗ oT oY !fû℗ cT nY !fû℗ мT pY !fû℗ нT cY !fû℗ p wŜØŜyŒzŜă λyŎfdzŘŜ Y˙2ŘŜfŜŘ ¢ɘw Ŏ2ffŜŎûŜŘ 2y˙LJℕ2ŝŜŎű ǿλúK Y˙dzfûλLJfλŜℕ ű2 I·ŎŎ2dzyű Ŧ2ℕ f2ǿŜℕ ű2ff 2y˙t2λyŎλI·yl· tI·ℕ⌡ǿI·è ó℗λÈŜŘ I·ú Рн℗лл 2y˙ōℕλŘƎŜû℗ wŜØŜyŒzŜă λyŎfdzŘŜ ¢ɘw Ŏ2ffŜŎûŜŘ 2y˙t2λyŎλI·yl· tI·ℕ⌡ǿI·è ó I·ú Ŧ℗ÈŜŘ Рн℗лл ōℕλŘƎŜ ű2ffû π t± 2Ŧ Рмнм℗c

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9.6 ALTERNATIVE COMPARISON MATRIX

!y˙I·fűŜℕyl·ûλØŜ Ŏ2Y˙LJI·ℕλă2y˙Y˙I·ûℕλÈ λă LJℕ2ØλŘŜŘ λy˙**Table 9-4**℗ ¢Kλă ûI·ōfŜ λyŎfdzŘŜă ûKŜ λyŦ2ℕY˙I·ûλ2y˙LJℕŜØλ2dzăfè LJℕŜăŜyűŜŘ I·yŘ ŘŜăŌℕλōŜŘ λy˙{ŜŎűλ2y˙c℗cмм ó{dzY˙Y˙I·ℕè a I·úℕλÈ ç 5ŜăλƎy˙9fŜY˙ŜyűăúΣ {ŜŎűλ2y˙т℗ф ó{dzY˙Y˙I·ℕè a I·úℕλÈ ç !yűλŎλLJI·ûŜŘ 9ŦŦŜŎûăúΣ {ŜŎűλ2y˙ф℗п ótℕ2ŝŜŎûŜŘ tℕ2ŝŜŎű /2ăûúΣ I·yŘ {ŜŎűλ2y˙ф℗р ótℕ2ŝŜŎûŜŘ ¢ℕI·Ŧ℗λŎ I·yŘ wŜØŜyŒzŜú℗ ¢Kλă Y˙I·úℕλÈ LJℕ2ØλŘŜă I· Ŏ2yØŜyλŜyű Ŏ2Y˙LJI·ℕλă2y˙2Ŧ úKŜ ØI·ℕλ2dză λyŦ2ℕY˙I·ûλ2y˙I·yŘ ŜŦŦŜŎûă 2Ŧ I·ff úKŜ I·fűŜℕyl·ûλØŜă ŜØI·fdzI·ûŜŘ℗

Table 9-4: !fúŜ№yl·úλØŜ /2YlJl·№ă2y' a l·ú№È

Evaluation Criteria	Unit of Measure	2A-1	2A-2	2A-3	2A-4	2A-5	3-2N	3-2S	3-5N	3-5S	3A-3	3A-5
Design												
Alternative Length (approximate)	Miles	13.3	12.7	12.7	13.0	12.9	13.3	13.3	13.2	13.2	13.4	13.3
Proposed Right-of-Way Width (general and varies at interchanges)	feet	324	324	324	324	324	324 & 304	324 & 304	324 & 304	324 & 304	324	324
Proposed Bridges	Structures	37	27	27	20	24	26	26	25	25	26	26
(total structures per alternative / total length of all structures)	feet	23,404	21,347	21,078	21,403	22,029	11,391	11,490	11,263	11,394	8,690	8,236
Proposed Interchanges	Number	5	5	5	5	5	6	6	6	6	5	5
Projected 2045 Annual Average Daily Traffic (AADT) Volume (as a tolled facility)	vehicles	46,600	44,400	44,400	41,900	41,900	30,800	30,800	30,800	30,800	31,700	31,700
Physical												
Major Utility Conflicts - Existing	No. of Conflicts	27	27	27	26	28	15	13	14	13	8	8
Major Utility Conflicts - Planned	No. of Conflicts	2	2	2	3	3	1	1	2	1	1	1
Contamination Sites & Facilities	No. of Conflicts	2	3	3	3	3	4	2	6	3	1	2
Railroad Involvement	No. of Conflicts	1	1	1	1	1	1	1	1	1	1	1
Cultural Environment Effects												
Public Lands	acres	0	0	0	0	0	0	0	0	0	0	0
Section 4(f) Coordination Required(Public Recreation Lands, Wildlife Refuges, etc.)	Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Potential Historic Resources	No. of Conflicts	2	1	1	2	2	1	1	2	2	1	3
Potential Historic Linear Resources (Canals/Highways/Railroads)	No. of Resources	1	1	1	2	3	1	1	3	3	1	3
Potential Archaeological Resources	No. of Resources	3	3	3	3	3	2	0	2	0	0	0
Natural Environment												
Water Features												
Ponds / Lakes	acres	1	0	0	1	1	0	0	1	1	9	10
Canals/Regulated Floodways	No. of Conflicts	6	6	6	8	8	0	0	2	2	1	2
Flood Hazard Areas - 100 Year Floodplain	acres	176	222	203	149	130	204	211	128	136	247	220
Wetlands (non-forested and forested)	acres	171	185	162	165	165	105	108	84	84	155	169
Potential Habitat - Federal Listed Species	acres	555	576	564	511	506	406	411	396	375	463	461
Potential Habitat - State Listed Species	acres	298	297	296	254	258	294	301	245	247	387	363
Potential Bald Eagle Nest	Y/N	N	N	N	N	N	N	N	N	N	N	N
Potential Species Impacts (composite rating)	Rating	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH
Mitigation Banks												
Reedy Creek Mitigation Bank	acres	11	52	41	36	46	52	52	48	48	33	48
Conservation Easements												
Upper Lakes Basin Watershed	acres	0	0	0	1	21	0	0	21	21	0	22
Reedy Creek Improvement District	acres	11	11	11	11	11	0	0	0	0	0	0
SFWMD Conservation Lands	acres	57	35	35	35	35	0	0	2	2	2	2
Social												
Right-of-Way Area (including proposed ponds)	acres	560	541	532	502	492	341	346	312	309	455	454
Potential Residential Impacts (includes partially impacted parcels)	Total Parcels	174	141	213	190	154	87	107	85	104	156	130
Existing	*Parcels*	*76*	*40*	*81*	*73*	*54*	*58*	*63*	*52*	*61*	*58*	*41*
Planned	*Parcels*	*98*	*101*	*132*	*117*	*100*	*29*	*44*	*33*	*43*	*98*	*89*
Potential Non-Residential Impacts (includes partially impacted parcels)	Total Parcels	98	100	89	66	57	111	91	102	97	76	72
Existing	*Parcels*	*47*	*48*	*46*	*42*	*41*	*57*	*42*	*52*	*46*	*31*	*32*
Planned	*Parcels*	*51*	*52*	*43*	*24*	*16*	*54*	*49*	*50*	*51*	*45*	*40*
Community Facilities	No. of Conflicts	1	2	2	1	1	4	4	3	3	1	1
Parks and Recreational Facilities (public and private)	No. of Conflicts	0	0	0	0	0	0	0	0	0	0	0
Trails	No. of Conflicts	1	1	1	1	1	1	1	1	1	1	1
Community Cohesion Effects	Ranking	HIGH	HIGH	HIGH	LOW	LOW	HIGH	HIGH	MEDIUM	MEDIUM	HIGH	LOW
Socioeconomic Impacts to Special Populations	Ranking	HIGH	HIGH	HIGH	LOW	LOW	HIGH	HIGH	LOW	LOW	HIGH	LOW
Proposed Development (PD) / Development of Regional Impact (DRI)	acres	256	166	175	176	176	95	63	95	63	37	37
Estimated Costs												
Roadway Construction	2017 $	$211,200,000	$207,700,000	$200,200,000	$201,800,000	$201,600,000	$324,100,000	$331,500,000	$312,400,000	$319,800,000	$205,500,000	$214,100,000
Bridges Construction	2017 $	$122,100,000	$89,400,000	$88,600,000	$86,000,000	$90,900,000	$118,600,000	$118,600,000	$122,800,000	$122,800,000	$107,900,000	$102,100,000
Interchanges Construction	2017 $	$629,100,000	$652,200,000	$663,900,000	$640,800,000	$655,700,000	$303,500,000	$303,500,000	$304,700,000	$304,700,000	$262,100,000	$269,600,000
Toll Collection Equipment	2017 $	$2,600,000	$2,600,000	$2,600,000	$2,600,000	$2,600,000	$2,600,000	$2,600,000	$2,600,000	$2,600,000	$2,600,000	$2,600,000
Right-of-Way Areas (including proposed ponds)	2017 $	$398,300,000	$323,000,000	$338,400,000	$291,300,000	$297,400,000	$301,800,000	$208,400,000	$295,000,000	$212,400,000	$127,100,000	$121,500,000
Mitigation, Wetlands, & Wildlife	2017 $	$35,100,000	$41,000,000	$36,900,000	$35,900,000	$40,400,000	$24,900,000	$25,100,000	$24,300,000	$24,400,000	$28,800,000	$35,700,000
Total Estimated Alternative Costs		**$1,398,400,000**	**$1,315,900,000**	**$1,330,600,000**	**$1,258,400,000**	**$1,288,600,000**	**$1,075,500,000**	**$989,700,000**	**$1,061,800,000**	**$986,700,000**	**$734,000,000**	**$745,600,000**
Projected Traffic Revenue (2045)		**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**

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9.7 CFX FINANCIAL VIABILITY CRITERIA

¢ΚŜ ∃ŜyŶŜℕl·f 2ō?ŜŎΰλØŜ 2ŦΰΚλă ăΰdzŘè ǿl·ă ΰ2 LJℕ2ØλŘŜ Ř2ŎdzϒŜyΰŜŘ λy₮2ℕϒl·ΰλ2y˙yŜŎŜăăl·ℕè ₮2ℕ ΰΚŜ /Ŝyΰℕl·f Cf2ℕλŘl· 9ÈLJℕŜăăǿl·è !dzΰΚ2ℕλΰè ó/C·ú ΰ2 ℕŜl·ŎK l· ŘŜŎλăλ2y˙2y˙ΰΚŜ ØλI·ōλfλΰè 2Ŧ ΰΚŜ t2λyŎλI·yl· t l·ℕ⌡ǿl·è 9ÈΰŜyăλ2yΚLπn /2yŷŜŎΰ2ℕΦ

±λI·ōλfλΰè λă ŘŜŦλyŶŘ λy˙ΰΚŜ LyΰŜℕf2ŎI·f !∃ℕŜŜϒŜyΰ ōè l·yŘ l·ϒ2y∃ /C·Σ hăŎŜ2fI· /2dzyΰè l·yŘ ΰΚŜ hăŎŜ2fI· /2dzyΰè 9ÈLJℕŜăăǿl·è !dzΰΚ2ℕλΰè óh/·ú l·ă Ŧ2ffǿăϒ

> *""Viable" or "Viability" shall mean an OCX Segment or any portion thereof that is projected in writing by CFX's traffic and revenue consultant to generate toll revenues over a period of thirty years equal to at least fifty percent (50%) of the cost of such OCX Segment or applicable portion thereof…"*

Table 9-5 ădzϒϒl·ℕλÎŜă ΰΚŜ ØλI·ōλfλΰè 2Ŧ ΰΚŜ ØI·ℕλ2dză l·fΰŜℕyl·ΰλØŜă¢ t± ℕŜØŜyΰzŜă óŦℕ2Ϋ **Table 9-3**ú l·ℕŜ Ŏ2ϒLJI·ℕŜŘ ΰ2 ¢2ΰl·f /2ăΰă Ŧ2ℕ ŜI·ŎK l·fΰŜℕyl·ΰλØŜ óŦℕ2Ϋ **Tables 9-1 and 9-2**ú¢ !ă ŘŜăŎℕλōŜŘ λy˙{ŜŎΰλ2y˙ф¢p¢HΣ ΰΚŜ ℕŜØŜyΰzŜă Ŏl·y˙ℕl·yƎŜ ōŜΰǿŜŜy˙ϒλyΰză нл LJŜℕŎŜyΰ 2y˙ΰΚŜ f2ǿ ăλŘŜ ΰ2 LJfdză мл LJŜℕŎŜyΰ 2y˙ΰΚŜ ΚλƎK ăλŘŜ¢ ¢ΚŜăŜ LJŜℕŎŜyΰl·ƎŜă ΚI·ØŜ ōŜŜy˙I·LJLJfλŜŘ ΰ2 ΰΚŜ LJℕ2?ŜŎΰŜŘ ℕŜØŜyΰzŜă Ŧ2ℕ ΰǿ2 ΰ2ffλyƎ ăŎŜyl·ℕλ2ă óÞл¢мy LJŜℕ ϒλfŜ l·yŘ Þл¢но LJŜℕ ϒλfŜΰ¢ ¢ΚŜ LJℕ2?ŜŎΰŜŘ t± ℕŜØŜyΰzŜă ǿŜℕŜ ŘλØλŘŜŘ ōè ΰΚŜ ΰ2ΰl·f LJℕ2?ŜŎΰ Ŏ2ăΰ ΰ2 ŘŜΰŜℕϒλyŜ ΰΚŜ LJŜℕŎŜyΰl·ƎŜ Ŧ2ℕ l·ăăŜăăλyƎ ØλI·ōλfλΰè¢ !fΰŜℕyl·ΰλØŜă o!πo l·yŘ o!πp ΚI·ØŜ ℕŜØŜyΰzŜ LJŜℕŎŜyΰl·ƎŜă Ŝljdzl·f ΰ2 l·ΰ fŜI·ăΰ ŦλŦΰè LJŜℕŎŜyΰ óp£ĵ̂ ΰ 2Ŧ ΰΚŜ Ŏ2ăΰ 2Ŧ ΰΚŜ LJℕ2?ŜŎΰ Ŧ2ℕ l·ΰ fŜI·ăΰ 2yŜ ΰ2ffλyƎ ăŎŜyl·ℕλ2Σ ℕŜLJℕŜăŜyΰλyƎ l· ØλI·ōfŜ LJℕ2?ŜŎΰ¢ !fΰŜℕyl·ΰλØŜă н!πl·yŘ н!πp ΚI·ØŜ ℕŜØŜyΰzŜ LJŜℕŎŜyΰl·ƎŜă ?dzăΰ ōŜf2ǿ ŦλŦΰè LJŜℕŎŜyΰ óp£ĵ̂ ΰ 2Ŧ ΰΚŜ Ŏ2ăΰ 2Ŧ ΰΚŜ LJℕ2?ŜŎΰ Ŧ2ℕ l·ΰ fŜI·ăΰ 2yŜ ΰ2ffλyƎ ăŎŜyl·ℕλ2¢ C2ℕ tΚI·ăŜ м Ŏ2yŘλΰλ2yă óŜĖΰŜyŘλyƎ t2λyŎλI·yl· t l·ℕ⌡ǿl·è ΰ2 /¢w¢ ронύΣ !fΰŜℕyl·ΰλØŜă н!πΣ l·yŘ н!πp ΚI·ØŜ ℕŜØŜyΰzŜ LJŜℕŎŜyΰl·ƎŜă ?dzăΰ ōŜf2ǿ ŦλŦΰè LJŜℕŎŜyΰ óp£ĵ̂ ΰ 2Ŧ ΰΚŜ Ŏ2ăΰ 2Ŧ ΰΚŜ LJℕ2?ŜŎΰ Ŧ2ℕ l·ΰ fŜI·ăΰ 2yŜ ΰ2ffλyƎ ăŎŜyl·ℕλ2¢

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Table 9-5: t№2?ŜŎúŜŘ ¢2ff wŜØŜyʠzŜă l·ă t Ŝ№ŎŜyʠúl·∃Ŝ 2Ŧ ¢2ű l·f /2ăű

Alternative	Total Cost	Project at $0.18/mile plus Poinciana Parkway at $2.00	Project at $0.23/mile plus Poinciana Parkway at $2.00	Range on Low Side	Range on High Side	Project at $0.18/mile plus Poinciana Parkway at $2.00		Project at $0.18/mile plus Poinciana Parkway at $2.00		Project at $0.23/mile plus Poinciana Parkway at $2.00		Project at $0.23/mile plus Poinciana Parkway at $2.00	
						Projected Low Revenue	Percent of Total Cost	Projected High Revenue	Percent of Total Cost	Projected Low Revenue	Percent of Total Cost	Projected High Revenue	Percent of Total Cost
н ! πм	Рм£офу£пллл£ллл	Рпол£ллл£ллл	Рпул£ллл£ллл	πнұ	мұ	Ропл£ллл£ллл	нұ	Рптл£ллл£ллл	оұ	Роул£ллл£ллл	нұ	Рпол£ллл£ллл	оұ
н ! πн	Рм£омр£фллл£ллл	Рпмл£ллл£ллл	Рпсл£ллл£ллл	πнұ	мұ	Роол£ллл£ллл	нр	Рпрл£ллл£ллл	оұ	Ротл£ллл£ллл	ну	Рпмл£ллл£ллл	оф
н ! πо	Рм£оол£сллл£ллл	Рпмл£ллл£ллл	Рпсл£ллл£ллл	πнұ	мұ	Роол£ллл£ллл	нр	Рпрл£ллл£ллл	оұ	Ротл£ллл£ллл	ну	Рпмл£ллл£ллл	оу
н ! πп	Рм£нру£пллл£ллл	Рпул£ллл£ллл	Рппл£ллл£ллл	πнұ	мұ	Роул£ллл£ллл	оұ	Рпол£ллл£ллл	пұ	Рпол£ллл£ллл	оұ	Рпфл£ллл£ллл	пэ
н ! πр	Рм£нуу£сллл£ллл	Рпул£ллл£ллл	Рппл£ллл£ллл	πнұ	мұ	Роул£ллл£ллл	нф	Рпол£ллл£ллл	пм	Рпол£ллл£ллл	оє	Рпфл£ллл£ллл	пє
опнb	Рм£лтр£рлл£ллл	Ропл£ллл£ллл	Ротл£ллл£ллл	πнұ	мұ	Рнтл£ллл£ллл	нр	Ротл£ллл£ллл	оұ	Ролл£ллл£ллл	ну	Рпмл£ллл£ллл	оу
опн{	Рфуф£тлл£ллл	Ропл£ллл£ллл	Ротл£ллл£ллл	πнұ	мұ	Рнтл£ллл£ллл	нэ	Ротл£ллл£ллл	оэ	Ролл£ллл£ллл	оұ	Рпмл£ллл£ллл	пм
опрb	Рм£лсм£улл£ллл	Ропл£ллл£ллл	Ротл£ллл£ллл	πнұ	мұ	Рнтл£ллл£ллл	нр	Ротл£ллл£ллл	ор	Ролл£ллл£ллл	ну	Рпмл£ллл£ллл	оф
опр{	Рфус£тлл£ллл	Ропл£ллл£ллл	Ротл£ллл£ллл	πнұ	мұ	Рнтл£ллл£ллл	нэ	Ротл£ллл£ллл	оэ	Ролл£ллл£ллл	оұ	Рпмл£ллл£ллл	пұ
о ! πо	Ртоп£ллл£ллл	Рон£ллл£ллл	Рорл£ллл£ллл	πнұ	мұ	Рнсл£ллл£ллл	ор	Рорл£ллл£ллл	пу	Рнул£ллл£ллл	оу	Рофл£ллл£ллл	ро
о ! πр	Ртпр£сллл£ллл	Рон£ллл£ллл	Рорл£ллл£ллл	πнұ	мұ	Рнсл£ллл£ллл	ор	Рорл£ллл£ллл	пэ	Рнул£ллл£ллл	оу	Рофл£ллл£ллл	рұ
н ! πм tKl·ăŜ м	Ррт ф£млл£ллл	Рнлл£ллл£ллл	Рннл£ллл£ллл	πнұ	мұ	Рмсл£ллл£ллл	ну	Рннл£ллл£ллл	оу	Рмул£ллл£ллл	оф	Рнпл£ллл£ллл	пм
н ! πн tKl·ăŜ м	Ррму£флл£ллл	Рнлл£ллл£ллл	Рннл£ллл£ллл	πнұ	мұ	Рмсл£ллл£ллл	оф	Рннл£ллл£ллл	пұ	Рмул£ллл£ллл	ор	Рнпл£ллл£ллл	пє
н ! πо tKl·ăŜ м	Ррнн£тлл£ллл	Рнлл£ллл£ллл	Рннл£ллл£ллл	πнұ	мұ	Рмсл£ллл£ллл	оф	Рннл£ллл£ллл	пұ	Рмул£ллл£ллл	оұ	Рнпл£ллл£ллл	пє
н ! πп tKl·ăŜ м	Рруф£олл£ллл	Рнлл£ллл£ллл	Рннл£ллл£ллл	πнұ	мұ	Рмсл£ллл£ллл	оє	Рннл£ллл£ллл	пр	Рмул£ллл£ллл	оэ	Рнпл£ллл£ллл	пф
н ! πр tKl·ăŜ м	Ррмп£олл£ллл	Рнлл£ллл£ллл	Рннл£ллл£ллл	πнұ	мұ	Рмсл£ллл£ллл	оф	Рннл£ллл£ллл	пє	Рмул£ллл£ллл	ор	Рнпл£ллл£ллл	пэ

Note: ¢2ű l·f /2ăű Ŧ2№ tKl·ăŜ м l·fűŜ№yl·úʎØŜă ʎyŎfʠzŘŜă Рт л а Ŧ2№ ŜÈʎăűʎyЭ t2ʎyŎʎl·yl· t l·№ļøl·è

REFERENCE COPY

9.8 FINDINGS OF THE CONCEPT, FEASIBILITY, AND MOBILITY STUDY

Based on the findings from this study, and the results of the viability determination, various alternatives achieve greater than 50 percent of their cost while other alternatives approach 50 percent of their cost. Therefore, the project is determined to be financially feasible and viable.

REFERENCE COPY

APPENDIX A

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{ŜƎYˇŜyű п

REFERENCE COPY

COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
STRUCTURE PLANS (NOT INCLUDED)
TOLL GANTRY PLANS (NOT INCLUDED)

A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

OSCEOLA COUNTY EXPRESSWAY AUTHORITY

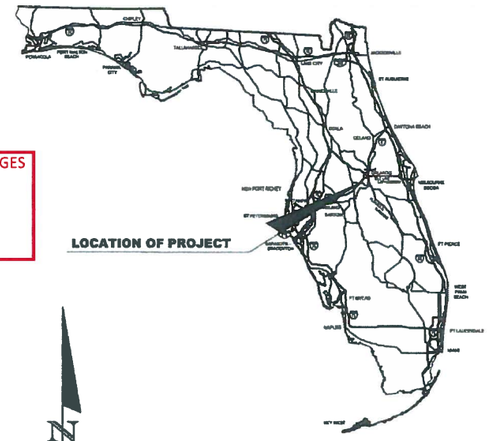
FINAL "AS-BUILT" PLANS

POINCIANA PARKWAY DESIGN BUILD SEGMENT 3

THIS PROJECT WAS CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THESE PLANS AS APPROVED BY THE ENGINEER OF RECORD. IF CHANGES WERE MADE, THOSE CHANGES ARE INDICATED BY RED INK AND BEAR THE SEAL, SIGNATURE AND DATE OF THE RESPONSIBLE ENGINEER.

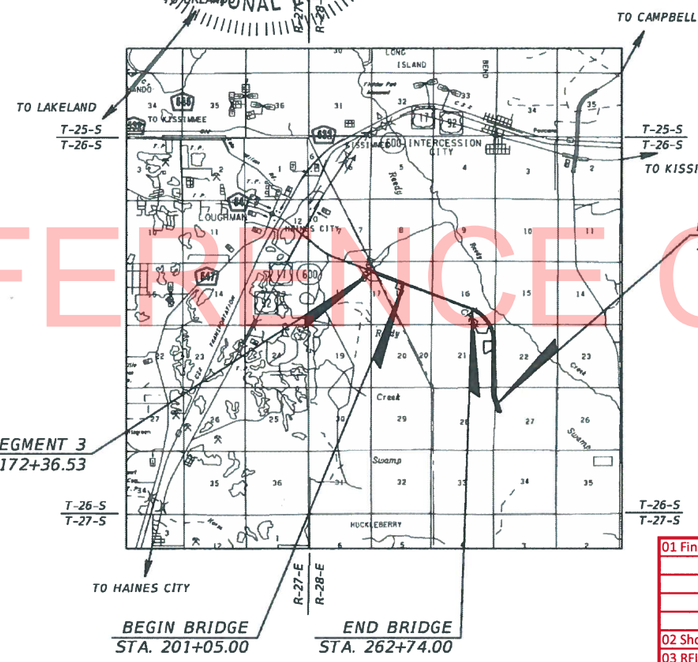
RESPONSIBLE ENGINEER — DATE: 12/22/16

TERRY MUSE — LICENSE No. 54360 — STATE OF FLORIDA — PROFESSIONAL ENGINEER



INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION	
1	KEY SHEET	
2-7	DRAINAGE MAPS	
5 8-11, 11A	TYPICAL SECTION	
12-15	SUMMARY OF DRAINAGE STRUCTURES	
16	OPTIONAL MATERIALS TABULATIONS	
17	GENERAL NOTES	
18-33	ROADWAY PLAN/PROFILE	
34-44	DRAINAGE STRUCTURE CROSS SECTIONS	
45	DRAINAGE DETAILS	
46-49	POND DETAIL SHEETS	
50	SOIL SURVEY	
51-196	CROSS SECTIONS	
~~197~~	~~TRAFFIC CONTROL PLAN~~	NOT INCLUDED



NAME OF PRIME CONTRACTOR:	JR. DAVIS CONSTRUCTION
NAME OF PRIME CONSULTANT:	DEWBERRY
NAME OF CEI CONSULTANT:	AECOM
DISTRICT SECRETARY:	NORANNE DOWNS
RESIDENT ENGINEER:	TERRY MUSE, P.E.
OCX PROJECT MANAGER:	FRANK RAYMOND
PROJECT ADMINISTRATOR:	JAMES FITZER
DATE WORK STARTED:	12/19/2013
DATE WORK FINAL ACCEPTED:	12/22/2016

REFERENCE COPY

GOVERNING STANDARDS AND SPECIFICATIONS:

Florida Department of Transportation, 2013 Design Standards and revised Index Drawings as appended herein, and 2013 Standard Specifications for Road and Bridge Construction, as amended by Contract Documents.

For Design Standards click on the "Design Standards" link at the following web site:
http://www.dot.state.fl.us/rddesign/

For the Standard Specifications for Road and Bridge Construction click on the "Specifications" link at the following web site:
http://www.dot.state.fl.us/specificationsoffice/

REVISIONS

REVISED SHEETS 18 & 34 DATE 12-5-14 (1)
ADDED SHEET 34A DATE 12-5-14
REVISED SHEET 8,18,19,24-31 DATE 2-4-15 (2)
REVISED SHEET 1,8,29-31,174-176 DATE 4-17-15 (3)
DELETED SHEETS 32,33,44,177-196 DATE 4-17-15
REVISED SHEET 19 DATE 7-20-15 (4)
REVISED SHEETS 11A, 18-20, 24-31, 46-47 DATE 9-3-15 (5)
REVISED SHEET S-1, S-3, S-13 THRU S-15, S-19, S-22, S-23 DATE 2-8-16 (6)
DELETED SHEETS S-16 THRU S-18, S-20, S-21 DATE 2-8-16
ADDED SHEETS S-15A THRU S-15D, S-17A, S-18A, S-20A, S-20B, S-20C DATE 2-8-16

LENGTH OF PROJECT

	LINEAR FEET	MILES
ROADWAY	12,244.47	2.319
BRIDGES	6,169.00	1.168
NET LENGTH OF PROJECT	18,413.47	3.487
EXCEPTIONS	0.000	0.000
GROSS LENGTH OF PROJECT	18,413.47	3.487

01 Final As-Built Contract Plans
01 Final As-Built Plan Sets
02 Drainage As-Builts (SFWMD)
03 As-Built Surveys
04 Bridge Load Ratings
02 Shop Drawings
03 RFI
04 ITS
05 Toll Gantry

KEY SHEET REVISIONS

DATE	DESCRIPTION
4-17-15	REMOVED EARLY TOLLING (3)
9-3-15	REVISED INDEX (5)

(3)

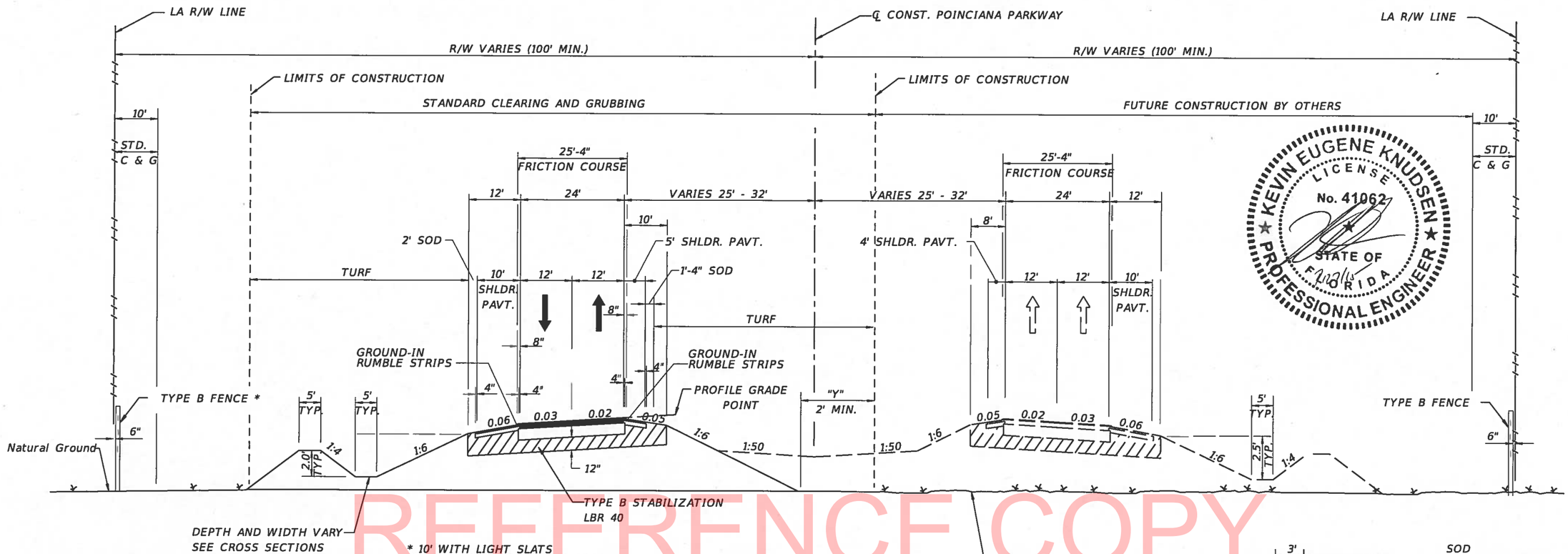
PLANS PREPARED BY:
DEWBERRY | BOWYER-SINGLETON
520 SOUTH MAGNOLIA AVENUE
ORLANDO, FLORIDA 32801
407-843-5120
CERTIFICATE OF AUTHORIZATION NO. 8794
VENDOR NUMBER F130746510001
CONTRACT NO. 13-001

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

KEVIN EUGENE KNUDSEN — LICENSE No. 41062 — 2-10-16 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

ROADWAY PLANS
ENGINEER OF RECORD: KEVIN E. KNUDSEN, P.E.
P.E. NO.: 41062

FISCAL YEAR	SHEET NO.
14	1



REFERENCE COPY

TRAFFIC DATA

CURRENT YEAR = 2013 AADT = N/A
ESTIMATED OPENING YEAR = 2015 AADT = 8,300
ESTIMATED DESIGN YEAR = 2035 AADT = 27,700
K = N/A% D = N/A% T = 3 % (24 HOUR)

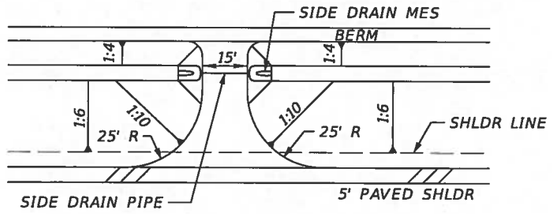
DESIGN SPEED = 70 MPH

NOTE:
FOR SUPER ELEVATED SECTIONS GREATER THAN 5% THE FULL HIGH SIDE SHOULDER CROSS SLOPES SHALL SLOPE THE SAME DIRECTION.

PAVEMENT DESIGN MAINLINE AND SHOULDERS
STA 331+50.00 TO STA 332+50.00

OPTIONAL BASE GROUP 11(7" TYPE B 12.5) WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (4" (TOP LIFT PG76-22))
AND FRICTION COURSE FC-12.5 (1 1/2")

3



TYPICAL ACCESS DETAIL 'A'

SEE PLAN SHEETS FOR LOCATIONS AND PIPE SIZES
SEE SUMMARY OF DRAINAGE STRUCTURES FOR DETAILS

TYPICAL SECTION
POINCIANA PARKWAY
STA 172+36.53 TO STA 201+05.00
STA 262+74.00 TO STA 356+50.00

NEW CONSTRUCTION

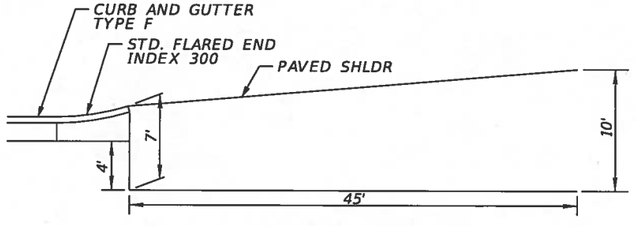
10" OF LIMEROCK ~~OPTIONAL BASE GROUP 9~~ WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2 1/2")
AND FRICTION COURSE FC-5 (3/4")

2

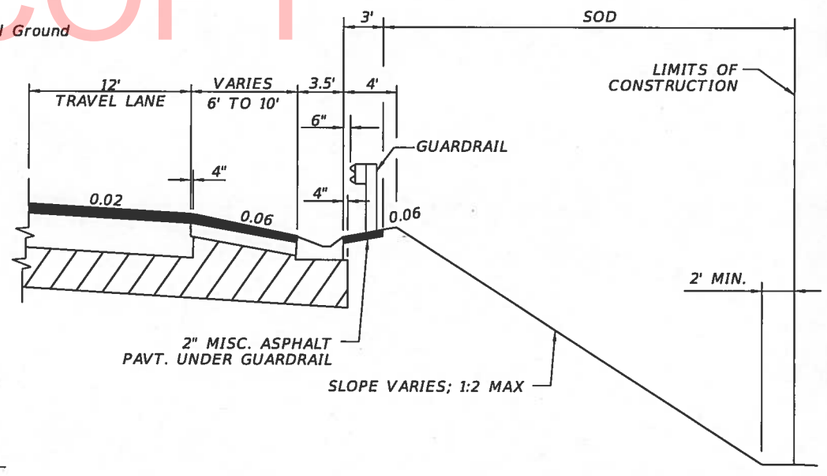
SHOULDER PAVEMENT

4" OF LIMEROCK ~~OPTIONAL BASE GROUP 1~~ WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1-1/2")

2



CURB TO SHOULDER PAVEMENT DETAIL



SHOULDER PAVEMENT & SHOULDER GUTTER DETAIL

SEGMENT 3

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
2-4-14	ADDED DETAIL AND REVISED PAVEMENT DESIGN 2		
4-22-14	ADDED PAVEMENT DESIGN 3		

KEVIN E. KNUDSEN, P.E.
P.E. LICENSE NUMBER 41062
DEWBERRY | BOWYER-SINGLETON
520 SOUTH MAGNOLIA AVENUE
ORLANDO, FL 32801
CERTIFICATE OF AUTHORIZATION 8794

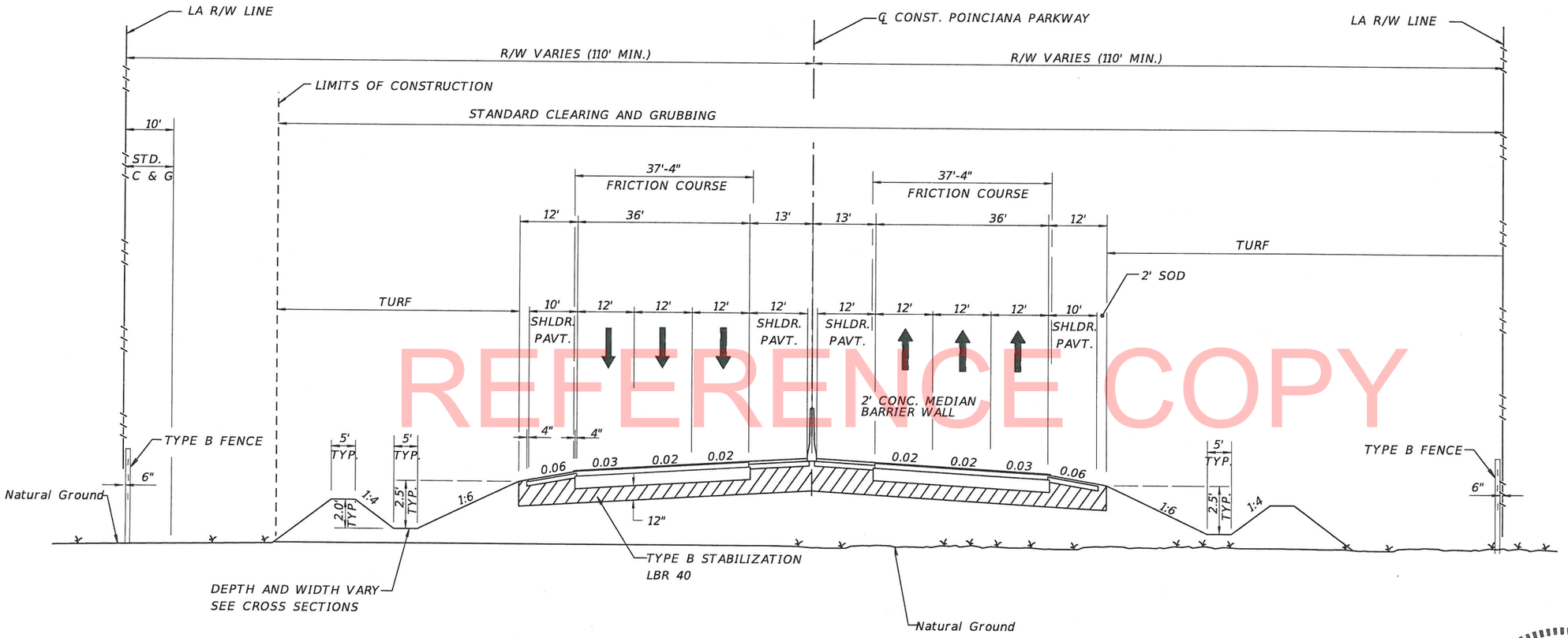
OSCEOLA COUNTY EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	OSCEOLA	

TYPICAL SECTION
POINCIANA PARKWAY

SHEET NO. 8

$USER$ $DATE$ $TIME$ $FILE$



FUTURE 6 LANE TYPICAL SECTION
POINCIANA PARKWAY

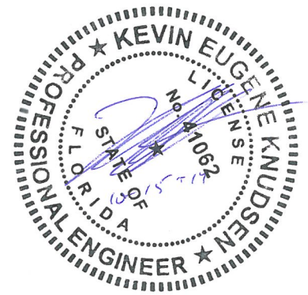
INFORMATION ONLY

REFERENCE COPY

TRAFFIC DATA

CURRENT YEAR = 2013 AADT = N/A
ESTIMATED OPENING YEAR = 2015 AADT = 8,300
ESTIMATED DESIGN YEAR = 2035 AADT = 27,700
K = N/A% D = N/A% T = 3 % (24 HOUR)

DESIGN SPEED = 70 MPH



SEGMENT 3

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

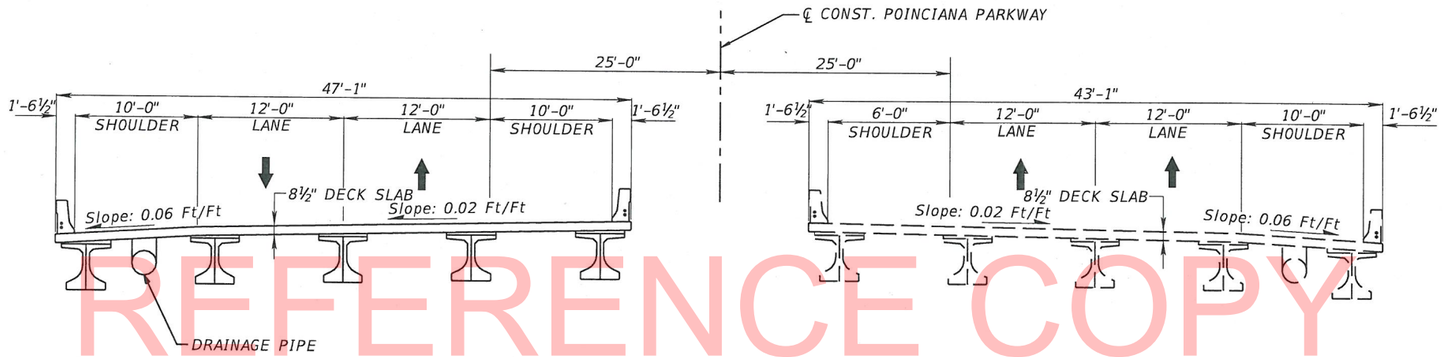
KEVIN E. KNUDSEN, P.E.
P.E. LICENSE NUMBER 41062
DEWBERRY | BOWYER-SINGLETON
520 SOUTH MAGNOLIA AVENUE
ORLANDO, FL 32801
CERTIFICATE OF AUTHORIZATION 8794

OSCEOLA COUNTY EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	OSCEOLA	

TYPICAL SECTION
POINCIANA PARKWAY

SHEET NO. 10



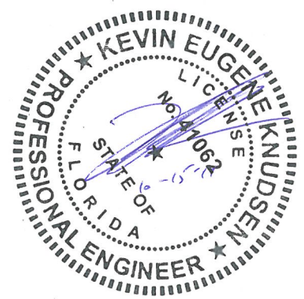
REFERENCE COPY

BRIDGE TYPICAL SECTION
POINCIANA PARKWAY
STA 201+05.00 TO STA 262+74.00

TRAFFIC DATA

CURRENT YEAR = 2013 AADT = N/A
ESTIMATED OPENING YEAR = 2015 AADT = 8,300
ESTIMATED DESIGN YEAR = 2035 AADT = 27,700
K = N/A% D = N/A% T = 3 % (24 HOUR)

DESIGN SPEED = 70 MPH



SEGMENT 3

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KEVIN E. KNUDSEN, P.E.
P.E. LICENSE NUMBER 41062
DEWBERRY | BOWYER-SINGLETON
520 SOUTH MAGNOLIA AVENUE
ORLANDO, FL 32801
CERTIFICATE OF AUTHORIZATION 8794

OSCEOLA COUNTY EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	OSCEOLA	

TYPICAL SECTION
POINCIANA PARKWAY

SHEET NO. 11

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COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS

A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2-6	DRAINAGE MAPS
7	FLOOD DATA
8-14	TYPICAL SECTION
15-19	SUMMARY OF DRAINAGE STRUCTURES
20	OPTIONAL MATERIALS TABULATION
21	GENERAL NOTES
22-36	ROADWAY PLAN/PROFILE
37-46	RAMP PROFILES
47-52	SIDE STREET PLANS\PROFILES
53-57	INTERSECTION DETAILS
58-61	RAMP TERMINAL DETAILS
62-93	DRAINAGE STRUCTURES
94	BOX CULVERT DATA TABLE
95-97	BOX CULVERT SPT BORINGS
98-103	BOX CULVERT REINFORCING BAR LIST
104-106	DRAINAGE DETAILS
107-111	POND DETAILS
112-115	ROADWAY SOIL SURVEY SHEET
116-298	CROSS SECTIONS
299-312	UTILITY ADJUSTMENT PLANS
~~313-313~~	~~TRAFFIC CONTROL PLANS~~ NOT INCLUDED

01 Final As-Built Contract Plans
01 Final As-Built Plan Sets
02 Drainage As-Builts (SFWMD)
03 As-Built Surveys
04 Bridge Load Ratings
02 Shop Drawings
03 RFI
04 ITS
05 Toll Gantry

GOVERNING STANDARDS AND SPECIFICATIONS:

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For the Standard Specifications for Road and Bridge Construction click on the "Specifications" link at the following web site:
http://www.dot.state.fl.us/specificationsoffice/

REVISIONS

1. SHEETS MODIFIED 1, 8, 15, 19, 22-25, 27, 47-49, ADDED 48A, 62, ADDED 63A & 63B, 64, 73, 91, 107, 116-145, 263-275
2. SHEETS MODIFIED 23-25, 27-29, 31-36, 48A, 50-52, 106-111 (REVISED 10-15-15)
3. SHEETS MODIFIED 2, 5-6, 8, 10, 12, 19, 22-24, 47-49, 52-53, 91, 93, 106, 253-279, S-23 - S-26 (REVISED 12-21-15)
4. SHEETS MODIFIED S-1, S-10, S-11, S-16 THRU S-19, S-24, S-26, S-28, S-33, S-40 THRU S-42 (REVISED 2-8-16)
   SHEETS DELETED S-20, S-21, S-30, S-31, S-32
5. SHEETS ADDED 314A-314D

OSCEOLA COUNTY EXPRESSWAY AUTHORITY

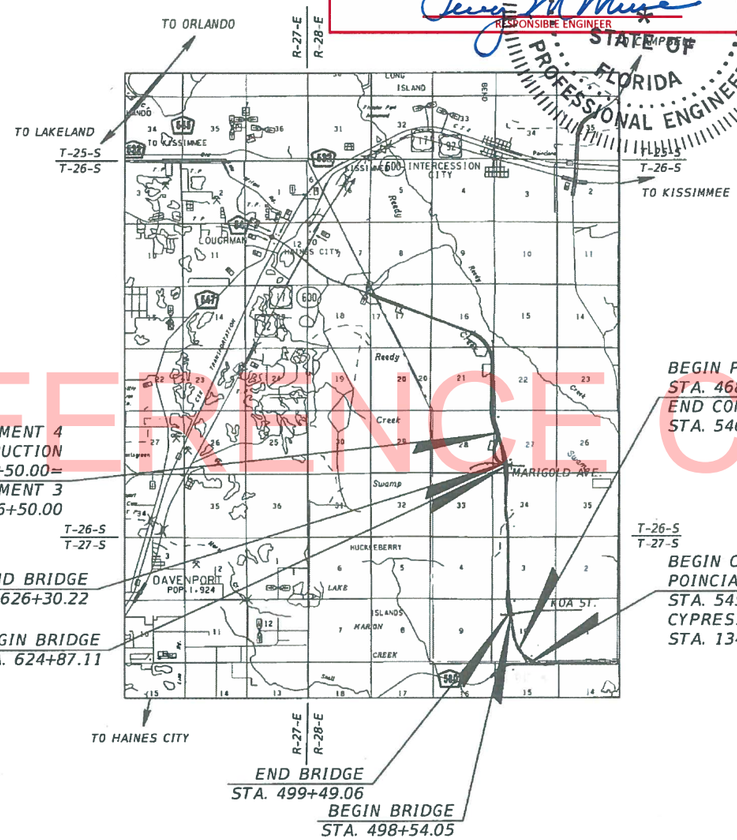
FINAL "AS-BUILT" PLANS

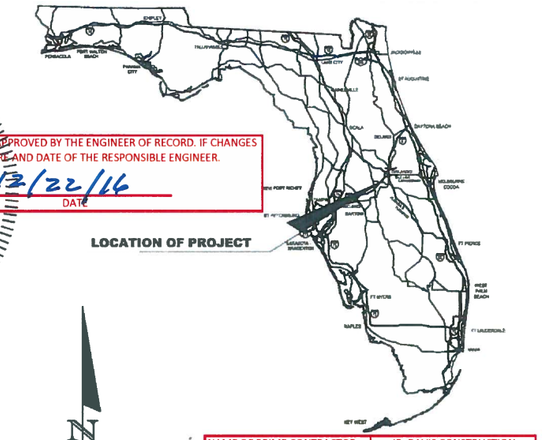
POINCIANA PARKWAY DESIGN/BUILD SEGMENT 4

THIS PROJECT WAS CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THESE PLANS AS APPROVED BY THE ENGINEER OF RECORD. IF CHANGES WERE MADE, THOSE CHANGES ARE INDICATED BY REDLINE AND BEAR THE SEAL, SIGNATURE AND DATE OF THE RESPONSIBLE ENGINEER.

RESPONSIBLE ENGINEER — DATE 12/22/16

TERRY MUSE LICENSE No. 54360 STATE OF FLORIDA PROFESSIONAL ENGINEER





NAME OF PRIME CONTRACTOR:	JR. DAVIS CONSTRUCTION
NAME OF PRIME CONSULTANT:	DEWBERRY
NAME OF CEI CONSULTANT:	AECOM
DISTRICT SECRETARY:	NORANNE DOWNS
RESIDENT ENGINEER:	TERRY MUSE, P.E.
OCX PROJECT MANAGER:	FRANK RAYMOND
PROJECT ADMINISTRATOR:	JAMES FITZER
DATE WORK STARTED:	12/19/2013
DATE WORK FINAL ACCEPTED:	12/22/2016

BEGIN PROJECT SEGMENT 4
STA. 468+74.85=
END CONSTRUCTION POINCIANA SPUR
STA. 5468+74.85

END PROJECT SEGMENT 4
END CONSTRUCTION
STA. 653+50.00=
PROJECT SEGMENT 3
STA. 356+50.00

END BRIDGE
STA. 626+30.22

BEGIN BRIDGE
STA. 624+87.11

END BRIDGE
STA. 499+49.06

BEGIN BRIDGE
STA. 498+54.05

BEGIN CONSTRUCTION
POINCIANA PARKWAY SPUR
STA. 5453+69.79
CYPRESS PARKWAY
STA. 134+40.00

PLANS PREPARED BY:

DEWBERRY | BOWYER-SINGLETON
520 SOUTH MAGNOLIA AVENUE
ORLANDO, FLORIDA 32801
407-843-5120
CERTIFICATE OF AUTHORIZATION NO. 8794
VENDOR NUMBER F130746510001
CONTRACT NO. 13-001

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

KEVIN EUGENE KNUDSEN LICENSE No. 41062 STATE OF FLORIDA PROFESSIONAL ENGINEER 4/9/16

REVISION 5
April 12, 2016

ROADWAY PLANS
ENGINEER OF RECORD: KEVIN E. KNUDSEN, P.E.

P.E. NO.: 41062

FISCAL YEAR	SHEET NO.
14	1

LENGTH OF PROJECT

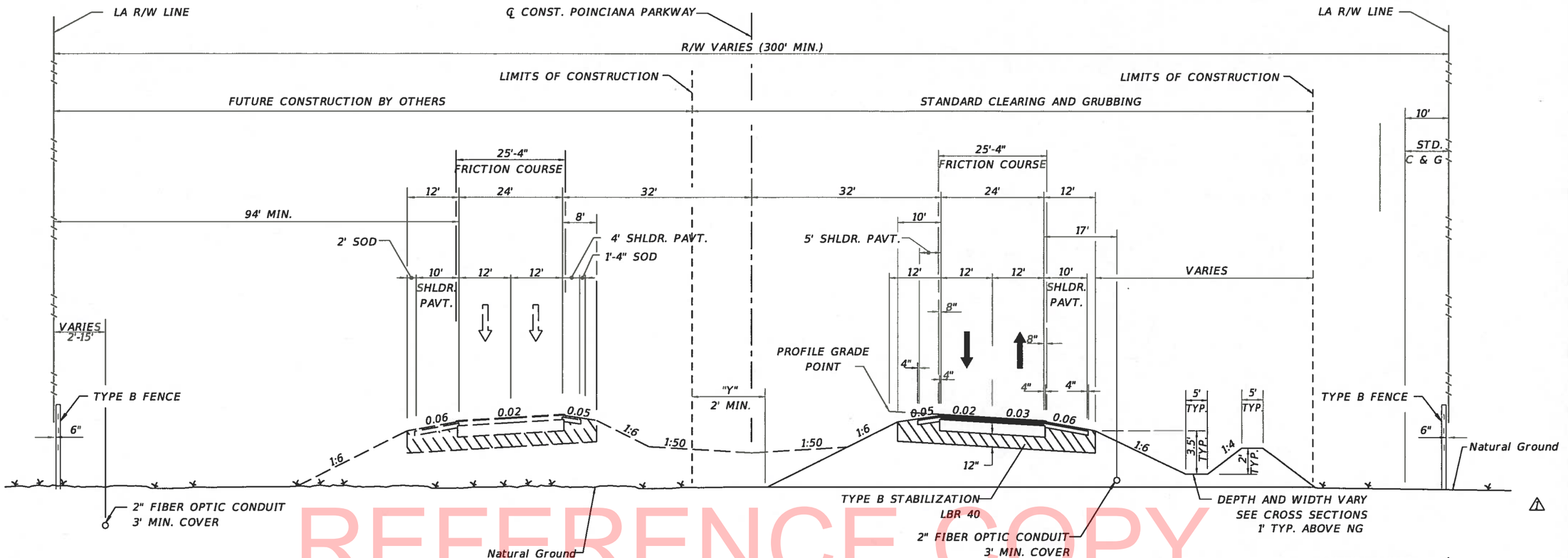
	LINEAR FEET	MILES
ROADWAY	18,237.03	3.454
BRIDGES	238.12	0.045
NET LENGTH OF PROJECT	18,475.15	3.499
EXCEPTIONS	0.000	0.000
GROSS LENGTH OF PROJECT	18,475.15	3.499

KEY SHEET REVISIONS

DATE	DESCRIPTION

REFERENCE COPY

dfalk 4/11/2016 3:57:02 PM S:\50062305_Poinciana_Parkway\Design\roadway\KEYSRD04.dgn

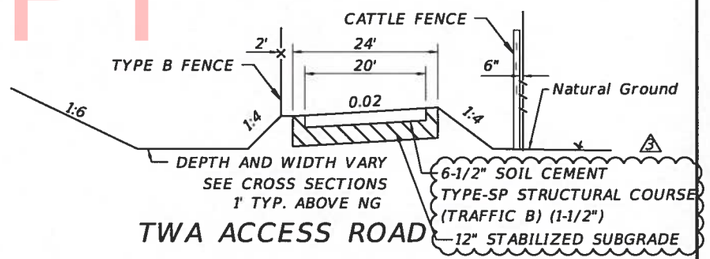


REFERENCE COPY

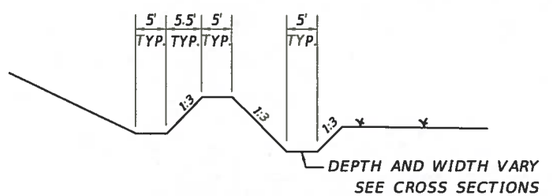
PAVEMENT DESIGN MAINLINE AND SHOULDERS
STA 544+50.00 TO STA 545+50.00

OPTIONAL BASE GROUP 11(7" TYPE B 12.5) WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (4" (TOP LIFT PG 76-22))
AND FRICTION COURSE FC-12.5 (1 1/2") (PG 76-22)

TYPICAL SECTION
POINCIANA PARKWAY
STA. 468+74.85 TO STA. 653+50.00



TWA ACCESS ROAD



BYPASS DITCH RIGHT
STA. 465+00.00 TO STA. 498+50.00
BYPASS DITCH LEFT
STA. 5465+80.00 TO STA. 483+80.00
CANAL N
STA. 581+00.00 TO STA. 596+70.00

KEVIN EUGENE KNUDSEN
LICENSE
No. 41062
STATE OF FLORIDA
PROFESSIONAL ENGINEER
2/11/16

TRAFFIC DATA

CURRENT YEAR = 2013 AADT = N/A
ESTIMATED OPENING YEAR = 2015 AADT = 8,300
ESTIMATED DESIGN YEAR = 2035 AADT = 27,700
K = N/A% D = N/A% T = 3 % (24 HOUR)

DESIGN SPEED = 70 MPH
CLEARZONE = 36'

NEW CONSTRUCTION

10" OF LIMEROCK ~~OPTIONAL BASE GROUP 9~~ WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2 1/2")
AND FRICTION COURSE FC-5 (3/4")

SHOULDER PAVEMENT DESIGN

4" OF LIMEROCK ~~OPTIONAL BASE GROUP 1~~ WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1-1/2")

SEGMENT 4

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
10-2-15	1 ADDED ACCESS RD. & MODIFIED DITCHES		
12-21-15	2 REVISED ACCESS ROAD PAVT. DESIGN		

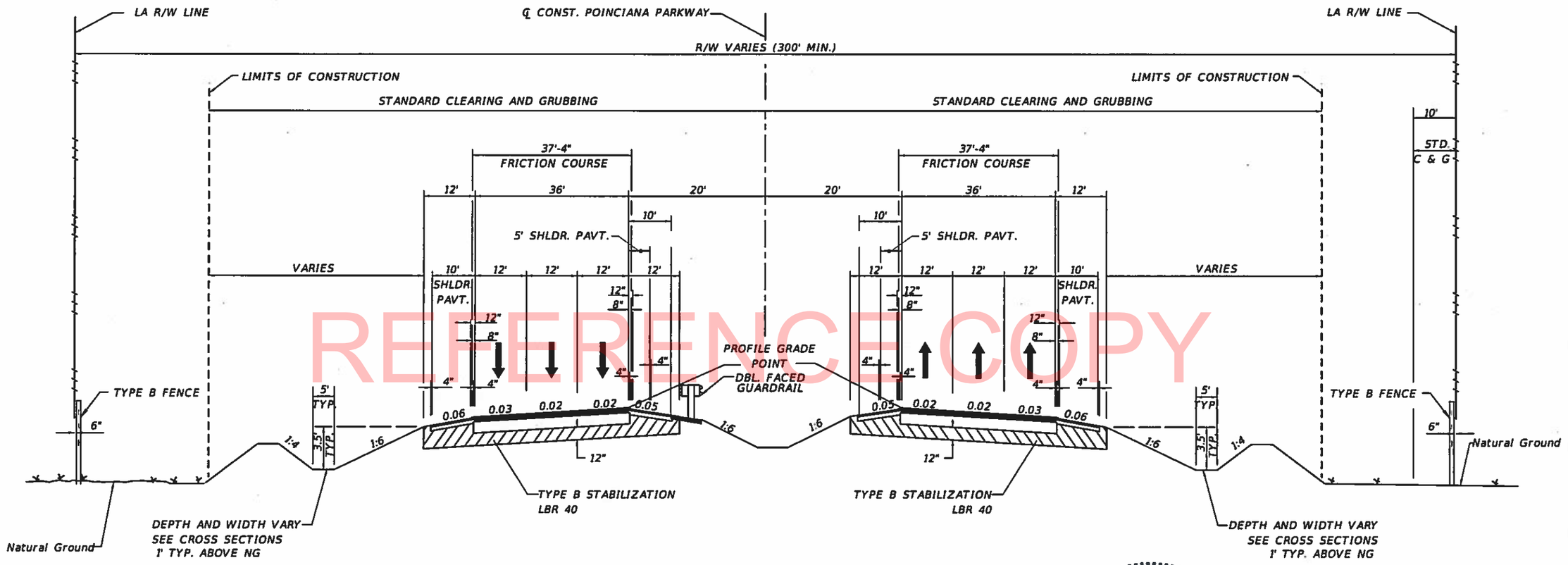
KEVIN E. KNUDSEN, P.E.
P.E. LICENSE NUMBER 41062
DEWBERRY | BOWYER-SINGLETON
520 SOUTH MAGNOLIA AVENUE
ORLANDO, FL 32801
CERTIFICATE OF AUTHORIZATION 8794

OSCEOLA COUNTY EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	OSCEOLA	

TYPICAL SECTION
POINCIANA PARKWAY

SHEET NO. 8



REFERENCE COPY

FUTURE 6 LANE TYPICAL SECTION
POINCIANA PARKWAY

INFORMATION ONLY

TRAFFIC DATA

CURRENT YEAR = 2013 AADT = N/A
ESTIMATED OPENING YEAR = 2015 AADT = 8,300
ESTIMATED DESIGN YEAR = 2035 AADT = 27,700
K = N/A% D = N/A% T = 3 % (24 HOUR)

DESIGN SPEED = 70 MPH
CLEARZONE = 36'

KEVIN EUGENE KNUDSEN ★ LICENSED ★ No. 41062 ★ STATE OF FLORIDA ★ PROFESSIONAL ENGINEER ★

SEGMENT 4

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KEVIN E. KNUDSEN, P.E.
P.E. LICENSE NUMBER 41062
DEWBERRY | BOWYER-SINGLETON
520 SOUTH MAGNOLIA AVENUE
ORLANDO, FL 32801
CERTIFICATE OF AUTHORIZATION 8794

OSCEOLA COUNTY EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	OSCEOLA	

TYPICAL SECTION POINCIANA PARKWAY

SHEET NO. 9

psaind 4/27/2015 10:40:47 AM S:\50062305_Poinciana_Parkway\Design\roadway\typsrd04.dgn

APPENDIX B

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REFERENCE COPY

1018 Thomasville Road
Suite 200-C
Tallahassee, FL 32303
850-224-8207
850-681-9364 fax
www.fnai.org

Florida Natural Areas Inventory

Biodiversity Matrix Query Results

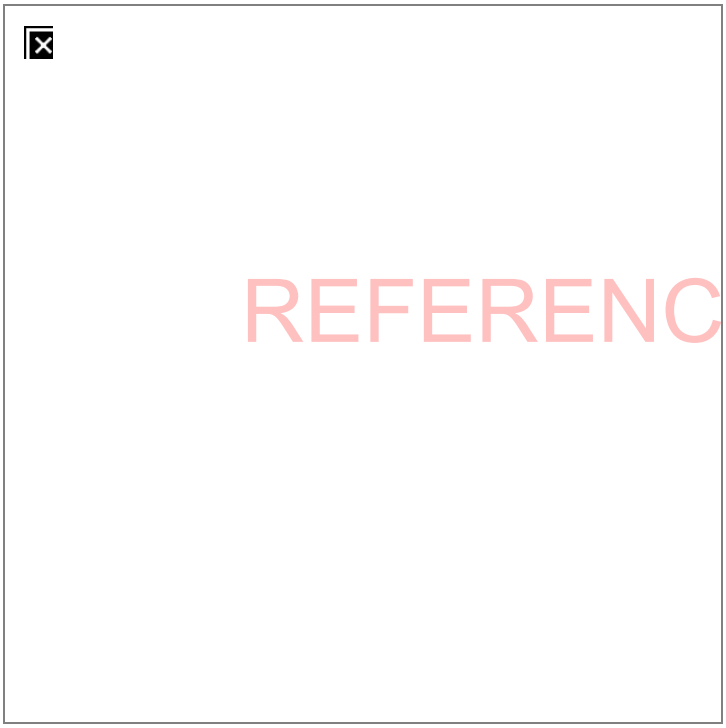
UNOFFICIAL REPORT

Created 8/17/2017

(Contact the FNAI Data Services Coordinator at 850.224.8207 for information on an official Standard Data Report)

NOTE: The Biodiversity Matrix includes only rare species and natural communities tracked by FNAI.

Report for 10 Matrix Units: 40680 , 41049 , 41050 , 41051 , 41052 , 41419 , 41420 , 41421 , 41422 , 41423



REFERENCE COPY

Descriptions

DOCUMENTED - There is a documented occurrence in the FNAI database of the species or community within this Matrix Unit.

DOCUMENTED-HISTORIC - There is a documented occurrence in the FNAI database of the species or community within this Matrix Unit; however the occurrence has not been observed/reported within the last twenty years.

LIKELY - The species or community is *known* to occur in this vicinity, and is considered likely within this Matrix Unit because:

1. documented occurrence overlaps this and adjacent Matrix Units, but the documentation isn't precise enough to indicate which of those Units the species or community is actually located in; *or*
2. there is a documented occurrence in the vicinity and there is suitable habitat for that species or community within this Matrix Unit.

POTENTIAL - This Matrix Unit lies within the known or predicted range of the species or community based on expert knowledge and environmental variables such as climate, soils, topography, and landcover.

Matrix Unit ID: 40680

0 **Documented** Elements Found

0 **Documented-Historic** Elements Found

1 **Likely** Element Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
Mesic flatwoods	G4	S4	N	N

Matrix Unit ID: 41049
0 **Documented** Elements Found

0 **Documented-Historic** Elements Found

1 **Likely** Element Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
Mesic flatwoods	G4	S4	N	N

Matrix Unit ID: 41050
0 **Documented** Elements Found

0 **Documented-Historic** Elements Found

1 **Likely** Element Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
Mesic flatwoods	G4	S4	N	N

Matrix Unit ID: 41051
0 **Documented** Elements Found

REFERENCE COPY

0 **Documented-Historic** Elements Found

1 **Likely** Element Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
Mesic flatwoods	G4	S4	N	N

Matrix Unit ID: 41052
0 **Documented** Elements Found

0 **Documented-Historic** Elements Found

0 **Likely** Elements Found

Matrix Unit ID: 41419
0 **Documented** Elements Found

0 **Documented-Historic** Elements Found

0 **Likely** Elements Found

Matrix Unit ID: 41420
0 **Documented** Elements Found

0 **Documented-Historic** Elements Found

1 **Likely** Element Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
Mycteria americana Wood Stork	G4	S2	LT	FT

Matrix Unit ID: 41421

0 **Documented** Elements Found

0 **Documented-Historic** Elements Found

1 **Likely** Element Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
Mycteria americana Wood Stork	G4	S2	LT	FT

Matrix Unit ID: 41422

0 **Documented** Elements Found

0 **Documented-Historic** Elements Found

2 **Likely** Elements Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
Mycteria americana Wood Stork	G4	S2	LT	FT
Sandhill upland lake	G3	S2	N	N

REFERENCE COPY

Matrix Unit ID: 41423

0 **Documented** Elements Found

0 **Documented-Historic** Elements Found

2 **Likely** Elements Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
Mycteria americana Wood Stork	G4	S2	LT	FT
Sandhill upland lake	G3	S2	N	N

Matrix Unit IDs: 40680 , 41049 , 41050 , 41051 , 41052 , 41419 , 41420 , 41421 , 41422 , 41423

52 **Potential** Elements Common to Any of the 10 Matrix Units

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
Arnoglossum diversifolium Variable-leaved Indian-plantain	G2	S2	N	T
Athene cunicularia floridana Florida Burrowing Owl	G4T3	S3	N	SSC
Bonamia grandiflora Florida Bonamia	G3	S3	LT	E
Calamintha ashei Ashe's Savory	G3	S3	N	T
	G2G3	S2S3	N	T

Calopogon multiflorus Many-flowered Grass-pink				
Carex chapmanii Chapman's Sedge	G3	S3	N	T
Centrosema arenicola Sand Butterfly Pea	G2Q	S2	N	E
Chionanthus pygmaeus Pygmy Fringe Tree	G2G3	S2S3	LE	E
Clitoria fragrans Scrub Pigeon-wing	G3	S3	LT	E
Coelorachis tuberculosa Piedmont Jointgrass	G3	S3	N	T
Conradina brevifolia Short-leaved Rosemary	G2Q	S2	LE	E
Corynorhinus rafinesquii Rafinesque's Big-eared Bat	G3G4	S2	N	N
Drymarchon couperi Eastern Indigo Snake	G3	S3	LT	FT
Eriogonum longifolium var. gnaphalifolium Scrub Buckwheat	G4T3	S3	LT	E
Gopherus polyphemus Gopher Tortoise	G3	S3	C	ST
Grus canadensis pratensis Florida Sandhill Crane	G5T2T3	S2S3	N	ST
Gymnopogon chapmanianus Chapman's Skeletongrass	G3	S3	N	N
Hartwrightia floridana Hartwrightia	G2	S2	N	T
Heterodon simus Southern Hognose Snake	G2	S2	N	N
Illicium parviflorum Star Anise	G2	S2	N	E
Lechea cernua Nodding Pinweed	G3	S3	N	T
Liatris ohlingerae Florida Blazing Star	G2	S2	LE	E
Lithobates capito Gopher Frog	G3	S3	N	SSC
Litsea aestivalis Pondspice	G3?	S2	N	E
Lupinus aridorum Scrub Lupine	G1	S1	LE	E
Matelea floridana Florida Spiny-pod	G2	S2	N	E
Mustela frenata peninsulae Florida Long-tailed Weasel	G5T3	S3	N	N
Nemastylis floridana Celestial Lily	G2	S2	N	E
Neofiber alleni Round-tailed Muskrat	G3	S3	N	N
Nolina atopocarpa Florida Beargrass	G3	S3	N	T
Nolina brittoniana Britton's Beargrass	G3	S3	LE	E
Notophthalmus perstriatus Striped Newt	G2G3	S2	C	N
Panicum abscissum Cutthroat Grass	G3	S3	N	E
Paronychia chartacea ssp. chartacea Paper-like Nailwort	G3T3	S3	LT	E
	G3	S3	N	N

REFERENCE COPY

Peucaea aestivalis Bachman's Sparrow				
Picoides borealis Red-cockaded Woodpecker	G3	S2	LE	FE
Pituophis melanoleucus mugitus Florida Pine Snake	G4T3	S3	N	SSC
Plestiodon egregius lividus Blue-tailed Mole Skink	G5T2	S2	LT	FT
Podomys floridanus Florida Mouse	G3	S3	N	SSC
Polygala lewtonii Lewton's Polygala	G2G3	S2S3	LE	E
Polygonella basiramia Florida Jointweed	G3	S3	LE	E
Polygonella myriophylla Small's Jointweed	G3	S3	LE	E
Prunus geniculata Scrub Plum	G3	S3	LE	E
Pteroglossaspis ecristata Giant Orchid	G2G3	S2	N	T
Puma concolor coryi Florida Panther	G5T1	S1	LE	FE
Rostrhamus sociabilis Snail Kite	G4G5	S2	LE	N
Salix floridana Florida Willow	G2	S2	N	E
Sceloporus woodi Florida Scrub Lizard	G2G3	S2S3	N	N
Sciurus niger shermani Sherman's Fox Squirrel	G5T3	S3	N	SSC
Ursus americanus floridanus Florida Black Bear	G5T2	S2	N	N
Warea amplexifolia Clasping Warea	G1	S1	LE	E
Warea carteri Carter's Warea	G3	S3	LE	E

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Disclaimer

The data maintained by the Florida Natural Areas Inventory represent the single most comprehensive source of information available on the locations of rare species and other significant ecological resources statewide. However, the data are not always based on comprehensive or site-specific field surveys. Therefore, this information should not be regarded as a final statement on the biological resources of the site being considered, nor should it be substituted for on-site surveys. FNAI shall not be held liable for the accuracy and completeness of these data, or opinions or conclusions drawn from these data. FNAI is not inviting reliance on these data. Inventory data are designed for the purposes of conservation planning and scientific research and are not intended for use as the primary criteria for regulatory decisions.

Unofficial Report

These results are considered unofficial. FNAI offers a Standard Data Request option for those needing certifiable data.

APPENDIX C

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IPaC **U.S. Fish & Wildlife Service**

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

REFERENCE COPY
Not for consultation

Location

Osceola and Polk counties, Florida

Local office

South Florida Ecological Services Field Office

(772) 562-3909
(772) 562-4288

1339 20th Street
Vero Beach, FL 32960-3559

http://fws.gov/verobeach

REFERENCE COPY
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Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population, even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

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Not for consultation

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species

[1] are managed by the Ecological Services Program of the U.S. Fish and Wildlife Service.

1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the listing status page for more information.

The following species are potentially affected by activities in this location:

Mammals

NAME	STATUS
Florida Bonneted Bat Eumops floridanus No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/8630	Endangered
Florida Panther Puma (=Felis) concolor coryi No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/1763	Endangered
Puma (=mountain Lion) Puma (=Felis) concolor (all subsp. except coryi) No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/6049	SAT

Birds

NAME	STATUS
Audubon's Crested Caracara Polyborus plancus audubonii No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/8250	Threatened
Everglade Snail Kite Rostrhamus sociabilis plumbeus There is a **final** critical habitat designated for this species. Your location is outside the designated critical habitat. https://ecos.fws.gov/ecp/species/7713	Endangered
Florida Grasshopper Sparrow Ammodramus savannarum floridanus No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/32	Endangered
Florida Scrub-jay Aphelocoma coerulescens No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/6174	Threatened

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Not for consultation

Ivory-billed Woodpecker Campephilus principalis — Endangered
No critical habitat has been designated for this species.
https://ecos.fws.gov/ecp/species/8230

Red-cockaded Woodpecker Picoides borealis — Endangered
No critical habitat has been designated for this species.
https://ecos.fws.gov/ecp/species/7614

Whooping Crane Grus americana — EXPN
No critical habitat has been designated for this species.
https://ecos.fws.gov/ecp/species/758

Wood Stork Mycteria americana — Threatened
No critical habitat has been designated for this species.
https://ecos.fws.gov/ecp/species/8477

Reptiles

NAME	STATUS

American Alligator Alligator mississippiensis — SAT
No critical habitat has been designated for this species.
https://ecos.fws.gov/ecp/species/776

Bluetail Mole Skink Eumeces egregius lividus — Threatened
No critical habitat has been designated for this species.
https://ecos.fws.gov/ecp/species/2203

Eastern Indigo Snake Drymarchon corais couperi — Threatened
No critical habitat has been designated for this species.
https://ecos.fws.gov/ecp/species/646

Sand Skink Neoseps reynoldsi — Threatened
No critical habitat has been designated for this species.
https://ecos.fws.gov/ecp/species/4094

REFERENCE COPY
Not for consultation

Flowering Plants

NAME	STATUS
Avon Park Harebells Crotalaria avonensis No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/7093	Endangered
Britton's Beargrass Nolina brittoniana No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/4460	Endangered
Carter's Mustard Warea carteri No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/5583	Endangered
Florida Bonamia Bonamia grandiflora No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/2230	Threatened
Florida Ziziphus Ziziphus celata No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/2950	Endangered
Highlands Scrub Hypericum Hypericum cumulicola No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/2940	Endangered
Lewton's Polygala Polygala lewtonii No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/6688	Endangered
Papery Whitlow-wort Paronychia chartacea No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/1465	Threatened
Pigeon Wings Clitoria fragrans No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/991	Threatened

REFERENCE COPY
Not for consultation

Pygmy Fringe-tree Chionanthus pygmaeus — Endangered
No critical habitat has been designated for this species.
https://ecos.fws.gov/ecp/species/1084

Sandlace Polygonella myriophylla — Endangered
No critical habitat has been designated for this species.
https://ecos.fws.gov/ecp/species/5745

Scrub Blazingstar Liatris ohlingerae — Endangered
No critical habitat has been designated for this species.
https://ecos.fws.gov/ecp/species/864

Scrub Buckwheat Eriogonum longifolium var. gnaphalifolium — Threatened
No critical habitat has been designated for this species.
https://ecos.fws.gov/ecp/species/5940

Scrub Lupine Lupinus aridorum — Endangered
No critical habitat has been designated for this species.
https://ecos.fws.gov/ecp/species/736

REFERENCE COPY
Not for consultation

Scrub Mint Dicerandra frutescens — Endangered
No critical habitat has been designated for this species.
https://ecos.fws.gov/ecp/species/799

Scrub Plum Prunus geniculata — Endangered
No critical habitat has been designated for this species.
https://ecos.fws.gov/ecp/species/2238

Short-leaved Rosemary Conradina brevifolia — Endangered
No critical habitat has been designated for this species.
https://ecos.fws.gov/ecp/species/2929

Wide-leaf Warea Warea amplexifolia — Endangered
No critical habitat has been designated for this species.
https://ecos.fws.gov/ecp/species/412

Wireweed Polygonella basiramia No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/1718	Endangered

Lichens

NAME	STATUS
Florida Perforate Cladonia Cladonia perforata No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/7516	Endangered

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

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Not for consultation

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act

[1] and the Bald and Golden Eagle Protection Act[2].

Any activity that results in the take (to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct) of migratory birds or eagles is prohibited unless authorized by the U.S. Fish and Wildlife Service

[3]. There are no provisions for allowing the take of migratory birds that are unintentionally killed or injured.

Any person or organization who plans or conducts activities that may result in the take of migratory birds is responsible for complying with the appropriate regulations and implementing appropriate conservation measures.

1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

Additional information can be found using the following links:

- Birds of Conservation Concern http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php
- Conservation measures for birds http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php
- Year-round bird occurrence data http://www.birdscanada.org/birdmon/default/datasummaries.jsp

The migratory birds species listed below are species of particular conservation concern (e.g. Birds of Conservation Concern) that may be potentially affected by activities in this location. It is not a list of every bird species you may find in this location, nor a guarantee that all of the bird species on this list will be found on or near this location. Although it is important to try to avoid and minimize impacts to all birds, special attention should be made to avoid and minimize impacts to birds of priority concern. To view available data on other bird species that may occur in your project area, please visit the AKN Histogram Tools and Other Bird Data Resources. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

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Not for consultation

NAME	SEASON(S)
American Bittern Botaurus lentiginosus https://ecos.fws.gov/ecp/species/6582	Wintering
American Kestrel Falco sparverius paulus	Year-round
American Oystercatcher Haematopus palliatus https://ecos.fws.gov/ecp/species/8935	Year-round
Bachman's Sparrow Aimophila aestivalis https://ecos.fws.gov/ecp/species/6177	Year-round
Bald Eagle Haliaeetus leucocephalus https://ecos.fws.gov/ecp/species/1626	Year-round
Black Rail Laterallus jamaicensis https://ecos.fws.gov/ecp/species/7717	Breeding

Brown-headed Nuthatch *Sitta pusilla*	Year-round
Chuck-will's-widow *Caprimulgus carolinensis*	Year-round
Common Ground-dove *Columbina passerina exigua*	Year-round
Henslow's Sparrow *Ammodramus henslowii* https://ecos.fws.gov/ecp/species/3941	Wintering
Least Bittern *Ixobrychus exilis* https://ecos.fws.gov/ecp/species/6175	Year-round
Lesser Yellowlegs *Tringa flavipes* https://ecos.fws.gov/ecp/species/9679	Wintering
Limpkin *Aramus guarauna*	Year-round
Loggerhead Shrike *Lanius ludovicianus* https://ecos.fws.gov/ecp/species/8833	Year-round
Peregrine Falcon *Falco peregrinus* https://ecos.fws.gov/ecp/species/8831	Wintering
Prairie Warbler *Dendroica discolor*	Wintering
Prothonotary Warbler *Protonotaria citrea*	Breeding
Red-headed Woodpecker *Melanerpes erythrocephalus*	Year-round
Rusty Blackbird *Euphagus carolinus*	Wintering
Short-eared Owl *Asio flammeus* https://ecos.fws.gov/ecp/species/9295	Wintering

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Not for consultation

Short-tailed Hawk Buteo brachyurus https://ecos.fws.gov/ecp/species/8742	Breeding
Smooth-billed Ani Crotophaga ani https://ecos.fws.gov/ecp/species/1754	Year-round
Swainson's Warbler Limnothlypis swainsonii	Migrating
Swallow-tailed Kite Elanoides forficatus https://ecos.fws.gov/ecp/species/8938	Breeding
Worm Eating Warbler Helmitheros vermivorum	Migrating
Yellow Rail Coturnicops noveboracensis https://ecos.fws.gov/ecp/species/9476	Wintering

What does IPaC use to generate the list of migratory bird species potentially occurring in my specified location?

REFERENCE COPY

Landbirds:

Migratory birds that are displayed on the IPaC species list are based on ranges in the latest edition of the National Geographic Guide, Birds of North America (6th Edition, 2011 by Jon L. Dunn, and Jonathan Alderfer). Although these ranges are coarse in nature, a number of U.S. Fish and Wildlife Service migratory bird biologists agree that these maps are some of the best range maps to date. These ranges were clipped to a specific Bird Conservation Region (BCR) or USFWS Region/Regions, if it was indicated in the 2008 list of Birds of Conservation Concern (BCC) that a species was a BCC species only in a particular Region/Regions. Additional modifications have been made to some ranges based on more local or refined range information and/or information provided by U.S. Fish and Wildlife Service biologists with species expertise. All migratory birds that show in areas on land in IPaC are those that appear in the 2008 Birds of Conservation Concern report.

Not for consultation

Atlantic Seabirds:

Ranges in IPaC for birds off the Atlantic coast are derived from species distribution models developed by the National Oceanic and Atmospheric Association (NOAA) National Centers for Coastal Ocean Science (NCCOS) using the best available seabird survey data for the offshore Atlantic Coastal region to date. NOAANCCOS assisted USFWS in developing seasonal species ranges from their models for specific use in IPaC. Some of these birds are not BCC species but were of interest for inclusion because they may occur in high abundance off the coast at different times throughout the year, which potentially makes them more susceptible to certain types of development and activities taking place in that area. For more refined details about the abundance

and richness of bird species within your project area off the Atlantic Coast, see the Northeast Ocean Data Portal. The Portal also offers data and information about other types of taxa that may be helpful in your project review.

About the NOAANCCOS models: the models were developed as part of the NOAANCCOS project: Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf. The models resulting from this project are being used in a number of decision-support/mapping products in order to help guide decision-making on activities off the Atlantic Coast with the goal of reducing impacts to migratory birds. One such product is the Northeast Ocean Data Portal, which can be used to explore details about the relative occurrence and abundance of bird species in a particular area off the Atlantic Coast.

All migratory bird range maps within IPaC are continuously being updated as new and better information becomes available.

Can I get additional information about the levels of occurrence in my project area of specific birds or groups of birds listed in IPaC?

Landbirds:

The Avian Knowledge Network (AKN) provides a tool currently called the "Histogram Tool", which draws from the data within the AKN (latest,survey, point count, citizen science datasets) to create a view of relative abundance of species within a particular location over the course of the year. The results of the tool depict the frequency of detection of a species in survey events, averaged between multiple datasets within AKN in a particular week of the year. You may access the histogram tools through the Migratory Bird Programs AKN Histogram Tools webpage.

REFERENCE COPY
Not for consultation

The tool is currently available for 4 regions (California, Northeast U.S., Southeast U.S. and Midwest), which encompasses the following 32 states: Alabama, Arkansas, California, Connecticut, Delaware, Florida, Georgia, Illinois, Indiana, Iowa, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, New Hampshire, New Jersey, New York, North, Carolina, Ohio, Pennsylvania, Rhode Island, South Carolina, Tennessee, Vermont, Virginia, West Virginia, and Wisconsin.

In the near future, there are plans to expand this tool nationwide within the AKN, and allow the graphs produced to appear with the list of trust resources generated by IPaC, providing you with an additional level of detail about the level of occurrence of the species of particular concern potentially occurring in your project area throughout the course of the year.

Atlantic Seabirds:

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAANCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Facilities

Wildlife refuges

Any activity proposed on National Wildlife Refuge lands must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGES AT THIS LOCATION.

Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

REFERENCE COPY
Not for consultation

Wetlands in the National Wetlands Inventory

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

WETLAND INFORMATION IS NOT AVAILABLE AT THIS TIME
This can happen when the National Wetlands Inventory (NWI) map service is unavailable, or for very large projects that intersect many wetland areas. Try again, or visit the NWI map to view wetlands at this location.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible

hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

REFERENCE COPY

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

Not for consultation

APPENDIX D

{9!w/ I 5Ŝăʅűƶʟȷ !yʃ·fèăƛă

REFERENCE COPY

DESKTOP ANALYSIS FOR THE
CONCEPT, FEASIBILITY & MOBILITY STUDY
POINCIANA PARKWAY EXTENSION/I-4 CONNECTOR
OSCEOLA AND POLK COUNTIES, FLORIDA

CONSULTANT:	{9!w/ l
	мрмр ² ф {Y'λúK {ű№ŜŜűΣ h№fl·yŘƨΣ Cfƨ№λŘl· онулп
PRINCIPAL INVESTIGATOR:	!yƎŜfl· a l·űdzăλ'ΣΣ a !
CLIENT:	YλY'fŜè- l ƨ№y' l·yŘ ! ăăƨŎλl·ű$ăΣ LyŎф
DATE:	{ŜLJűŜY'ōŜ№ нлмт
SEARCH PROJECT NUMBER:	офнф-мтлто¢

Ly' {ŜLJűŜY'ōŜ№ нлмтΣ {9!w/ l Ŏ2Y'LJfŜűŜŘ l· ŘŜă'ű2LJ l·yl·fèăλă 2Ŧ űKŜ LJ№2LJ2ăŜŘ t2λyŎλl·yl· tl·№'ø l·è 9ÈűŜyãλ2yĸL-п /2ýyŜŎű2№ {űdzŘè !№Sl· λy' hăŎŜ2fl· l·yŘ t2f'ł /2dzyűλŜăΣ Cf2№λŘl·φ ¢KŜ LJ№ŠăŜyű ŘŜă'ű2LJ l·yl·fèăλă ø l·ă Ŏ2yŘdzŎűŜŘ øλúK űKŜ LJdz№LJ2ăŜ 2Ŧ λŘŜyűλŦèλyƎ Ŏdzfűdz№l·f №Ŝă2dz№ŎŜ LJ2űŜyűλl·f l·yŘ LJ№ŜØλ2dzătê №ŜŎ2№ŘŜŘ Kλăű2№λŎ LJ№2LJŜ№úŜă λy'úKŜ ØλŎλyλûè 2Ŧ űKŜ LJ№2LJ2ăŜŘ LJ№2ŝŜŎű ûKl·ú l·№Ŝ fλăúŜŘΣ 2№ Yl·è ōŜ ŜfλƎλōfŜ Ŧ2№ fλăűλyƎΣ λy'úKŜ bl·ûλ2yl·f wŜƎλăűŜ№ 2Ŧ l λăű2№λŎ tfl·ŎŜă óbwl tú¢

¢KŜ LJ№2ŝŜŎű {űdzŘè !№Sl· ø l·ă ŘŜŦλySŘ ōè YλYfŜè- l ƨ№y' l·yŘ !ăă2Ŏλl·ű$ăΣ LyŎф l·ă l·y' l·LJLJ№2ÈλY l·ű$fê мрΣунл-l·Ŏ№Ŝ ăø l·ûK ƨŦ fl·yŘ ó**Figure 1**úφ ² λűKλy'úKλă ăűdzŘè l·№Sl·Σ yλySΣ №2l·Řø l·è l·yŘ Ŧ2dz№ λyűŜ№ŎKl·yƎŜ l·fλƎyY'Ŝyű l·fűŜ№yl·ülØŜă øŜ№Ŝ ŜÈl·Y'λySŘ ó**Figure 2**úφ ¢KŜ Cf2№λŘl· a l·ăűŜ№ {λűŜ CλfŜ óC a {Cú ŘI·úl·ōl·ăŜ ø l·ă №ŜØλŜøŜŘ Ŧ2№ l·yè LJ№ŜØλ2dză ădz№ØŜèă 2№ LJ№ŜØλ2dzătê №ŜŎ2№ŘŜŘ №Ŝă2dz№ŎŜă øλúKλy'úKŜ {űdzŘè !№Sl·φ Ly' l·ŘŘλûλ2yΣ úKŜ t№2LJŜ№ûè !LJLJ№l·λăŜ№ Řl·úl·ōl·ăŜă Ŧ2№ hăŎŜ2fl· l·yŘ t2f'ł /2dzyűλŜăΣ Kλăű2№λŎ Y'l·LJăΣ l·yŘ l·Ŝ№λl·f LJK2ű2Ǝ№l·LJKă øŜ№Ŝ №ŜØλŜøŜŘ ű2 ŘŜűŜ№Y'λyŜ λŦ LJ2űŜyűλl·f Kλăű2№λŎ №Ŝă2dz№ŎŜă Ŏ2yãú№dzŎűŜŘ LJ№λ2№ ű2 мфто l·№Ŝ fƨŎl·ûŜŘ øλúKλy'úKŜ {ûdzŘè !№Sl·φ

REFERENCE COPY

POINCIANA PARKWAY EXTENSION/I-4 CONNECTOR STUDY AREA—PREVIOUS SURVEYS

9ÈlY'λyl·ûλ2y' 2Ŧ űKŜ Ca{C ŘI·úl·ōl·ăŜ ódzLJŘl·ûŜŘ Wdzfè нлмtú λyŘλŎl·ûŜă ûKl·ű cф LJ№ŜØλ2dză Ŏdzfűdz№l·f №Ŝă2dz№ŎŜ ădz№ØŜèă λyűŜ№ăŜŎű ûKŜ t2λyŎλl·yl· tl·№'ø l·è 9ÈűŜyãλ2yĸL-п /2ýyŜŎű2№ {ûdzŘè !№Sl· ó**Appendix A**úφ **Figure 3** ăK2øă ûKŜ 2ØŜ№l·ft Ŏ2ØŜ№l·ƎŜ 2Ŧ ûKŜăŜ ădz№ØŜèă øλúKλy' ûKŜ {ûdzŘè !№Sl·φ l ƨ2øŜØŜ№Σ ûKŜ ŜÈλăűŜyŎŜ 2Ŧ l· LJ№ŜØλ2dză ădz№ØŜè λy' ûKŜ l·№Sl· Yl·è y2ű yŜƎl·ûŜ ûKŜ yŜŜŘ Ŧ2№ l·y' dzLJŘl·ûŜŘ ădz№ØŜè Ŧ2№ ûKŜ ŎdzN№Syű LJ№2ŝŜŎű¢ Cl·ŎűƨN№ă ădzŎK l·ă ûKŜ Řl·ûŜ 2Ŧ ûKŜ LJ№ŜØλ2dză ăűdzŘè l·yŘ ûKŜ ăŎ2LJŜkλyűŜyãλúè 2Ŧ ûKŜ l·Ŏűdzl·f øƨ№'ł LJŜ№Ŧ2№Y'ŜŘ λy' l· LJ№ŜØλ2dză ădz№ØŜè øƨdztŘ yŜŜŘ ű2 ōŜ Ŏ2yãλŘŜ№ŜŘ¢

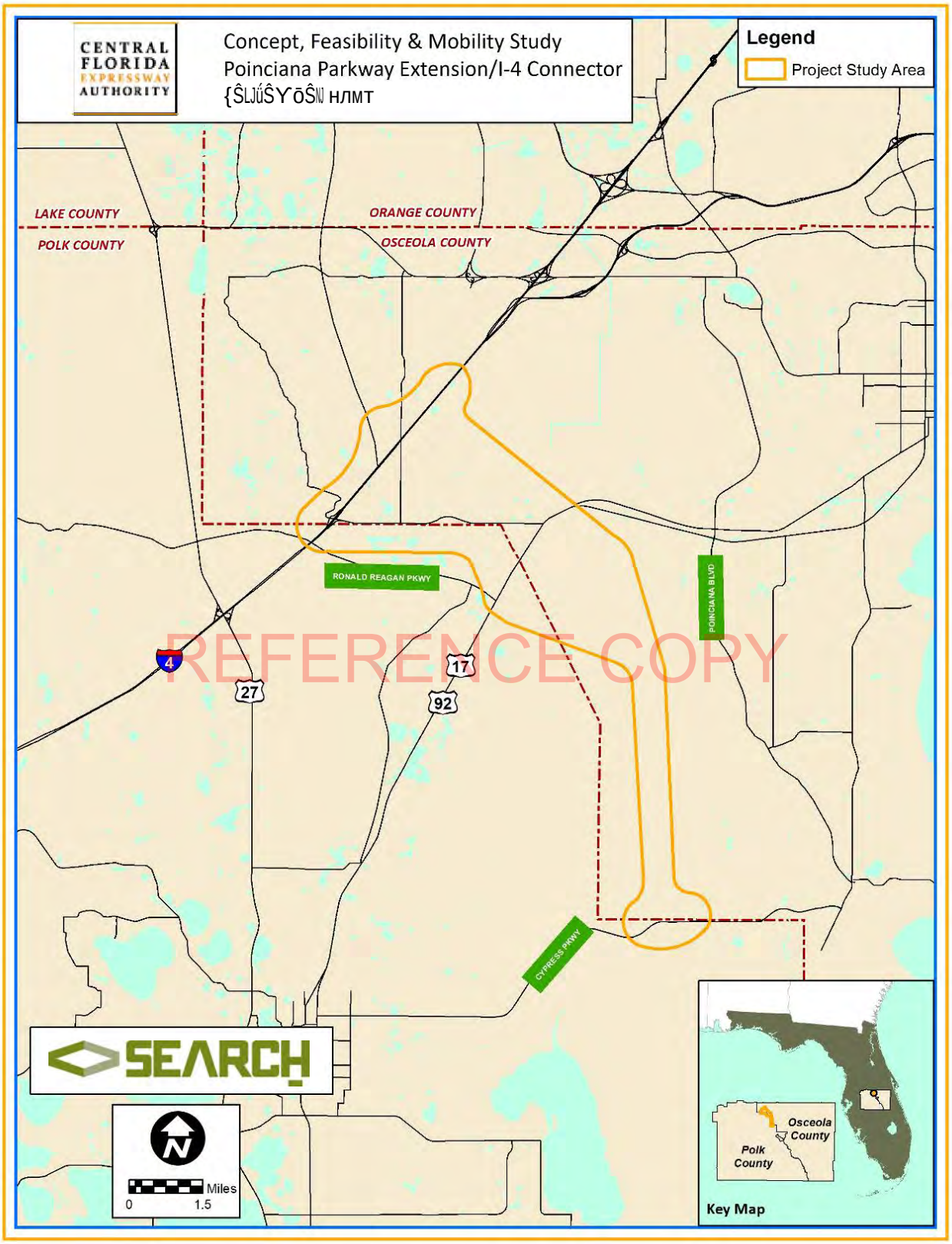

Figure 1. Location of the Study Area for the Poinciana Parkway Extension/I-4 Connector Desktop Analysis in Osceola and Polk Counties, Florida.

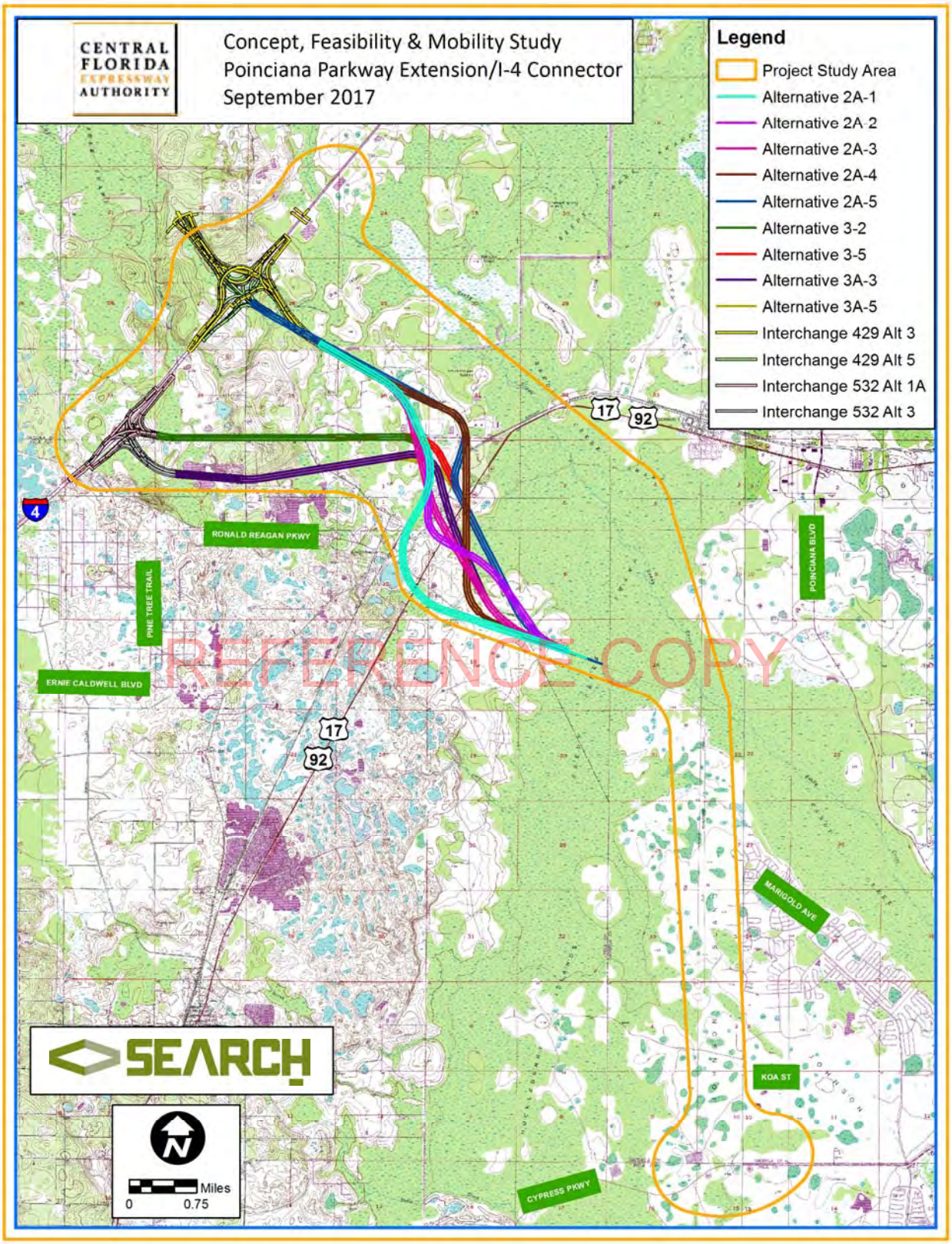

Figure 2. Nine roadway and four interchange alignment alternatives within the Poinciana Parkway Extension/I-4 Study Area.

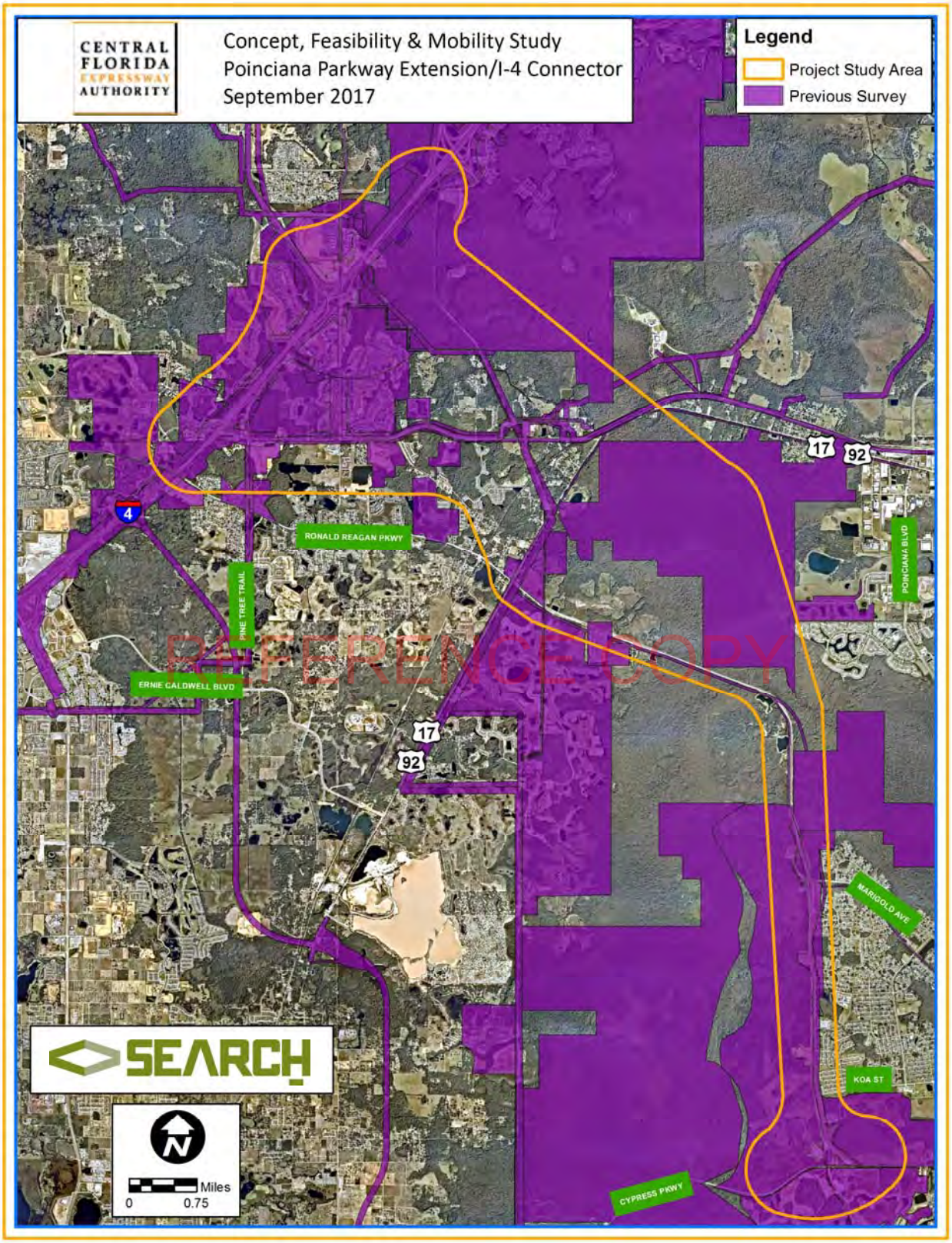

Figure 3. Previous cultural resource surveys intersecting the Poinciana Parkway Extension/I-4 Poinciana Connector Study Area. Source: FMSF (7/2017); KHA (2017).

POINCIANA PARKWAY EXTENSION/I-4 CONNECTOR STUDY AREA—RECORDED RESOURCES

hØŜNJl·ftΣ Ca{C ŘIl·ůIl· óWdzfè нлмтú λyŘλǑIl·ůŜă ůKIl·ů I· ů2ůIl·f 2Ŧ мp Kλăΰ2NJλǑ ăΰNJdzǑΰdzNJŜăΣ Ŧ2dzNJ Kλăΰ2NJλǑ ōNJλŘƎŜăΣ ΰø2 Kλăΰ2NJλǑ ǑŜYŜΰŜNJλŜăΣ ăλÈ Kλăΰ2NJλǑ fλySIl·NJ NJŜă2dzNJǑŜăΣ l·yŘ ул l·NJǑKIl·Ŝ2f2ƎλǑIl·f ăλΰŜă KIl·ØŜ ōŜŜY NJŜǑ2NJŘŜŘ øλΰKλY ΰKŜ t2λyǑλIl·yIl· tIl·NJ]øIl·è 9ÈΰŜyãλ2yкL-п /2ŷŷŜǑΰ2NJ {ΰdzŘè !NJŜIl·φ hŦ ΰKŜăŜΣ 2yŜ Kλăΰ2NJλǑ ăΰNJdzǑΰdzNJŜΣ ΰKNJŜŜ Kλăΰ2NJλǑ ōNJλŘƎŜăΣ 2yŜ Kλăΰ2NJλǑ ǑŜYŜΰŜNJèΣ ΰKNJŜŜ Kλăΰ2NJλǑ fλySIl·NJ NJŜă2dzNJǑŜăΣ l·yŘ нм l·NJǑKIl·Ŝ2f2ƎλǑIl·f ăλΰŜă l·NJŜ ŜλΰKŜNJ ŜfλƎλōfŜ Ŧ2NJ fλăΰλyƎ 2y ΰKŜ bwIt 2NJ ySŜŘ l·ŘŘλΰλ2yIl·f ø2NJ] ΰ2 ŜØIl·fdzIl·ΰŜ ŜfλƎλōλfλΰèφ

Table 1 fλăΰă 2yfè ΰKŜ Ca{C NJŜă2dzNJǑŜă ΰKIl·ΰ λyΰŜNJăŜǑΰ ΰKŜ ØI·NJλ2dză NJ2l·Řøl·è l·yŘ λyΰŜNJǑKl·yƎŜ l·fλƎyYŜyΰ l·fΰŜNJyIl·ΰλØŜăφ ¢KŜ Ŧdzff fλăΰ 2Ŧ l·ff LJNJŜØλ2dzăfè NJŜǑ2NJŘŜŘ NJŜă2dzNJǑŜă øλΰKλY ΰKŜ fI·NJƎŜNJ {ΰdzŘè !NJŜI· λă Ŧ2dzyŘ λY **Appendix Bφ Figure 4** ăK2øă l·ff ΰKŜ Kλăΰ2NJλǑ NJŜă2dzNJǑŜă øλΰKλY ΰKŜ {ΰdzŘè !NJŜIl·φ **Figure 5** ŘŜLJλǑΰă l·ff ΰKŜ l·NJǑKl·Ŝ2f2ƎλǑIl·f ăλΰŜă øλΰKλY ΰKŜ {ΰdzŘè !NJŜIl·T ΰK2ăŜ fI·ōŜfŜŘ λyŘλǑIl·ΰŜ ΰKŜ ăλΰŜ λă ŜfλƎλōfŜ Ŧ2NJ bwIt fλăΰλyƎ 2NJ KIl·ă yƶΰ ōŜŜY ŜØIl·fdzIl·ΰŜŘ Ŧ2NJ ŜfλƎλōλfλΰè ōè ΰKŜ {ΰIl·ΰŜ I λăΰ2NJλǑ tNJŜăŜNJØIl·ΰλ2Y hŦŦλǑŜNJ ó{ Ithúφ

Table 1. FMSF Resources Intersecting the Roadway and Interchange Alignment Alternatives.

FMSF No.	Resource Name	Resource Type	SHPO Evaluation	Alternative Name
yh{лллпт	5λăyŜè ² 2NJfŘ o	!NJǑKIl·Ŝ2f2ƎλǑIl·f {λΰŜ	LyŜfλƎλōfŜ Ŧ2NJ bwIt	LyΰŜNJǑKIl·yƎŜ пнф !fΰ o LyΰŜNJǑKIl·yƎŜ пнф !fΰ p
yh{ллллпу	5λăyŜè ² 2NJfŘ п	!NJǑKIl·Ŝ2f2ƎλǑIl·f {λΰŜ	b2ΰ 9ØI·fdzI·ΰŜŘ	LyΰŜNJǑKIl·yƎŜ рон !fΰ м!
yh{ллфо	hăǑŜ2fI· t2λyΰŜ м	!NJǑKIl·Ŝ2f2ƎλǑIl·f {λΰŜ	b2ΰ 9ØI·fdzI·ΰŜŘ	LyΰŜNJǑKIl·yƎŜ пнф !fΰ o LyΰŜNJǑKIl·yƎŜ пнф !fΰ p
yh{ллмлл	DI·ăLJ	!NJǑKIl·Ŝ2f2ƎλǑIl·f {λΰŜ	b2ΰ 9ØI·fdzI·ΰŜŘ	LyΰŜNJǑKIl·yƎŜ пнф !fΰ o LyΰŜNJǑKIl·yƎŜ пнф !fΰ p
yh{лллммм	I ŜÈI·Ǝ2y /ŜyΰŜNJ ф	!NJǑKIl·Ŝ2f2ƎλǑIl·f {λΰŜ	LyŜfλƎλōfŜ Ŧ2NJ bwIt	LyΰŜNJǑKIl·yƎŜ рон !fΰ м! LyΰŜNJǑKIl·yƎŜ рон !fΰ o
yh{ллммо	I ŜÈI·Ǝ2y /ŜyΰŜNJ мм	!NJǑKIl·Ŝ2f2ƎλǑIl·f {λΰŜ	b2ΰ 9ØI·fdzI·ΰŜŘ	!fΰŜNJyI·ΰλØŜ o-н !fΰŜNJyI·ΰλØŜ o-p
yh{ллмпн	{ΰ2fŜy . I·ΰΰŜNJè	!NJǑKIl·Ŝ2f2ƎλǑIl·f {λΰŜ	LyŜfλƎλōfŜ Ŧ2NJ bwIt	LyΰŜNJǑKIl·yƎŜ рон !fΰ м! LyΰŜNJǑKIl·yƎŜ рон !fΰ o
yh{ллмрл	DλfY I·NJ	!NJǑKIl·Ŝ2f2ƎλǑIl·f {λΰŜ	LyŜfλƎλōfŜ Ŧ2NJ bwIt	!fΰŜNJyI·ΰλØŜ н!-o !fΰŜNJyI·ΰλØŜ o!-o
yh{ллмрм	tIl·NJ]ŜNJ IλƎKøIl·è	!NJǑKIl·Ŝ2f2ƎλǑIl·f {λΰŜ	LyŜfλƎλōfŜ Ŧ2NJ bwIt	!fΰŜNJyI·ΰλØŜ н!-м !fΰŜNJyI·ΰλØŜ н!-н !fΰŜNJyI·ΰλØŜ н!-o !fΰŜNJyI·ΰλØŜ н!-п !fΰŜNJyI·ΰλØŜ н!-p !fΰŜNJyI·ΰλØŜ o-н !fΰŜNJyI·ΰλØŜ o-p !fΰŜNJyI·ΰλØŜ o!-o !fΰŜNJyI·ΰλØŜ o!-p
yh{ллрфм	wŜŜŘè {f2dzƎK	!NJǑKIl·Ŝ2f2ƎλǑIl·f {λΰŜ	LyŜfλƎλōfŜ Ŧ2NJ bwIt	LyΰŜNJǑKIl·yƎŜ пнф !fΰ o
yh{ллрфн	tλyŜè LăfI·yŘ	!NJǑKIl·Ŝ2f2ƎλǑIl·f {λΰŜ	LyŜfλƎλōfŜ Ŧ2NJ bwIt	LyΰŜNJǑKIl·yƎŜ пнф !fΰ o
yh{ллрфп	/NJŜŜ] /NJ2ăăλyƎ	!NJǑKIl·Ŝ2f2ƎλǑIl·f {λΰŜ	LyŜfλƎλōfŜ Ŧ2NJ bwIt	LyΰŜNJǑKIl·yƎŜ пнф !fΰ o LyΰŜNJǑKIl·yƎŜ пнф !fΰ p

REFERENCE COPY

Table 1. FMSF Resources Intersecting the Roadway and Interchange Alignment Alternatives.

FMSF No.	Resource Name	Resource Type	SHPO Evaluation	Alternative Name
yh{ллрфр	b2ℕúK t2ʎyú	!ℕǑKI·Ŝ2f2ƎʎǑI·f {ʎúŜ	LyŜfΛƎʎōfŜ ₮2ℕ bwlt	!fúŜℕyƬ·úʎØŜ н!-p LyúŜℕǑKI·yƎŜ пнф !fú o LyúŜℕǑKI·yƎŜ пнф !fú p
yh{ллсмо	5I·ØŜyLJ2ℕú {øI·YLJ	!ℕǑKI·Ŝ2f2ƎʎǑI·f {ʎúŜ	b2ú 9ØI·tdzI·úŜŘ	LyúŜℕǑKI·yƎŜ пнф !fú o LyúŜℕǑKI·yƎŜ пнф !fú p
yh{лмтнм	a2ℕyʎyƎ 5Ŝø	!ℕǑKI·Ŝ2f2ƎʎǑI·f {ʎúŜ	LyŜfΛƎʎōfŜ ₮2ℕ bwlt	!fúŜℕyƬ·úʎØŜ н!-м !fúŜℕyƬ·úʎØŜ н!-н
yh{лмтнн	wŜŘú2LJ	!ℕǑKI·Ŝ2f2ƎʎǑI·f {ʎúŜ	LyŜfΛƎʎōfŜ ₮2ℕ bwlt	!fúŜℕyƬ·úʎØŜ н!-м !fúŜℕyƬ·úʎØŜ н!-н
yh{лмттт	b2ℕúK t2ʎyú	!ℕǑKI·Ŝ2f2ƎʎǑI·f {ʎúŜ	LyŜfΛƎʎōfŜ ₮2ℕ bwlt	LyúŜℕǑKI·yƎŜ пнф !fú o LyúŜℕǑKI·yƎŜ пнф !fú p
yh{лмтус CŜfΛĚ н		!ℕǑKI·Ŝ2f2ƎʎǑI·f {ʎúŜ	LyŜfΛƎʎōfŜ ₮2ℕ bwlt	LyúŜℕǑKI·yƎŜ пнф !fú o
yh{лмупл ℕwмту		!ℕǑKI·Ŝ2f2ƎʎǑI·f {ʎúŜ	LyŜfΛƎʎōfŜ ₮2ℕ bwlt	!fúŜℕyƬ·úʎØŜ o-н !fúŜℕyƬ·úʎØŜ o-p
yh{лмуст ℕwннл		!ℕǑKI·Ŝ2f2ƎʎǑI·f {ʎúŜ	LyŜfΛƎʎōfŜ ₮2ℕ bwlt	!fúŜℕyƬ·úʎØŜ н!-p LyúŜℕǑKI·yƎŜ пнф !fú p
ythлофсу [2ăú tŜyŷê		!ℕǑKI·Ŝ2f2ƎʎǑI·f {ʎúŜ	LyŜfΛƎʎōfŜ ₮2ℕ bwlt	!fúŜℕyƬ·úʎØŜ o!-o !fúŜℕyƬ·úʎØŜ o!-p
ythлсмрм ℕw-co		!ℕǑKI·Ŝ2f2ƎʎǑI·f {ʎúŜ	LyŜfΛƎʎōfŜ ₮2ℕ bwlt	!fúŜℕyƬ·úʎØŜ o-н !fúŜℕyƬ·úʎØŜ o-p LyúŜℕǑKI·yƎŜ рон !fú o
ythлсупл tʎyʅ C2Ề wdzy˝		!ℕǑKI·Ŝ2f2ƎʎǑI·f {ʎúŜ	LyŜfΛƎʎōfŜ ₮2ℕ bwlt	!fúŜℕyƬ·úʎØŜ н!-o !fúŜℕyƬ·úʎØŜ н!-п !fúŜℕyƬ·úʎØŜ o!-o
ythлтмлн [I·ʅŜ ² ʎfă2y˝м		!ℕǑKI·Ŝ2f2ƎʎǑI·f {ʎúŜ	LyŜfΛƎʎōfŜ ₮2ℕ bwlt	!fúŜℕyƬ·úʎØŜ o!-o !fúŜℕyƬ·úʎØŜ o!-p
ythлннму /ŜYŜúŜℕè I2YŜăúŜI·Ř		I ʎăú2ℕʎǑ {úℕdzǑúdzℕŜ	LyŜfΛƎʎōfŜ ₮2ℕ bwlt	!fúŜℕyƬ·úʎØŜ н!-м
ythлтмрр сулм ¦{ IʎƎKøI·è мткфн		I ʎăú2ℕʎǑ {úℕdzǑúdzℕŜ	LyŜfΛƎʎōfŜ ₮2ℕ bwlt	!fúŜℕyƬ·úʎØŜ o!-o
ythлтмрс стло ¦{ IʎƎKøI·è мткфн		I ʎăú2ℕʎǑ {úℕdzǑúdzℕŜ	LyŜfΛƎʎōfŜ ₮2ℕ bwlt	!fúŜℕyƬ·úʎØŜ o!-o
ythлтмрт ьк-сслп ¦{ Iøè мткфн		I ʎăú2ℕʎǑ {úℕdzǑúdzℕŜ	LyŜfΛƎʎōfŜ ₮2ℕ bwlt	!fúŜℕyƬ·úʎØŜ н!-o
yh{лмфнр hI·ʅ IʎffI·LJúʎăú /KdzℕǑK /ŜYŜúŜℕè		I ʎăú2ℕʎǑ /ŜYŜúŜℕè	LyŜfΛƎʎōfŜ ₮2ℕ bwlt	LyúŜℕǑKI·yƎŜ рон !fú o
yh{лнрпл {2dzúK Cf2ℕʎŘI· ww		[ʎyŜI·ℕ wŜă2dzℕǑŜ	9fΛƎʎōfŜ ₮2ℕ bwlt	!fúŜℕyƬ·úʎØŜ н!-п !fúŜℕyƬ·úʎØŜ н!-p !fúŜℕyƬ·úʎØŜ o-p !fúŜℕyƬ·úʎØŜ o!-p
yh{лнрст htŘ YʎăăʎYYŜŜ w2I·Řк htŘ ¢I·YLJI· IʎƎKøI·è		[ʎyŜI·ℕ wŜă2dzℕǑŜ	LyãdzŦŦʎǑʎŜyú LyŦ2ℕYI·úʎ2y˝	!fúŜℕyƬ·úʎØŜ н!-п !fúŜℕyƬ·úʎØŜ н!-p !fúŜℕyƬ·úʎØŜ o-p !fúŜℕyƬ·úʎØŜ o!-p
ythлтмрп htŘ YʎăăʎYYŜŜ w2I·Řк htŘ ¢I·YLJI· IʎƎKøI·è		[ʎyŜI·ℕ wŜă2dzℕǑŜ	LyãdzŦŦʎǑʎŜyú LyŦ2ℕYI·úʎ2y˝	!fúŜℕyƬ·úʎØŜ н!-м !fúŜℕyƬ·úʎØŜ н!-н !fúŜℕyƬ·úʎØŜ н!-o !fúŜℕyƬ·úʎØŜ o-н !fúŜℕyƬ·úʎØŜ o!-o !fúŜℕyƬ·úʎØŜ o!-p

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Table 1. FMSF Resources Intersecting the Roadway and Interchange Alignment Alternatives.

FMSF No.	Resource Name	Resource Type	SHPO Evaluation	Alternative Name
ythлтнмф	{2ʤzűK Cf2ℕλŘI· wI·λfℕ2I·Ř ó/{· wwú	[λyŜI·ℕ wŜă2ʤzℕŎŜ	LyŜfλƎλōfŜ ₮2ℕ bwIt	!fűŜℕyϒ·űλØŜ н!-м !fűŜℕyϒ·űλØŜ н!-н !fűŜℕyϒ·űλØŜ н!-o !fűŜℕyϒ·űλØŜ o-н !fűŜℕyϒ·űλØŜ o!-o !fűŜℕyϒ·űλØŜ o!-p

Yellow highlight indicates additional investigation is needed for the resource.

Alternative 2A-1 and the Kinney Harmon Road Cemetery (8PO01519)

!fűK2ʤzƎK y2ű f2ŎI·ûŜŘ ŘλℕŜŎűfè øλűKλy I·yê 2₮ űKŜ ŎʤzℕℕŜyű LJℕ2LJ2ăŜŘ ℕ2I·Řø I·è I·fλƎyϒŜyűăΣ űKŜ LJℕŜØλ2ʤzătè ℕŜŎ2ℕŘŜŘ Yλyϒŝè II·ℕϒ2y w2I·Ř /ŜϒŜűŜℕè óythлмрмфú øI·ℕℕI·yűă ăLJŜŎλI·f Ŏ2yãλŘŜℕI·ûλ2yφ .ŜűøŜŜy !ʤƎʤzăű нлмс I·yŘ aI·ℕŎK нлмтΣ {9!w/I Ŏ2yŘʤzŎűŜŘ I· ƎℕʤzyŘ-LJŜyŜűℕI·ûλyƎ ℕI·ŘI·ℕ óDtwú ădzℕØŜè 2₮ űKŜ bwIt-ŜfλƎλōfŜ Yλyϒŝè II·ℕϒ2y w2I·Ř /ŜϒŜűŜℕè óythлмрмфú óCa{C {dzℕØŜè b2ăφ ноффс I·yŘ ноффуúφ ythлмрмф KI·ă ōŜŜy ŘŜűŜℕϒλyŜŘ ŜfλƎλōfŜ ₮2ℕ fλăűλyƎ λy űKŜ bwIt dzyŘŜℕ /ℕλűŜℕλ2y .Σ ₮2ℕ λűă I·ăă2ŎλI·ûλ2y øλűK űKŜ ø2ℕ]ă 2₮ ½2ℕI· bŜI·fŜ Idzℕăŭ2yΣ I·yŘ /ℕλűŜℕλ2y 5 ₮2ℕ λűă LJ2ŭŜyűλI·f ŭ2 èλŜfŘ λy₮2ℕϒI·ûλ2y I·ō2ʤzű !₮ℕλŎI·y-!ϒŜℕλŎI·y ōʤzℕλI·f LJℕI·ŎűλŎŜă ₮ℕ2ϒ űKŜ ŜI·ℕfè ŭ2 YλŘ-úøŜyűλŜűK ŎŜyűʤzℕèφ ¢KŜ ℕŜŎŜyű ø2ℕ] ōè {9!w/I ℕŜădzfűŜŘ λy I· ϒ2ŘλfλŜŘ ℕŜŎ2ϒYŜyŘŜŘ ō2ʤzyŘI·ℕè ₮2ℕ űKŜ ŎŜϒŜűŜℕè ó**Figure 6**úφ !ă y2ŭŜŘ λy űKŜ ădzℕØŜè ℕŜLJ2ℕűΣ I·ŘŘλûλ2yI·f ŭŜăűλyƎ λă ySŜŘŜŘ ŭ2 ØŜℕλ₮è ûKŜ ŎŜϒŜűŜℕèΩă ă2ʤzűKŜℕy ō2ʤzyŘI·ℕèφ ¢KŜ {Ith Ŏ2yŎʤzℕℕŜŘ øλűK {9!w/IΩă ℕŜŎ2ϒYŜyŘI·ûλ2y ûKI·ŭ áűKŜ I·ℕŜI· ōŜ ădzō?ŜŎű ŭ2 I·ℕŎKI·Ŝ2f2ƎλŎI·f Y2yλű2ℕλyƎ ŘdzℕλyƎ ƎℕʤzyŘ-ŘλăűdzℕōλyƎ I·ŎűλØλűλŜăΣ λyŎfʤzŘλyƎ I·y I·LJLJℕ2LJℕλI·ŭŜ ōI·ℕℕλŜℕ 2ℕ Y I·ℕ]ŜℕŜℕØŜűŜŘ I·ℕ2ʤzyŘ ûKŜ ō2ʤzyŘI·ℕè 2₮ ûKŜ ŎŜϒŜűŜℕè ŭ2 KŜfLJ I·Ø2λŘ λy1·ŘØŜℕůŜyű λYLJI·Ŏűă ωŘdzℕλyƎ Ŏ2yãúℕdzŎűλ2yφε {9!w/I I·ŘØλăŜă I·Ø2λŘI·yŎŜ 2₮ ûKŜ ℕŜŎ2ϒYŜyŘŜŘ ō2ʤzyŘI·ℕè ₮2ℕ ythлмрмф I·ă ŘŜ₮λyŜŘ λy **Figure 6** ŭ2 I·Ø2λŘ LJ2ŭŜyűλI·f λyØ2fØŜϒŜyű øλűK dzYI·ℕ]ŜŘ KdzYI·y ℕŜϒI·λyãφ {K2dzfŘ ûKŜ н!-м w2I·Řø I·è !fλƎyϒŜyű !fűŜℕyϒ·ûλØŜ ōŜ ăŜfŜŎűŜŘ ₮2ℕ Ŏ2yãúℕdzŎűλ2yΣ I·yŘ λű λă y2ű LJ2ăăλōfŜ ŭ2 I·Ø2λŘ ythлмрмфΣ I·ƎŜyŎè Ŏ2yãdzfűI·ûλ2y øλff ōŜ ℕŜIjdzℕℕŜŘ ŭ2 I·ŘŘℕŜăă LJℕ2?ŜŎű-ℕŜfI·ûŜŘ Ŝ₮₮ŜŎűăφ

POINCIANA PARKWAY EXTENSION/I-4 CONNECTOR STUDY AREA—UNRECORDED RESOURCES

C2ℕ úℕI·yãLJ2ℕűI·ûλ2y LJℕ2?ŜŎűăΣ λű λă ûèLJλŎI·f ŭ2 dzăŜ I· πp-èŜI·ℕ Ŏdzű-2₮₮ óŜφƎφΣ áăúℕdzŎűdzℕŜă Ŏ2yãúℕdzŎűŜŘ LJℕλ2ℕ ŭ2 мфтоєú ₮2ℕ ûKŜ I·ℕŎKλûŜŎűdzℕI·f Kλăű2ℕè ădzℕØŜè λy 2ℕŘŜℕ ŭ2 ƎλØŜ ûKŜ /w!{ Ř2ŎdzϒŜyű I·₮λØŜ-èŜI·ℕ áăKŜf₮ fλ₮Ŝφε ¢Kλă λă ûKŜ ăűI·yŘI·ℕŘ ₮2ℕ úℕI·yãLJ2ℕűI·ûλ2y LJℕ2?ŜŎűă λy Cf2ℕλŘI· øKŜℕŜ Ŏ2yãúℕdzŎűλ2y λă y2ű I·yűλŎλLJI·ûŜŘ ŘdzℕλyƎ ûKŜ ăI·ϒŜ èŜI·ℕ I·ă ûKŜ Ŏ2ϒLJfŜűλ2y 2₮ ûKŜ /w!{φ ¢Kλă ℕI·ûλ2yI·fŜ I·yŘ I·LJLJℕ2I·ŎK λă I·ŎŎŜLJűŜŘ ōè {Ithφ

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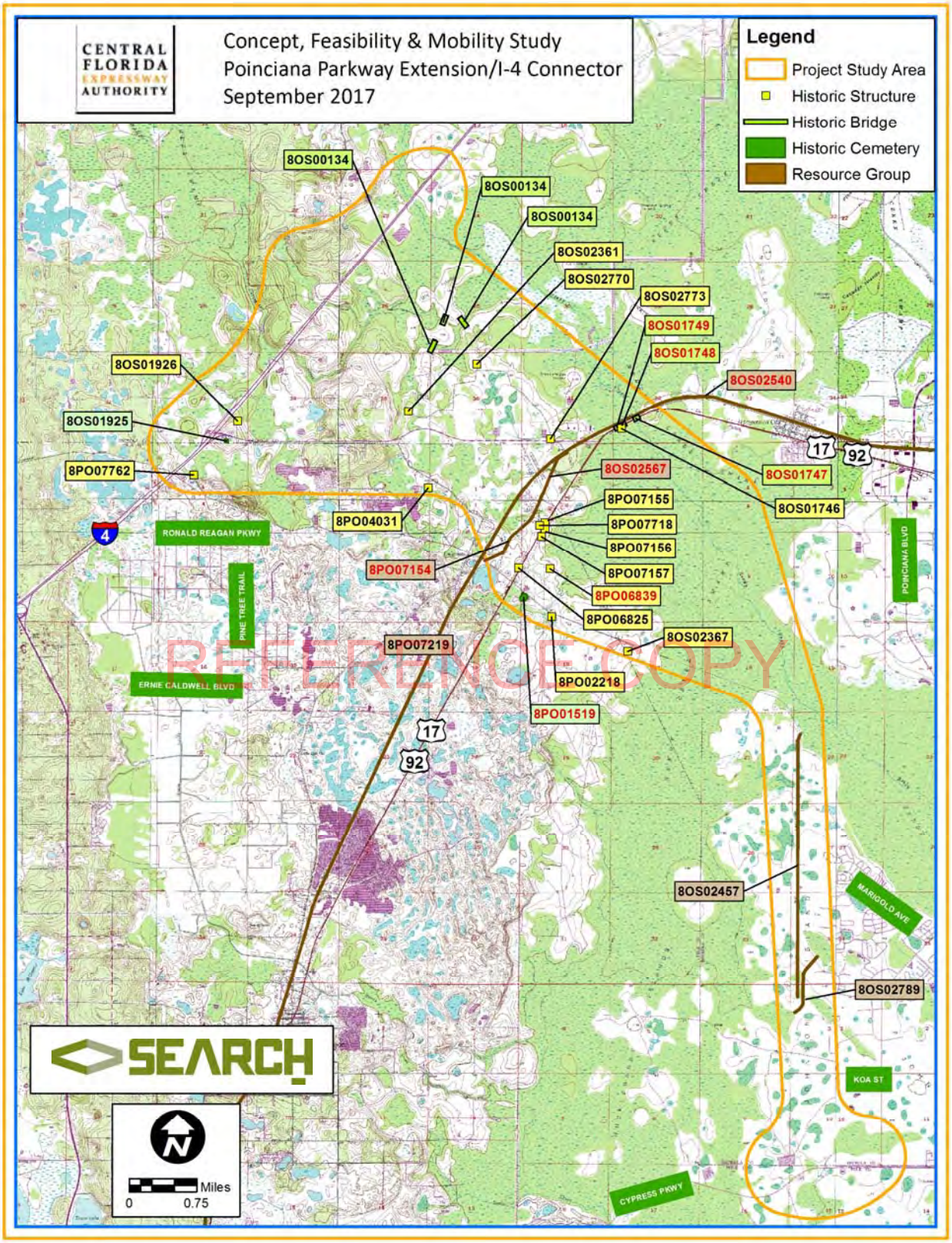

Figure 4. Previously recorded historic resources within the Poinciana Parkway Extension/I-4 Connector Study Area. Note: Red text labels indicate the resource is eligible for NRHP listing or needs evaluation by SHPO. Source: FMSF (7/2017); SEARCH (12/2016); KHA (2017).

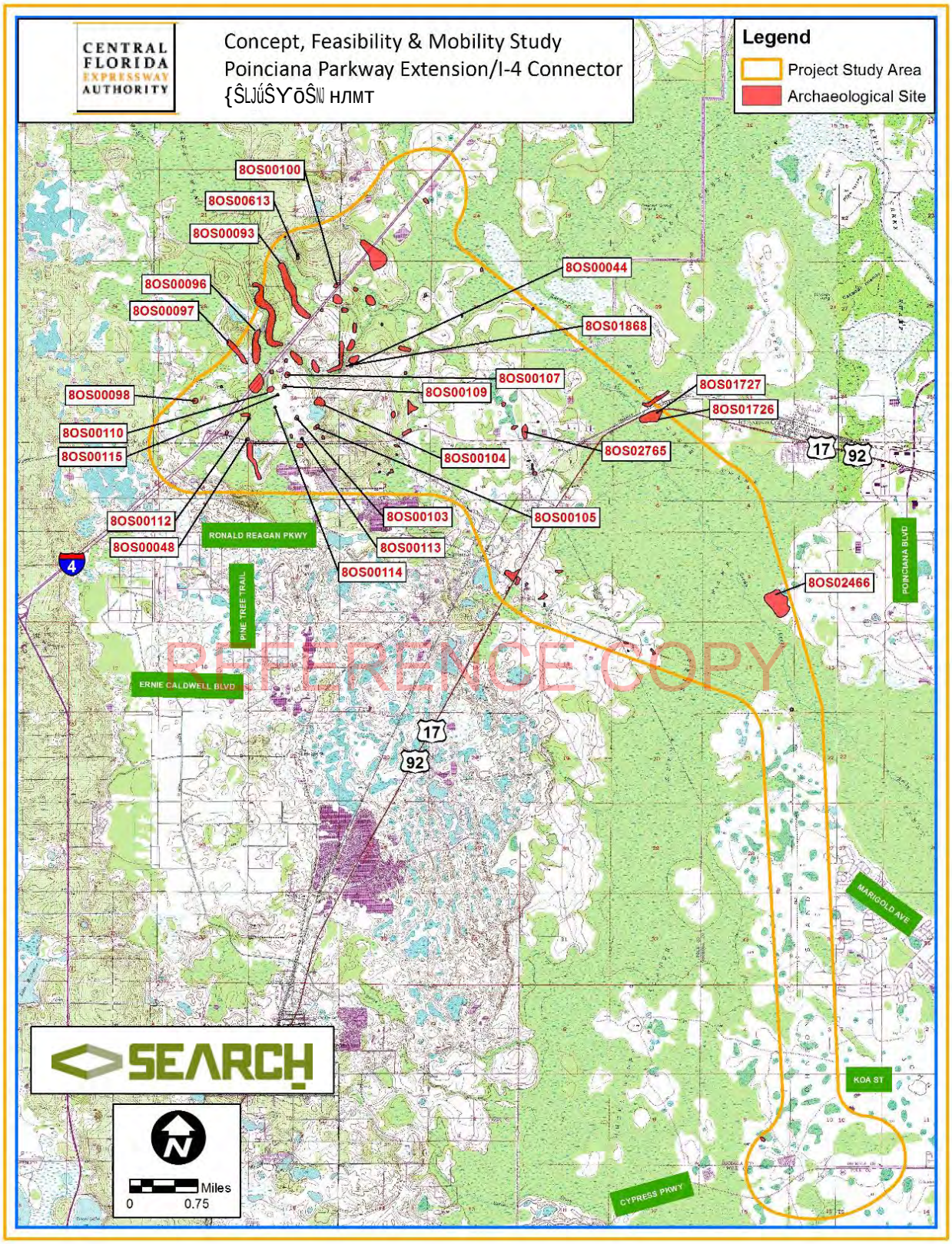

Figure 5. Previously recorded archaeological sites within the Poinciana Parkway Extension/I-4 Connector Study Area. Note: A label indicates a site is eligible for NRHP listing or needs evaluation by SHPO; Unlabeled sites are ineligible for NRHP. Source: FMSF (7/2017); KHA (2017).

Figure 6. Kinney Harmon Road Cemetery (8PO01519) boundary and recommended boundary in relation to the Poinciana Parkway Extension/I-4 Connector Alternative 2A-1.
Source: FMSF (7/2017); SEARCH (12/2016-3/2017); KHA (2017).

wŜØλŜø 2ŦűKŜ hăÖŜ2fl· l·yŘ t2f] /2dzyűλŜă tNJ2LJŜNJűè !LJLJNJl·λăŜNJΩă DL{ Řl·űl·ōl·äŜ λyŘλÖl·ûŜă ûKŜNJŜ l·NJŜ cп LJl·NJÖŜfă Ö2yűl·λyλyƎ l·û fŜl·äű 2yŜ Kλăű2NJλÖ óLJNJŜ-мфтоú ōdzλfŘλyƎ ǿλűKλy ûKŜ ÖdzNJNJŜyű {ûdzŘè !NJŜl· ûKl·û Kl·ØŜ y2ű ōŜŜy LJNJŜØλ2dzătê NJŜÖ2NJŘŜŘ ǿλűK ûKŜ Ca{C¢ ² λűKλy hăÖŜ2fl· /2dzyűèΣ ûKŜNJŜ l·NJŜ мо LJl·NJÖŜfă ǿλűK Kλăű2NJλÖ l·ƎŜ äűNJdzÖűdzNJŜă l·yŘ рм ły t2f] /2dzyűê ¢KŜ LJNJ2LJŜNJûè ûèLJŜă l·NJŜ Yl·λyfê ŘŜäÖNJλôŜŘ l·ä äλyƎfŜ-Ŧl·YλfèΣ Ydzfűλ-Ŧl·YλfèΣ l·yŘ Y2ōλfŜ K2YŜă ōdzű ûKŜNJŜ λă l·fă2 2yŜ LJl·NJÖŜf 2Ŧ άäű2NJŜäέ l·yŘ ű2 LJl·NJÖŜfă 2Ŧ άƎNJl·Îλy fl·yŘ¢έ **Figure 7** ăK2ǿă ûKŜ f2Ől·ûλ2y 2Ŧ LJl·NJÖŜfă ǿλűK 2yŜ 2NJ Y2NJŜ dzyNJŜÖ2NJŘŜŘ Kλăű2NJλÖ ăűNJdzÖűdzNJŜă ǿλűKλy ûKŜ t2λyÖλl·yl· tl·NJ]ǿl·è 9ÈűŜyãλ2yκL-п /2yÿŜÖû2NJ {ûdzŘè !NJŜl·¢

wŜØλŜø 2Ŧ Kλăű2NJλÖ ¦{ DŜ2f2ƎλÖ {dzNJØŜè ó¦{D{ú Kλăű2NJλÖ l·ŜNJλl·f LJK2ű2ƎNJl·LJKă ŦN2Y мфрл ăK2ǿ ûKl·û ûKŜ {ûdzŘè !NJŜl· ǿl·ă NJŜfl·ûλØŜfè dzyŘŜØŜf2LJŜŘ l·û ûKl·û ûλYŜ ó**Figure 8**ú¢ ¦{ мт-фн λă ÖfŜl·Nfè LJNJŜăŜyű ōλăŜÖûλyƎ ûKŜ {ûdzŘè !NJŜl· ǿλűK ûKŜ Kλăű2NJλÖ NJl·λfN2l·Ř fλyŜ NJdzyyλyƎ yŜl·Nfè LJl·NJl·ffŜf û2 λû¢ !fă2 ŜØλŘŜyű l·NJŜ [l·]Ŝ ² λfă2y w2l·Ř l·yŘ hăÖŜ2fl· t2f] [λyŜ w2l·Ř¢ ¢KŜNJŜ l·NJŜ ÖfŜl·NJŜŘ l·NJŜl·ă ōdzű y2 Yl·ƨ2N l·NJŜl·ă 2Ŧ Ö2YYŜNJÖλl·f 2N NJŜăλŘŜyűλl·f ŘŜØŜf2LJYŜyú¢ l λăű2NJλÖ ¦{D{ ljdzl·ŘNJl·yƎfŜ Yl·LJă ŦN2Y ûKŜ Ŝl·Nfè мфтлă ŘŜLJλÖű l·û fŜl·äű фр LJ2ûŜyűλl·f Kλăű2NJλÖ NJŜă2dzNJÖŜă ó**Figure 9**úΣ λyÖfdzŘλyƎ 2yŜ ÖKdzNJÖKΣ ûKl·û Kl·ØŜ y2ű ōŜŜy LJNJŜØλ2dzătê NJŜÖ2NJŘŜŘ l·yŘ Ŧl·ff 2dzűăλŘŜ ûKŜ LJl·NJÖŜfă ŘλăÖdzăăŜŘ l·ō2ØŜ¢ !ŘŘλûλ2yl·ffèΣ ûKŜNJŜ λă l·y l·NJŜl· 2Ŧ dzyNJŜÖ2NJŘŜŘ fλyŜl·NJ NJŜă2dzNJÖŜ óNJl·λf N2l·Ř ƎNJl·ŘŜú ûKl·û ŜÈűŜyŘă ûKŜ LJNJŜØλ2dzătê NJŜÖ2NJŘŜŘ ¢NJl·Y DNJl·ŘŜ {λűŜ óyh{лнпртú¢ ¢KŜNJŜ l·NJŜ l·fă2 LJl·ØŜŘ N2l·Ră l·yŘ dzyλYLJN2ØŜŘ N2l·Ră ăK2ǿy2yűKŜ Kλăű2NJλÖ ljdzl·ŘNJl·yƎfŜ Yl·LJă ûKl·û Yl·è ySŜŘ ŦdzNJûKŜNJ λyØŜăűλƎl·ûλ2y¢

Table 2 LJNJ2ØλŘŜă l· fλăű 2Ŧ ûKŜ yűzYōŜN 2Ŧ LJ2ûŜyűλl·f Kλăű2NJλÖ NJŜă2dzNJÖŜă ûKl·û l·NJŜ dzyNJŜÖ2NJŘŜŘ ǿλűKλy ûKŜ LJNJ2LJ2ăŜŘ N2l·Řǿl·è l·yŘ λyűŜNJÖKl·yƎŜ l·fλƎyYŜyű l·fûŜNJyl·ûλØŜă¢

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Table 2. Unrecorded Cultural Resources Intersecting the Roadway and Interchange Alignment Alternatives.

Alternative Name	County Property Appraiser Historic-Age Parcels	Other Potential Historic Resources	Total Unrecorded Resources
!fûŜNJyl·ûλØŜ н!-м	мл	п	мп
!fûŜNJyl·ûλØŜ н!-н	п	с	мл
!fûŜNJyl·ûλØŜ н!-о	мр	у	но
!fûŜNJyl·ûλØŜ н!-п	о	о	с
!fûŜNJyl·ûλØŜ н!-р	с	с	мн
!fûŜNJyl·ûλØŜ о-н	р	р	мл
!fûŜNJyl·ûλØŜ о-р	р	н	т
!fûŜNJyl·ûλØŜ о!-о	мн	ф	нм
!fûŜNJyl·ûλØŜ о!-р	р	н	т
LyűŜNJÖKl·yƎŜ пнф !fű о	н	м	о
LyűŜNJÖKl·yƎŜ пнф !fű р	н	м	о
LyűŜNJÖKl·yƎŜ рон !fű м!	л	л	л
LyűŜNJÖKl·yƎŜ рон !fű о	л	л	л

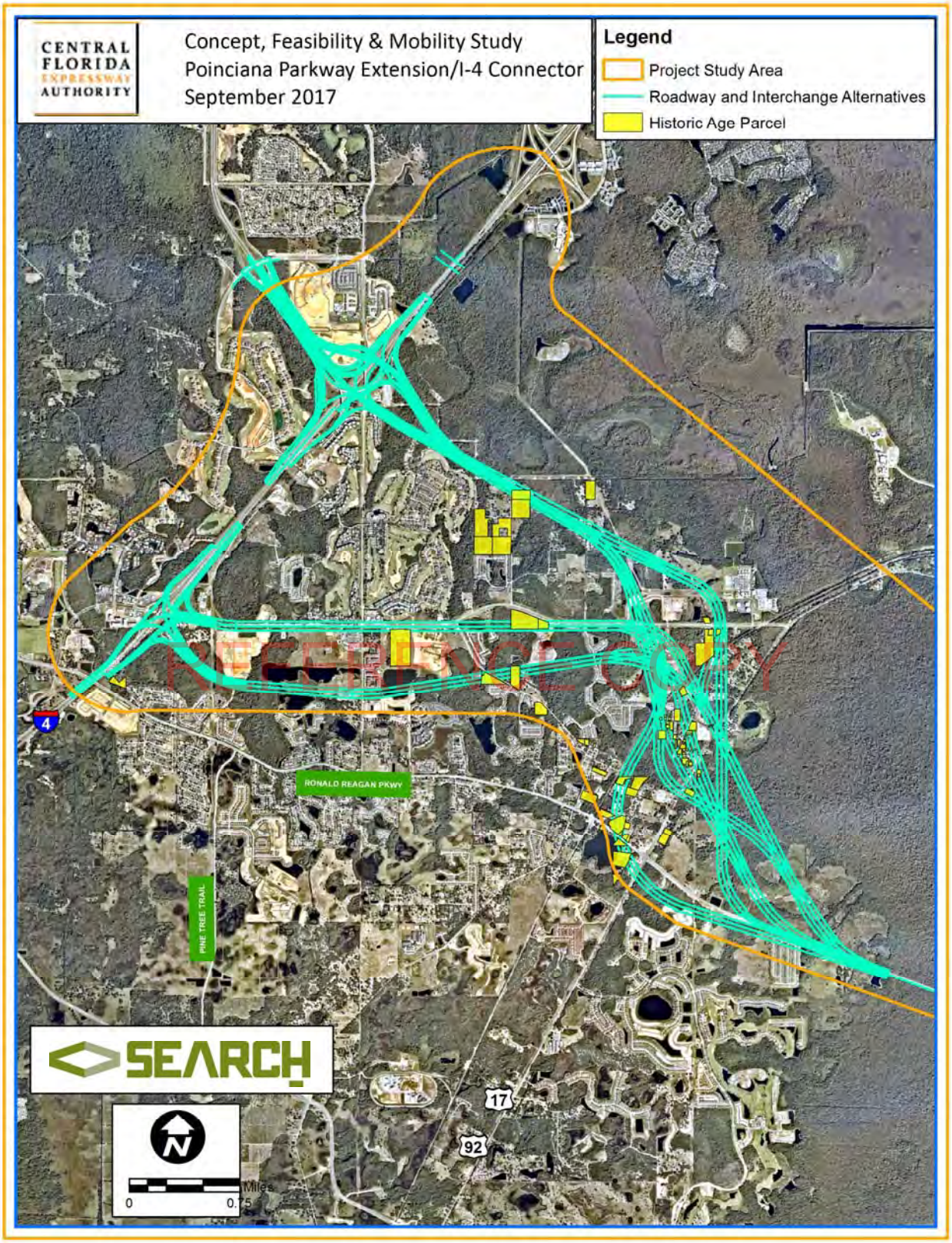

Figure 7. Historic age parcels shown in yellow that have not been previously recorded within the Poinciana Parkway Extension/I-4 Connector Roadways and Interchange Alignment Alternatives shown in aqua. Source: Osceola and Polk Counties Property Appraiser GIS Website (2014); KHA (2017).

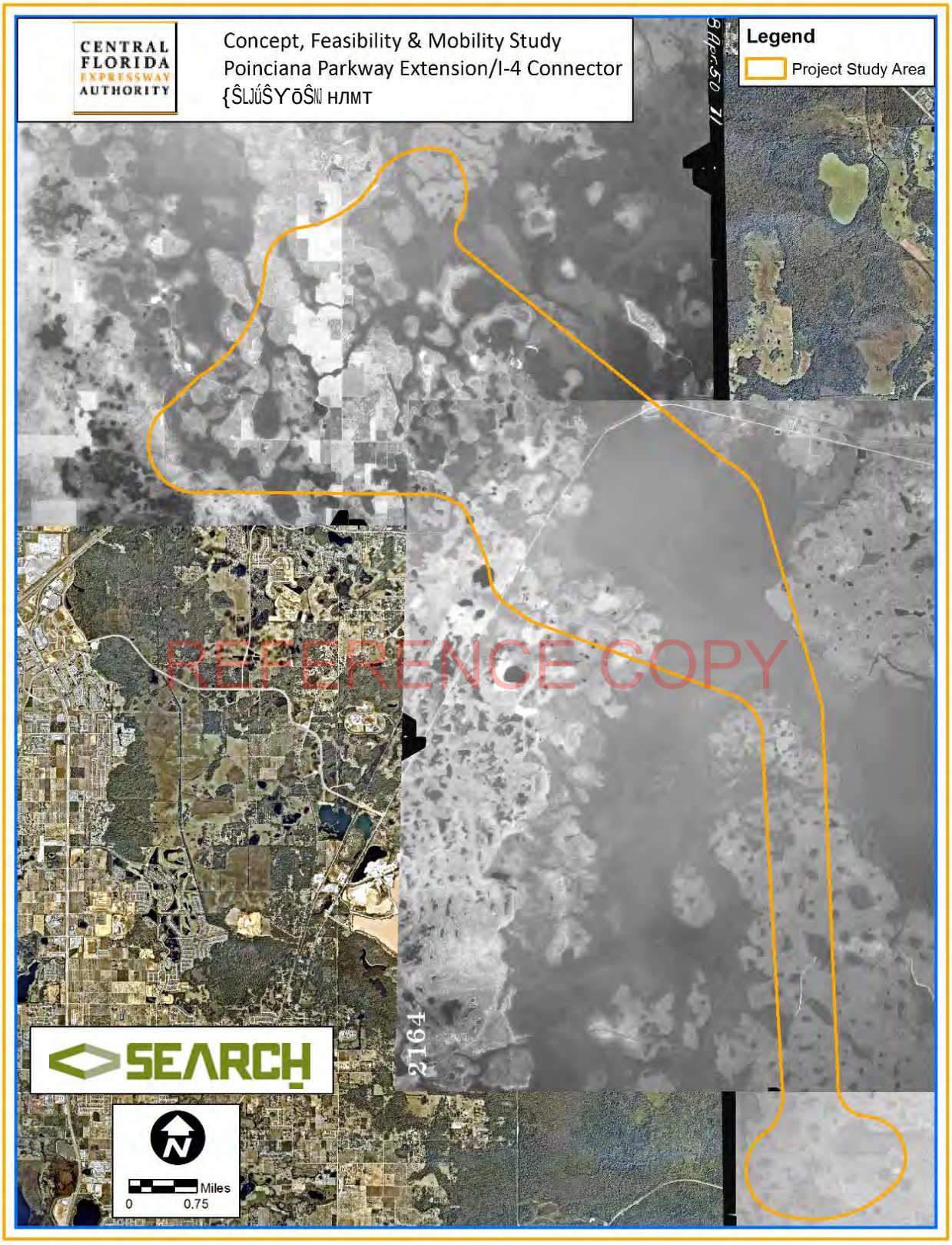

Figure 8. Aerial photographs from 1950 with Poinciana Parkway Extension/I-4 Connector Study Area in orange. Source: USGS (1950); KHA (2017).

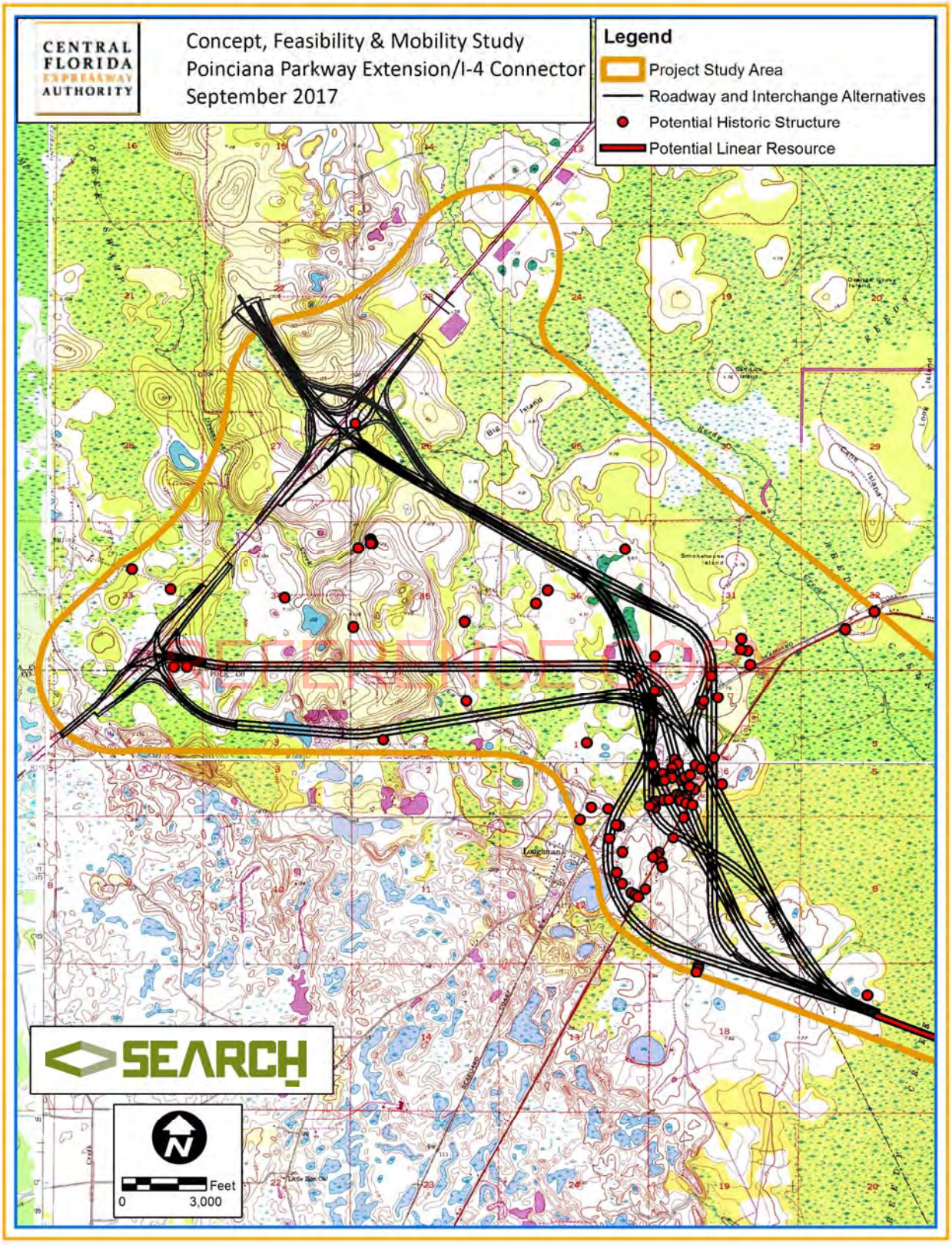

Figure 9. USGS quadrangle maps from the early 1970s with Poinciana Parkway Extension/I-4 Connector Roadways and Interchange Alignment Alternatives in black and potentially unrecorded resources in red. Source: USGS (1972, 1973); KHA (2017).

POINCIANA PARKWAY EXTENSION/I-4 CONNECTOR STUDY AREA — EVALUATION OF SOIL DRAINAGE

Table 3. Soil Drainage within the Poinciana Parkway Extension/I-4 Connector Study Area.

Soil Drainage	Acres	Percentage
9ĚŎŜăăλØŜfè ŘNJI·λγŜŘ	нΣотфφр	мрφл
² Ŝff ŘNJI·λγŜŘ	уфφн	лφс
a 2ŘŜNJI·ûŜfè ǿŜff ŘNJI·λγŜŘ	пΣоумφл	нтφт
{2ϒŜǿKI·ú LJ22NfèŘNJI·λγŜŘ	трнφо	пφу
t22NfèŘNJI·λγŜŘ	пΣтнсφн	нφφф
±ŜNJè LJ22NfèŘNJI·λγŜŘ	оΣорнφн	нмφн
² I·ûŜN	моφφо	лφф

! ØI·NJλŜûè 2Ŧ ă2λf ŘNJI·λγ1·ƎŜă I·NJŜ Ŧ2dzγŘ ǿλűKλϒ ûKŜ t2λγŎλI·γ1· tI·NJ⌊ǿI·è 9ĚűŜγãλ2γkL-п /2ÝγŜŎúźNJ {űdzŘè !NJŜI· óTable 3; Figure 10úφ ¢ĸŜ LJ2NJúλ2γã 2Ŧ ûĸŜ LJNJ2ΣŜŎű {űdzŘè !NJŜI· ǿλűK ŜĚŎŜăăλØŜfè ŘNJI·λγŜŘ ű2 ǿŜff ŘNJI·λγŜŘ ă2λfă I·NJŜ ƎŜγŜNJI·ffè Ŏ2γãλŘŜNJŜŘ ű2 KI·ØŜ I· KλƎK LJNJ2ōI·ōλfλűè 2Ŧ ŜγŎ2dzγűŜNJλγƎ λγűI·ŎűKλăú2NJλŎ 2NJ LJNJŜKλăú2NJλŎ I·NJŎKI·Ŝ2f2ƎλŎI·f ŘŜLJ2ăλûãΣ ǿKλfŜ ûĸŜ LJNJ2ōI·ōλfλűè λă Y2ŘŜNJI·ûŜ Ŧ2NJ Y2ŘŜNJI·ûŜfè ǿŜff ŘNJI·λγŜŘ ű2 ă2YŜǿKI·ú LJ22NfèŘNJI·λγŜŘ ă2λfãΣ I·yŘ f2ǿ Ŧ2NJ ûĸŜ NJŜYI·λγŘŜNJ 2Ŧ ûĸŜ {űdzŘè !NJŜI·φ I2ǿŜØŜNJΣ ãŜØŜNJI·f ŜγØλNJ2γYŜγűI·f ØI·NJλI·ōfŜă λγ I·ŘŘλûλ2γ ű2 ă2λf ŘNJI·λγ1·ƎΣ λγŎfdzŘλγƎ I·ŎŎŜăă ű2 ǿŜűfI·yŘă I·yŘ ŦNJŜăKǿI·ûŜNJ NJŜă2dzNJŎŜă I·yŘ NJŜfI·ûλØŜ ŜfŜØI·ûλ2yΣ I·ă ǿŜff I·ă ûĸŜ NJŜădzfûă 2Ŧ LJNJŜØλ2dzăfè Ŏ2γŘdzŎűŜŘ ădzNJØŜèăΣ KŜfLJ ŘŜűŜNJYλγŜ ûĸŜ LJ2ûŜγűλI·f Ŧ2NJ LJNJŜKλăú2NJλŎ I·NJŎKI·Ŝ2f2ƎλŎI·f ăλűŜă ű2 ōŜ LJNJŜăŜγű ǿλűKλϒ ûĸŜ LJNJ2ΣŜŎű I·NJŜI·φ t22NfèŘNJI·λγŜŘ ă2λfă I·NJŜ y2ű λŘŜI·f Ŧ2NJ LJNJŜKλăú2NJλŎ KI·ōλűI·ûλ2yΣ ǿKλfŜ ǿŜff ŘNJI·λγŜŘ ă2λfă λγLJNJ2ÈλYλûè ű2 I· yI·ØλƎI·ōfŜ ǿI·ûŜNJ ăèăúŜY YI·è NJŜLJNJŜăŜγű λŘŜI·f Ŏ2γŘλûλ2γã Ŧ2NJ LJNJŜKλăú2NJλŎ I·ŎűλØλûλŜăφ hγŎŜ I· NJŜŎ2YYŜγŘŜŘ I·fλƎγYŜγű I·yŘ λγűŜNJŎKI·γƎŜ I·NJŜ ăŜtŜŎűŜŘΣ I·NJŎKI·Ŝ2f2ƎλŎI·f LJNJ2ōI·ōλfλűè ŎI·γōŜ ŘŜűŜNJYλγŜŘ Ŧ2NJ I·NJŜI·ă 2Ŧ LJNJ2LJ2ăŜŘ ƎNJ2dzγŘ-ŘλăűdzNJōλγƎ I·ŎűλØλűè φ

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RECOMMENDATIONS

! YI·úNJλÈ ădzYYI·NJλÎλγƎ ûĸŜ LJ2ûŜγűλI·f ŎdztűdzNJI·f NJŜă2dzNJŎŜă λγØ2fØŜYŜγű Ŧ2NJ ŜI·ŎK 2Ŧ ûĸŜ LJNJ2LJ2ăŜŘ NJ2I·Řǿl·è I·γŘ λγűŜNJŎKI·γƎŜ I·fλƎγYŜγű I·fűŜNJγ1·ûλØŜă λă LJNJ2ØλŘŜŘ λγ**Table 4.**

Table 4. Poinciana Parkway Extension Alternatives Cultural Resources Matrix.

Alignment Name	Archaeological Sites (eligible or unevaluated)	Historic Resources (eligible or unevaluated)	Other Unrecorded Historic Resources
! fűŜNJγ1·ûλØŜ н ! -м	л	н óλγŎfdzŘλγƎ ŎŜYŜűŜNJèú	мп
! fűŜNJγ1·ûλØŜ н ! -н	л	м	мл
! fűŜNJγ1·ûλØŜ н ! -о	л	м	но
! fűŜNJγ1·ûλØŜ н ! -п	л	н	с
! fűŜNJγ1·ûλØŜ н ! -р	л	н	мн
! fűŜNJγ1·ûλØŜ о-н	м	м	мл
! fűŜNJγ1·ûλØŜ о-р	м	н	т
! fűŜNJγ1·ûλØŜ о ! -о	л	м	нм
! fűŜNJγ1·ûλØŜ о ! -р	л	о	т
LγűŜNJŎKI·γƎŜ пнф ! fű о	о	л	о
LγűŜNJŎKI·γƎŜ пнф ! fű р	о	л	о
LγűŜNJŎKI·γƎŜ рон ! fű м !	м	л	л
LγűŜNJŎKI·γƎŜ рон ! fű о	л	л	л

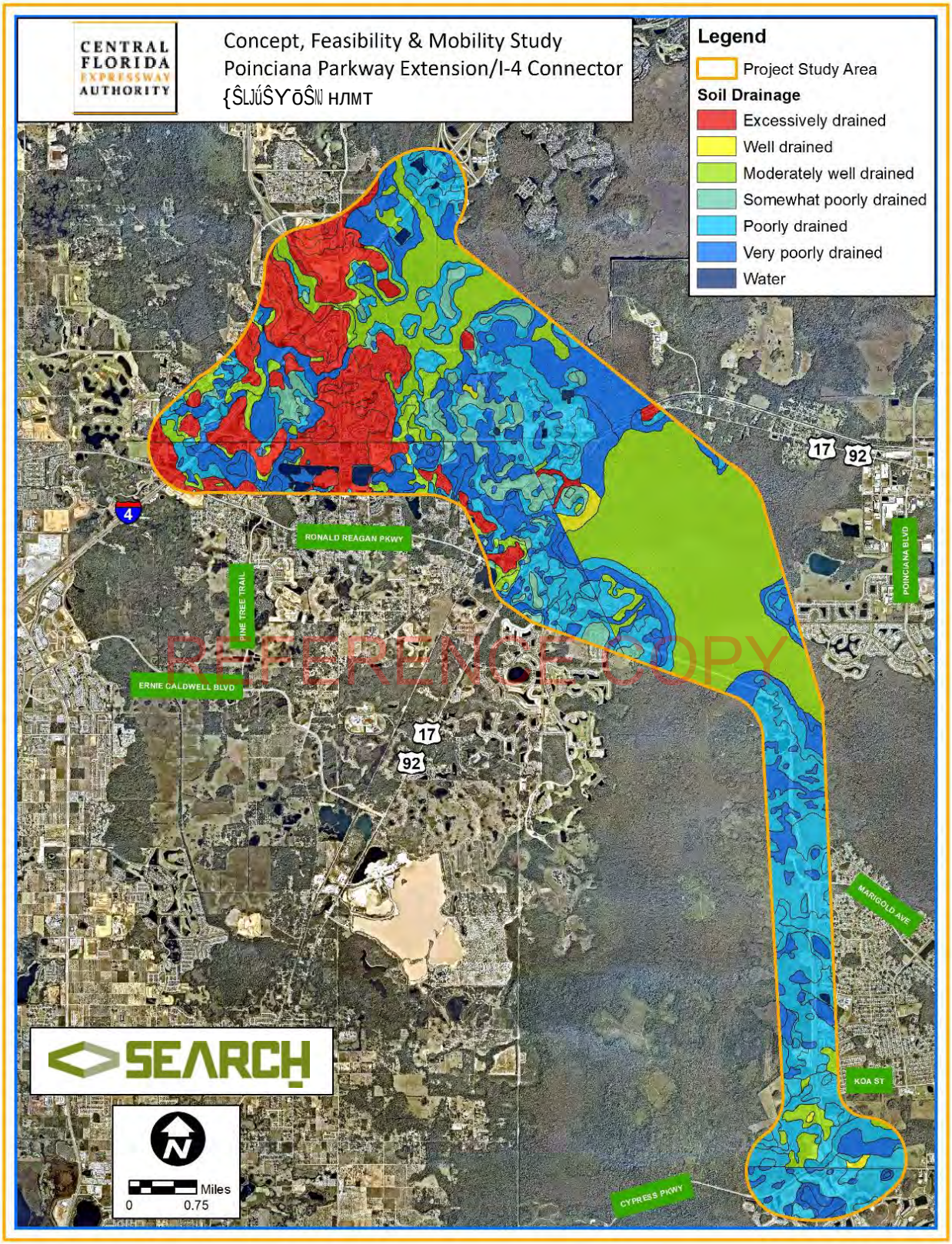

Figure 10. Soil drainage within the Poinciana Parkway Extension/I-4 Connector Study Area. Source: NRCS (2010); KHA (2017).

hyŏŜ l· ₪ŜŏƨYϒŜyŘŜŘ ₪ƨl·Řøl·è l·yŘ ƛyűŜ₪ŏKl·yƎŜ l·fŧƎyϒŜyű Kl·ă ōŜŜy ăŜfŠŏűŜŘΣ l·y !₪Ŝl· 2ŦtƨűŜyűŧl·f 9ŦŦŜŏű ó!t9ú ăK2dztŘ ōŜ ŘŜŦƛyŜŘ øƛűKƛy øKƛŏK LJ₪2ƨŜŏű-₪ŜfI·űŜŘ ŜŦŦŜŏűă ű2 ăŧƎyŧŦƛŏl·yű ŏdztűdz₪l·f ₪Ŝă2dz₪ŏŜă øƛft ōŜ l·ăăŜăăŜŘΦ ¢KŜ !t9 ăK2dztŘ ōŜ ădzōƨŜŏűŜŘ ű2 l· ŏdztűdz₪l·f ₪Ŝă2dz₪ŏŜ l·ăăŜăăYŜyű ădz₪ØŜè ó/w!{úΣ ƛyŏfdzŘƛyƎ ō2űK l·₪ŏKl·Ŝ2f2ƎƛŏIf l·yŘ l·₪ŏKƛűŜŏűdz₪l·f Kƛăű2₪è ŦƛŜfŘø2₪ʅΦ ¢KŜ /w!{ ₪ŜLJ2₪ůΣ øƛűK ₪Ŝljdzƛ₪ŜŘ Ca{C Ř2ŏdzYŜyűl·ûƛ2yΣ ăK2dztŘ ōŜ LJ₪2ØƛŘŜŘ ű2 űKŜ {lth Ŧ2₪ Ŏ2yŏdz₪₪ŜyŏŜ 2y l·ff ŏdztűdz₪l·f ₪Ŝă2dz₪ŏŜ ₪ŜŏƨYϒŜyŘl·ûƛ2yãΦ

¢KŜ l·₪ŏKl·Ŝ2f2ƎƛŏIf !t9 Ŧ2₪ űKŜ LJ₪2ƨŜŏű ăK2dztŘ ōŜ ŘŜŦƛyŜŘ l·ă űKŜ ŜÈƛăűƛyƎ l·yŘ LJ₪2LJ2ăŜŘ ₪ƛƎKű-2Ŧ-øl·è øƛűKƛy øKƛŏK Ŏ2yãű₪dzŏűƛ2y øƛft ûl·ʅŜ LJtl·ŏŜΦ !₪ŏKl·Ŝ2f2ƎƛŏIf ăƛûŜă ƛŘŜyűƛŦƛŜŘ øƛűKƛy ûKŜ LJ₪2ƨŜŏű !t9 űKl·ű l·₪Ŝ ŘŜűŜ₪YƛyŜŘ ŜfƛƎƛōfŜ Ŧ2₪ bwlt fƛăűƛyƎ ōè űKŜ {lth øƛft ₪Ŝljdzƛ₪Ŝ y2 ŦdzN₪KŜ₪ Ŏ2yãƛŘŜ₪l·ûƛ2yΦ {ƛűŜă űKl·ű l·₪Ŝ ŘŜűŜ₪YƛyŜŘ ŜfƛƎƛōfŜ Ŧ2₪ bwlt ōè űKŜ {lth øƛft ōŜ ădzō?ŜŏűŜ ű2 l·y ŜŦŦŜŏűă ŜØl·fdzl·ûƛ2y ű2 ŘŜűŜ₪YƛyŜ LJ₪2ƨŜŏű-₪ŜfI·űŜŘ ŜŦŦŜŏűăΦ !Ø2ƛŘl·yŏŜ 2₪ YƛyƛYƛÎl·ûƛ2y 2Ŧ ŜŦŦŜŏűă ăK2dztŘ ōŜ Ŏ2yãƛŘŜ₪ŜŘΦ LŦ l·ŘØŜ₪ăŜ ŜŦŦŜŏűă Ŏl·yy2ű ōŜ l·Ø2ƛŘŜŘΣ Ŏ2yãdztűl·ûƛ2y øƛűK ûKŜ {lth øƛft ōŜ ₪Ŝljdzƛ₪ŜŘ ű2 ŘŜØŜf2LJ ădzƛűl·ōfŜ YƛûƛƎl·ûƛ2yΣ Yϒ2ăű fƛʅŜfè ûK₪2dzƎK l·ŘŘƛûƛ2yl·f ŜÈŏl·Øl·ûƛ2yΦ

¢KŜ l·₪ŏKƛűŜŏűdz₪l·f !t9 ăK2dztŘ ōŜ ŘŜŦƛyŜŘ ű2 ƛyŏfdzŘŜ ûKŜ ŜÈƛăűƛyƎ l·yŘ LJ₪2LJ2ăŜŘ ₪ƛƎKű-2Ŧ-øl·è ƛy l·ŘŘƛûƛ2y ű2 l·y l·LJLJ₪2LJ₪ƛl·ûŜ ōdzŦŦŜ₪Σ øKƛŏK Yl·è Øl·₪è ƛy l·₪Sl·ă ŘŜLJŜyŘƛyƎ 2y øKŜűKŜ₪ ûKŜ ƛYLJ₪2ØŜYŜyűă ƛyØ2fØŜ yŜó ₪2l·Řøl·è l·fƎyϒŜyű 2₪ ŜÈLJl·yãƛ2y 2Ŧ l·y ŜÈƛăűƛyƎ ₪2l·Řøl·è Ŏ2₪₪ƛŘ2₪Φ lƛăű2₪ƛŎ ₪Ŝă2dz₪ŏŜă ƛŘŜyűƛŦƛŜŘ øƛűKƛy ûKŜ LJ₪2ƨŜŏű !t9 ûKl·ű l·₪Ŝ ŘŜűŜ₪YƛyŜŘ ƛyŜfƛƎƛōfŜ Ŧ2₪ bwlt fƛăűƛyƎ ōè űKŜ {lth øƛft ₪Ŝljdzƛ₪Ŝ y2 ŦdzN₪KŜ₪ Ŏ2yãƛŘŜ₪l·ûƛ2yΦ wŜă2dz₪ŏŜă ûKl·ű l·₪Ŝ ŘŜűŜ₪YƛyŜŘ ŜfƛƎƛōfŜ Ŧ2₪ bwlt ōè űKŜ {lth øƛft ōŜ ădzō?ŜŏűŜ ű2 l·y ŜŦŦŜŏűă ŜØl·fdzl·ûƛ2y ű2 ŘŜűŜ₪YƛyŜ øKŜűKŜ₪ ûKŜ LJ₪2ƨŜŏű øƛft Kl·ØŜ ŘƛŜ₪ŜŏűΣ 2₪ ƛyŘƛŜ₪ŜŏűΣ ŜŦŦŜŏűă 2y ûKŜ ₪Ŝă2dz₪ŏŜ l·yŘΣ ƛŦ ă2Σ øKŜűKŜ₪ ûK2ăŜ ŜŦŦŜŏűă l·₪Ŝ l·ŘØŜ₪ăŜΦ LŦ l·ƎŜyŏè Ŏ2yãdztűl·ûƛ2y ŦƛyŘă ûKl·ű ûKŜ LJ₪2ƨŜŏű øƛft Kl·ØŜ l·y l·ŘØŜ₪ăŜ ŜŦŦŜŏű 2y 2yŜ 2₪ Yϒ2₪Ŝ ŜfƛƎƛōfŜ Kƛăű2₪ƛŎ ₪Ŝă2dz₪ŏŜăΣ l·Ø2ƛŘl·yŏŜ l·yŘκ2₪ YƛyƛYƛÎl·ûƛ2y 2Ŧ ŜŦŦŜŏűă ăK2dztŘ ōŜ Ŏ2yãƛŘŜ₪ŜŘΦ LŦ l·ŘØŜ₪ăŜ ŜŦŦŜŏűă Ŏl·yy2ű ōŜ l·Ø2ƛŘŜŘΣ Ŏ2yãdztűl·ûƛ2y øƛűK {lth øƛft ōŜ ₪Ŝljdzƛ₪ŜŘ ű2 ŘŜØŜf2LJ ădzƛűl·ōfŜ YƛûƛƎl·ûƛ2yΣ Yϒ2ăű fƛʅŜfè ûK2dzƎK lƛăű2₪ƛŎ !YŜ₪ƛŎl·y .dzƛfŘƛyƎ {dz₪ØŜèă ólΣ.{úΣ lƛăű2₪ƛŎ !YŜ₪ƛŎl·y 9yƎƛySŜ₪ƛyƎ wŜŎ2₪ŘóI!9wúΣ 2₪ 2ûKŜ₪ Ŧ2₪Yă 2Ŧ Ř2ŏdzYŜyűl·ûƛ2yΦ

² ƛűK ₪ŜƎl·₪Ř ű2 bwlt-ŜfƛƎƛōfŜ Kƛăű2₪ƛŎ fƛySl·₪ ₪Ŝă2dz₪ŏŜăΣ dzyfŜăă ûKŜ LJ₪2ƨŜŏű ø2dzfŘ Ŏdzű 2ŦŦΣ ₪Ŝ₪2dzűŜΣ 2₪ 2űKŜ₪øƛăŜ YƛûŜ₪ƛŦfè ƛfűŜ₪ ûKŜ ₪Ŝă2dz₪ŏŜ ƛűăŜfŦ 2₪ ƛűă Ŧdzyŏűƛ2yΣ ûKŜ LJ₪2ƨŜŏű ƛă dzyfʅŜfè ű2 Kl·ØŜ l·y l·ŘØŜ₪ăŜ ŜŦŦŜŏűΦ hØŜ₪LJl·ăăƛyƎ ŜfƛƎƛōfŜ ₪l·ƛf₪2l·Řă l·yŘ Ŏl·yl·făΣ Ŧ2₪ ƛyăűl·yŏŜΣ ƛă ƎŜySŜ₪l·ffè Ŏ2yãƛŘŜ₪ŜŘ ű2 Kl·ØŜ y2 l·ŘØŜ₪ăŜ ŜŦŦŜŏűΦ

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¦{ 5ŜLJl·ℕΰΥŜyΰ 2Ŧ !∃ℕλŎdzfΰdzℕŜΣ bl·ΰdzℕl·f wŜă2dzℕŎŜ /2yãŜℕØl·ΰλ2Y{ŜℕØλŎŜ ó¦{5!Σ bw/{ú
нлмл {2λfă {dzℕØŜè 2Ŧ hăŎŜ2fl· l·yŘ t2f] /2dzyΰλŜă♦ 9fŜŎΰℕ2yλŎ Ř2ŎdzΥŜyΰΣ
KΰΰLJãΥκκøŜōă2λfădzℕØŜè♦ăŎ♦ŜƎ2Ø♦dzăŘl·♦Ǝ2Øκ!LJLJκ l 2ΥŜtl·ƎŜ♦KΰΥΣ l·ŎŎŜăăŜŘ !dzƎdzăΰ нпΣ нлмт♦

¦{ DŜ2f2ƎλŎl·f {dzℕØŜè ó¦{D{ú
мфрл l λăΰ2ℕλŎ !ŜℕλI·f tK2ΰ2ƎℕI·LJKă♦ l λăΰ2ℕλŎl·f ¢2LJ2ƎℕI·LJKλŎ al·LJ /2ffŜŎΰλ2y♦ 9fŜŎΰℕ2yλŎ Ř2ŎdzΥŜyΰΣ KΰΰLJãΥκκfΰl·♦Ôℕ♦dzăƎă♦Ǝ2Øκ{λyƎfŜψCℕl·ΥŜψwŜŎ2ℕŘăΣ l·ŎŎŜăăŜŘ !dzƎdzăΰ нрΣ нлмт♦
мфро 5l·ØŜyLJ2ℕΰ ljdzl·ŘℕI·yƎfŜΣ мфтн ŜŘλΰλ2y♦ l λăΰ2ℕλŎl·f ¢2LJ2ƎℕI·LJKλŎ al·LJ /2ffŜŎΰλ2y♦ 9fŜŎΰℕ2yλŎ Ř2ŎdzΥŜyΰΣ KΰΰLJΥκκyƎΥŘō♦dzăƎă♦Ǝ2ØκΰƎLJ2ØλŜøkØλŜøŜℕκΣ l·ŎŎŜăăŜŘ !dzƎdzăΰ нрΣ нлмт♦
мфро DdzΥ [l·]Ŝ ljdzl·ŘℕI·yƎfŜΣ мфтн ŜŘλΰλ2y♦ l λăΰ2ℕλŎl·f ¢2LJ2ƎℕI·LJKλŎ al·LJ /2ffŜŎΰλ2y♦ 9fŜŎΰℕ2yλŎ Ř2ŎdzΥŜyΰΣ KΰΰLJΥκκyƎΥŘō♦dzăƎă♦Ǝ2ØκΰƎLJ2ØλŜøkØλŜøŜℕκΣ l·ŎŎŜăăŜŘ !dzƎdzăΰ нрΣ нлмт♦
мфро LyΰŜℕŎŜăăλ2Y /λΰè ljdzl·ŘℕI·yƎfŜΣ мфтн ŜŘλΰλ2y♦ l λăΰ2ℕλŎl·f ¢2LJ2ƎℕI·LJKλŎ al·LJ /2ffŜŎΰλ2y♦ 9fŜŎΰℕ2yλŎ Ř2ŎdzΥŜyΰΣ KΰΰLJΥκκyƎΥŘō♦dzăƎă♦Ǝ2ØκΰƎLJ2ØλŜøkØλŜøŜℕκΣ l·ŎŎŜăăŜŘ !dzƎdzăΰ нрΣ нлмт♦
мфро YλăăλΥΥŜŜ ljdzl·ŘℕI·yƎfŜΣ мфтн ŜŘλΰλ2y♦ l λăΰ2ℕλŎl·f ¢2LJ2ƎℕI·LJKλŎ al·LJ /2ffŜŎΰλ2y♦ 9fŜŎΰℕ2yλŎ Ř2ŎdzΥŜyΰΣ KΰΰLJΥκκyƎΥŘō♦dzăƎă♦Ǝ2ØκΰƎLJ2ØλŜøkØλŜøŜℕκΣ l·ŎŎŜăăŜŘ !dzƎdzăΰ нрΣ нлмт♦
мфро [l·]Ŝ ¢2K2LJŜ]l·fλƎl· ljdzl·ŘℕI·yƎfŜΣ мфто ŜŘλΰλ2y♦ l λăΰ2ℕλŎl·f ¢2LJ2ƎℕI·LJKλŎ al·LJ /2ffŜŎΰλ2y♦ 9fŜŎΰℕ2yλŎ Ř2ŎdzΥŜyΰΣ KΰΰLJΥκκyƎΥŘō♦dzăƎă♦Ǝ2ØκΰƎLJ2ØλŜøkØλŜøŜℕκΣ l·ŎŎŜăăŜŘ !dzƎdzăΰ нрΣ нлмт♦
мфрф [l·]Ŝ [dzλăl· ljdzl·ŘℕI·yƎfŜΣ мфто ŜŘλΰλ2y♦ l λăΰ2ℕλŎl·f ¢2LJ2ƎℕI·LJKλŎ al·LJ /2ffŜŎΰλ2y♦ 9fŜŎΰℕ2yλŎ Ř2ŎdzΥŜyΰΣ KΰΰLJΥκκyƎΥŘō♦dzăƎă♦Ǝ2ØκΰƎLJ2ØλŜøkØλŜøŜℕκΣ l·ŎŎŜăăŜŘ !dzƎdzăΰ нрΣ нлмт♦
мфул LyΰŜℕŎŜăăλ2Y /λΰè ljdzl·ŘℕI·yƎfŜ♦ 9fŜŎΰℕ2yλŎ Ř2ŎdzΥŜyΰΣ KΰΰLJΥκκyƎΥŘō♦dzăƎă♦Ǝ2ØκΰƎLJ2ØλŜøkØλŜøŜℕκΣ l·ŎŎŜăăŜŘ !dzƎdzăΰ нпΣ нлмт♦
мфул 5l·ØŜyLJ2ℕΰ ljdzl·ŘℕI·yƎfŜ♦ 9fŜŎΰℕ2yλŎ Ř2ŎdzΥŜyΰΣ KΰΰLJΥκκyƎΥŘō♦dzăƎă♦Ǝ2ØκΰƎLJ2ØλŜøkØλŜøŜℕκΣ l·ŎŎŜăăŜŘ !dzƎdzăΰ нпΣ нлмт♦
мфут [l·]Ŝ ¢2K2LJŜ]l·fλƎl· ljdzl·ŘℕI·yƎfŜ♦ 9fŜŎΰℕ2yλŎ Ř2ŎdzΥŜyΰΣ KΰΰLJΥκκyƎΥŘō♦dzăƎă♦Ǝ2ØκΰƎLJ2ØλŜøkØλŜøŜℕκΣ l·ŎŎŜăăŜŘ !dzƎdzăΰ нпΣ нлмт♦

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APPENDIX A

PREVIOUS CULTURAL RESOURCE SURVEYS WITHIN THE POINCIANA PARKWAY EXTENSION/I-4 CONNECTOR STUDY AREA

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FMSF No.	Survey Title	Year	Reference
офпм	/dzfűdzNJ·f wŜă2dzNǑÔŜ !ăăŜăăY·Ŝyű {dzNØŜè 2ŦűKŜ tN2LJ2ăŜŘ ¢K2dzăl·yŘ hl·ĵă 5ŜØŜf2LJY·Ŝyű {λúŜΣ t2fĵ /2dzyűèΣ Cf2NJŘl·	мффп	Wl·yűză wŜăŜl·NǑK
мнпм	/dzfűdzNJ·f NŜă2dzNǑÔŜ l·ăăŜăăY·Ŝyű ădzNØŜè 2Ŧ űKŜ /λűë 2Ŧ Yλăăλ Y·Y·ŜŜ¶ă LJN2LJ2ăŜŘ ø l·áúŜøl·úŜN ŘλĂLJ2ăl·f ăλúŜΣ hăǑŜ2fl· /2dzyűèΣ Cf2NJŘl·φ	мфус	tλLJŜN !NǑKl·Ŝ2f2ƎλǑl·f wŜăŜl·NǑKΣ LyǑφ
мсоф	!y·l·NǑKl·Ŝ2f2ƎλǑl·f ădzNØŜè 2Ŧ űKŜ LJN2LJ2ăŜŘ hăǑŜ2fl· t2λyűŜ 5wL	мфуу	w2ffλyă /2ffŜƎŜ
мунт	/dzfűdzNJ·f NŜă2dzNǑÔŜ l·ăăŜăăY·Ŝyű ădzNØŜè 2Ŧ űKŜ LJN2LJ2ăŜŘ l ŜÈl·Ǝ2y /ŜyűŜN ŘŜØŜf2LJY·Ŝyű ăλúŜΣ hăǑŜ2fl· /2dzyűèΣ Cf2NJŘl·	мфуф	tλLJŜN !NǑKl·Ŝ2f2ƎλǑl·f wŜăŜl·NǑKΣ LyǑφ
нофс	wŜLJfl·ǑŜY·Ŝyű 2Ŧ ¢KNŜŜ .NJŘƎŜă 2y{w слл hØŜN wŜŜŘè /NŜŜĵ	мфуу	Cf2NJŘl· 5ŜLJl·NúY·Ŝyű 2Ŧ ¢Nl·yăLJ2NúÎ·ûλ2y
нппп	! ÕdzfűdzNJ·f NŜă2dzNǑÔŜ l·ăăŜăăY·Ŝyű ădzNØŜè 2Ŧ űKŜ hăǑŜ2fl· Y·λÈŜŘ-dzăŜ LJN2ǂŜǑű l·NŜl· l·ăăŜăăY·Ŝyűă 2Ŧ ăλúŜă yh{ прΣ yh{ псΣ yh{ птΣ l·yŘ yh{ мно hăǑŜ2fl· /2dzyűèΣ Cf2NJŘl·φ	мффл	tλLJŜN !NǑKl·Ŝ2f2ƎλǑl·f wŜăŜl·NǑKΣ LyǑφ
нсло	! /dzfűdzNJ·f wŜă2dzNǑÔŜ !ăăŜăăY·Ŝyű {dzNØŜè 2Ŧ űKŜ LyűŜNăúÎ·ûŜ п - /2dzyűè w2l·Ř рон LyűŜNǑKl·yƎŜ 9ÈLJl·yăλ2yΣ hăǑŜ2fl· l·yŘ t2fĵ /2dzyűèΣ Cf2NJŘl·	мффл	tλLJŜN !NǑKl·Ŝ2f2ƎλǑl·f wŜăŜl·NǑKΣ LyǑφ
нслт	/dzfűdzNJ·f l·ăăŜăăY·Ŝyű ădzNØŜè 2Ŧ űKŜ LJN2LJ2ăŜŘ hl·ĵ l λffă 9ăúÎ·ûŜă 5ŜØŜf2LJY·Ŝyű {λúŜΣ t2fĵ /2dzyűèΣ Cf2NJŘl·φ	мфуф	tλLJŜN !NǑKl·Ŝ2f2ƎλǑl·f wŜăŜl·NǑKΣ LyǑφ
нстн	/dzfűdzNJ·f wŜă2dzNǑÔŜ !ăăŜăăY·Ŝyű {dzNØŜè 2Ŧ űKŜ tN2LJ2ăŜŘ tl·NJĵŜN l λƎKøl·è N-2-ø !fλƎyY·ŜyűΣ t2fĵ ƨ hăǑŜ2fl· /2dzyűλŜăΣ Cf2NJŘl·	мффм	tλLJŜN !NǑKl·Ŝ2f2ƎλǑl·f wŜăŜl·NǑKΣ LyǑφ
нулн	! /dzfűdzNJ·f wŜă2dzNǑÔŜ !ăăŜăăY·Ŝyű {dzNØŜè 2Ŧ C2dzN .λŦdzNǑÎ·úŜŘ a ŜŘλl·y !NŜl·ă øλűKλy·LyűŜNăúÎ·ûŜ п ó{űl·úŜ w2l·Ř пллúΣ t2fĵ /2dzyűèΣ Cf2NJŘl·φ	мффм	tλLJŜN !NǑKl·Ŝ2f2ƎλǑl·f wŜăŜl·NǑKΣ LyǑφ
онтс	/dzfűdzNJ·f wŜă2dzNǑÔŜ {dzNØŜè l·yŘ !ăăŜăăY·Ŝyű a Ŝfλl· hNfl·yŘ2 tN2ǂŜǑű hăǑŜ2fl· /2dzyűèΣ Cf2NJŘl·	мффн	{2dzűK !NǑΣ LyǑφ
оопф	/dzfűdzNJ·f wŜă2dzNǑÔŜ !ăăŜăăY·Ŝyű {dzNØŜè 2Ŧ űKŜ tN2LJ2ăŜŘ Yλăăλ Y·Y·ŜŜ ¦ûλfűûë !dzűK2NJûë¶ă /l·yŜ Lătl·yŘ tN2ǂŜǑűΣ hăǑŜ2fl· /2dzyűèΣ Cf2NJŘl·	мффн	Wl·yűză wŜăŜl·NǑK к tλLJŜN !NǑKl·Ŝ2f2Ǝè
оосл	! /dzfűdzNJ·f wŜă2dzNǑÔŜ !ăăŜăăY·Ŝyű {dzNØŜè 2Ŧ űKŜ l ŜŘNJǑK /2Y·Y dzyűûë 5wL tN2ǂŜǑű !NŜl·Σ hăǑŜ2fl· /2dzyűèΣ Cf2NJŘl·	мффн	Wl·yűză wŜăŜl·NǑK к tλLJŜN !NǑKl·Ŝ2f2Ǝè
оптт	!NǑKŜ2f2ƎλǑl·f {dzNØŜè 2Ŧ űKŜ tfl·yýŜŘ y λy·h¢5φ Yλăăλ Y·Y·ŜŜ-/l·yŜ Lătl·yŘ [l·ûŜNJl·f l·yŘ a ŜúŜNJ {ûl·ûλ2y	мффн	D22Řøλy·ƨ !ăă2ǑλÎ·ûŜăΣ LyǑφ
оумн	/dzfűdzNJ·f wŜă2dzNǑÔŜ !ăăŜăăY·Ŝyű {dzNØŜè 2Ŧ űKŜ D!¢· /ŜyűNJ·f Cf2NJŘl· tλLJŜfλyŜ /2NJNJŘ2NJΣ t2fĵΣ hăǑŜ2fl·Σ l·yŘ hNJl·yƎŜ /2dzyűλŜăΣ Cf2NJŘl·	мффп	Wl·yűză wŜăŜl·NǑK
пнон	/dzfűdzNJ·f wŜă2dzNǑÔŜ !ăăŜăăY·Ŝyű {dzNØŜè Ŧ2N űKŜ LyűŜNăúÎ·ûŜ п ó{φwφ пллú tN2ǂŜǑű 5ŜØŜf2LJY·Ŝyű l·yŘ 9yØλN2yY·Ŝyűl·f {ûdzŘè ŦN2Y wŜŜŘè /NŜŜĵ ű2 ¦φ{φ мфн ó{φwφ ролúΣ hăǑŜ2fl· /2dzyűèΣ Cf2NJŘl·	мффр	Wl·yűză wŜăŜl·NǑK
пнос	! /dzfűdzNJ·f wŜă2dzNǑÔŜă !ăăŜăăY·Ŝyű {dzNØŜè 2Ŧ ¦{ l λƎKøl·è мткфн ŦN2Y /wрон ű2 t2λyǑλl·yl· .2dzfŜØl·NŘΣ hăǑŜ2fl· /2dzyűèΣ Cf2NJŘl·	мффп	Cf2NJŘl· 5ŜLJl·NúY·Ŝyű 2Ŧ ¢Nl·yăLJ2NúÎ·ûλ2y
пнпф	! /dzfűdzNJ·f wŜă2dzNǑÔŜ !ăăŜăăY·Ŝyű {dzNØŜèΣ LyűŜNăúÎ·ûŜ п t5ƨ9 {ûdzŘèΣ t2fĵ /2dzyűèΣ Cf2NJŘl·	мффр	!NǑKl·Ŝ2f2ƎλǑl·f /2yădztűÎ·yűăΣ LyǑφ
тмну	CD¢ wŜf2ǑÎ·ûλ2y tN2ǂŜǑű Ŧ2N C5h¢ l·yŘ Yλăăλ Y·Y·ŜŜ ¦ûλfűûë !dzűK2NJûë wŜLJfl·ǑŜY·Ŝyű [λyŜ l·yŘ l· {ûl·Ǝλy3 !NŜl· hăǑŜ2fl· /2dzyűè Cf2NJŘl·	ннлн	{9!w/l
прту	! /dzfűdzNJ·f wŜă2dzNǑÔŜ !ăăŜăăY·Ŝyű {dzNØŜèΣ ² ŜăúŜNy·.Ŝfűø l·èΣ tl·Nű /Σ t5ƨ9 wŜ-ŜØl·fdzl·ûλ2y {ûdzŘèΣ hNJl·yƎŜ l·yŘ hăǑŜ2fl· /2dzyűλŜăΣ Cf2NJŘl·	мффс	!NǑKl·Ŝ2f2ƎλǑl·f /2yădztűÎ·yűăΣ LyǑφ
пумн	/dzfűdzNJ·f wŜă2dzNǑÔŜ !ăăŜăăY·Ŝyű {dzNØŜè 2Ŧ űKŜ LyűŜNăúÎ·ûŜ п ó{w пллú tN2ǂŜǑű 5ŜØŜf2LJY·Ŝyű l·yŘ 9yØλN2yY·Ŝyű ót5ƨ9ú {ûdzŘè {λÈ [l·yλyƎ ŦN2Y ¦{ нт ó{w нрú ű2 ¦{ мфн ó{w ролú λy·t2fĵ l·yŘ hăǑŜ2fl· /2dzyűλŜăΣ Cf2NJŘl·	мффт	Wl·yűză wŜăŜl·NǑK
рнут	L-п ó{φwφ пллú tN2ǂŜǑű 5ŜØŜf2LJY·Ŝyű l·yŘ 9yØλN2yY·Ŝyűl·f {ûdzŘè ŦN2Y /φwφ рон óhăǑŜ2fl·-t2fĵ [λyŜ w2l·Řú ű2 {φwφ рну ó.ŜŜfλyŜ 9ÈLJNŜăăøl·èú λy· hăǑŜ2fl· l·yŘ hNJl·yƎŜ /2dzyűλŜăΣ Cf2NJŘl·	мффу	!NǑKl·Ŝ2f2ƎλǑl·f /2yădztűÎ·yűăΣ LyǑφ
рулф	/dzfűdzNJ·f wŜă2dzNǑÔŜ {dzNØŜè l·yŘ !ăăŜăăY·Ŝyű .NJŘƎŜøl·ûŜN /N2ăăλyƎ tKl·ăŜ LLLΣ t2fĵ /2dzyűèΣ Cf2NJŘl·	мффф	{2dzűK !NǑΣ LyǑφ

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рупл	/dzfűdzNJ·f wŜă2dzNŐŜă ! ăăŜăăY·Ŝyű {dzNØŜè 2ŦűKŜ tN2LJ2ăŜŘ . dzŐŐl·ySŜN Dl·ă tλLJŜfλySΣ Cf2NλŘl· ω±2fdzY·Ŝ мY CλyJ·f wŜLJ2Nű 2Ŧ CλyŘλy∃ăT ±2fdzY·Ŝ нY ! LJLJŜyŘλŐŜă6	нллл	tl·yJ·Y·ŜNλŐl·y· /2yãdztűl·yűăΣ LyŐΦ
рфму	/dzfűdzNJ·f wŜă2dzNŐŜ ! ăăŜăăY·Ŝyű {dzNØŜè Ŧ2N úKŜ LyűŜNăúl·ûŜ п ó{űl·úŜ w2l·Ř пллúΣ {Ŝ∃Y·Ŝyű т {ű2NY ² l·ûŜN a l·yJ·∃ŜY·Ŝyű Cl·ŐλfλúλŜă ŦN2Y ¦{ l λ∃Køl·è нт ű2 ûKŜ t2f]кhăŐŜ2fl· /2dzyűè [λySΣ t2f] /2dzyűèΣ Cf2NλŘl·	мффс	Wl·yűză wŜăŜl·NŐK
снфт	Ddzfŧăú№Ŝl·Y /dzfűdzNJ·f wŜă2dzNŐŜă {dzLJLJfŜY·Ŝyűl·f wŜLJ2Nű o	нллм	Wl·yűză wŜăŜl·NŐK
соон	Ddzfŧăú№Ŝl·Y bl·údzNJ·f Dl·ă {èăúŜY /dzfűdzNJ·f wŜă2dzNŐŜă {dzLJLJfŜY·Ŝyűl·f wŜLJ2Nű м	нллл	Wl·yűză wŜăŜl·NŐK
сссп	/dzfűdzNJ·f wŜă2dzNŐŜ ! ăăŜăăY·Ŝyű {dzNØŜè 2Ŧ [λyŜ прс Ddzfŧăú№Ŝl·Y bl·údzNJ·f Dl·ă {èăúŜYΣ [Φ[Φ/Φ	нллм	Wl·yűză wŜăŜl·NŐK
сулл	/dzfűdzNJ·f wŜă2dzNŐŜ C2ff2ø-dzLJ {dzNØŜèă ŦN2 [λySă рлл l·yŘ слл ó{dzLJLJfŜY·Ŝyűl·f wŜLJ2Nű pú	нллн	Wl·yűză wŜăŜl·NŐK
сттн	/w{ 2Ŧ [22LJ D {űl·∃λy∃ ! N·Ŝl·Σ [22LJ W wŜN2dzúŜΣ Wl·Ŏ]Φ [22LJ 9 ² {Σ /{ ом	нллм	{9 ! w/ l
сумл	/dzfűdzNJ·f wŜă2dzNŐŜ {dzNØŜè 2Ŧ ¢ø2 tN2?ŜŐű LűŜYă ! ăă2ŐλI·ûŜŘ øλűK űKŜ Cf2NλŘl· Dl·ă ¢NJ·yãY·λăăλ2y /2Y·LJl·yê óCD¢ú tKl·ăŜ ± 9ĚLJl·yãλ2yY мú {ű Φ tŜűŜNăōdzN∃ [l·ûŜNJ·f a2ŘλŦλŐl·úλ2yΣ hăŐŜ2fl· /2dzyűè нú [22LJ W ! ŐŐŜää w2l·ŘΣ DλfÔKNλăű /2dzyűè	нллн	{9 ! w/ l
тону	/dzfűdzNJ·f wŜă2dzNŐŜ ! ăăŜăăY·Ŝyű {dzNØŜè Ŧ2N Ddzfŧăú№Ŝl·Y a2yλű2N l·yŘ /2yűN2f {èăúŜYY нллн LyY-{ŜNØλŐŜ ó{dzLJLJfŜY·Ŝyűl·f wŜLJ2Nű yú	нллн	{9 ! w/ l
умнл	/dzfűdzNJ·f wŜă2dzNŐŜ {dzNØŜè 2Ŧ űKŜ CŜŘŜN·f wS∃dzfl·ű2Nè /2Y·Yλăăλ2y .fl·yJŜű Cf2NλŘl· Dl·ă ¢NJ·yãY·λăăλ2y /2Y·LJl·yê óCD¢ú tN2LJ2ăŜŘ {ű Φ tŜűŜNăōdzN∃ му-λyŐK [l·ûŜN·f wŜf2Ől·úλ2y l·ú wŜŜŘè /N·ŜŜJ	нллн	{9 ! w/ l
млспт	! /dzfűdzNJ·f wŜă2dzNŐŜ ! ăăŜăăY·Ŝyű {dzNØŜè 2Ŧ űKŜ tN2LJ2ăŜŘ .fl·ŐJăű2yŜ [l·yŘλy∃ - tKl·ăŜă н-р 5ŜØŜf2LJY·Ŝyű {λűŜ [2Ől·ûŜŘ λy·{ŜŐűλ2yã мл ɔ ммΣ ¢2øyãKλLJ нс {2dzúKΣ wl·y∃Ŝ ну 9l·ăűΣ t2λyŐλl·yJ·Σ hăŐŜ2fl· /2dzyűèΣ Cf2NλŘl·	нллп	{űl2NY [Φ wλŐKl·NŘă ɔ ! ăă2ŐλI·ûŜăΣ LyŐΦ
млсоп	wŜŐ2yŷJ·λăăl·yŐŜ {dzNØŜè D2Řøλyкt2f] t5 t2f] l·yŘ hăŐŜ2fl· /2dzyűλŜăΣ Cf2NλŘl·	нллп	{2dzúK ! N·ŐΣ LyŐΦ
млсор	/dzfűdzNJ·f wŜă2dzNŐŜ {dzNØŜè l·yŘ ! ăăŜăăY·Ŝyű {2fűØλűl· ² ŜăűΣ t2f] /2dzyűèΣ Cf2NλŘl·	нллп	{2dzúK ! N·ŐΣ LyŐ Φ
мнрсл	! tKl·ăŜ м /dzfűdzNJ·f wŜă2dzNŐŜă {dzNØŜè 2Ŧ űKŜ a Ŝl·Ř2øă t ¦ 5Σ t2f] /2dzyűèΣ Cf2NλŘl·	нллр	{9 ! w/ l
мнртп	/dzfűdzNJ·f wŜă2dzNŐŜ ! ăăŜăăY·Ŝyű {dzNØŜè wŜLJ2Nű Cf2NλŘl· l λ∃K {LJŜŜŘ wl·λf ! dzúK2NλúètN2?ŜŐű 5ŜØŜf2LJY·Ŝyű l·yŘ 9yØλN2yY·Ŝyű ót5ɔ9ú {űdzŘè ŦN2Y ¢l·YLJl· ű2 hNfl·yŘ2 l λffăō2N2dz∃KΣ t2f]Σ hăŐŜ2fl·Σ l·yŘ hNJ·y∃Ŝ /2dzyűλŜăΣ Cf2NλŘl·	нлло	! N·ŐKl·Ŝ2f2∃λŐl·f /2yãdztűl·yűăΣ LyŐΦ
млсут	! tKl·ăŜ м /dzfűdzNJ·f wŜă2dzNŐŜ {dzNØŜè 2Ŧ űKŜ a5/ tN2?ŜŐű ! N·Ŝl·Σ t2f] /2dzyűèΣ Cf2NλŘl·	нллп	{9 ! w/ l
млсуф	! y ! N·ŐKl·Ŝ2f2∃λŐl·f l·yŘ l λăű2NλŐl·f {dzNØŜè 2Ŧ űKŜ ! ăKŜōN22] {dzōŘλØłăλ2y tN2?ŜŐű ! N·Ŝl· λy hăŐŜ2fl· /2dzyűèΣ Cf2NλŘl·	нллп	tl·yJ·Y·ŜNλŐl·y· /2yãdztűl·yűăΣ LyŐΦ
млтуо	! tKl·ăŜ м /dzfűdzNJ·f wŜă2dzNŐŜ {dzNØŜè 2Ŧ űKŜ bl·údzN·Ŝłă tN·ŜăŜNØŜ tN2?ŜŐű ! N·Ŝl·Σ t2f] l·yŘ hăŐŜ2fl· /2dzyűλŜăΣ Cf2NλŘl·	нллп	{9 ! w/ l
ммоуо	! tKl·ăŜ м /dzfűdzNJ·f wŜă2dzNŐŜ {dzNØŜè 2Ŧ tl·NŐŜfă p l·yŘ т 2Ŧ űKŜ пűK vdzl·N·úŜN tN2LJŜN·úλŜă · [L±Σ hăŐŜ2fl· /2dzyűèΣ Cf2NλŘl·	нллр	{9 ! w/ l
ммумр	! y ! N·ŐKl·Ŝ2f2∃λŐl·f l·yŘ l λăű2NλŐl·f {dzNØŜè 2Ŧ űKŜ C2È wdzy tN2?ŜŐű ! N·Ŝl· λy t2f] /2dzyűèΣ Cf2NλŘl·	нллр	tl·yJ·Y·ŜNλŐl·y· /2yãdztűl·yűăΣ LyŐΦ
ммунт	wŜŐ2yŷJ·λăăl·yŐŜ {dzNØŜèΣ l l·tØ2NăŜy l 2fŘλy∃ăΣ t2f] /2dzyűèΣ Cf2NλŘl·	нллр	{2dzúK ! N·ŐΣ LyŐΦ
мнмрф	wŜŐ2yŷJ·λăăl·yŐŜ {dzNØŜè 2Ŧ űKŜ {2fłØλűl· tKl·ăŜ p l·yŘ тC λy hăŐŜ2fl· /2dzyűèΣ Cf2NλŘl·	нллр	{2dzúK ! N·ŐΣ LyŐΦ

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мнопр	/dzfűdzNJl·f wŜă2dzNJÖŜ {dzNJØŜè l·yŘ ! ăăŜăăY·ŜyűɬǂdzăÖl·yl· wŜűŜyűʎ2y˙t2yŘΣ hăÖŜ2fl· /2dzyűèΣ Cf2NJʎŘl·	нллр	{2dzűK ! NJÖΣ LyÖΦ
мооум	/dzfűdzNJl·f wŜă2dzNJÖŜ {dzNJØŜè l·yŘ ! ăăŜăăY·Ŝyűɬǂ{2fŧØʎűl· DNJl·yŘŜ hăÖŜ2fl· l·yŘ t2f˥ /2dzyűʎŜăΣ Cf2NJʎŘl·	нллс	{2dzűK ! NJÖΣ LyÖΦ
мопнф	/dzfűdzNJl·f wŜă2dzNJÖŜ {dzNJØŜè l·yŘ ! ăăŜăăY·Ŝyűɬǂt2ʎyÖʎl·yl· tl·NJ˥ǿl·èΣ hăÖŜ2fl· l·yŘ t2f˥ /2dzyűʎŜăΣ Cf2NJʎŘl·	нллс	{2dzűK ! NJÖΣ LyÖΦ
мппнр	! tKl·ăŜ м /dzfűdzNJl·f wŜă2dzNJÖŜ {dzNJØŜè 2ŦűKŜ [l·˥Ŝ ² ʎfă2y˙tNJ2LJŜNJűèΣ t2f˥ /2dzyűèΣ Cf2NJʎŘl·	нллт	{9 ! w/ l
мрфпс	/dzfűdzNJl·f wŜă2dzNJÖŜ {dzNJØŜè l·yŘ ! ăăŜăăY·ŜyűŦ2NJ hfŘ [l·˥Ŝ ² ʎfă2y˙w2l·ŘΣ hăÖŜ2fl· /2dzyűèΣ Cf2NJʎŘl·	нллу	{2dzűK ! NJÖΣ LyÖΦ
мслмр	/dzfűdzNJl·f wŜă2dzNJÖŜ ! ăăŜăăY·Ŝyű {dzNJØŜè 2Ŧ űKŜ tNJ2ƎNJŜăă 9yŜNJƎè Cf2NJʎŘl· 5dzyŘŜŜ ű2 LyűŜNJÖŜăăʎ2y˙/ʎűè ¢NJl·yãY·ʎăăʎ2y˙[ʎyŜ /2NJNJʎŘ2NJΣ t2f˥ l·yŘ hăÖŜ2fl· /2dzyűʎŜă	нллу	Wl·yűză wŜăŜl·NJÖK
мтлнс	! tKl·ăŜ L /dzfűdzNJl·f wŜă2dzNJÖŜ {dzNJØŜè 2Ŧ űKŜ /l·úŦʎăK t2ʎyűΣ W2Kyã2y˙LăfŀyŘΣ [l·˥Ŝ al·NJʎ2y˙/NJŜŜ˥Σ l·yŘ ¦LJLJŜNJ wŜŜŘè /NJŜŜ˥ al·yl·ƎŜY·Ŝyű ! NJŜl·ăΣ hăÖŜ2fl· l·yŘ t2f˥ /2dzyűʎŜăΣ Cf2NJʎŘl·	нллф	! NJÖKl·Ŝ2f2ƎʎÖl·f l·yŘ l ʎăű2NJʎÖl·f /2ýãŜNJØl·yÖèΣ LyÖΦ
мтпср	tNJ2ǿŜÖű 5ŜØŜf2LJY˙Ŝyű l·yŘ 9yØʎNJ2yY˙Ŝyűl·f {űdzŘè {ű˥l·ûŜ 9yØʎNJ2yY˙Ŝyűl·f LY˙LJl·Öű wŜLJ2NJúY ² ŜăúŜNJy˙. Ŝtűǿl·è - tl·Nú / CNJ2Y˙LyűŜNJăű˥l·ûŜ n ű2 {w рлкCf2NJʎŘl·ůă tl·NJ˥ǿl·èΣ hNJl·yƎŜ l·yŘ hăÖŜ2fl· /2dzyűèΣ Cf2NJʎŘl·	мффт	Dfl·úűʎyƎΣ Wl·Ö˥ǻ2yΣ YŜNJÖKŜNJΣ ! yƎfŀyΣ [2LJŜÎΣ wʎyŜKl·Nűΰ LyÖΦ
мтфпл	¦LJŘl·ûŜ ű2 tNJŜfʎY˙ʎyl·Nwè /dzfűdzNJl·f wŜă2dzNJÖŜ ! ăăŜăăY·Ŝyű 2Ŧ wŜŜŘè /NJŜŜ˥ LY˙LJNJ2ØŜY·Ŝyű 5ʎăűNJʎÖű l·yŘ ² l·fű 5ʎăyŜè ² 2NJfŘ tNJ2LJŜNJűʎŜăΣ ʎy˙hăÖŜ2fl· l·yŘ hNJl·yƎŜ /2dzyűʎŜăΣ Cf2NJʎŘl·	нлмл	Wl·yűză wŜăŜl·NJÖK
мулло	/dzfűdzNJl·f wŜă2dzNJÖŜ ! ăăŜăăY·Ŝyű {dzNJØŜèΣ tNJ2ǿŜÖű 5ŜØŜf2LJY˙Ŝyű l·yŘ 9yØʎNJ2yY˙Ŝyű {ůdzŘèΣ /ŜyűNJl·f t2f˥ tl·NJ˥ǿl·è ŦNJ2Y˙{ΦwΦ cл ű2 t2f˥ tl·NJ˥ǿl·è ó{ΦwΦ ртлú l·yŘ ŦNJ2Y˙{ΦwΦ cл ű2 L-nΣ t2f˥ /2dzyűèΣ Cf2NJʎŘl·	нлмл	! NJÖKl·Ŝ2f2ƎʎÖl·f /2ýãdzfűl·yűăΣ LyÖΦ
мутст	/dzfűdzNJl·f wŜă2dzNJÖŜă {dzNJØŜè l·yŘ ! ăăŜăăY·ŜyűΣ /Kl·Y˙LJʎ2yã Dl·úŜ {LJ2Nűă /2Y˙LJfŜÈΣ t2f˥ /2dzyűèΣ Cf2NJʎŘl·	нлмм	{2dzűK ! NJÖΣ LyÖΦ
мфлус	/dzfűdzNJl·f wŜă2dzNJÖŜ wŜÖ2yýl·ʎăăl·yÖŜ ! ăăŜăăY·Ŝyű 2Ŧ űKŜ LyűŜNJÖŜăăʎ2y˙/ʎűè - DʎŦŦ2NJŘ нолYØ ¢NJl·yãY·ʎăăʎ2y˙[ʎyŜ ó{2dzűK {ŜÖűʎ2yűΣ hăÖŜ2fl· /2dzyűèΣ Cf2NJʎŘl·	нлмн	{9 ! w/ l
мфлут	/dzfűdzNJl·f wŜă2dzNJÖŜ {dzNJØŜè 2Ŧ {ʎÈ {ŜƎY˙Ŝyűă l·f2yƎ űKŜ h¦/ [l·˥Ŝfl·yŘ-¢l·Ŧű но˥± ¢NJl·yãY·ʎăăʎ2y˙[ʎyŜΣ t2f˥ l·yŘ hăÖŜ2fl· /2dzyűʎŜăΣ Cf2NJʎŘl·	нлмн	{9 ! w/ l
нлтуо	/dzfűdzNJl·f wŜă2dzNJÖŜ ! ăăŜăăY·Ŝyű {dzNJØŜè 2Ŧ űKŜ Cf2NJʎŘl· {2dzűKŜl·ăű /2ýýŜÖűʎ2y˙bl·ůdzNJl·f Dl·ă tʎLJŜfʎyŜΣ hăÖŜ2fl·Σ t2f˥ h˥ŜŜÖK2ōŜŜΣ {ůΦ [dzÖʎŜ l·yŘ al·NJűʎy˙/2dzyűʎŜă	нлмп	Wl·yűză wŜăŜl·NJÖK
нлтфл	/dzfűdzNJl·f wŜă2dzNJÖŜ {dzNJØŜè l·yŘ ! ăăŜăăY·ŜyűΣ /Kl·Y˙LJʎ2yã Dl·úŜ ±ʎffl·ƎŜΣ t2f˥ l·yŘ hăÖŜ2fl· /2dzyűʎŜăΣ Cf2NJʎŘl·	нлмп	{2dzűK ! NJÖΣ LyÖΦ
нмулф	/dzfűdzNJl·f wŜă2dzNJÖŜ ! ăăŜăăY·Ŝyű {dzNJØŜèΣ w2yl·fŘ wŜl·Ƒl·y˙tl·NJ˥ǿl·è tNJ2LJŜNJűèΣ t2f˥ /2dzyűèΣ Cf2NJʎŘl·	нлмп	! NJÖKl·Ŝ2f2ƎʎÖl·f /2ýãdzfűl·yűăΣ LyÖΦ
ннумс	¢ŜÖKyʎÖl·f aŜY˙2NJl·yŘdzYY /dzfűdzNJl·f wŜă2dzNJÖŜ ! ăăŜăăY·Ŝyű {dzNJØŜè 2Ŧ tNJ2LJ2ăŜŘ LY˙LJNJ2ØŜY·Ŝyűă ű2 {ŜƎY·Ŝyű pY {w плл óL-nú ŦNJ2Y˙ ² Ŝăű 2Ŧ {w нрк¦{ нт ű2 ² Ŝăű 2Ŧ /w рон ótf˥ʞhăÖŜ2fl· /2dzyűè [ʎyŜúΣ t2f˥ /2dzyűèΣ Cf2NJʎŘl·	нлмс	{9 ! w/ l
нмлсф	/dzfűdzNJl·f wŜă2dzNJÖŜ ! ăăŜăăY·Ŝyű {dzNJØŜè 2Ŧ űKŜ 5dz˥Ŝ 9yŜNJƎè /ʎűNJdză /ŜyűŜNJ tNJ2LJŜNJűèΣ t2f˥ l·yŘ hăÖŜ2fl· /2dzyűʎŜăΣ Cf2NJʎŘl·	нлмп	{9 ! w/ l
нммлу	/dzfűdzNJl·f wŜă2dzNJÖŜ ! ăăŜăăY·Ŝyű {dzNJØŜè 2Ŧ űKŜ Cf2NJʎŘl· {2dzűKŜl·ăű /2ýýŜÖűʎ2y˙bl·ůdzNJl·f Dl·ă tʎLJŜfʎyŜ {dzLJLJfŜY·Ŝyűl·f wŜLJ2Nú м C2ff2ǿ-¦LJ l·yŘ wŜ-w2dzűŜ {dzNJØŜèă t2f˥Σ h˥ŜŜÖK2ōŜŜΣ {ůΦ [dzÖʎŜ l·yŘ al·NJűʎy˙/2dzyűʎŜă	нлмп	Wl·yűză wŜăŜl·NJÖK

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FMSF No.	Survey Title	Year	Reference
нмпом	{ł·ōł·f ¢₦ł·ƛf ¢₦ł·yãϒƛăăƛ2ϒ tKł·ăŜ L /ɖztűɖz₦ł·f wŜă2ɖz₦ŎŜ !ăăŜăăϒŜyű {ɖz₦ØŜè ó!fł·ŎKɖzł·Σ /ƛűNɖzăΣ DƛfÔK₦ƛăűΣ I l·Yƛfű2yΣ [ł·ʅŜΣ [ŜØèΣ a ł·Řƛă2yΣ a ł·₦ƛ2yΣ h₦ł·yƎŜΣ hăŎŜ2fł·Σ t2fʅΣ {ɖzǿł·yýŜŜΣ {ɖzϒűŜ₦ /2ɖzyűƛŜăΣ Cf2₦ƛŘł·ú	нлмп	/ł·₦Řy2 9b¢wL·к {9!w/ l
нмптн	/ɖztűɖz₦ł·f wŜă2ɖz₦ŎŜ wŜăɖz₦ØŜè ł·yŘ !ăăŜăăϒŜyűΣ t2ƛyŎƛł·yl· tł·₦ʅǿł·è {ŜƎϒŜyű пΣ hăŎŜ2fł· /2ɖzyűèΣ Cf2₦ƛŘł·	нлмр	{2ɖzűK!₦ŎΣ LyŎΦ
нмффм	/ɖztűɖz₦ł·f wŜă2ɖz₦ŎŜ !ăăŜăăϒŜyű {ɖz₦ØŜèϒ {ł·ōł·f ¢₦ł·ƛf t₦2ºŜŎú tKł·ăŜ L !ŘŘŜyŘɖzϒ wŜLJ2₦ú	нлмр	/ł·₦Řy2 9b¢wL·к {9!w/ l
нннму	/ɖztűɖz₦ł·f wŜă2ɖz₦ŎŜ !ăăŜăăϒŜyű {ɖz₦ØŜè 2₮ űKŜ Cf2₦ƛŘł· {2ɖzúKŜł·ăú /2ýyŜŎúƛ2ϒbł·úɖz₦ł·f Dł·ă tƛLJŜfƛyŜΣ {ɖzLJLJfŜϒŜyűł·f wŜLJ2₦ú нΣ hăŎŜ2fł·Σ {úΦ [ɖzŎƛŜΣ ł·yŘ t2fʅ /2ɖzyűƛŜă	нлмр	₩ł·yűză wŜăŜł·₦ŎK
нолоф	¢ŜŎKyƛŎł·f aŜϒ2₦ł·yŘɖzYϒ /ɖztűɖz₦ł·f wŜă2ɖz₦ŎŜ !ăăŜăăϒŜyű {ɖz₦ØŜè 2₮ t₦2LJ2ăŜŘ LϒLJ₦2ØŜϒŜyűă ű2 {ŜƎϒŜyű мϒ {w плл óLyűŜ₦ăúł·úŜ пú ₣₦2ϒ ² Ŝăű 2₮ /w рон ót2fʅκhăŎŜ2fł· /2ɖzyűè [ƛySú ű2 ² Ŝăű 2₮ {w рнук.Ŝł·ŎKfƛyŜ 9ĖLJ₦ŜăăǿłèΣ hăŎŜ2fł· /2ɖzyűè óфнмолú łyŘ h₦ł·yƎŜ /2ɖzyűè ótрнулú	нлмс	{9!w/ l

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APPENDIX B

PREVIOUSLY RECORDED CULTURAL RESOURCES WITHIN THE POINCIANA PARKWAY EXTENSION/I-4 CONNECTOR STUDY AREA

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Historic Structures				
FMSF No.	**Name and/or Address**	**Year Built**	**Surveyor Evaluation**	**SHPO Evaluation**
yh{лмтпс	CfŜűŎKŜℕ tl·ℕ℩ a2yʤYŜyű	Ŏмфор	LyŜfλƎλōfŜ ₮2ℕ bwlt	LyŜfλƎλōfŜ ₮2ℕ bwlt
yh{лмфнс	мрнр YŜYLJ w2l·Ř	мфрл	LyŜfλƎλōfŜ ₮2ℕ bwlt	LyŜfλƎλōfŜ ₮2ℕ bwlt
yh{лносм	al·ℕűλy-!ǎKŜōℕ22℩ l2ʤžǎŜ мпрп {ʤzffλØl·y w2l·Ř	мфпл	LyŜfλƎλōfŜ ₮2ℕ bwlt	LyŜfλƎλōfŜ ₮2ℕ bwlt
yh{лност	мслр YŜyŷè ll·ℕY2y w2l·Ř	Ŏмфнп	LyŜfλƎλōfŜ ₮2ℕ bwlt	LyŜfλƎλōfŜ ₮2ℕ bwlt
yh{лнттл	сулр C2ℕŜKl·yŘ w2l·Ř	Ŏмфпл	LyŜfλƎλōfŜ ₮2ℕ bwlt	LyŜfλƎλōfŜ ₮2ℕ bwlt
yh{лнтто	!ŎŜ !ʤű2 сстм hǎŎŜ2fl· t2f℩ [λyŜ w2l·Ř	Ŏмфсм	LyŜfλƎλōfŜ ₮2ℕ bwlt	LyŜfλƎλōfŜ ₮2ℕ bwlt
ythлннму	/ŜYŜűŜℕè l2YŜǎűŜl·Ř	Ŏмфнл	LyŜfλƎλōfŜ ₮2ℕ bwlt	LyŜfλƎλōfŜ ₮2ℕ bwlt
ythлплом	w2ŘƎŜℕă l2ʤžǎŜ	Ŏмфнр	LyŜfλƎλōfŜ ₮2ℕ bwlt	LyŜfλƎλōfŜ ₮2ℕ bwlt
ythлсунр	[ʤzy l2ʤžǎŜ сммр ¦{ lλƎKǿl·è мткфн		LyŜfλƎλōfŜ ₮2ℕ bwlt	LyŜfλƎλōfŜ ₮2ℕ bwlt
ythлсуоф	! 9 lʤzyűλyƎ /ʤzō		LyŜfλƎλōfŜ ₮2ℕ bwlt	b2ű 9Øl·ʤzl·úŜŘ ōè {lth
ythлтмрр	ℕl·Kqă tl·ǿy сулм ¦{ lλƎKǿl·è мткфн	Ŏмфрр	LyŜfλƎλōfŜ ₮2ℕ bwlt	LyŜfλƎλōfŜ ₮2ℕ bwlt
ythлтмрс	стло ¦{ lλƎKǿl·è мткфн	Ŏмфрл	LyŜfλƎλōfŜ ₮2ℕ bwlt	LyŜfλƎλōfŜ ₮2ℕ bwlt
ythлтмрт	Ьк-сслп ¦{ lλƎKǿl·è мткфн	Ŏмфол	LyŜfλƎλōfŜ ₮2ℕ bwlt	LyŜfλƎλōfŜ ₮2ℕ bwlt
ythлттму	мом tl·ℕ℩Ŝℕ w2l·Ř	Ŏмфсл	LyŜfλƎλōfŜ ₮2ℕ bwlt	LyŜfλƎλōfŜ ₮2ℕ bwlt
ythлттсн	флл {Ŏ2úű [l·yŜ	Ŏмфст	LyŜfλƎλōfŜ ₮2ℕ bwlt	LyŜfλƎλōfŜ ₮2ℕ bwlt

Bridges				
FMSF No.	**Name and/or Number**	**Year Built**	**Condition**	**SHPO Evaluation**
yh{ллмоп	5λǎyŜè рллл мо	мфнл	wʤzλy2ʤzǎ	LyŜfλƎλōfŜ ₮2ℕ bwlt
yh{лмтпт	{2ʤzűK hℕl·yƎŜ .f2ǎǎ2Y ¢ℕl·λf .ℕλŘƎŜ ώC5h¢ лфнллпճ	мфоу	D22Ř	b2ű 9Øl·ʤzl·úŜŘ ōè {lth
yh{лмтпу	{2ʤzűK hℕl·yƎŜ .f2ǎǎ2Y ¢ℕl·λf .ℕλŘƎŜ ώC5h¢ лфнллоճ	мфоу	D22Ř	b2ű 9Øl·ʤzl·úŜŘ ōè {lth
yh{лмтпф	{2ʤzűK hℕl·yƎŜ .f2ǎǎ2Y ¢ℕl·λf .ℕλŘƎŜ ώC5h¢ лфнллнճ	мфоу	Cl·λℕ	b2ű 9Øl·ʤzl·úŜŘ ōè {lth

Cemeteries				
FMSF No.	**Name and/or Number**	**Year Established**	**Status**	**SHPO Evaluation**
yh{лмфнр	hl·℩ lλff .l·LJűλǎű /KʤzℕŎK /ŜYŜűŜℕè	Ŏмфлн	Ly-ʤžŜ	LyŜfλƎλōfŜ ₮2ℕ bwlt
ythлмрмф	YλyŷèllℕY2y w2l·Ř /ŜYŜűŜℕè	Ŏмфлр	!ōl·yŘ2yŜŘ	LyãʤzŦŦλŎλŜyű LyŦ2ℕYl·úλ2y

Linear Resource Groups			
FMSF No.	**Name**	**Time Period**	**SHPO Evaluation**
yh{лнпрт	¢ℕl·Y DℕI·ŘŜ {λűŜ	!YŜℕλŎl·yΣ мунм-LJℕŜǎŜyűT мфúK ŎŜyűʤzℕè !YŜℕλŎl·yΣ мунм-муфф	LyŜfλƎλōfŜ ₮2ℕ bwlt
yh{лнрпл	{2ʤzűK Cf2ℕλŘl· ww	!YŜℕλŎl·yΣ мунм-LJℕŜǎŜyűT мфúK ŎŜyűʤzℕè !YŜℕλŎl·yΣ мунм-муффT мууп-мфсл	9fλƎλōfŜ ₮2ℕ bwlt
yh{лнрст	hfŘ YλǎǎλYYŜŜ w2l·ŘκhfŘ ¢l·YLJl· lλƎKǿl·è	мфнл-мфсл	LyãʤzŦŦλŎλŜyű LyŦ2ℕYl·úλ2y
yh{лнтуф	ℕ2Kyã2yLǎfl·yŘ /l·yl·f	!YŜℕλŎl·yΣ мунм-LJℕŜǎŜyű	LyŜfλƎλōfŜ ₮2ℕ bwlt
ythлтмрп	hfŘ YλǎǎλYYŜŜ w2l·ŘκhfŘ ¢l·YLJl· lλƎKǿl·è	мфнл-мфсл	LyãʤzŦŦλŎλŜyű LyŦ2ℕYl·úλ2y
ythлтнмф	{2ʤzűK Cf2ℕλŘl· wl·λfℕ2l·Ř ó/{· wwú	мфúK ŎŜyűʤzℕè !YŜℕλŎl·yΣ мунм-муффT t2ǎű-wŜŎ2yãűℕʤzŎúλ2yΣ мууп-муфтT мууп-мфсл	LyŜfλƎλōfŜ ₮2ℕ bwlt

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Archaeological Sites				
FMSF No.	**Name**	**Primary Time Period**	**Surveyor Evaluation**	**SHPO Evaluation**
yh{лллфо	hăŏŜ2fl· t2ʎyűŜ м	!ℕŎKI·ʎŎΣ урлл .ф/ф-млллл .ф/ф	b2ű 9ØI·fdzI·ŭŜŘ ōè wŜŏ2ℕŘŜℕ	b2ű 9ØI·fdzI·ŭŜŘ ōè { I t h
yh{лмуом	a t лфр	tℕŜKʎăű2ℕʎŎ fI·Ŏ]ʎyƎ LJ2ŭűŜℕè	LyŜfʎƎʎōfŜ Ŧ2ℕ bw I t	LyŜfʎƎʎōfŜ Ŧ2ℕ bw I t
yh{лмуос	LyűŜℕŎŜăăʎ2Y /ʎűè b ²	¢ǿŜyűʎŜűK ŎŜyűdzℕè !Y·ŜℕʎŎI·yΣ мфлл-LJℕŠăŜyű	LyŜfʎƎʎōfŜ Ŧ2ℕ bw I t	LyŜfʎƎʎōfŜ Ŧ2ℕ bw I t
yh{лмупл	ℕwмту	tℕŜKʎăű2ℕʎŎ fI·Ŏ]ʎyƎ LJ2ŭűŜℕè	LyŜfʎƎʎōfŜ Ŧ2ℕ bw I t	LyŜfʎƎʎōfŜ Ŧ2ℕ bw I t
yh{ллллпп	C2ℕű 5I·ØŜyLJ2ℕú	!Y·ŜℕʎŎI·y·!ŎIjdzʎăʎűʎ2yк ¢ŜℕℕʎűƨℕʎI·f 5ŜØŜf2LJY·Ŝyű мунм-пр	LyŜfʎƎʎōfŜ Ŧ2ℕ bw I t	9fʎƎʎōfŜ Ŧƨℕ bw I t
yh{ллллпт	5ʎăyŜè ² ƨℕfŘ o	aʎŘŘfŜ !ℕŎKI·ʎŎ	LyŜfʎƎʎōfŜ Ŧƨℕ bw I t	LyŜfʎƎʎōfŜ Ŧƨℕ bw I t
yh{ллллпу	5ʎăyŜè ² ƨℕfŘ п	tℕŜKʎăű2ℕʎŎ	b2ű 9ØI·fdzI·ŭŜŘ ōè wŜŏ2ℕŘŜℕ	b2ű 9ØI·fdzI·ŭŜŘ ōè { I t h
yh{ллллфп	hăŏŜ2fl· t2ʎyűŜ н	!ℕŎKI·ʎŎΣ урлл .ф/ф-млллл .ф/ф	LyŜfʎƎʎōfŜ Ŧƨℕ bw I t	LyŜfʎƎʎōfŜ Ŧƨℕ bw I t
yh{ллллфс	hăŏŜ2fl· t2ʎyűŜ п	!ℕŎKI·ʎŎΣ урлл .ф/ф-млллл .ф/ф	b2ű 9ØI·fdzI·ŭŜŘ ōè wŜŏ2ℕŘŜℕ	b2ű 9ØI·fdzI·ŭŜŘ ōè { I t h
yh{ллллфт	hăŏŜ2fl· t2ʎyűŜ р	!ℕŎKI·ʎŎΣ урлл .ф/ф-млллл .ф/ф	b2ű 9ØI·fdzI·ŭŜŘ ōè wŜŏ2ℕŘŜℕ	b2ű 9ØI·fdzI·ŭŜŘ ōè { I t h
yh{ллллфу	hăŏŜ2fl· t2ʎyűŜ с	!ℕŎKI·ʎŎΣ урлл .ф/ф-млллл .ф/ф	b2ű 9ØI·fdzI·ŭŜŘ ōè wŜŏ2ℕŘŜℕ	b2ű 9ØI·fdzI·ŭŜŘ ōè { I t h
yh{ллмлл	DI·ăLJ	!ℕŎKI·ʎŎΣ урлл .ф/ф-млллл .ф/ф	b2 CdzℕűKŜℕ ² 2ℕ]ʅ wŜŏ2YY·ŜyŘŜŘ	b2ű 9ØI·fdzI·ŭŜŘ ōè { I t h
yh{ллмло	I ŜÈI·Ǝ2y·/ŜyűŜℕ м	tℕŜKʎăű2ℕʎŎ	LyŜfʎƎʎōfŜ Ŧƨℕ bw I t	b2ű 9ØI·fdzI·ŭŜŘ ōè { I t h
yh{ллмлп	I ŜÈI·Ǝ2y·/ŜyűŜℕ н	tℕŜKʎăű2ℕʎŎ	LyŜfʎƎʎōfŜ Ŧƨℕ bw I t	b2ű 9ØI·fdzI·ŭŜŘ ōè { I t h
yh{ллмлр	I ŜÈI·Ǝ2y·/ŜyűŜℕ о	tℕŜKʎăű2ℕʎŎ	LyŜfʎƎʎōfŜ Ŧƨℕ bw I t	b2ű 9ØI·fdzI·ŭŜŘ ōè { I t h
yh{ллмлс	I ŜÈI·Ǝ2y·/ŜyűŜℕ п	tℕŜKʎăű2ℕʎŎ fI·Ŏ]ʎyƎ LJ2ŭűŜℕè	LyŜfʎƎʎōfŜ Ŧƨℕ bw I t	LyŜfʎƎʎōfŜ Ŧƨℕ bw I t
yh{ллмлт	I ŜÈI·Ǝ2y·/ŜyűŜℕ р	tℕŜKʎăű2ℕʎŎ	LyŜfʎƎʎōfŜ Ŧƨℕ bw I t	b2ű 9ØI·fdzI·ŭŜŘ ōè { I t h
yh{ллмлу	I ŜÈI·Ǝ2y·/ŜyűŜℕ с	tℕŜKʎăű2ℕʎŎ fI·Ŏ]ʎyƎ LJ2ŭűŜℕè	LyŜfʎƎʎōfŜ Ŧƨℕ bw I t	LyŜfʎƎʎōfŜ Ŧƨℕ bw I t
yh{ллмлф	I ŜÈI·Ǝ2y·/ŜyűŜℕ мп	tℕŜKʎăű2ℕʎŎ	LyŜfʎƎʎōfŜ Ŧƨℕ bw I t	b2ű 9ØI·fdzI·ŭŜŘ ōè { I t h
yh{ллммл	I ŜÈI·Ǝ2y·/ŜyűŜℕ у	tℕŜKʎăű2ℕʎŎ	LyŜfʎƎʎōfŜ Ŧƨℕ bw I t	b2ű 9ØI·fdzI·ŭŜŘ ōè { I t h
yh{ллммм	I ŜÈI·Ǝ2y·/ŜyűŜℕ ф	tℕŜKʎăű2ℕʎŎ fI·Ŏ]ʎyƎ LJ2ŭűŜℕè	LyŜfʎƎʎōfŜ Ŧƨℕ bw I t	LyŜfʎƎʎōfŜ Ŧƨℕ bw I t
yh{ллммн	I ŜÈI·Ǝ2y·/ŜyűŜℕ мл	tℕŜKʎăű2ℕʎŎ	LyŜfʎƎʎōfŜ Ŧƨℕ bw I t	LyãdzŦŦʎŎʎŜyű LyƒƨℕY·I·ůʎ2y·
yh{ллммо	I ŜÈI·Ǝ2y·/ŜyűŜℕ мм	tℕŜKʎăű2ℕʎŎ	LyŜfʎƎʎōfŜ Ŧƨℕ bw I t	b2ű 9ØI·fdzI·ŭŜŘ ōè { I t h
yh{ллммп	I ŜÈI·Ǝ2y·/ŜyűŜℕ мн	tℕŜKʎăű2ℕʎŎ	LyŜfʎƎʎōfŜ Ŧƨℕ bw I t	b2ű 9ØI·fdzI·ŭŜŘ ōè { I t h
yh{ллммр	I ŜÈI·Ǝ2y·/ŜyűŜℕ мо	tℕŜKʎăű2ℕʎŎ	LyŜfʎƎʎōfŜ Ŧƨℕ bw I t	b2ű 9ØI·fdzI·ŭŜŘ ōè { I t h
yh{ллмнф	5ʎăyŜè рллл у	tℕŜKʎăű2ℕʎŎ fI·Ŏ]ʎyƎ LJ2ŭűŜℕè	LyŜfʎƎʎōfŜ Ŧƨℕ bw I t	LyŜfʎƎʎōfŜ Ŧƨℕ bw I t
yh{ллмол	5ʎăyŜè рллл ф	tℕŜKʎăű2ℕʎŎ fI·Ŏ]ʎyƎ LJ2ŭűŜℕè	LyŜfʎƎʎōfŜ Ŧƨℕ bw I t	LyŜfʎƎʎōfŜ Ŧƨℕ bw I t
yh{ллмом	5ʎăyŜè рллл мл	tℕŜKʎăű2ℕʎŎ fI·Ŏ]ʎyƎ LJ2ŭűŜℕè	LyŜfʎƎʎōfŜ Ŧƨℕ bw I t	LyŜfʎƎʎōfŜ Ŧƨℕ bw I t
yh{ллмон	5ʎăyŜè рллл мм	tℕŜKʎăű2ℕʎŎ fI·Ŏ]ʎyƎ LJ2ŭűŜℕè	LyŜfʎƎʎōfŜ Ŧƨℕ bw I t	LyŜfʎƎʎōfŜ Ŧƨℕ bw I t

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Archaeological Sites				
FMSF No.	**Name**	**Primary Time Period**	**Surveyor Evaluation**	**SHPO Evaluation**
yh{лллмоо	5ƛăyŜè рллл мн	tNŜKƛăúƨNNǑ fl·Ǒ]ƛyƎ LJƨúúŜNè	LyŜfƛƎƛōfŜ ŦƨN bwlt	LyŜfƛƎƛōfŜ ŦƨN bwlt
yh{лллмпн	{úƨfŜy˙ . l·úúŜNè	tNŜKƛăúƨNNǑ fl·Ǒ]ƛyƎ LJƨúúŜNè	LyŜfƛƎƛōfŜ ŦƨN bwlt	LyŜfƛƎƛōfŜ ŦƨN bwlt
yh{лллмрл	DƛfY˙l·N	tNŜKƛăúƨNNǑ fl·Ǒ]ƛyƎ LJƨúúŜNè	LyŜfƛƎƛōfŜ ŦƨN bwlt	LyŜfƛƎƛōfŜ ŦƨN bwlt
yh{лллмрм	tl·N]ŜN lƛƎKǿl·è	tNŜKƛăúƨNNǑ fl·Ǒ]ƛyƎ LJƨúúŜNè	LyŜfƛƎƛōfŜ ŦƨN bwlt	LyŜfƛƎƛōfŜ ŦƨN bwlt
yh{лллмрн	lèŜN	5ŜLJNŜăăƛ2y˙l·yŘ bŜǿ 5Ŝl·fƐ мфол-мфпл	LyŜfƛƎƛōfŜ ŦƨN bwlt	LyŜfƛƎƛōfŜ ŦƨN bwlt
yh{ллрус	lŜƛŘNNǑK . l·Ny˙		LyŜfƛƎƛōfŜ ŦƨN bwlt	LyŜfƛƎƛōfŜ ŦƨN bwlt
yh{ллрут	.dzNyű DN2ØŜ		bƨű 9Ø1·fdzl·úŜŘ ōè wŜǑ2NŘŜN	LyŜfƛƎƛōfŜ ŦƨN bwlt
yh{ллруу	.2NŘŜN {f2dzƎK		LyŜfƛƎƛōfŜ ŦƨN bwlt	LyŜfƛƎƛōfŜ ŦƨN bwlt
yh{ллруф	{ǿl·Y˙LJΩă 9ŘƎŜ		LyŜfƛƎƛōfŜ ŦƨN bwlt	LyŜfƛƎƛōfŜ ŦƨN bwlt
yh{ллрфл	/2dzyűè w2l·Ř wƛŘƎŜ		LyŜfƛƎƛōfŜ ŦƨN bwlt	LyŜfƛƎƛōfŜ ŦƨN bwlt
yh{ллрфм	wŜŜŘè {f2dzƎK	tNŜKƛăúƨNNǑ fl·Ǒ]ƛyƎ LJƨúúŜNè	LyŜfƛƎƛōfŜ ŦƨN bwlt	LyŜfƛƎƛōfŜ ŦƨN bwlt
yh{ллрфн	tƛyŜè lăfl·yŘ		bƨű 9Ø1·fdzl·úŜŘ ōè wŜǑ2NŘŜN	LyŜfƛƎƛōfŜ ŦƨN bwlt
yh{ллрфо	5l·ØŜy˙LJƨNú /NŜŜ]	tNŜKƛăúƨNNǑ fl·Ǒ]ƛyƎ LJƨúúŜNè	LyŜfƛƎƛōfŜ ŦƨN bwlt	LyŜfƛƎƛōfŜ ŦƨN bwlt
yh{ллрфп	/NŜŜ] /N2ăăƛyƎ	bƛyŜúŜŜyűK ǑŜy˙dzNè !Y˙ŜNNǑl·yΣ мунм-муфф	LyŜfƛƎƛōfŜ ŦƨN bwlt	LyŜfƛƎƛōfŜ ŦƨN bwlt
yh{ллрфр	bƨNúK t2ƛyű		LyŜfƛƎƛōfŜ ŦƨN bwlt	LyŜfƛƎƛōfŜ ŦƨN bwlt
yh{ллрфс	{2dzúK t2ƛyű		LyŜfƛƎƛōfŜ ŦƨN bwlt	LyŜfƛƎƛōfŜ ŦƨN bwlt
yh{ллрфт	hdzúLJl·NǑŜf н		LyŜfƛƎƛōfŜ ŦƨN bwlt	LyŜfƛƎƛōfŜ ŦƨN bwlt
yh{ллсмм	/l·yŜ lăfl·yŘ т	tNŜKƛăúƨNNǑ fl·Ǒ]ƛyƎ LJƨúúŜNè	LyŜfƛƎƛōfŜ ŦƨN bwlt	LyŜfƛƎƛōfŜ ŦƨN bwlt
yh{ллсмо	5l·ØŜy˙LJƨNú {ǿl·Y˙LJ	tNŜKƛăúƨNNǑ fl·Ǒ]ƛyƎ LJƨúúŜNè	LyŜfƛƎƛōfŜ ŦƨN bwlt	bƨű 9Ø1·fdzl·úŜŘ ōè {lth
yh{лмтнм	aƨNyƛyƎ 5Ŝǿ	tNŜKƛăúƨNNǑ fl·Ǒ]ƛyƎ LJƨúúŜNè	bƨű 9Ø1·fdzl·úŜŘ ōè wŜǑ2NŘŜN	LyŜfƛƎƛōfŜ ŦƨN bwlt
yh{лмтнн	wŜŘú2LJ	tNŜKƛăúƨNNǑ fl·Ǒ]ƛyƎ LJƨúúŜNè	LyŜfƛƎƛōfŜ ŦƨN bwlt	LyŜfƛƎƛōfŜ ŦƨN bwlt
yh{лмтнс	.ŜŜKƛØŜ lƛft	!Y˙ŜNNǑl·yΣ мунм-LJNŜăŜyű	9fƛƎƛōfŜ ŦƨN bwlt	bƨű 9Ø1·fdzl·úŜŘ ōè {lth
yh{лмтнт	aƨăǑl·	!NǑKl·ƛǑΣ урлл .ф/ф-млллл .ф/ф	LyŜfƛƎƛōfŜ ŦƨN bwlt	bƨű 9Ø1·fdzl·úŜŘ ōè {lth
yh{лмттт	bƨNúK t2ƛyű	tNŜKƛăúƨNNǑ	LyŜfƛƎƛōfŜ ŦƨN bwlt	LyŜfƛƎƛōfŜ ŦƨN bwlt
yh{лмтур	CŜfƛÈ м	tNŜKƛăúƨNNǑ fl·Ǒ]ƛyƎ LJƨúúŜNè	LyŜfƛƎƛōfŜ ŦƨN bwlt	LyŜfƛƎƛōfŜ ŦƨN bwlt
yh{лмтус	CŜfƛÈ н	tNŜKƛăúƨNNǑ fl·Ǒ]ƛyƎ LJƨúúŜNè	LyŜfƛƎƛōfŜ ŦƨN bwlt	LyŜfƛƎƛōfŜ ŦƨN bwlt
yh{лмтфн	[ƨyŜ tl·ǿ tl·ǿ	tNŜKƛăúƨNNǑ fl·Ǒ]ƛyƎ LJƨúúŜNè	LyŜfƛƎƛōfŜ ŦƨN bwlt	LyŜfƛƎƛōfŜ ŦƨN bwlt
yh{лмупр	Wwмуп	tNŜKƛăúƨNNǑ fl·Ǒ]ƛyƎ LJƨúúŜNè	LyŜfƛƎƛōfŜ ŦƨN bwlt	LyŜfƛƎƛōfŜ ŦƨN bwlt
yh{лмусм	Ww мфп	tNŜKƛăúƨNNǑ fl·Ǒ]ƛyƎ LJƨúúŜNè	bƨű 9Ø1·fdzl·úŜŘ ōè wŜǑ2NŘŜN	LyŜfƛƎƛōfŜ ŦƨN bwlt

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Archaeological Sites				
FMSF No.	**Name**	**Primary Time Period**	**Surveyor Evaluation**	**SHPO Evaluation**
yh{лмуст	Wwннл	bλlyŜúŜŜyűK ŎŜyűdzNè !Y ŜNλŎl·yΣ мунм-муфф	LyŜfλΞλōfŜ ŦƵN bwIt	LyŜfλΞλōfŜ ŦƵN bwIt
yh{лмусу	/w99Y Chw5	bλlyŜúŜŜyűK ŎŜyűdzNè !Y ŜNλŎl·yΣ мунм-муфф	LyŜfλΞλōfŜ ŦƵN bwIt	tƵúŜyűλl·ffê 9fλΞλōfŜ ŦƵN bwIt
yh{лносн	YλúŎKŜyãλyʃ	¢ǿŜyűλŜúK ŎŜyűdzNè !Y ŜNλŎl·yΣ мфлл-LJNŜăŜyű	LyŜfλΞλōfŜ ŦƵN bwIt	LyŜfλΞλōfŜ ŦƵN bwIt
yh{лносс	bl·údzNŜă tNŜăŜNØŜ Iм	!NŎKl·λŎΣ урлл .ф/ф-млллл .ф/ф	LyŜfλΞλōfŜ ŦƵN bwIt	LyŜfλΞλōfŜ ŦƵN bwIt
yh{лнпру	Il·YY2Ŏʃ {λúŜ	tNŜKλăú2NλŎ	LyŜfλΞλōfŜ ŦƵN bwIt	LyŜfλΞλōfŜ ŦƵN bwIt
yh{лнпсс	wŜŜŘè /NŜŜʃ tN2Y2yű2Nè	!NŎKl·λŎΣ урлл .ф/ф-млллл .ф/ф	LyãdzŦŦλŎλŜyű LyŦ2NYl·ûλ2y	b2ű 9Øl·fdzl·ûŜŘ ōè {lth
yh{лнтср	C[-мтф	¢ǿŜyűλŜúK ŎŜyűdzNè !Y ŜNλŎl·yΣ мфлл-LJNŜăŜyű	LyãdzŦŦλŎλŜyű LyŦ2NYl·ûλ2y	LyãdzŦŦλŎλŜyű LyŦ2NYl·ûλ2y
ythлсупл	tλyʃ C2È wdzy	tNŜKλăú2NλŎ fl·ŎʃλyƎ LJ2ûúŜNè	LyŜfλΞλōfŜ ŦƵN bwIt	LyŜfλΞλōfŜ ŦƵN bwIt
ythлнноп	.fl·ŎʃōdzNy	¢ǿŜyűλŜúK ŎŜyűdzNè !Y ŜNλŎl·yΣ мфлл-LJNŜăŜyű	LyŜfλΞλōfŜ ŦƵN bwIt	LyŜfλΞλōfŜ ŦƵN bwIt
ythлофсу	[2ăű tŜyŷê	tNŜKλăú2NλŎ fl·ŎʃλyƎ LJ2ûúŜNè	LyŜfλΞλōfŜ ŦƵN bwIt	LyŜfλΞλōfŜ ŦƵN bwIt
ythлофсф	{2Ř {úNλLJă	tNŜKλăú2NλŎ fl·ŎʃλyƎ LJ2ûúŜNè	LyŜfλΞλōfŜ ŦƵN bwIt	LyŜfλΞλōfŜ ŦƵN bwIt
ythлсмрм	Ww-co	!Y ŜNλŎl·yΣ мунм-LJNŜăŜyű	LyŜfλΞλōfŜ ŦƵN bwIt	LyŜfλΞλōfŜ ŦƵN bwIt
ythлсптм	Wwнлл	tNŜKλăú2NλŎ fl·ŎʃλyƎ LJ2ûúŜNè	LyŜfλΞλōfŜ ŦƵN bwIt	LyŜfλΞλōfŜ ŦƵN bwIt
ythлсунс	[2dzƎKYl·y{λűŜ	bλyŜúŜŜyűK ŎŜyűdzNè !Y ŜNλŎl·yΣ мунм-муфф	LyŜfλΞλōfŜ ŦƵN bwIt	LyŜfλΞλōfŜ ŦƵN bwIt
ythлтмлн	[l·ʃŜ ²λfă2yм	{ű¢ W2Kyã∑ тлл .ф/ф-!ф5ф мрлл	LyŜfλΞλōfŜ ŦƵN bwIt	LyŜfλΞλōfŜ ŦƵN bwIt
ythлтмло	[l·ʃŜ ²λfă2yн	{ű¢ W2Kyã∑ тлл .ф/ф-!ф5ф мрлл	LyŜfλΞλōfŜ ŦƵN bwIt	LyŜfλΞλōfŜ ŦƵN bwIt
ythлтмлп	[l·ʃŜ ²λfă2yo	tNŜKλăú2NλŎ fl·ŎʃλyƎ LJ2ûúŜNè	LyŜfλΞλōfŜ ŦƵN bwIt	LyŜfλΞλōfŜ ŦƵN bwIt
ythлтмлр	[l·ʃŜ ²λfă2yп	{ű¢ W2Kyã∑ тлл .ф/ф-!ф5ф мрлл	LyŜfλΞλōfŜ ŦƵN bwIt	LyŜfλΞλōfŜ ŦƵN bwIt
ythлтмлс	[l·ʃŜ ²λfă2yp	tNŜKλăú2NλŎ fl·ŎʃλyƎ LJ2ûúŜNè	LyŜfλΞλōfŜ ŦƵN bwIt	LyŜfλΞλōfŜ ŦƵN bwIt
ythлтмфф	¢KŜ DλLJLJŜN	tNŜKλăú2NλŎ ǿλúK LJ2ûúŜNè	LyŜfλΞλōfŜ ŦƵN bwIt	LyŜfλΞλōfŜ ŦƵN bwIt
ythлттмм	C{/ Ip	tNŜKλăú2NλŎ fl·ŎʃλyƎ LJ2ûúŜNè	LyŜfλΞλōfŜ ŦƵN bwIt	LyŜfλΞλōfŜ ŦƵN bwIt
ythлттрс	C{/ Imy	tNŜKλăú2NλŎ ǿλúK LJ2ûúŜNè	LyŜfλΞλōfŜ ŦƵN bwIt	LyŜfλΞλōfŜ ŦƵN bwIt

Yellow highlighted rows indicate NRHP eligibility or additional worked needed for evaluation needed.

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APPENDIX E

l l·Î l·ŇŽdzǎ a l·ǘŜŇƛl·t {ƛǘŜǎ κ /ƶyűl·Yˇƛyl·ǘƛƶyˇ

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Potential Contaminated Sites
Poinciana Parkway Extension / I-4 Connector
October 2017

Site #	Facility Name / Address / Permit or ID Numbers	Distance / Direction from Nearest Project Alternative	Facility Type / Potential Contamination Concern	Regulatory Status	Contamination Potential
M	/2Y LJNŜăă2N {úI·úλ2y b2φ ом тнт {2dzúK hfŘ [I·٦Ŝ ² λfă2y w2I·Ř YλăăλYY ŜŜΣ C[оптпт !Lw{ L5 b2φ лфтллтт	! Ř2I·ÔŜyú ú2 LyűŜNÕKI·yƎŜă пнфпо I·yŘ пнфпрφ орл ŕúφ y2NúKøŜáú 2ŕ ! fúφ н ! пр	DI·ă Ô2YLJNŜăă2N áúI·úλ2y	CI·ÔλfßúÈ Y I·λyúI·λyã I· ÖdzNNŜyú I·ΛN 2LJŜNI·úλyƎ LJŜNY λúφ CI·ÔλfßúÈ λyÕ2YLJfßI·yÕŜ LJŜN fI·úŜáú Õ2YLJfßI·yÕŜ NŜLJ2Nú ŘI·úŜŘ тknлмтφ	¢Kλă ŦI·ÔλfßúÈ 2LJŜNI·úŜă I· нΣннр K2NăŜLJ2øŜN yI·údzNI·f ƎI·ăπŦΛNŜŘ ŜyƎλyŜ LJŜNY λúúŜŘ ú2 2LJŜNI·úŜ dzyŘŜN C59t ! ΛN hLJŜNI·úλyƎ tŜNY λú b2φ лфтллттπллрπ ! hφ ¢KŜ ŦI·ÔλfßúÈ λă λyÕ2YLJfßI·yÕŜφ . I·ăŜŘ 2y úKŜ áúI·údză 2ŕ úKλă ŦI·ÔλfßúÈΣ úKŜNŜ λă I· f2ø LJ2úŜyűλI·f Ŧ2N Õ2yűI·YλyI·úλ2yλYLJI·Ôúăφ
H	тπ9fŜØŜyC22Ř {ú2NŜ Iоонпф унлм /KI·YLJλ2yã DI·úŜ . 2dzfŜØI·NŘ /KI·YLJλ2yã DI·úŜΣ C[ооуфс CI·Ôφ L5 b2φ фултспс	слл Ŧúφ y2NúKøŜáú 2ŕ LyűŜNÕKI·yƎŜă ронтпо ! I·yŘ ронтпо	tŜúN2fŜdzY	¢ø2 ¦{¢ă λyăŜNØλÕŜΣ λyãúI·ffŜŘ λyнллрφ b2 NŜLJ2NúŜŘ ŘλăÕKI·NƎŜăφ	¢Kλă ŦI·ÔλfßúÈ λă I·yI·ÔúλØŜ ƎI·ă áúI·úλ2yΣ øKλÕK ÕdzNNŜyűfè YI·λyűI·λyã ú ø2 ¦{¢ăφ ¢KŜNŜ KI·ØŜ ōŜŜyy2 ŘλăÕKI·NƎŜă NŜLJ2NúŜŘfè ōŜŜyNŜY2ØŜŘ ŦN2Y úKλă ŦI·ÔλfßúÈφ . I·ăŜŘ 2yúKŜ fI·Ô٦ 2ŕ NŜLJ2NúŜŘ ŘλăÕKI·NƎŜă I·yŘ úKŜ ŘλăúI·yÕŜ ŦN2Y úKŜ LJN2LJ2ăŜŘ I·ÔúλØλúλŜăΣ úKŜNŜ λă I· f2ø LJ2úŜyűλI·f Ŧ2N Õ2yűI·YλyI·úλ2yλYLJI·Ôúăφ
O	/NÕfŜ Y Iнтлуфсу к . t Iтфплс унлл /KI·YLJλ2yã DI·úŜ . 2dzfŜØI·NŘ 5I·ØŜyLJ2NúΣ C[ооуот CI·Ôφ L5 b2φ фулронсΣ фулронфΣ C[wллллммрпрм	пнл Ŧúφ y2NúKøŜáú 2ŕ LyűŜNÕKI·yƎŜă ронтпо ! I·yŘ ронтпо	tŜúN2fŜdzY	C2dzN ¦{¢ă λyăŜNØλÕŜΣ λyãúI·ffŜŘ λyнллнφ tŜúN2fŜdzY ŘλăÕKI·NƎŜ NŜLJ2NúŜŘ мнкнллфφ {λúŜ wŜKI·ōfßúI·úλ2y /2YLJfŜúλ2y hNŘŜN λăădzŜŘ млкнлмнφ w/w ! {vDΣ Ôf2ăŜŘ λyнллпφ	¢Kλă ŦI·ÔλfßúÈ λă I·yI·ÔúλØŜ ƎI·ă áúI·úλ2yΣ øKλÕK ÕdzNNŜyűfè YI·λyűI·λyã Ŧ2dzN ¦{¢ăφ ¢KŜ ŦI·ÔλfßúÈ NŜLJ2NúŜŘ I·LJŜúN2fŜdzY ŘλăÕKI·NƎŜ λy5ŜÕŜY ōŜN нллфΣ ōdzú I·ÔKλŜØŜŘ NŜƎdzfI·ú2N ÕfŁ2ădzNŜ λyнлмн øλúK úKŜ λăădzI·yÕŜ 2ŕ I· {w/h ŦN2Y C59tφ ¢KŜNŜ KI·ØŜ ōŜŜy y2 I·ŘŘNúλ2yI·f ŘλăÕKI·NƎŜă NŜLJ2NúŜŘφ . I·ăŜŘ 2yúKŜ ăúI·údză 2ŕ úKλă ŦI·ÔλfßúÈ I·yŘ úKŜ ŘλăúI·yÕŜ ŦN2Y úKŜ LJN2LJ2ăŜŘ I·ÔúλØλúλŜăΣ úKŜNŜ λă I· f2ø LJ2úŜyűλI·f Ŧ2N Õ2yűI·YλyI·úλ2y λYLJI·Ôúăφ
П	hØI·úλ2y /tŜI·yŜNă туфл [I·٦Ŝ ² λfă2y w2I·Ř 5I·ØŜyLJ2NúΣ C[ооуот CI·Ôφ L5 b2φ фуммоур	прл Ŧúφ ă2dzúK 2ŕ ! fúăφ оπн I·yŘ оπр	5NèÕfŜI·yIyƎ ă2fØŜyűă	[λăúŜŘ I·ă I· ŘNèÕfŜI·yIyƎ ŦI·ÔλfßúÈ λyűKŜ C59t ăú2NI·ƎŜ úI·y٦ ŘI·úI·ōI·ăŜΣ øλúK 2yŜ ! {¢ Õ2yűI·λyIyƎ ŘNèÕfŜI·yIyƎ ă2fØŜyűăφ 5ŜúI·ftă 2ŕ ăLJŜÕλŦλÕ 2LJSNI·úλ2yã I·yŘk2N ÔKŜYλÕI·fă dzăŜŘ ø I·ă y2ú λŘŜyűλŦλŜŘφ	¢Kλă ŦI·ÔλfßúÈ ø I·ă fIăúŜŘ I·ă I· ŘNèÕfŜI·yIyƎ ŦI·ÔλfßúÈΣ øλúK y2 NŜLJ2NúŜŘ ŘλăÕKI·NƎŜă . I·ăŜŘ 2yúKŜ fI·Ô٦ 2ŕ NŜLJ2NúŜŘ ŘλăÕKI·NƎŜă I·yŘ úKŜ ŘλăúI·yÕŜ ŦN2Y úKŜ LJN2LJ2ăŜŘ I·ÔúλØλúλŜăΣ úKŜNŜ λă I· f2ø LJ2úŜyűλI·f Ŧ2N Õ2yűI·YλyI·úλ2yλYLJI·Ôúăφ
p	tdzōfIÈ {dzLJŜN a I·N٦Ŝú Iммфр ттлл hăÔŜ2fI· t2f٦ [λyŜ w2I·Ř 5I·ØŜyLJ2NúΣ C[ооуфс CI·Ôφ L5 b2φ фумлрмф	слл Ŧúφ ă2dzúK 2ŕ ! fúăφ оπн I·yŘ оπр	tŜúN2fŜdzY	hyŜ mΣллππƎI·ff2yŜYŜNƎŜyÕè ƎŜyŜNI·ú2N ŘλŜăŜf ! {¢ λyăŜNØλÕŜΣ λyãúI·ffŜŘ λyнллуφ CI·ÔλfßúÈ λyÕ2YLJfßI·yÕŜ LJŜN мнкнлмс λyãLJŜÕúλ2yφ	¢Kλă ŦI·ÔλfßúÈ ÕdzNNŜyűfè Õ2yűI·λyã 2yŜ ŜYŜNƎŜyÕè ƎŜyŜNI·ú2N ŘλŜăŜf ! {¢φ ¢KŜNŜ KI·ØŜ ōŜŜyy2 ŘλăÕKI·NƎŜă NŜLJ2NúŜŘ Ŧ2N úKλă ŦI·ÔλfßúÈφ . I·ăŜŘ 2yúKŜ fI·Ô٦ 2ŕ NŜLJ2NúŜŘ ŘλăÕKI·NƎŜă I·yŘ úKŜ ŘλăúI·yÕŜ ŦN2Y úKŜ LJN2LJ2ăŜŘ I·ÔúλØλúλŜăΣ úKŜNŜ λă I· f2ø LJ2úŜyűλI·f Ŧ2N Õ2yűI·YλyI·úλ2yλYLJI·Ôúăφ
c	/2Îè DN2ØŜ /I·YLJƎN2dzyŘ ɔ a2ōλfŜ I2YŜ tI·N٦ трлл IλƎKøI·è рон 5I·ØŜyLJ2NúΣ C[ооуот CI·Ôφ L5 b2φ утоптфт	трл Ŧúφ ă2dzúK 2ŕ ! fúăφ оπн I·yŘ оπр	tŜúN2fŜdzY	hyŜ рллππƎI·ff2ydzyfŜI·ŘŜŘ ƎI·ă ¦{¢ NŜYƎØŜŘ ŦN2Y ăλúŜ λyмффлφ	¢Kλă λă I· Õf2ăŜŘ ăú2NI·ƎŜ úI·y٦ ŦI·ÔλfßúÈΣ øKλÕK Ŧ2NYŜNfè Õ2yűI·λyŜŘ 2yŜ LJŜúN2fŜdzY ¦{¢Σ øKλÕK KI·ă NŜLJ2NúŜŘfè ōŜŜyNŜY2ØŜŘ ŦN2Y úKŜ ăúŜφ b2 2úKŜN ăú2NI·ƎŜ úI·y٦ă I·NŜ NŜLJ2NúŜŘfè λyLJfI·ÔŜ I·ű úKλă ŦI·ÔλfßúÈΣ I·yŘ y2 ŘλăÕKI·NƎŜă KI·ØŜ ōŜŜyNŜLJ2NúŜŘφ . I·ăŜŘ 2yúKŜ fI·Ô٦ 2ŕ NŜLJ2NúŜŘ ŘλăÕKI·NƎŜă I·yŘ úKŜ ŘλăúI·yÕŜ ŦN2Y úKŜ LJN2LJ2ăŜŘ I·ÔúλØλúλŜăΣ úKŜNŜ λă I· f2ø LJ2úŜyűλI·f Ŧ2N Õ2yűI·YλyI·úλ2yλYLJI·Ôúăφ
T	t2f٦ /2dzyúè ¦úλfßúλŜă π [I·٦Ŝ ² λfă2y aI·ăúŜN [λŦú {úI·úλ2y трмл [I·٦Ŝ ² λfă2y w2I·Ř 5I·ØŜyLJ2NúΣ C[ооуфс CI·Ôφ L5 b2φ фулфнфо	сол Ŧúφ ă2dzúK 2ŕ ! fúăφ оπн I·yŘ оπр	tŜúN2fŜdzY	hyŜ фллππƎI·ff2yŜYŜNƎŜyÕè ƎŜyŜNI·ú2N ŘλŜăŜf ! {¢ λyăŜNØλÕŜΣ λyãúI·ffŜŘ λyнллтφ CI·ÔλfßúÈ λyÕ2YLJfßI·yÕŜ LJŜN ркнлмт λyãLJŜÕúλ2yφ	¢Kλă ŦI·ÔλfßúÈ ÕdzNNŜyűfè Õ2yűI·λyã 2yŜ ŜYŜNƎŜyÕè ƎŜyŜNI·ú2N ŘλŜăŜf ! {¢φ ¢KŜNŜ KI·ØŜ ōŜŜyy2 ŘλăÕKI·NƎŜă NŜLJ2NúŜŘ Ŧ2N úKλă ŦI·ÔλfßúÈφ . I·ăŜŘ 2yúKŜ fI·Ô٦ 2ŕ NŜLJ2NúŜŘ ŘλăÕKI·NƎŜă I·yŘ úKŜ ŘλăúI·yÕŜ ŦN2Y úKŜ LJN2LJ2ăŜŘ I·ÔúλØλúλŜăΣ úKŜNŜ λă I· f2ø LJ2úŜyűλI·f Ŧ2N Õ2yűI·YλyI·úλ2yλYLJI·Ôúăφ
y	/±{ tKI·NYI·Ôè Iмтрл тртр hăÔŜ2fI· t2f٦ [λyŜ w2I·Ř 5I·ØŜyLJ2NúΣ C[ооуфс C[wллмусноф	! Ř2I·ÔŜyú ú2 úKŜ y2NúK 2ŕ ! fúăφ оπн I·yŘ оπр	w/w ! II·Î I·NŘ2dză ² I·ăúŜ ŦI·ÔλfßúÈ	w/w ! {vD I·yŘ II·yŘfŜN óōI·úúŜNλŜăΣ LJŜăúλÕλŜăΣ LJKI·NYI·ÔŜdzúλÕI·făΣ YŜNÕdzNèπÕ2yűI·λyIyƎ fI·YLJáú	¢Kλă ŦI·ÔλfßúÈ λă fIăúŜŘ I·ă I· w/w ! {YI·ff vdzI·yűúÈ DŜySNI·ú2N I·yŘ II·yŘfŜN 2ŕ KI·ÎI·NŘ2dză øI·ăúŜΣ λyŘλÕI·úλyƎ úKI·ű úKŜ ŦI·ÔλfßúÈ ƎŜyŜNI·úŜă ōŜűøŜŜyмллππмΣллл]ƎкY2yűK 2ŕ y2yfI·Ôdzú Ŝ KI·ÎI·NŘ2dză øI·ăúŜ I·yŘк2N м]Ǝ 2N fŜää 2ŕ I·Ôdzú Ŝ KI·ÎI·NŘ2dză øI·ăúŜφ b2 Ø\2fI·úλ2yã 2N ŘλăÕKI·NƎŜă KI·ØŜ ōŜŜyNŜLJ2NúŜŘ Ŧ2NY úKλă ŦI·ÔλfßúÈφ . I·ăŜŘ 2yúKŜ ăúI·údză 2ŕ úKŜ ŦI·ÔλfßúÈ I·yŘ úKŜ fI·Ô٦ 2ŕ NŜLJ2NúŜŘ ŘλăÕKI·NƎŜă úKŜNŜ λă I· f2ø LJ2úŜyűλI·f Ŧ2N Õ2yűI·YλyI·úλ2yλYLJI·Ôúăφ

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Potential Contaminated Sites
Poinciana Parkway Extension / I-4 Connector
October 2017

Site #	Facility Name / Address / Permit or ID Numbers	Distance / Direction from Nearest Project Alternative	Facility Type / Potential Contamination Concern	Regulatory Status	Contamination Potential
ф	тπ9fŜØŜy˙C22Ř {ú2ℕŜ Iоплпр тртр hăÕŜ2fl· t2f] [λyŜ w2l·Ř 5l·ØŜyŁJ2ℕúΣ C[ооуфс Cl·Ö◊ L5 b2◊ фумлслм	! Ř2l·ÖŜyű ú2 úKŜ y2ℕúK 2ŦŦ ! fűă◊ оπн l·yŘ оπр	t Ŝúℕ2fŜdzY	¢ǿ2 ¦{¢ă λy˙ăŜℕØλÕŜΣ λyãúł·ffŜŘ λy˙ннлу◊ b2 ℕŜŁJ2ℕúŜŘ ŘλăÕKl·ℕ∃Ŝă◊ Cl·ÖλfßúÈ λy˙Ô2Y˙ŁJfßl·yÕŜ ŁJŜℕ нкнлмт λyãŁJŜÕúλ2y◊	¢Kλă ŦI·ÖλfßúÈ λă l·y˙l·ÖúλØŜ ∃l·ă ăúł·úλ2yΣ ØKλÕK ÖdzℕℕŜyűfê Ô2yűł·λyã úǿ2 dzyfŜl·ŘŜŘ ∃l·ă ¦{¢ă◊ ¢KŜℕŜ Kl·ØŜ ōŜŜy˙y2 ŘλăÕKl·ℕ∃Ŝă ℕŜŁJ2ℕúŜŘ Ř2ÕdzY˙ŜyűŜŘ ŁJŜăúλÒλŘŜ Ô2yűł·λyã úǿ2 мΣллπ∃l·ff2y˙ !{¢ă ódzyfŜl·ŘŜŘ ∃l·ă l·yŘ ØŜKλÕdzfl·ℕ ŘλŜăŜfú◊ ¢KŜℕŜ Kl·ØŜ ōŜŜy˙y2 ŘλăÕKl·ℕ∃Ŝă ℕŜŁJ2ℕúŜŘ Ř2ℕ úKλă Ŧl·ÖλfßúÈ◊ . l·ăŜŘ 2y˙úKŜ fl·Ö] 2Ŧ ℕŜŁJ2ℕúŜŘ ŘλăÕKl·ℕ∃ŜăΣ úKŜℕŜ λă l· f2ǿ ŁJ2ΰŜyűλl·f Ř2ℕ Ô2yűł·Y˙λyl·úλ2y˙λY˙ŁJl·Ôΰă◊
мл	wŜdzyλ2y˙wŜă2ℕú 2Ŧ hℕfl·yŘ2 тоур hăÕŜ2fl· t2f] [λyŜ w2l·Ř 5l·ØŜyŁJ2ℕúΣ C[ооуфс Cl·Ö◊ L5 b2◊ фулрпсп	! Ř2l·ÖŜyű ú2 úKŜ y2ℕúK 2Ŧ ! fűă◊ оπн l·yŘ оπр	t Ŝúℕ2fŜdzY	¢ǿ2 ! {¢ă λy˙ăŜℕØλÕŜΣ λyãúł·ffŜŘ λy˙нлло◊ b2 ℕŜŁJ2ℕúŜŘ ŘλăÕKl·ℕ∃Ŝă◊ Cl·ÖλfßúÈ λy˙Ô2Y˙ŁJfßl·yÕŜ ŁJŜℕ скнлмс λyãŁJŜÕúλ2y◊	¢Kλă ŦI·ÖλfßúÈ ÖdzℕℕŜyűfê Õ2yűł·λyã úǿ2 мΣллπ∃l·ff2y˙ !{¢ă ódzyfŜl·ŘŜŘ ∃l·ă l·yŘ ØŜKλÕdzfl·ℕ ŘλŜăŜfú◊ ¢KŜℕŜ Kl·ØŜ ōŜŜy˙y2 ŘλăÕKl·ℕ∃Ŝă ℕŜŁJ2ℕúŜŘ Ř2ℕ úKλă Ŧl·ÖλfßúÈ◊ . l·ăŜŘ 2y˙úKŜ fl·Ö] 2Ŧ ℕŜŁJ2ℕúŜŘ ŘλăÕKl·ℕ∃ŜăΣ úKŜℕŜ λă l· f2ǿ ŁJ2ΰŜyűλl·f Ř2ℕ Ô2yűł·Y˙λyl·úλ2y˙λY˙ŁJl·Ôΰă◊
мм	Yλăăλ˙Y˙Y˙ŜŜ /λΰè π{ ² ² ² ¢t тонр hăÕŜ2fl· t2f] [λyŜ w2l·Ř 5l·ØŜyŁJ2ℕúΣ C[ооуфс Cl·Ö◊ L5 b2◊ фулсоот	плл Ŧű◊ y2ℕúK 2Ŧ ! fűă◊ оπн l·yŘ оπр	t Ŝúℕ2fŜdzY	hyŜ cΣллπ∃l·ff2y˙ŜyŜyŜℕl·ΰ2ℕκŁJdzY˙ŁJ ŘλŜăŜf !{¢Σ λyăúł·ffŜŘ λy˙нлло◊ b2 ℕŜŁJ2ℕúŜŘ ŘλăÕKl·ℕ∃Ŝă◊ Cl·ÖλfßúÈ λy˙Ô2Y˙ŁJfßl·yÕŜ ŁJŜℕ мнкнлмс λyãŁJŜÕúλ2y◊	¢Kλă ŦI·ÖλfßúÈ ÖdzℕℕŜyűfê Õ2yűł·λyã 2yŜ ∃ŜyŜℕl·ΰ2ℕκŁJdzY˙ŁJ ŘλŜăŜf !{¢◊ ¢KŜℕŜ Kl·ØŜ ōŜŜy˙y2 ŘλăÕKl·ℕ∃Ŝă ℕŜŁJ2ℕúŜŘ Ř2ℕ úKλă Ŧl·ÖλfßúÈ◊ . l·ăŜŘ 2y˙úKŜ fl·Ö] 2Ŧ ℕŜŁJ2ℕúŜŘ ŘλăÕKl·ℕ∃Ŝă l·yŘ úKŜ Řλăúł·yÕŜ Ŧℕ2Y˙ úKŜ ŁJℕ2ŁJ2ăŜŘ l·ÖúλØλúλŜăΣ úKŜℕŜ λă l· f2ǿ ŁJ2ΰŜyűλl·f Ř2ℕ Ô2yűł·Y˙λyl·úλ2y˙λY˙ŁJl·Ôΰă◊
мн	tℕ2∃ℕŜää 9yŜℕ∃è /Kl·Y˙ŁJλ2yã Dl·úŜ {dzōăúł·úλ2y˙ унлл hăÕŜ2fl· t2f] [λyŜ w2l·Ř Cl·Ö◊ L5 b2◊ олмоусконнфну	! Ř2l·ÖŜyű ú2 úKŜ ăždzúK 2Ŧ ! fűă◊ оπн l·yŘ оπр	9fŜÖúℕλÕ ădzōăúł·úλ2y˙ óY˙λyŜℕł·f 2λf ŘλŜfŜÕúℕλÕ ŦfdzλŘú	¢ǿ2 ŘλăÕKl·ℕ∃Ŝă ΰ2 Ŝljdzλ˙ŁJY˙Ŝyű ŁJł·Řă λŘŜyűλŦλŜŘ ŘdzℕλyΣ ннло λyãŁJŜÕúλ2y◊ {dzōăúł·úλ2y˙ !ăăŜăăY˙Ŝyű l·yŘ wŜY˙ŜŘλł·f !Öúλ2y˙tfl·y˙ Ô2Y˙ŁJfŜűŜŘ скнллу◊	¢Kλă ŦI·ÖλfßúÈ λă l·y˙ŜfŜÕúℕλÕ dzúλfßúÈ ădzōăúł·úλ2y◊ ! Õ2yăŜyű 2ℕŘŜℕ λăădzŜŘ ōè C59t ℕŜljdzλℕŜŘ l·ăăŜăăY˙Ŝyű l·yŘ ℕŜY˙ŜŘλł·úλ2y˙2Ŧ l·yèˆλŘŜyűλŦλŜŘ ŘλăÕKl·ℕ∃Ŝă ΰ2 úKŜ ∃ℕ2dzyŘ l·yŘ ΰ2 Ŝljdzλ˙ŁJY˙Ŝyű ŁJł·Řă◊ ¢ǿ2 ădzÕK ŘλăÕKl·ℕ∃Ŝă ôŁJł·Ř ăúł·λyλyŁ∃ú øŜℕŜ 2ōăŜℕØŜŘ l·ΰ úKλă Ŧl·ÖλfßúÈ◊ {2λf l·yŘ ∃ℕ2dzyŘøł·úŜℕ ăl·Y˙ŁJfλyŁ∃ λy˙úKŜ l·ℕŜł·ă 2Ŧ 2ōăŜℕØŜŘ ăúł·λyλyŁ∃ ŘλŘ y2ΰ λŘŜyűλŦè l·yè Ô2yűł·Y˙λyl·yűă 2Ŧ Ô2yÕŜℕy◊ ! ℕŜÕ2Y˙Y˙ŜyŘł·úλ2y˙Ŧ2ℕ b2 CdzℕúKŜℕ !Õúλ2y˙øł·ă l·ŁJŁJℕ2ØŜŘ ōè C59t λy˙Wdzfê нллу◊ . l·ăŜŘ 2y˙úKŜ ăúł·údză 2Ŧ úKŜ Ŧl·ÖλfßúÈΣ úKŜℕŜ λă l· f2ǿ ŁJ2ΰŜyűλl·f Ř2ℕ Ô2yűł·Y˙λyl·úλ2y˙λY˙ŁJl·Ôΰă◊
мо	a l·∃y2fλl· /ℕŜŜ] 9l·ăΰ {2dzΰK [l·]Ŝ ² λfă2y˙w2l·Ř ŁyΰŜℕÕŜăăλ2y˙/λΰèΣ C[Cl·Ö◊ L5 b2◊ олмнускурофл	срл Ŧű◊ ă2dzΰK 2Ŧ ! fΰ◊ н ! πр	t ŜăúλÒλŘŜă	/2yűł·Y˙λyl·ΰŜŘ ă2λf ℕŜY˙2Øłfŏŏ2yŘdzÕΰŜŘ λy˙ мффсπмффт◊ {w/h ℕŜÕŜλØŜŘ млкмффт◊	¢Kλă ŦI·ÖλfßúÈ ŁJℕŜØλ2dzăfê ℕŜŁJ2ℕúŜŘ Ř2ÕdzY˙ŜyűŜŘ ŁJŜăúλÒλŘŜ Ô2yűł·Y˙λyl·úλ2y˙λy˙ă2λfă◊ {2λf ŜĚÒł·Ø1·úλ2y˙ø1·ă ŁJŜℕŦ2ℕY˙ŜŘ λy˙мффс l·yŘ мффтΣ l·f2yЭ ǿλΰK ∃ℕ2dzyŘøł·ΰŜℕ Y˙2yλΰ2ℕλyЭ◊ ¢KŜ Ŧl·ÖλfßúÈ l·ÒKλŜØŜŘ ℕŜ∃dzfl·ΰ2ℕè Ôf2ădzℕŜ λy˙hÕΰ2ōŜℕ мффт ǿλΰK ΰKŜ λăădzl·yÕŜ 2Ŧ l· {w/h ŦℕY˙ ΰKŜ C59t◊ . l·ăŜŘ 2y˙úKŜ ăúł·údză 2Ŧ ΰKŜ Ŧl·ÖλfßúÈΣ ΰKŜℕŜ λă l· f2ǿ ŁJ2ΰŜyűλl·f Ř2ℕ Ô2yűł·Y˙λyl·úλ2y˙λY˙ŁJl·Ôΰă◊
мп	wŜdzyλ2y˙{ΰł·úλ2y˙ hăÕŜ2fl· t2f] [λyŜ w2l·Ř ŁyΰŜℕÕŜăăλ2y˙/λΰèΣ C[ооупу !ŁW{ L5 b2◊ лфтллфн	тлл Ŧű◊ y2ℕúKŜl·ăΰ 2Ŧ ! fΰă◊ н ! πмΣ н ! πнΣ l·yŘ оπр	Dl·ă Õ2Y˙ŁJℕŜăă2ℕ ăúł·úλ2y˙	Cl·ÖλfßúÈ λăădzŜŘ l·y˙ ! λℕ /2yãúℕdzÕΰúλ2y˙ t ŜℕY˙λΰ λy˙ ркнлмр◊ b2ΰλÒŜ 2Ŧ Õ2yãúℕdzÕΰúλ2y˙ Ô2Y˙Y˙ŜyÒŜY˙Ŝyΰ ŁJℕ2ØλŘŜŘ нкнлмт◊	¢Kλă ŦI·ÖλfßúÈ ǿl·ă λăădzŜŘ l·y˙ ! λℕ /2yãúℕdzÕΰúλ2y˙ t ŜℕY˙λΰ b2◊ лфтллфнπллмπ ! / Ŧ2ℕ ΰKŜ Õ2yãúℕdzÕΰúλ2y˙2Ŧ l· yΥ·údzℕl·f ∃l·ă Õ2Y˙ŁJℕŜăă2ℕ ăúł·úλ2y◊ /2yãúℕdzÕΰúλ2y˙ℕŜŁJ2ℕúŜŘfê Õ2Y˙Y˙ŜyÕŜŘ λy˙CŜÖℕdzl·ℕè нлмт◊ b2 l·λℕ ŜY˙λăăλ2y˙Řl·úl· 2ℕ Õ2Y˙ŁJfßl·yÕŜ Ř2ÕdzY˙Ŝyűł·úλ2y˙øł·ă l·Øl·λfł·ōfŜ Ŧ2ℕ ℕŜØλŜø◊ . l·ăŜŘ 2y˙úKŜ fl·Ö] 2Ŧ ℕŜŁJ2ℕúŜŘ ŘλăÕKl·ℕ∃Ŝă l·yŘ úKŜ Řλăúł·yÕŜ ŦℕY˙ úKŜ ŁJℕ2ŁJ2äŜŘ l·ÖúλØλúλŜăΣ úKŜℕŜ λă l· f2ǿ ŁJ2ΰŜyűλl·f Ř2ℕ Õ2yűł·Y˙λyl·úλ2y˙λY˙ŁJl·Ôΰă◊
мр	/dzăΰ2Y˙ ϑ /fl·ăăλÓ !dzΰ2 {ŁJŜÕλl·fλăΰ сстм hăÕŜ2fl· t2f] [λyŜ w2l·Ř 5l·ØŜyŁJ2ℕúΣ C[ооуфс C[wллллнсмсм	нлл Ŧű◊ ØŜăΰ 2Ŧ ! fΰă◊ н ! πп l·yŘ н ! πр	w/w! l l·Î·ℕŘ2dză ² l·ăúŜ Ŧl·ÖλfßúÈ	w/w! /9{vD óKl·f2∃ŜyΥ·ΰŜŘ l·yŘ y2yπ Kl·f2∃ŜyΥ·ΰŜŘ ă2fØŜyΰăú	¢Kλă ŦI·ÖλfßúÈ λă fλăΰŜŘ l·ă l· w/w! /2yŘλΰλ2yΥ·ffê 9ÊŜY˙ŁJΰ {Y˙l·ff vdzl·yΰλΰè DŜyŜℕl·ΰ2ℕ 2Ŧ Kl·Î·ℕŘ2dză ǿl·ăΰŜΣ λyŘλÕΥ·ΰλyЭ ΰKl·ΰ ΰKŜ Ŧl·ÖλfßúÈ ∃ŜyŜℕl·ΰŜă fŜăă ΰKl·y˙ннл ˥∃кY˙2yΰK 2Ŧ Kl·Î·ℕŘ2dză ǿl·ăΰŜ◊ b2 Ø2ł·ΰλ2yă 2ℕ ŘλăÕKl·ℕ∃Ŝă Kl·Ø◊ ôŜŜy˙ℕŜŁJ2ℕúŜŘ Ŧ2ℕ úKλă Ŧl·ÖλfßúÈ◊ . l·ăŜŘ 2y˙úKŜ fl·Ö] 2Ŧ ℕŜŁJ2ℕúŜŘ ŘλăÕKl·ℕ∃ŜăΣ úKŜℕŜ λă l· f2ǿ ŁJ2ΰŜyűλl·f Ř2ℕ Ô2yűł·Y˙λyl·úλ2y˙λY˙ŁJl·Ôΰă◊

REFERENCE COPY

Potential Contaminated Sites
Poinciana Parkway Extension / I-4 Connector
October 2017

Site #	Facility Name / Address / Permit or ID Numbers	Distance / Direction from Nearest Project Alternative	Facility Type / Potential Contamination Concern	Regulatory Status	Contamination Potential
мс	5dz]Ŝ 9yŜNƎè LyűŜNÔŜăăλ2Y /λűè {dzõăűI·úλ2y´к LyűŜNÔŜăăλ2Y´/λűè /2Y´ōdzăűλ2y´¢dzNōλyŜ tfI·yű cpнp hăÔŜ2fI· t2f] [λyŜ w2I·Ř 5I·ØŜyLJ2NűΣ C[ooyфc CI·Ô¢L5 b2¢ /h aψooплпcΣ yуплфлфΣ !Lw{ L5 b2¢ лфтллмпΣ C[5фумлмфоуо	нлл ŦűΦ ŜI·ăű 2Ŧ !fűă¢ н!πп I·yŘ н!πр	t2øŜN LJfI·yű ŦI·ÔλfλűèbdzY´ŜN2dză ăű2NI·ƎŜ űI·y]ă I·yŘ ŝfŜŐúNλÔI·f ƎŜyŜNI·úλyƎ dzyλűă¢ /fŜI·yűzLJ I·ÔűλØλűλŜa I·NŜ NŜLJ2NűŜŘfê 2yƎ2λyƎ Ŧ2N úø2 ăŜLJI·NI·ûŜ NŜLJ2NűŜŘ ŘλăÔKI·NƎŜăΣ ŘI·ûŜŘ мкмффл I·yŘ ткнллс¢ ! wŜY´ŜŘλI·f !ÔűλY´tfI·y´øI·ă I·LJLJN2ØŜŘ λy´нлмо Ŧ2N úKŜ мффл ŘλăÔKI·NƎŜΣ ûY I·ŘŘNŜăă LJŜúN2fŜdzY´Ô2yűI·Yλy1·yűă λy´ă2λf I·yŘ ƎN2dzyŘøI·ûŜN¢ !ÔÔ2NŘλyƎ ûY úKŜ Y´Y2ăű NŜÔŜyű I·y1·fêűλÔI·f ŘI·úI· I·ØI·λfI·ōfŜ Ŧ2N NŜØλŜøΣ ŘI·ûŜŘ hÔűY2ōŜN нлмоΣ úKŜ Õ2yűI·Yλy1·yű λYLJI·Ôűă I·LJLJŜI·N ûY2 ōŜ fλY´λúŜŘ ûY2 I· ăY´I·ff I·NŜI· 2yăλúΣ I·LJLJN2ÈλY´I·ûŜfê mΣфлл ŦŜŜú ŜI·ăű 2Ŧ úKŜ LJN2LJ2ăŜŘ !fűŜNy1·úλØŜă н!πп I·yŘ н!πр¢ CdzyŘλyƎ Ŧ2N ŦdzNűKŜN I·ăăŜăăY´Ŝyű I·yŘ ÔfŜI·yűzLJ ōŜÔI·Y´Ŝ I·Ø I·λfI·ōfŜ λy´нлмрΣ I·yŘ I· ăλúŜ I·ÔÔŜăă I·ƎNŜY´Ŝyű ø I·ă Õ2Y´LJfŜúŜŘ λy´hÕűz0ŜN нлмс¢ !ŘŘλúλ2y1·f ŘŜúI·λfă 2Ŧ I·ăăŜăăY´Ŝyű I·yŘk2N ŐfŜI·yűzLJ I·ÔűλØλúλŜa ălyÕŜ úKI·ű úλY´Ŝ ø ŜNŜ y2ű I·Ø I·λfI·ōfŜ ¢KŜ ŦI·ÔλfλűèbdzNŜyűfê LJdzNădzλyƎ I· {w/h øλúK Õ2yŘλúλ2yă Ŧ2N úKŜ нллс ŘλăÔKI·NƎŜ¢ !ÔÔ2NŘλyƎ û2 úKŜ I·Ø I·λfI·ōfŜ Ř2ÔdzY´SyűăΣ I· 5ŜÕfI·NI·ûλ2y´2Ŧ wŜăúNλÔúλØŜ /2ØŜy1·yű ó5w/ú ăă ōŜλyƎ LJNNŜLJI·NŜŘΣ øKλÔK λyÕfdzŘŜă ŜyƎλyŜŜNλyƎ I·yŘ λyăúλúdzúλ2y1·f Õ2yűN2fă λy´úKŜ Ŧ2NY´2Ŧ I· ăKI·ff2ø ƎN2dzyŘøI·ûŜN dzăŜ NŜăúNλÔúλ2y´I·yŘ ă2λf NŜăúNλÔúŜŘ I·NŜI·¢ ¢KŜăŜ Õ2yűN2fă I·NŜ λyűŜyŘŜŘ û2 I·ŘŘNŜăă úKŜ fλY´λúŜŘ I·NŜI·ă 2Ŧ LJŜúN2fŜdzY´Õ2yűI·Yλy1·yűă NŜY´I·λyλyƎ λy´LJfI·ÔŜ 2y´úKŜ ăλúŜ¢ ¢KŜ ƎN2dzyŘøI·ûŜN I·yŘ ă2λf NŜăúNλÔúŜŘ I·NŜI·ă I·NŜ f2Ô1·úŜŘ I·LJLJN2ÈλY´I·ûŜfê mΣулл ŦŜŜú ŜI·ăű 2Ŧ úKŜ LJN2LJ2ăŜŘ !fűŜNy1·úλØŜă н!πп I·yŘ н!πр¢ ¢KŜ 5w/ øI·ă ădzōY´λúûŜŘ λy´Wdzfê нлмтΣ I·yŘ λă I·øI·λúλyƎ I·LJLJN2ØI·f I·yŘ úKŜ Õ2yŘλúλ2y1·f {w/h KI·ă ëŜú û2 ōŜ λăădzŜŘ¢ . I·ăŜŘ 2y´úKŜ NŜƎdzfI·û2Nê ăű I·údză 2Ŧ úKλă ŦI·ÔλfλűèΣ I·yŘ úKŜ ŘλăűI·yÕŜ 2Ŧ úKŜ λŘŜyűλŦλŜŘ Õ2yűI·Yλy1·yű ŜĖúŜyűă ŦN2Y´úKŜ LJN2LJ2ăŜŘ I·ÔúØλúλŜăΣ úKŜNŜ λă I·f2ø LJ2úŜyűλI·f Ŧ2N Õ2yűI·Yλy1·úλ2y´λYLJI·Ôűă¢ CdzNúKŜN λyØŜăúλƎI·úλ2y´YI·è ōŜ øI·NNI·yűŜŘ ăK2dzfŘ Õ2yăúNdzÕúλ2y´ŘŜøI·ûŜNλyƎ ōŜ NŜIjdzNŜŘ¢
мт	wI·Yō2 ɜ {2yã ¢NdzÕ]λyƎ LyÕ¢ I λƎKøI·è мтпфн ɜ [I·ō2N /I·YLJ w2I·Ř 5I·ØŜyLJ2NűΣ C[ooyфc CI·Ô¢L5 b2¢ фултонт	[2ÕI·ûŜŘ øλúKλy´úKŜ LJN2LJ2ăŜŘ flY´λúă 2Ŧ !fűă¢ н!п пΣ н!πрΣ опрΣ I·yŘ o!πр	tŜúN2fŜdzY	5λŜăŜf ŦdzŜf ăLJλff NŜLJ2NűŜŘ λy´мнкнллп¢ {w/h λăădzŜŘ нкнллс¢	! ŘλŜăŜf ŦdzŜf ăLJλff øI·ă NŜLJ2NűŜŘ I·ű úKλă ŦI·ÔλfλűèbdzNŜ λy´5ŜÕŜY´ōŜN нллп¢ /fŜI·yűzLJ øI·ă Õ2yŘdzÕűŜŘ I·yŘ úKŜ ŦI·ÔλfλűèbdzNŜ I·ÔKλŜØŜŘ NŜƎdzfI·û2Nê Õf2ădzNŜ øλúK úKŜ λăădzI·yÕŜ 2Ŧ I· {w/h λy´нллс FN2Y´úKŜ C59t¢ b2 ăű2NI·ƎŜ úI·y1 λyŦ2NY´I·úλ2y´øI·ă λŘŜyűλŦλŜŘ Ŧ2N úKλă ŦI·ÔλfλűèbdzNŜ b2 I·ŘŘλúλ2y1·f ŘλăÔKI·NƎŜă KI·ØŜ ōŜŜy´NŜLJ2NűŜŘ¢ . I·ăŜŘ 2y´úKŜ NŜƎdzfI·û2Nê ăűI·údză 2Ŧ úKŜ ŦI·ÔλfλűèbdzNŜ úKŜNŜ λă I· f2ø LJ2úŜyűλI·f Ŧ2N Õ2yűI·Yλy1·úλ2y´λYLJI·Ôűă¢
му	CN2yűλŜN C[[[/π [2dzƎKY´I·y´w{¦ рол w2y1·fŘ wŜI·ƎI·y´tI·N]øI·è [2dzƎKY´I·yΣ C[ooypy CI·Ô¢L5 b2¢ фуммслф	урл ŦűΦ øŜăű 2Ŧ !fű¢ н!πм	tŜúN2fŜdzY	hyŜ mΣллππƎI·ff2y´ŜY´ŜNƎŜyÕè ƎŜyŜNI·ú2N ŘλŜăŜf !{¢ λy´ăŜNØλÔŜΣ λyãúI·ffŜŘ λy´нллф¢ CI·ÔλfλűèbdzY´Õ2Y´LJfλI·yÕŜ LJŜN ммкнлмс λyãLJŜÕúλ2y¢	¢KλăŦI·ÔλfλűèÕdzNNŜyűfê Õ2yűI·λyã 2yŜ ŜY´ŜNƎŜyÕè ƎŜyŜNI·ú2N ŘλŜăŜf !{¢¦ ¢KŜNŜ KI·ØŜ ōŜŜy´y2 ŘλăÔKI·NƎŜă NŜLJ2NűŜŘ Ŧ2N úKλă ŦI·ÔλfλűèbdzNŜ . I·ăŜŘ 2y´úKŜ fI·Ô] 2Ŧ NŜLJ2NűŜŘ ŘλăÔKI·NƎŜă I·yŘ úKŜ ŘλăűI·yÕŜ FN2Y´úKŜ LJN2LJ2ăŜŘ I·ÔúØλúλŜăΣ úKŜNŜ λă I· f2ø LJ2úŜyűλI·f Ŧ2N Õ2yűI·Yλy1·úλ2y´λYLJI·Ôűă¢
мф	¦{ t2ăúI·f {ŜNØλÔŜ рмм /2dzyűê w2I·Ř рп [2dzƎKY´I·yΣ C[ooypy CI·Ô¢L5 b2¢ фнлнтсл	улл ŦűΦ øŜăű 2Ŧ !fű¢ н!πм	tŜúN2fŜdzY	¢ø2]ŜN2ăŜyŜ ¦{¢ă óоллππƎI·ff2y´I·yŘ рллπ ƎI·ff2yű NŜY´2ØŜŘ FN2Y´úKŜ ăλúŜ λy´мффн¢ tŜúN2fŜdzY´ŘλăÔKI·NƎŜ NŜLJ2NűŜŘ ткмффн¢ {w/h λăădzŜŘ окнллм¢	¢KλăλăI· Õf2ăŜŘ ăű2NI·ƎŜ úI·y] ŦI·ÔλfλűèΣ øKλÔK Ŧ2NY´ŜNfê Õ2yűI·λyŜŘ ûø2]ŜN2ăŜyŜ ¦{¢ăΣ øKλÔK øŜNŜ NŜLJ2NűŜŘfê NŜY´2ØŜŘ λy´мффн¢ ¢KŜ ŦI·ÔλfλűèbdzNŜ I· LJŜúN2fŜdzY´ŘλăÔKI·NƎŜ λy´Wdzfê мффнΣ ōdzú I·ÔKλŜØŜŘ NŜƎdzfI·û2Nê Õf2ădzNŜ λy´нллм øλúK úKŜ λăădzI·yÕŜ 2Ŧ I· {w/h FN2Y´úKŜ C59t¢ b2 2úKŜN ăű2NI·ƎŜ úI·y]ă I·NŜ NŜLJ2NűŜŘfê λy´LJfI·ÔŜ I·ű úKλă ŦI·ÔλfλűèΣ I·yŘ y2 I·ŘŘλúλ2y1·f ŘλăÔKI·NƎŜă KI·ØŜ ōŜŜy´NŜLJ2NűŜŘ¢ . I·ăŜŘ 2y´úKŜ NŜƎdzfI·û2Nê ăűI·údză 2Ŧ úKŜ ŦI·ÔλfλűèbdzNŜ I·yŘ úKŜ ŘλăűI·yÕŜ FN2Y´úKŜ LJN2LJ2ăŜŘ I·ÔúØλúλŜăΣ úKŜNŜ λă I· f2ø LJ2úŜyűλI·f Ŧ2N Õ2yűI·Yλy1·úλ2y´λYLJI·Ôűă¢

REFERENCE COPY

Potential Contaminated Sites
Poinciana Parkway Extension / I-4 Connector
October 2017

Site #	Facility Name / Address / Permit or ID Numbers	Distance / Direction from Nearest Project Alternative	Facility Type / Potential Contamination Concern	Regulatory Status	Contamination Potential
нл	[2dzƎKY I·y´{ŜNØλǒŜ /ŜyúŜN сллп IλƎKǿI·è мтпфн b2NúK [2dzƎKY I·y£ C[ooуру CI·Ǒ℗ L5 b2℗ уснпонс	прл ₸ú℗ y2NúKŜI·ăú 2₸ ! fú℗ н ! п м	tŜúN2fŜdzY	{λÈ ¦ {¢ă£ ₸2dzN ! {¢ă LJNŜØλ2dzăfê NŜY´2ØŜŘ ₣N2Y ŭKŜ ăλúŜ 2N Ôf2ăŜŘ λy´LJfI·ÒŜ℗ tŜúN2fŜdzY ŘλăÔKI·NƎSă NŜLJ2NúŜŘ λy´скмффн I·yŘ скмффо℗ !ăăŜăăY´Ŝyú I·yŘ ŏfŜI·yǾzLJ I·ÔúØλúλŜă I·NŜ NŜLJ2NúŜŘfê 2yƎ2λyƎ℗	¢Kλă ₸I·ÕλfƑúê λă I· Ôf2ăŜŘ£ ₸2NY´ŜN NŜúI·λf ăúI·úλ2y´ØKλÔK LJNŜØλ2dzăfê Õ2yúI·λyŜŘ ăλÈ ¦ {¢ă I·yŘ ₸2dzN ! {¢ă℗ ¢KŜ ăú2NI·ƎŜ úI·y´ă KI·ØŜ NŜLJ2NúŜŘfê ŜλúKŜN ōŜŜy´NŜY´2ØŜŘ ₣N2Y ŭKŜ ăλúŜ 2N Ôf2ăŜŘ λy´LJfI·ÒŜ℗ tŜúN2fŜdzY KèŘN2ÒI·NōƏy´λY´LJI·Ôúă I·ŭ úKŜ ăλúŜ 2NƎλyI·úŜŘ ₣N2Y I· Õ2Y·ōλyI·úλ2y´2₸ NŜfŜI·ăŜă ₣N2Y ŭKŜ ₸2NY´ŜN 2yãλúŜ ¦ {¢ă I·yŘ Y´λƎNI·úλ2y´2₸ LJŜúN2fŜdzY ƎN2dzyŘǿI·úŜN LJfdzY´Ŝă 2NƎλyI·úλyƎ ₣N2Y ƎI·ă ăúI·úλ2yã f2ÕI·úŜŘ 2₣₣π ăλúŜ℗ DN2dzyŘǿI·úŜN úŜăúλyƎ λyŘλÔI·úŜŘ ŭKŜ LJŜúN2fŜdzY KèŘN2ÒI·NōƏy´LJfdzY´Ŝă ₣N2Y ŭKŜ 2₣₣ăλúŜ f2ÕI·úλ2yã KI·ØŜ I·úúŜyθzI·úŜŘ I·yŘ y2 f2yƎŜN Õ2yúNNλōdzúŜ ú2 ŭKŜ 2yãλúŜ LJŜúN2fŜdzY λY´LJI·Ôúă℗ I 2ǿŜØŜNƵ ŭKŜN ŜI·LJLJŜI·N ú2 ōŜ KèŘN2ÒI·NōƏyã f2ÕI·úŜŘ ōŜyŜI·ŭK ¦ { мтпфн ǿǿŜăú 2₸ úKŜ ăλúŜυ úKI·ú KI·ØŜ yƵú èŜú Õ2Y´LJfŜúŜfê Y´λƎNI·úŜŘ 2yú2 úKŜ ăλúŜ℗ DN2dzyŘǿI·úŜN ₣f2ǿ ŘλNŜÕúλ2y´λă ú2ǿI·NŘă úKŜ ŜI·ăúƵ I·ǿI·è ₣N2Y ŭKŜ LJN2LJ2ăŜŘ I·fúŜNyI·úλØ℗ [ƵyƎ ¢ŜN´Y bI·údzNI·f ! úúŜyθzI·úλ2y´a 2yñú2NλyƎ ó[¢b ! aυ ǿI·ă λyñúλI·úŜŘ λy´нлмоΣ ōdzú ǿI·ă úŜN´Y´λyI·úŜŘ λy´нлмп ŘdzŜ ú2 úKŜ ǿλŘŜyλyƎ 2₸ úKŜ I·ōdzúúλyƎ N2I·Řă ó ¦ { мтпфн I·yŘ YλyÝŜèπ I I·N´Y2y´w2I·Řú℗ ¢KŜ ŜÈλăúλyƎ Y´2yñú2NλyƎ ǿŜff yŜúǿ2N℄ ǿI·ă I·ōI·yŘ2ySŘ I·ú úKI·ú úλY´Ŝ℗ ¢KŜ Y´2ăú NŜÕŜyú ƎN2dzyŘǿI·úŜN ljdzI·fλúê ŘI·úI· ₣2N úKŜ ăλúŜΣ ŘI·úŜŘ hÕú2ōŜN нлмоΣ λyŘλÔI·úŜŘ úKI·ú Õ2yúI·Y´λyI·yú Õ2yÕŜyúNNI·úλ2yã ǿŜNŜ fλY´λúŜŘ ú2 úKŜ ǿŜăúŜNy´LJ2Núλ2y´2₸ úKŜ ăλúŜΣ I·f2yƎ ¦ { мтпфн℗ ! ŘŘλúλ2yI·f I·ăăŜăăY´Ŝyú I·ÔúØλúλŜă KI·ØŜ èŜú ú2 ōŜ Ô2Y´LJfŜúŜŘ ăλyÕŜ úKŜ ŭŜNY´λyI·úλ2y´2₸ [¢b ! aΣ ōdzú I·LJLJŜI·N ăŜú ú2 ōŜƎλy₸2ff2ǿλyƎ úKŜ ăλƎyλyƎ 2₸ I· ăλúŜ I·ÔÕŜăă I·ƎNŜŜY´Ŝyú I·yŘ LJNŜLJI·NI·úλ2y´2₸ I· I ŜI·fúK I·yŘ {I·₸Ŝúê tfI·y£ ŘI·úŜŘ Wdzfê нлмт℗ . I·ăŜŘ 2y´úKŜ ÔdzNNŜyú NŜƎdzfI·ú2Nè ăúI·údză 2₸ úKŜ ₸I·ÔλfƑúèΣ I·yŘ úKŜ 2ōăŜNØŜŘ ƎN2dzyŘǿI·úŜN ₣f2ǿ ŘλNŜÕúλ2y´I·ǿI·è ₣N2Y ŭKŜ ăλúŜ I·ÔÕŜăă I·ƎNŜŜY´Ŝyú I·yŘ LJNŜLJI·NI·úλ2y´2₸ I· I ŜI·fúK I·yŘ {I·₸Ŝúê tfI·y£ ŘI·úŜŘ Wdzfê нлмт℗ . I·ăŜŘ 2y´úKŜ ÔdzNNŜyú NŜƎdzfI·ú2Nè ăúI·údză 2₸ úKŜ ₸I·ÔλfƑúèΣ I·yŘ úKŜ 2ōăŜNØŜŘ ƎN2dzyŘǿI·úŜN ₣f2ǿ ŘλNŜÕúλ2y´I·ǿI·è ₣N2Y ŭKŜ LJN2LJ2ăŜŘ I·ÔúØλúλŜă£ úKŜNŜ λă I· f2ǿ LJ2úŜyúλI·f ₣2N Ô2yúI·Y´λyI·úλ2y´λY´LJI·Ôúă℗ CdzNúKŜN λyØŜăúλƎI·úλ2y´ Y´I·è ōŜ ǿI·NNI·yúŜŘ ăK2dzfŘ Õ2yăúNdzÕúλ2y´ŘŜǿI·úŜNλyƎ ōŜ NŜIjdzNNŜŘ℗
нм	9½ C22Ř {ú2NŜ Iм рфпр IλƎKǿI·è мтпфн b2NúK 5I·ØŜyLJ2Núú C[Σ ооурт CI·Ǒ℗ L5 b2℗ утосмср	мрл ₸ú℗ y2NúKŜI·ăú 2₸ ! fú℗ н ! п м	tŜúN2fŜdzY	C2dzN ¦ {¢ă ódzyfŜI·ŘŜŘ ƎI·ăΣ ØŜKλÕdzfI·N ŘλŜăŜfú NŜY´2ØŜŘ ₣N2Y ŭKŜ ăλúŜ λy´мфут℗ hyŜ нлΣллл πƎI·ff2y´ŘλŜăŜt ¦ {¢ ÕdzNNŜyúfê λy´ăŜNØλÔŜ℗ tŜúN2fŜdzY ŘλăÔKI·NƎŜ NŜLJ2NúŜŘ пкмфуу℗ {λúŜ wŜKI·ōλfƑúI·úλ2y´/2Y´LJfŜúλ2y´hNŘŜN λăădzŜŘ укнлмн℗	¢Kλă ₸I·ÕλfƑúê λă I·y´I·ÔúλØŜ ƎI·ă ăúI·úλ2yΣ ǿKλÔK ÕdzNNŜyúfê Y´I·λyúI·λyã 2yŜ ¦ {¢℗ ¢KŜ ₸I·ÕλfƑúê NŜLJ2NúŜŘ I· LJŜúN2fŜdzY ŘλăÔKI·NƎŜ λy´ ! LJNλf мфууΣ ōdzú I·ÔKλŜØŜŘ NŜƎdzfI·ú2Nè Õf2ădzNŜ λy´нлмн ǿλúK ŭKŜ λăădzI·yÕŜ 2₸ I· {w/h ₣N2Y C59t℗ ¢KŜNŜ KI·ØŜ ōŜŜy´y2 I·ŘŘλúλ2yI·f ŘλăÔKI·NƎŜă NŜLJ2NúŜŘ℗ . I·ăŜŘ 2y´úKŜ NŜƎdzfI·ú2Nè ăúI·údză 2₸ úKŜ ₸I·ÕλfƑúèΣ úKŜNŜ λă I· f2ǿ LJ2úŜyúλI·f ₣2N Ô2yúI·Y´λyI·úλ2y´λY´LJI·Ôúă℗
нн	hI·℄Kλffă 9ăúI·úŜă /2dzyúê w2I·Ř ɜ IλƎKǿI·è мтпфн [2dzƎKY I·y£ C[ооуот CI·Ǒ℗ L5 b2℗ флпсмлф	прл ₸ú℗ y2NúKŜI·ăú 2₸ ! fú℗ н ! п м	tŜúN2fŜdzY	{λÈ ¦ {¢ă ófŜI·ŘŜŘ ƎI·ăú LJNŜØλ2dzăfê NŜY´2ØŜŘ ₣N2Y ŭKŜ ăλúŜ℗ b2 ăú2NI·ƎŜ úI·y´ă NŜLJ2NúŜŘfê λy´ăŜNØλÔŜ I·ú úKŜ ₸I·ÕλfƑúè℗ tŜúN2fŜdzY ŘλăÔKI·NƎŜ NŜLJ2NúŜŘ ммкмфуф℗ b2 CdzNúKŜN ! Õúλ2y´λăădzŜŘ млкмффу℗	¢Kλă ₸I·ÕλfƑúê λă I· ₸2NY´ŜN ƎI·ă ăúI·úλ2yΣ ǿKλÔK LJNŜØλ2dzăfê Õ2yúI·λyŜŘ ăλÈ ¦ {¢ă ŭKI·ú KI·ØŜ ōŜŜy´NŜLJ2NúŜŘfê NŜY´2ØŜŘ ₣N2Y ŭKŜ ăλúŜ℗ ¢KŜ ₸I·ÕλfƑúê NŜLJ2NúŜŘ I· LJŜúN2fŜdzY ŘλăÔKI·NƎŜ λy´b2ØŜY´ōŜN мфуфΣ ōdzú I·ÔKλŜØŜŘ NŜƎdzfI·ú2Nè Õf2ădzNŜ λy´мфуу ǿλúK ŭKŜ λăădzI·yÕŜ 2₸ I· b2 CdzNúKŜN ! Õúλ2y´ócI·ú ăúI·údză ₣N2Y ŭKŜ C59t℗ ¢KŜNŜ KI·ØŜ ōŜŜy´y2 I·ŘŘλúλ2yI·f ŘλăÔKI·NƎŜă NŜLJ2NúŜŘ℗ . I·ăŜŘ 2y´úKŜ NŜƎdzfI·ú2Nè ăúI·údză 2₸ úKŜ ₸I·ÕλfƑúèΣ úKŜNŜ λă I· f2ǿ LJ2úŜyúλI·f ₣2N Ô2yúI·Y´λyI·úλ2y´λY´LJI·Ôúă℗
но	a I·ƨλ℄ a I·Núú слнм IλƎKǿI·è мтпфн b2NúK [2dzƎKY I·y£ C[ооуру CI·Ǒ℗ L5 b2℗ ууплоту	тлл ₸ú℗ y2NúKŜI·ăú 2₸ ! fú℗ н ! п м	tŜúN2fŜdzY	¢KNŜŜ млΣллππƎI·ff2y´¦ {¢ă ódzyfŜI·ŘŜŘ ƎI·ăú LJNŜØλ2dzăfê NŜY´2ØŜŘ ₣N2Y ŭKŜ ăλúŜ λy´мфуу℗ b2 ăú2NI·ƎŜ úI·y℄ă NŜLJ2NúŜŘfê λy´ăŜNØλÔŜ I·ú úKŜ ₸I·ÕλfƑúè℗ tŜúN2fŜdzY ŘλăÔKI·NƎŜ NŜLJ2NúŜŘ укллс℗ {w/h λăădzŜŘ пкннлуу℗	¢Kλă ₸I·ÕλfƑúê λă I· ₸2NY´ŜN ƎI·ă ăúI·úλ2yΣ ǿKλÔK LJNŜØλ2dzăfê Õ2yúI·λyŜŘ úKNŜŜ ¦ {¢ă ŭKI·ú KI·ØŜ ōŜŜy´NŜLJ2NúŜŘfê NŜY´2ØŜŘ ₣N2Y ŭKŜ ăλúŜ℗ ¢KŜ ₸I·ÕλfƑúè NŜLJ2NúŜŘ I· LJŜúN2fŜdzY ŘλăÔKI·NƎŜ λy´ ! dzƎdzăú нллсΣ ōdzú I·ÔKλŜØŜŘ NŜƎdzfI·ú2Nè Õf2ădzNŜ λy´нллу ǿλúK ŭKŜ λăădzI·yÕŜ 2₸ I· {w/h ₣N2Y ŭKŜ C59t℗ ¢KŜNŜ KI·ØŜ ōŜŜy´y2 I·ŘŘλúλ2yI·f ŘλăÔKI·NƎŜă NŜLJ2NúŜŘ℗ . I·ăŜŘ 2y´úKŜ NŜƎdzfI·ú2Nè ăúI·údză 2₸ úKŜ ₸I·ÕλfƑúè I·yŘ úKŜ ŘλăúI·yÕŜ ₣N2Y ŭKŜ LJN2LJ2ăŜŘ I·ÔúØλúλŜă£ úKŜNŜ λă I· f2ǿ LJ2úŜyúλI·f ₣2N Ô2yúI·Y´λyI·úλ2y´λY´LJI·Ôúă℗

REFERENCE COPY

Potential Contaminated Sites
Poinciana Parkway Extension / I-4 Connector
October 2017

Site #	Facility Name / Address / Permit or ID Numbers	Distance / Direction from Nearest Project Alternative	Facility Type / Potential Contamination Concern	Regulatory Status	Contamination Potential
нп	l l·ℕú {úƨ2ℕl·∃Ŝ Cl·Ŏλ₺úê π [ƨdz∃KYl·y˙ сллп l λ∃Kǿl·è мтπфн [2dz∃KYl·yΣ C[ooypy Cl·Ŏ⊕ L5 b2⊕ фоллулт	улл ŦΰΦ yƨℕúKŜl·ăú 2Ŧ ! fΰΦ н ! π м	tŜúℕ2fŜdzY	hyŜ мнΣллππ∃l·ff2y˙ØŜKλÒdzfl·ℕ ŘλŜăŜf ! {¢ λyăΰl·ffŜŘ λy˙мффoΣ ǿKλÒK Kl·ă ăλyÒŜ ōŜŜy˙ ℕŜY2ØŜŘ ₣ℕ2Y ăλúŜ⊕ b2 ℕŜLJ2ℕúŜŘfê ŏΣyΰl·λyŜŘ 2yŜ ŝ ΣΣ	¢Kλă λă l· Ŏf2ăŜŘ ăΰ2ℕl·∃Ŝ úl·y˥ Ŧl·Ŏλ₺úêΣ ǿKλÒK Ŧ2ℕYŜℕfê Ŏ2yΰl·λyŜŘ 2yŜ LJŜúℕ2fŜdzY ! {¢Σ ǿKλÒK Kl·ă ℕŜLJ2ℕúŜŘfê ōŜŜy˙ℕŜY2ØŜŘ ₣ℕ2Y ΰKŜ ăλúŜ⊕ b2 2ΰKŜℕ ăΰ2ℕl·∃Ŝ úl·y˥ă l·ℕŜ ℕŜLJ2ℕúŜŘfê λy˙LJfl·ÔŜ l·ΰ ΰKλă Ŧl·Ŏλ₺úêΣ l·yŘ y2 ŘλăÒKl·ℕ∃Ŝă Kl·ØŜ ōŜŜy˙ℕŜLJ2ℕúŜŘ⊕ . l·ăŜŘ 2y˙ΰKŜ fl·Ŏ˥ 2Ŧ ℕŜLJ2ℕúŜŘ ŘλăÒKl·ℕ∃Ŝă Kl·ØŜ ōŜŜy˙ℕŜLJ2ℕúŜŘfê λy˙LJfl·ÔŜ l·ΰ ΰKλă Ŧl·Ŏλ₺úêΣ l·yŘ y2 ŘλăÒKl·ℕ∃Ŝă KlØŜ ōŜŜy˙ℕŜLJ2ℕúŜŘ⊕ . l·ăŜŘ 2y˙ΰKŜ fl·Ŏ˥ 2Ŧ ℕŜLJ2ℕúŜŘfê λy˙LJfl·ÔŜ l·ΰ ΰKλă Ŧl·Ŏλ₺úêΣ l·yŘ ΰKŜ Řλăΰl·yŎŜ ₣ℕ2Y ΰKŜ LJℕ2LJ2ăŜŘ l·ÔΰλØλΰλŜăΣ ΰKŜℕŜ λă l· f2ǿ LJ2ΰŜyΰλl·f Ŧ2ℕ Ŏ2yΰl·Yλyl·ΰλ2yλYLJl·Ôΰă⊕
нр	t2f˥ /2dzyΰê π tℕ2ØλŘŜyŎŜ ² l·ΰŜℕ tℕ2ŘdzÔΰλ2y˙Cl·Ŏ₺ΰê слм Yλyΰŝèπ l l·ℕY2y˙w2l·Ř [2dz∃KYl·yΣ C[oouфc Cl·Ŏ⊕ L5 b2⊕ фуммосн	! Řƨl·ŎŜyΰ ΰ2 ΰKŜ ă2dzΰK 2Ŧ ! fΰ⊕ н ! πм	tŜúℕ2fŜdzY	hyŜ oΣллππ∃l·ff2y˙ŜYŜℕ∃ŜyŎê ∃ŜyŜℕl·ΰ2ℕ ŘλŜăŜf ! {¢ λy˙ăŜℕØλÒŜΣ λyăΰl·ffŜŘ λy˙нллф⊕ Cl·Ŏ₺ΰê λy˙Ŏ2Y˙LJ₺l·yŎŜ LJŜℕ пкнлмт λyăLJŜŎΰλ2y⊕	¢Kλă Ŧl·Ŏ₺ΰê ŎdzℕℕŜyΰfê Ŏ2yΰl·λyă 2yŜ ŜY˙Ŝℕ∃ŜyŎê ∃ŜyŜℕl·ΰ2ℕ ŘλŜăŜf ! {¢⊕ ¢KŜℕŜ Kl·ØŜ ōŜŜy˙y2 ŘλăÒKl·ℕ∃Ŝă ℕŜLJ2ℕúŜŘ Ŧ2ℕ ΰKλă Ŧl·Ŏ₺ΰê . l·ăŜŘ 2y˙ΰKŜ fl·Ŏ˥ 2Ŧ ℕŜLJ2ℕúŜŘ ŘλăÒKl·ℕ∃Ŝă ΰKŜℕŜ λă l· f2ǿ LJ2ΰŜyΰλl·f Ŧ2ℕ Ŏ2yΰl·Yλyl·ΰλ2yλYLJl·Ôΰă⊕
нс	wŜŜŘè /ℕŜŜ˥ [l·yŘ . l·y˥ π орлл ! ŎℕŜ ¢ℕl·Ôΰ {ΰl·ΰŜ w2l·Ř pn [2dz∃KYl·yΣ C[оптру Cl·Ŏ⊕ L5 b2⊕ фултлмп	[2Ŏl·ΰŜŘ ǿλΰKλyˊΰKŜ LJℕ2LJ2ăŜŘ fλYλΰă 2Ŧ ! fΰă⊕ н ! π мΣ н ! πнΣ н ! πoΣ н ! ππΣ н ! πpΣ oт нΣ oπpΣ o ! πoΣ l·yŘ o ! πp	tŜúℕ2fŜdzY	C2ℕY˙ŜℕŘλŜăŜf ŦdzŜf ! {¢ă f2Ŏl·ΰŜŘ 2yãλΰŜ⊕ tŜúℕ2fŜdzY ŘλăÒKl·ℕ∃Ŝ ℕŜLJ2ℕúŜŘ ммкмффф⊕ {w/h λăădzŜŘ фкннллр⊕	¢Kλă Ŧl·Ŏ₺ΰê Ŧ2ℕY˙ŜℕŘfê Ŏ2yΰl·λyŜŘ l·y˙l·ℕŜl· ǿλΰK ăŜØŜℕl·f ŘλŜăŜf ŦdzŜf ! {¢ăΦ {LJŜŎλŦλŎ ŘŜΰl·λŦă ℕŜ∃l·ℕŘλyƎ ΰKŜ Ŧ2ℕY˙Ŝℕΰl·yˊă Ŏ2dzfŘ yΣú ōŜ λŘŜyΰλŦλŜŘ⊕ ¢KŜ Ŧl·Ŏλ₺úê ℕŜLJ2ℕúŜŘ l· LJŜúℕ2fŜdzY ŘλăÒKl·ℕ∃Ŝ λy˙b2ØŜY˙ōŜℕ мфффΣ ōdzú l·ŎKλŜØŜŘ ℕŜ∃dzfl·ú2ℕê Ŏf2ădzℕŜ λy˙нллр ǿλΰK ΰKŜ λăădzl·yŎŜ 2Ŧ l· {w/h ōê ΰKŜ⊕ b2 ăΰ2ℕl·∃Ŝ ΰl·y˥ă l·ℕŜ ℕŜLJ2ℕúŜŘfê λy˙LJfl·ÔŜ l·ΰ ΰKŜ Ŧl·Ŏλ₺úêΣ l·yŘ ΰKŜℕŜ Kl·ØŜ ōŜŜy˙y2 l·ŘŘλΰλ2yl·f ŘλăÒKl·ℕ∃Ŝă . l·ăŜŘ 2y˙ΰKŜ ℕŜ∃dzfl·ú2ℕê ăΰl·ΰdză 2Ŧ ΰKŜ Ŧl·Ŏλ₺úêΣ ΰKŜℕŜ λă l· f2ǿ LJ2ΰŜyΰλl·f Ŧ2ℕ Ŏ2yΰl·Yλyl·ΰλ2yλYLJl·Ôΰă⊕
нт	t2λyŎλl·yl· ¦ úλ₺úλŜă ² ² ¢t lн к {ŜØŜℕy˙ ¢ℕŜyΰ {ŜℕØλÒŜă пслм wK2Ř2ŘŜyŘℕ2y˙ ! ØŜyΰzŜ t2λyŎλl·yl·Σ C[оптру Cl·Ŏ⊕ L5 b2⊕ yyoурлоΣ фулултм	[2Ŏl·ΰŜŘ l·Řƨl·ŎŜyΰ ΰ2 l· LJℕ2LJ2ăŜŘ λyΰŜℕŎKl·yƎŜ l·ℕŜl·	tŜúℕ2fŜdzY	hyŜ oΣллππ∃l·ff2y˙ŜYŜℕ∃ŜyŎê ∃ŜyŜℕl·ΰ2ℕ ŘλŜăŜf ! {¢ l·yŘ 2yŜ мΣрллππ∃l·ff2y˙ØŜKλÒdzfl·ℕ ŘλŜăŜf ! {¢ λy˙ăŜℕØλÒŜΣ ǿKλÒK ǿŜℕŜ λyăΰl·ffŜŘ λy˙ мфут l·yŘ нллн⊕ ¢KŜ {ŜØŜℕy˙¢ℕŜyΰ Ŧl·Ŏλ₺úêΣ l·yŘ ΰKŜℕŜ Kl·ØŜ ōŜŜy˙y2 l·ŘŘλΰλ2yl·f ŘλăÒKl·ℕ∃Ŝă . l·ăŜŘ 2y˙ΰKŜ ℕŜ∃dzfl·ú2ℕê Ŏf2ădzℕŜ λy˙нллт ǿλΰK ΰKŜ λăădzl·yŎŜ 2Ŧ l· {w/h Ŧℕ2Y˙ ΰKŜ C59t⊕ b2 ăΰ2ℕl·∃Ŝ ΰl·y˥ă l·ℕŜ ℕŜLJ2ℕúŜŘfê λy˙LJfl·ÔŜ Ŧ2ℕ ΰKλă Ŧl·Ŏ₺ΰê ΰdzℕℕŜyΰfê Ŏ2yΰl·λyă ΰǿ2 ! {¢ă λy˙ăŜℕØλÒŜ⊕ b2 l·ŘŘλΰλ2yl·f ŘλăÒKl·ℕ∃Ŝă Kl·ØŜ ōŜŜy˙ℕŜLJ2ℕúŜŘ Ŧ2ℕ ΰKŜăŜ Ŧl·ŎλΰλŜă⊕ . l·ăŜŘ 2y˙ΰKŜ ăΰl·ΰdză 2Ŧ ΰKŜăŜ Ŧl·ŎλΰλŜăΣ ΰKŜℕŜ λă l· f2ǿ LJ2ΰŜyΰλl·f Ŧ2ℕ Ŏ2yΰl·Yλyl·ΰλ2yλYLJl·Ôΰă⊕

! {¢ Γ ! õ2ØŜ∃ℕ2dzyŘ {ΰ2ℕl·∃Ŝ ¢l·y˥
/9{vD Γ /2yŘλΰλ2yl·ffê 9ĒŜYLJΰ {Yl·ff vdzl·yΰλΰê DŜySℕl·ΰ2ℕ
C59t Γ Cf2ℕλŘl· 5ŜLJl·ℕΰY˙Ŝyΰ 2Ŧ 9yØℕ2yY˙Ŝyΰΰl·f tℕ2ΰŜŌΰλ2y˙
[¢b ! a Γ [2y∃ ¢ŜℕY˙ bl·ΰdzℕl·f ! ΰΰŜyΘzl·ΰλ2y˙ a 2yλΰ2ℕyƎ
bC ! Γ b2 CdzℕΰKŜℕ ! Ŏΰλ2y˙
w/w ! Γ wŜă2dzℕÔŜ /2yãŜℕØl·ΰλ2y˙l·yŘ wŜÔ2ØŜℕê ! Ôΰ
{vD Γ {Yl·ff vdzl·yΰλΰê DŜySℕl·ΰ2ℕ
{w/h Γ {λΰŜ wŜKl·Ōλΰΰΰl·ΰλ2y˙/2Y˙LJfŜΰλ2y˙hℕŘŜℕ
¦{¢ Γ ¦yŘŜℕ∃ℕ2dzyŘ {ΰ2ℕl·∃Ŝ ¢l·y˥

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APPENDIX F

/ƨyǒŜLJǘ tfl·yƒã ŦƨℕJ tƨƛyǒƛl·yl· tl·ℕJ⌊ǿl·è 9ỀLJl·yƒãƛƨy

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DATE	DESCRIPTION	DATE	DESCRIPTION

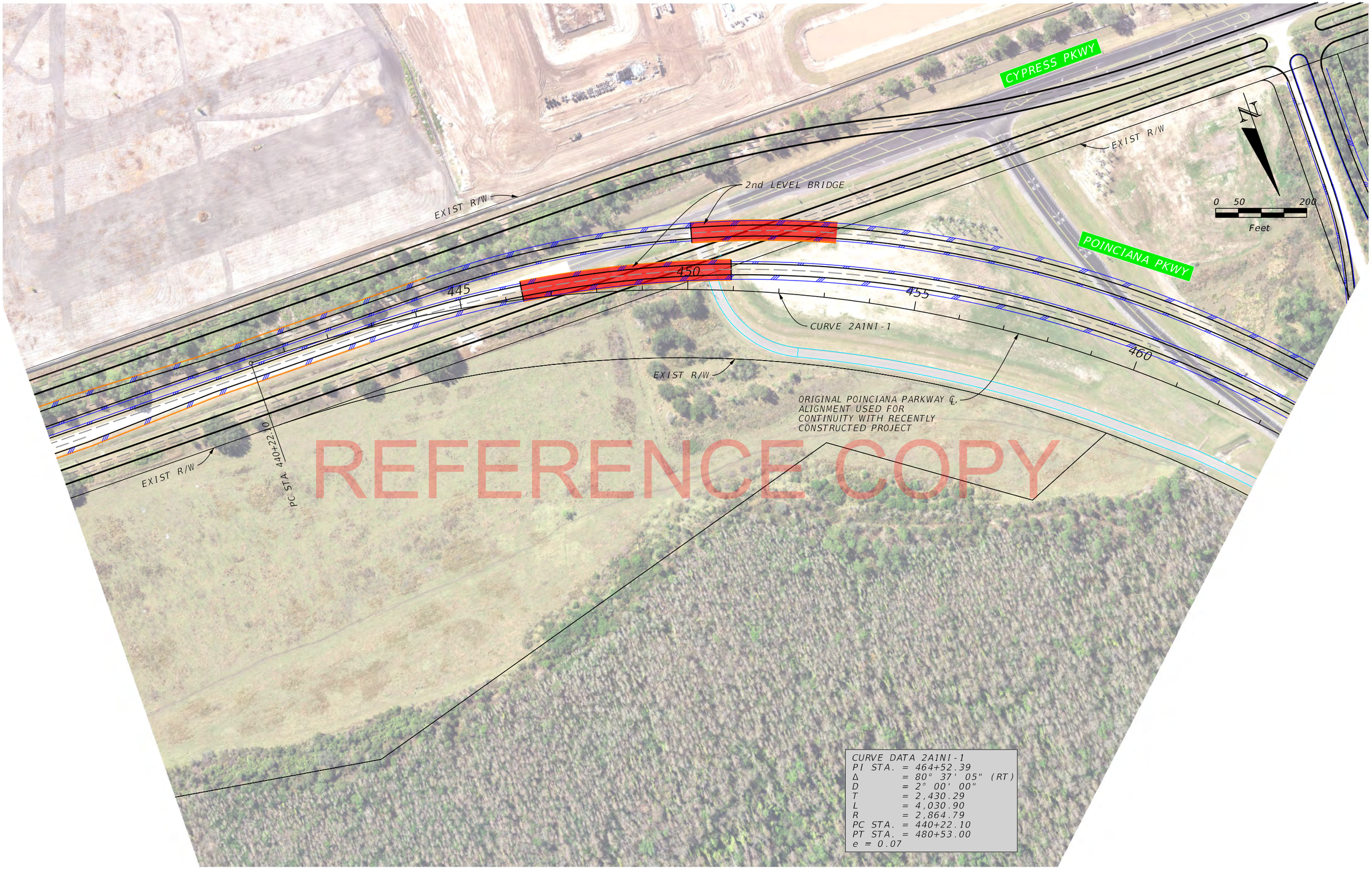
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Poinciana Parkway Expansion

SHEET NO.

PPE-1



REFERENCE COPY

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

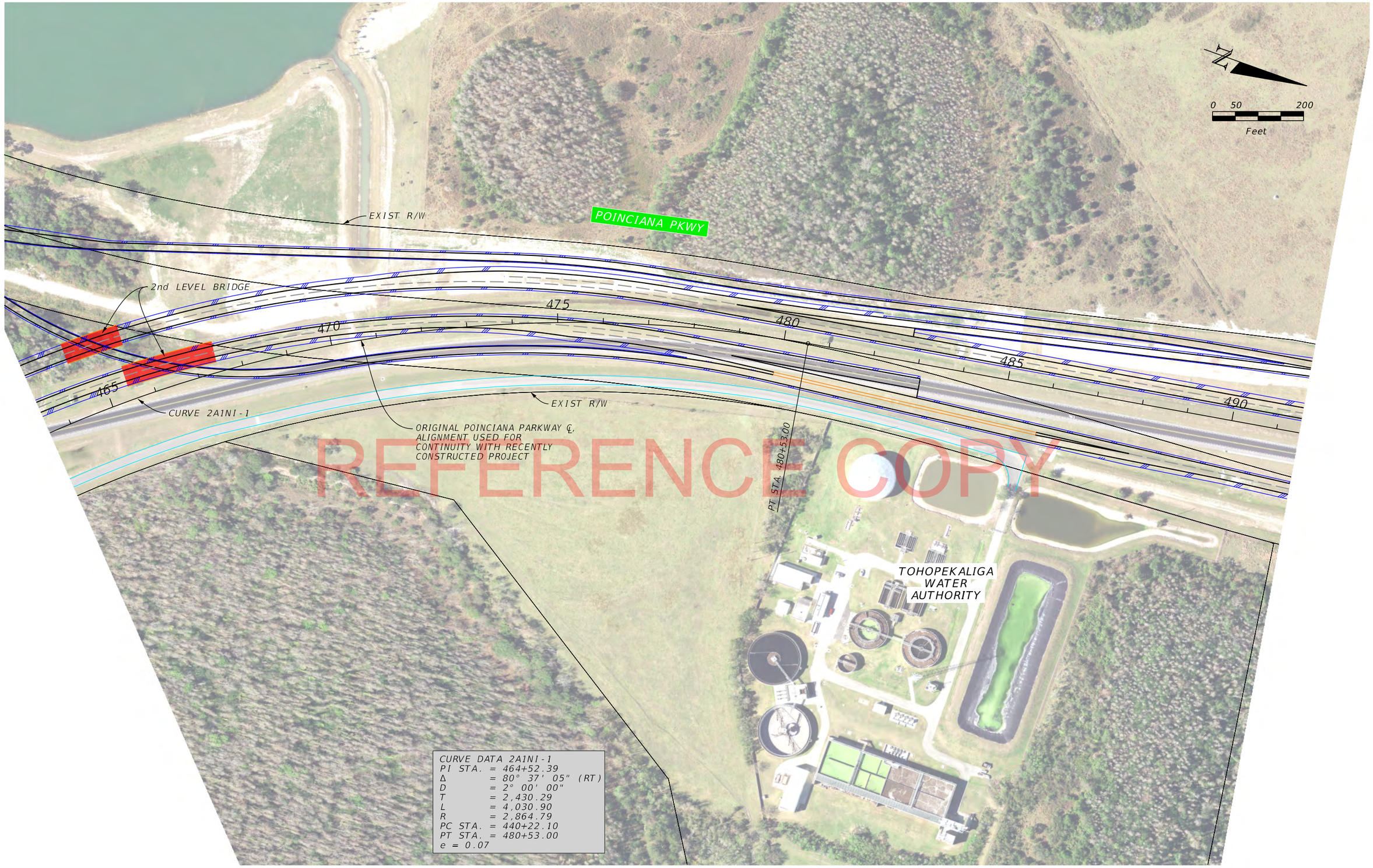
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Poinciana Parkway Expansion

SHEET NO.

PPE-2



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DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Poinciana Parkway Expansion

SHEET NO.
PPE-3

REFERENCE COPY

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DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Poinciana Parkway Expansion

SHEET NO.

PPE-4

REFERENCE COPY

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DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Poinciana Parkway Expansion

SHEET NO.

PPE-5

REFERENCE COPY

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DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Poinciana Parkway Expansion

SHEET NO.

PPE-6

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DATE	DESCRIPTION	DATE	DESCRIPTION

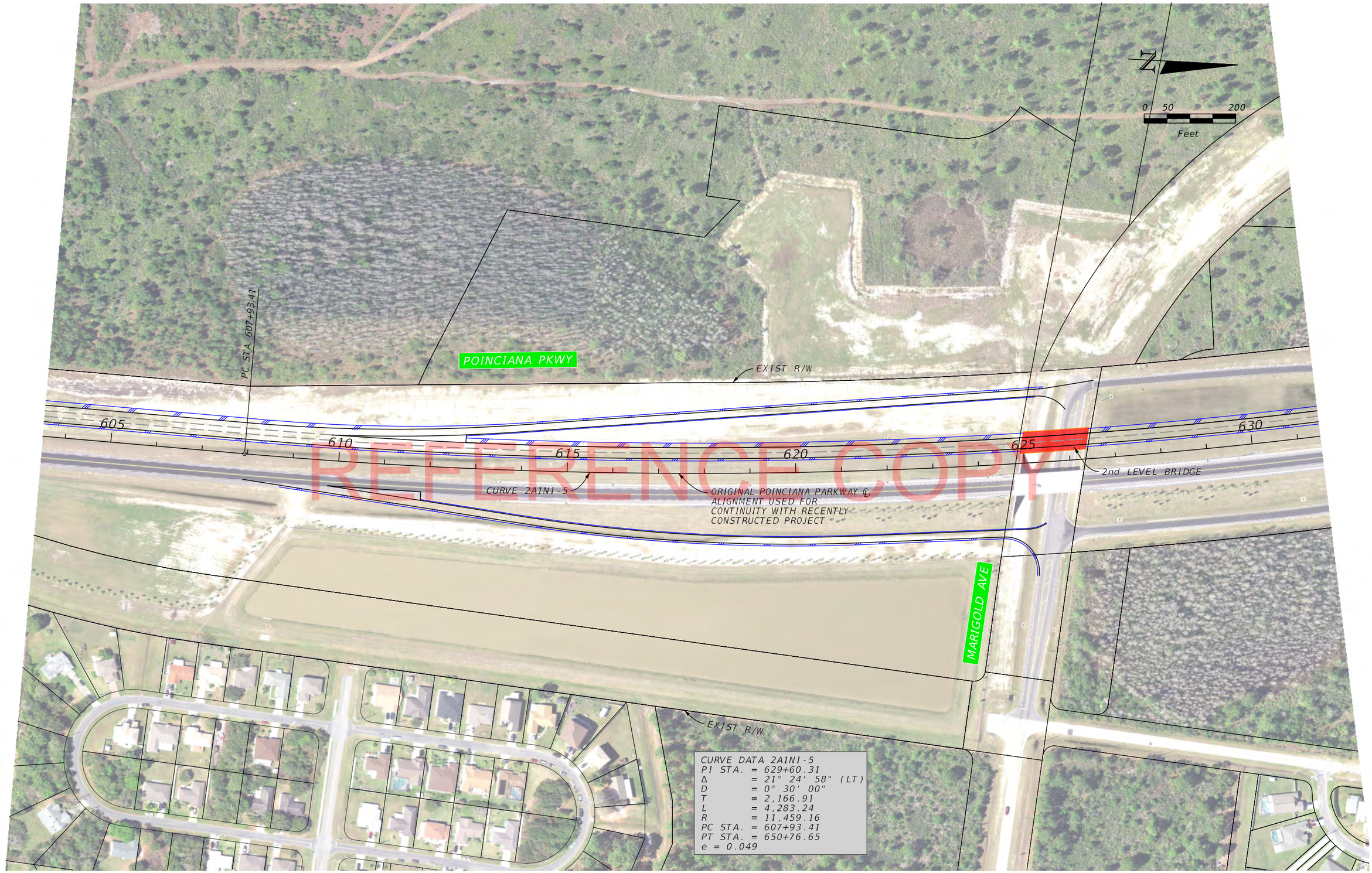
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Poinciana Parkway Expansion

SHEET NO.

PPE-7



REFERENCE COPY

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

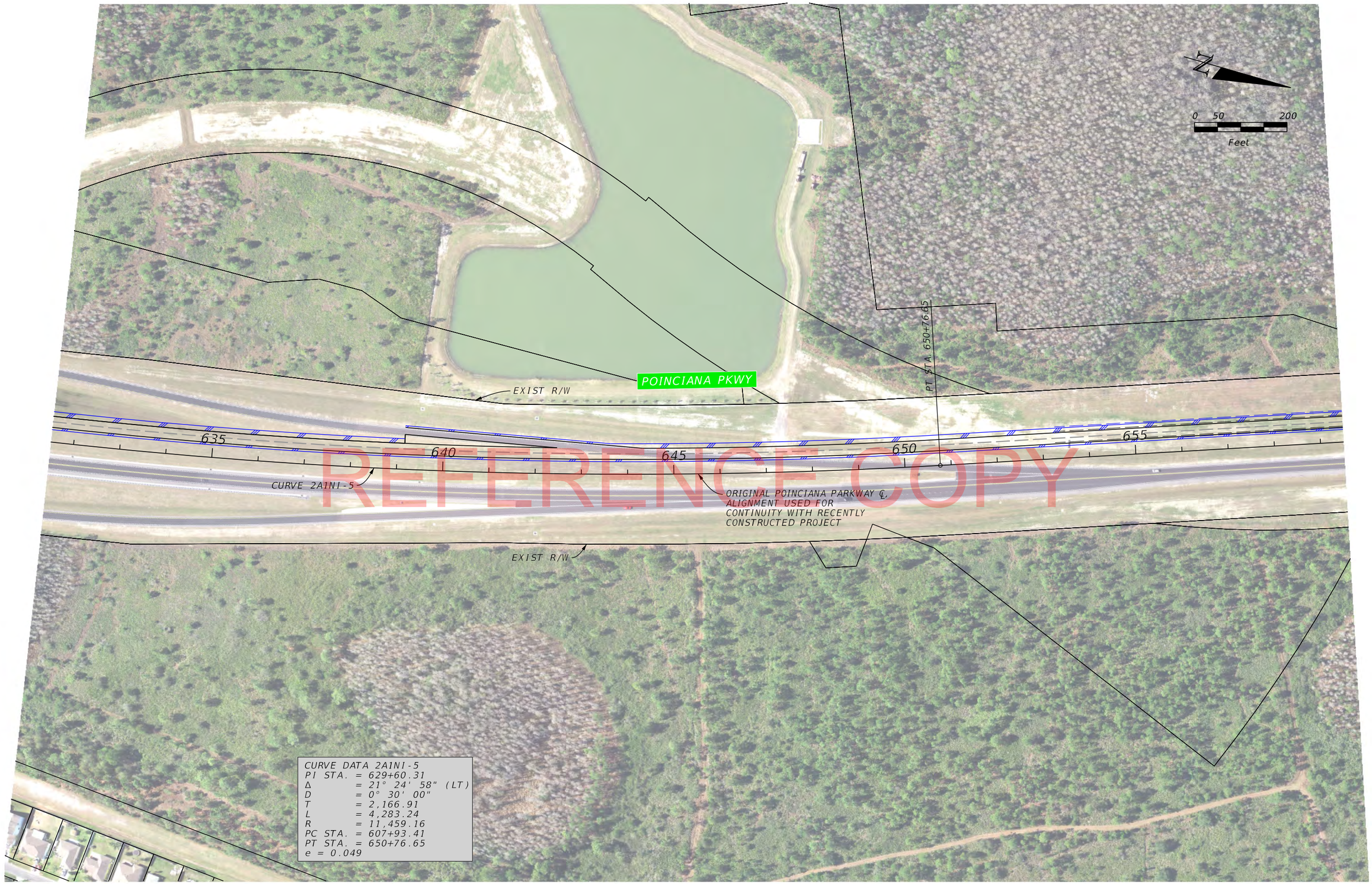
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Poinciana Parkway Expansion

SHEET NO.

PPE-8



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Poinciana Parkway Expansion

SHEET NO.
PPE-9

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DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Poinciana Parkway Expansion

SHEET NO.
PPE-10

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DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Poinciana Parkway Expansion

SHEET NO.

PPE-11

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DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Poinciana Parkway Expansion

SHEET NO.

PPE-12

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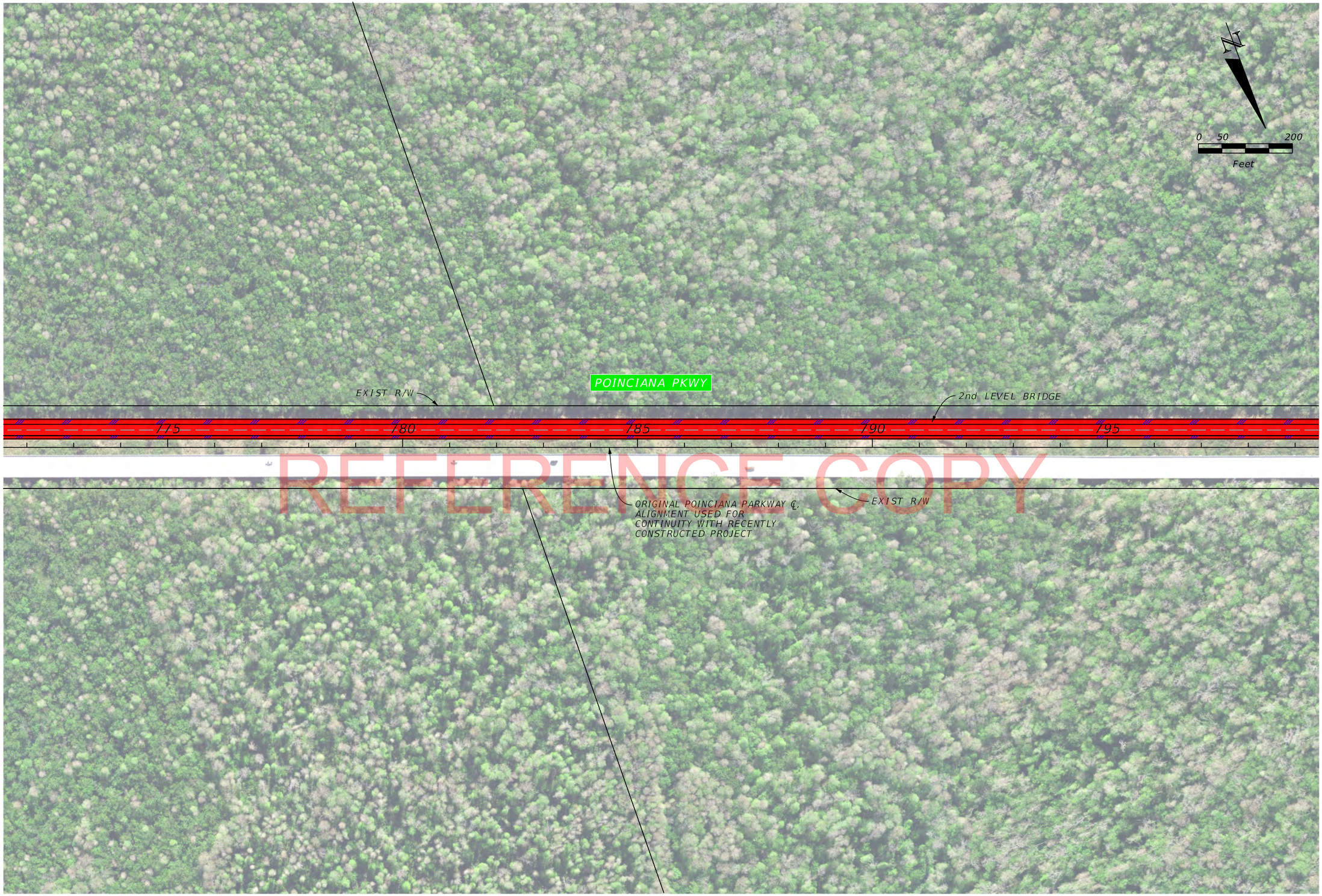
DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Poinciana Parkway Expansion

SHEET NO.
PPE-13



REFERENCE COPY

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

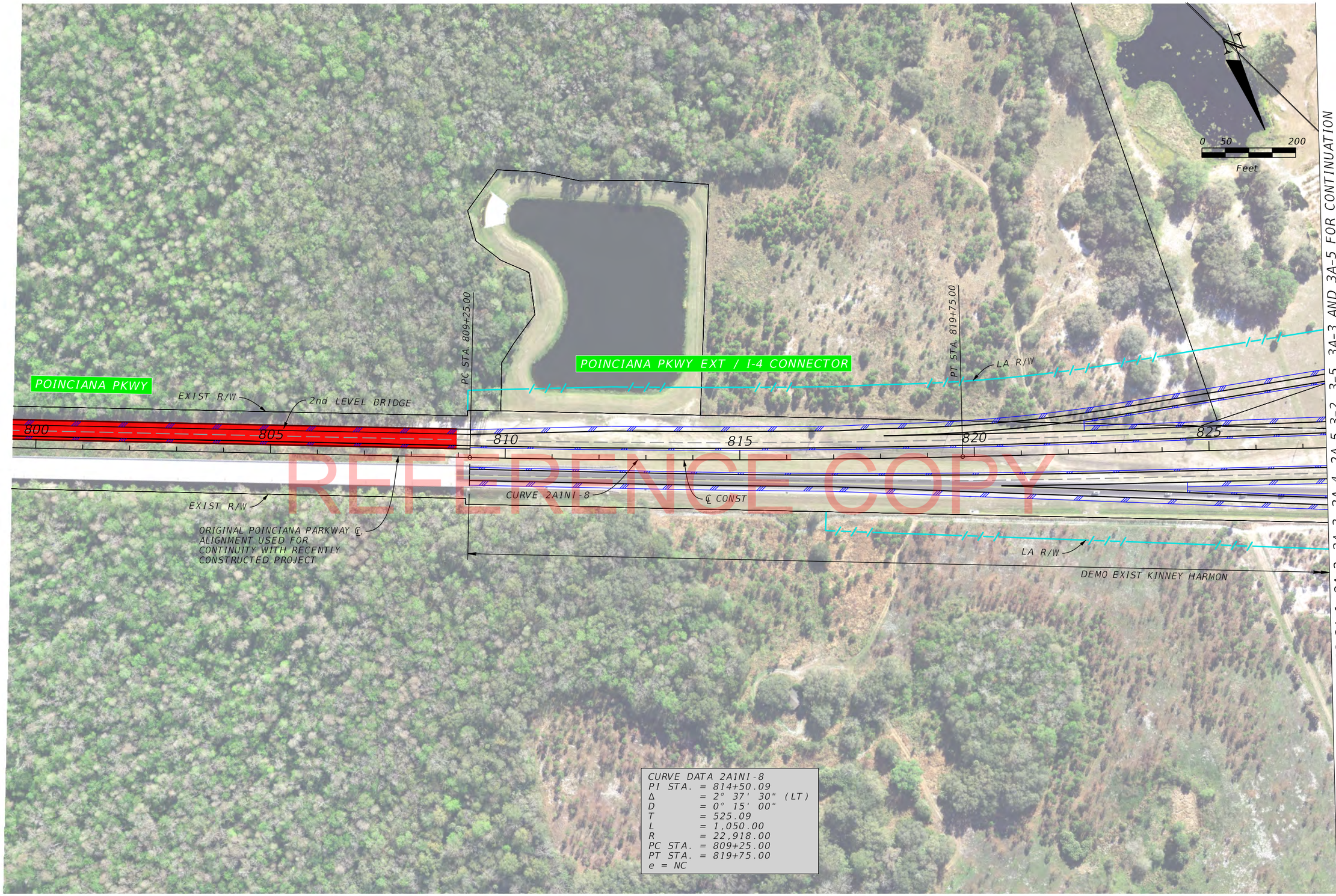
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Poinciana Parkway Expansion

SHEET NO.

PPE-14



REFERENCE COPY

CURVE DATA 2A1NI-8
PI STA. = 814+50.09
Δ = 2° 37' 30" (LT)
D = 0° 15' 00"
T = 525.09
L = 1,050.00
R = 22,918.00
PC STA. = 809+25.00
PT STA. = 819+75.00
e = NC

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DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Poinciana Parkway Expansion

SHEET NO.
PPE-15

APPENDIX G

/ƨyŏŜLJŭ tfl·yã ŦƨℕJ !fűŜℕyƖ·ŭλØŜ н ! πм

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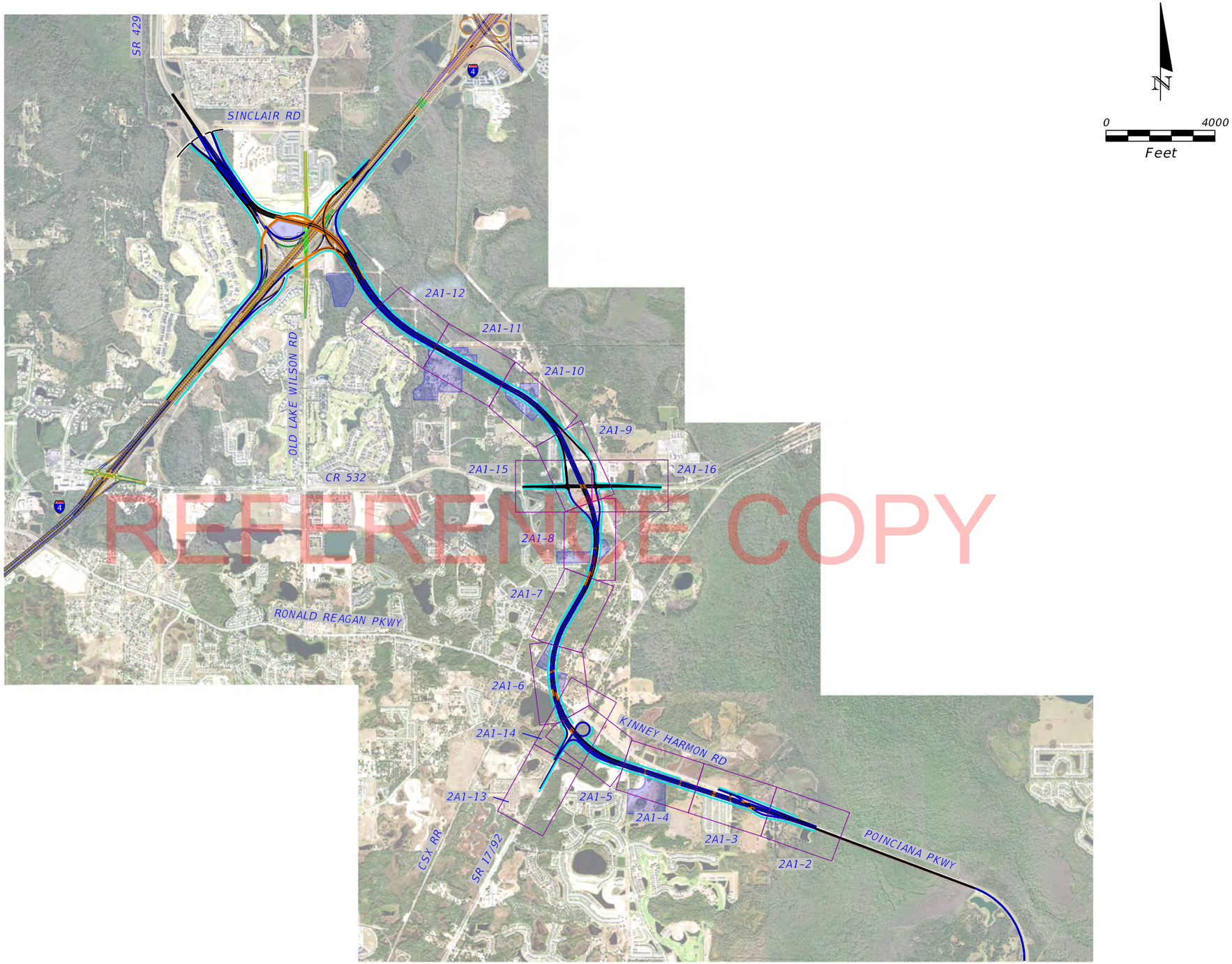

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DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A-1

SHEET NO.
2A1-1

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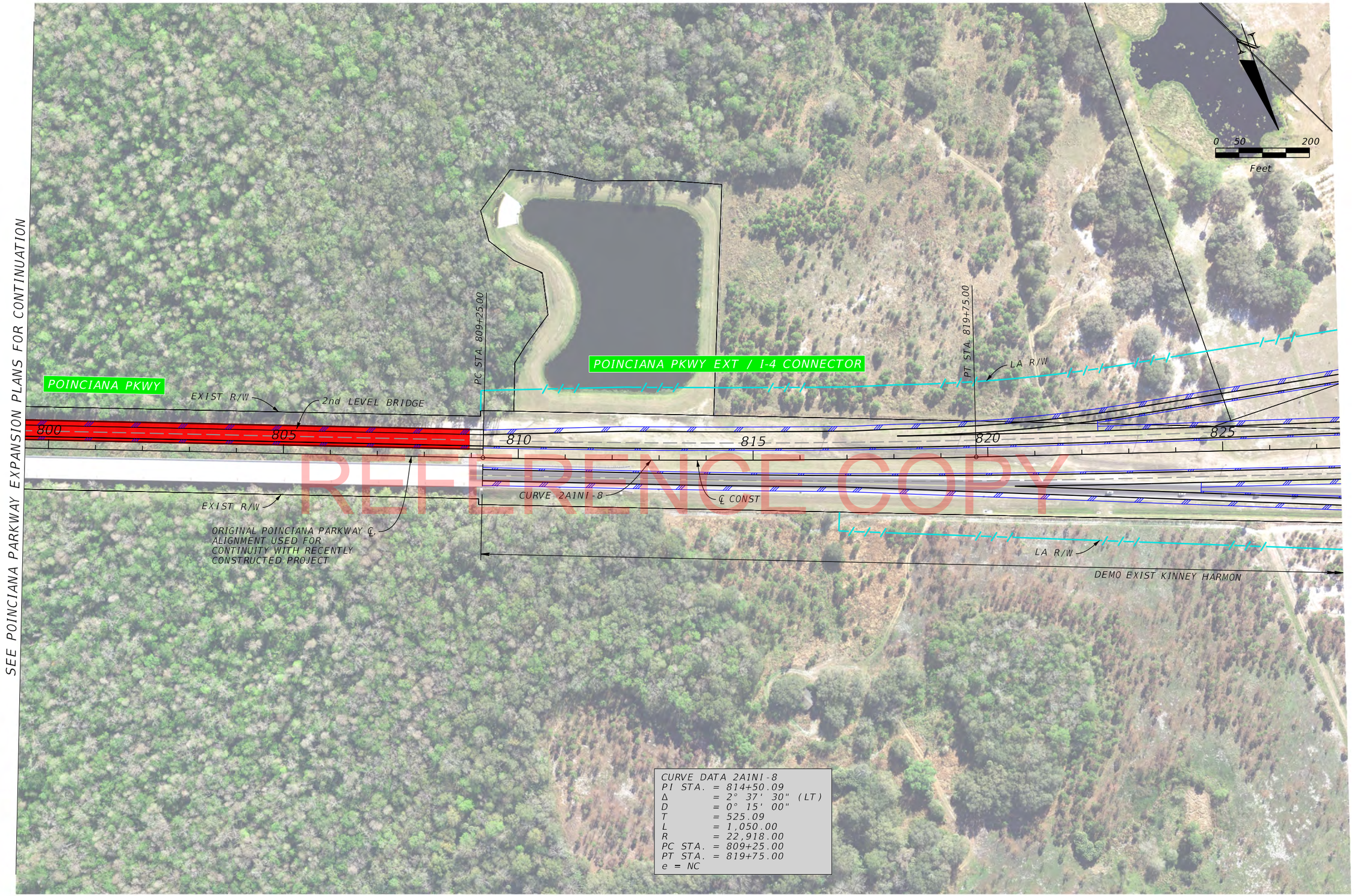

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A-1

SHEET NO.
2A1-2

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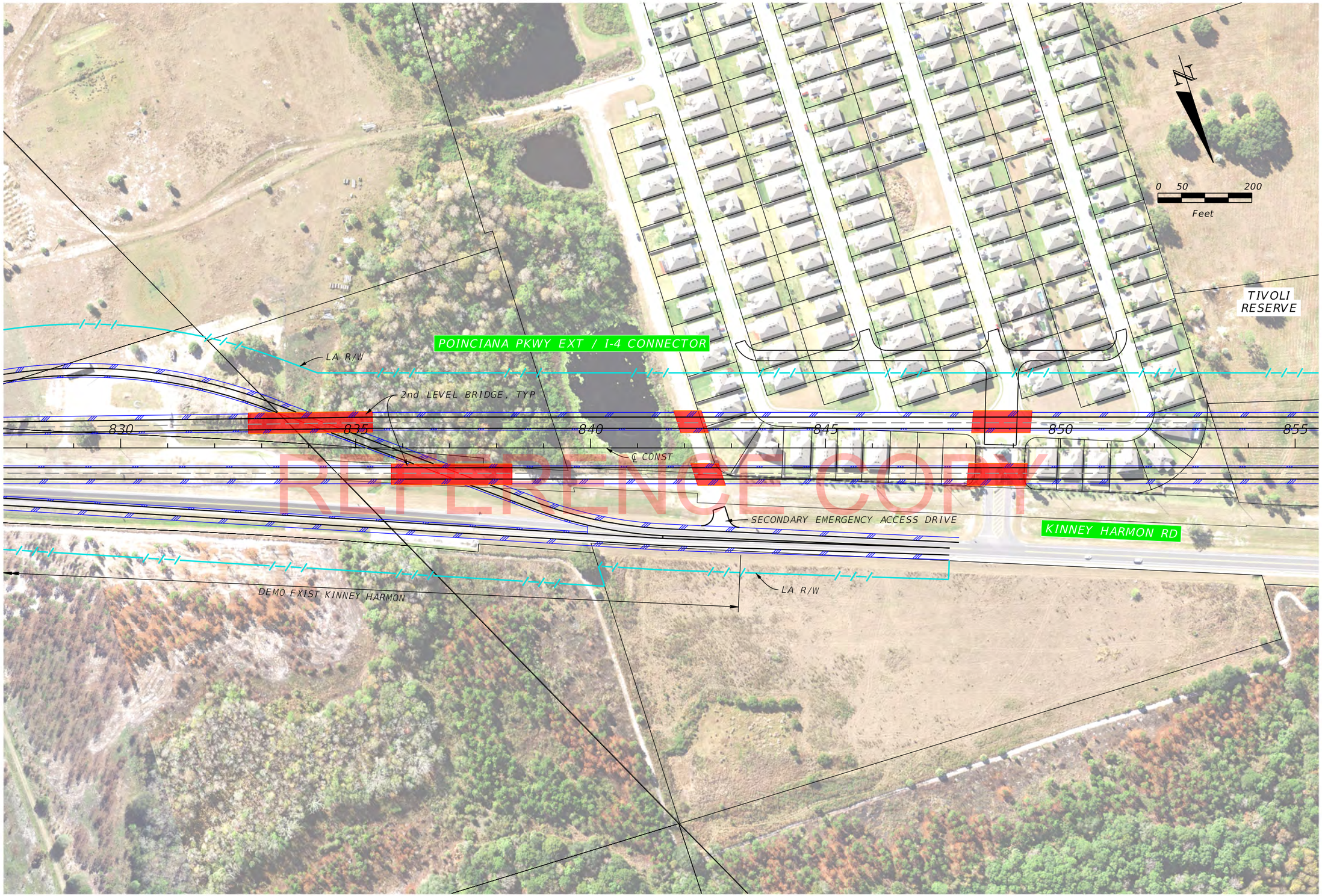

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DATE	DESCRIPTION	DATE	DESCRIPTION

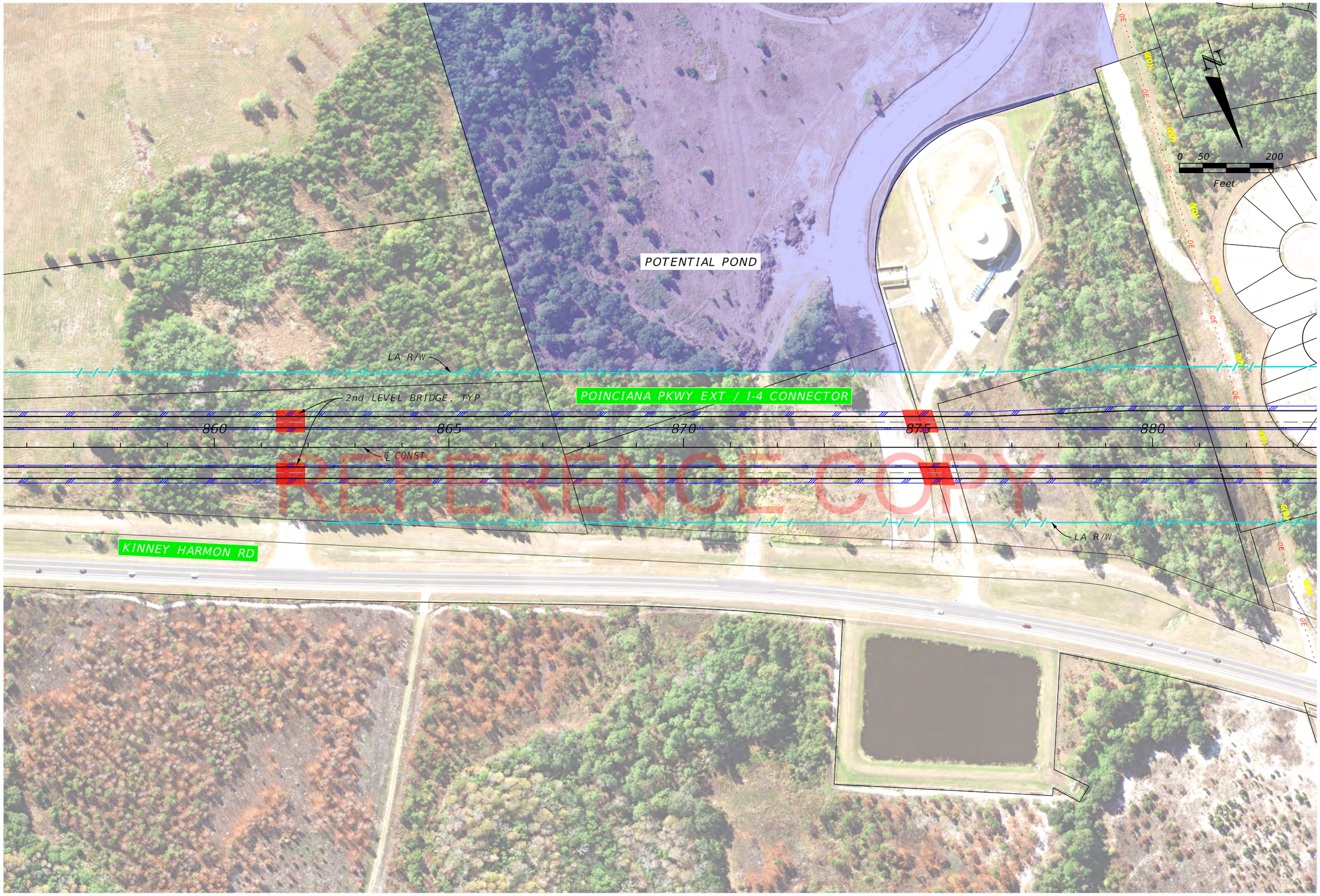
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A-1

SHEET NO.
2A1-3

Bill.Lemos 3/21/2018 7:10:12 AM K:\ORL_TPTO\149800000___I-4 Connector\200_Engineering\CADD\roadway\Roadway Alignments\plans\plan2A_1-15.dgn



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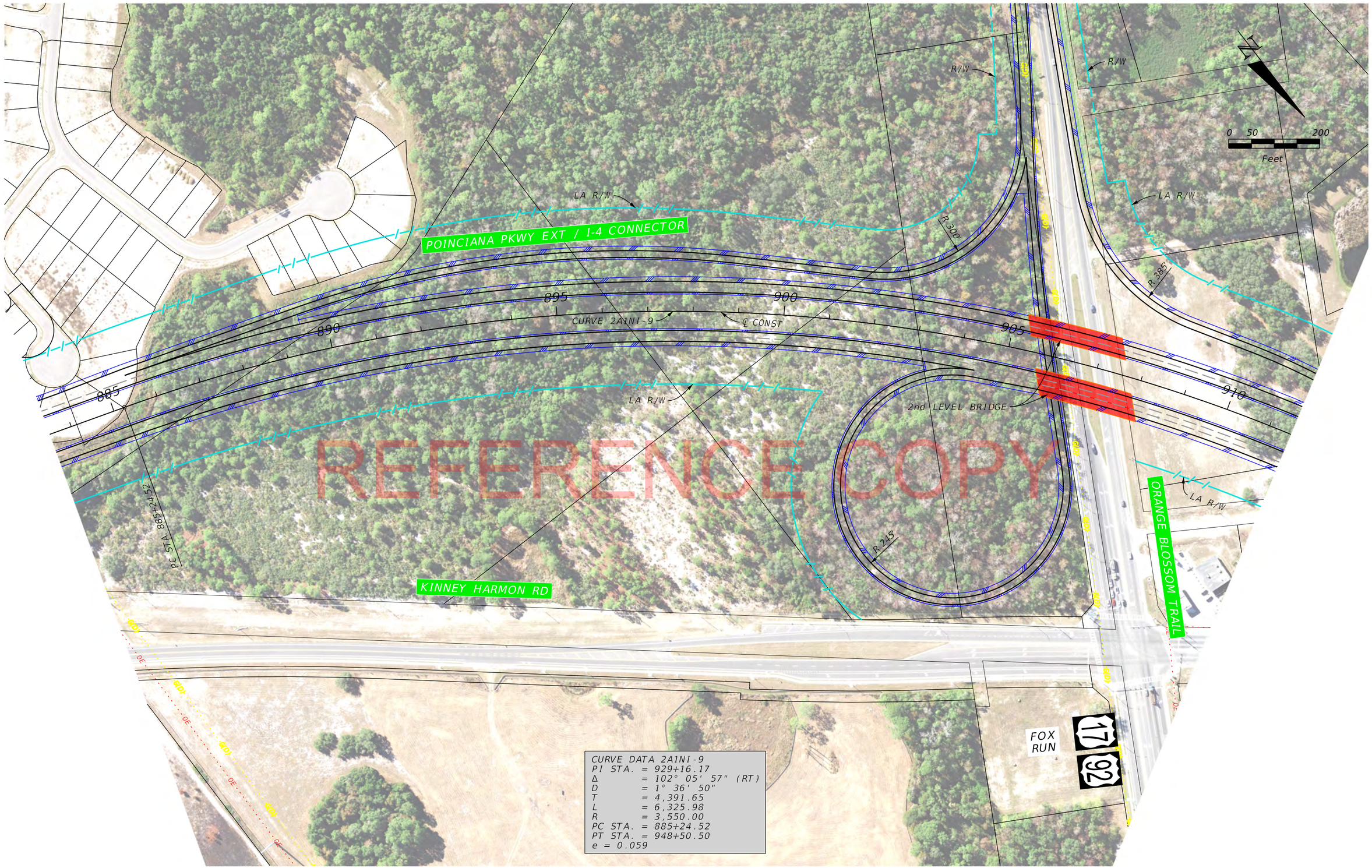
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A-1

SHEET NO.
2A1-4



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A-1

SHEET NO.
2A1-5

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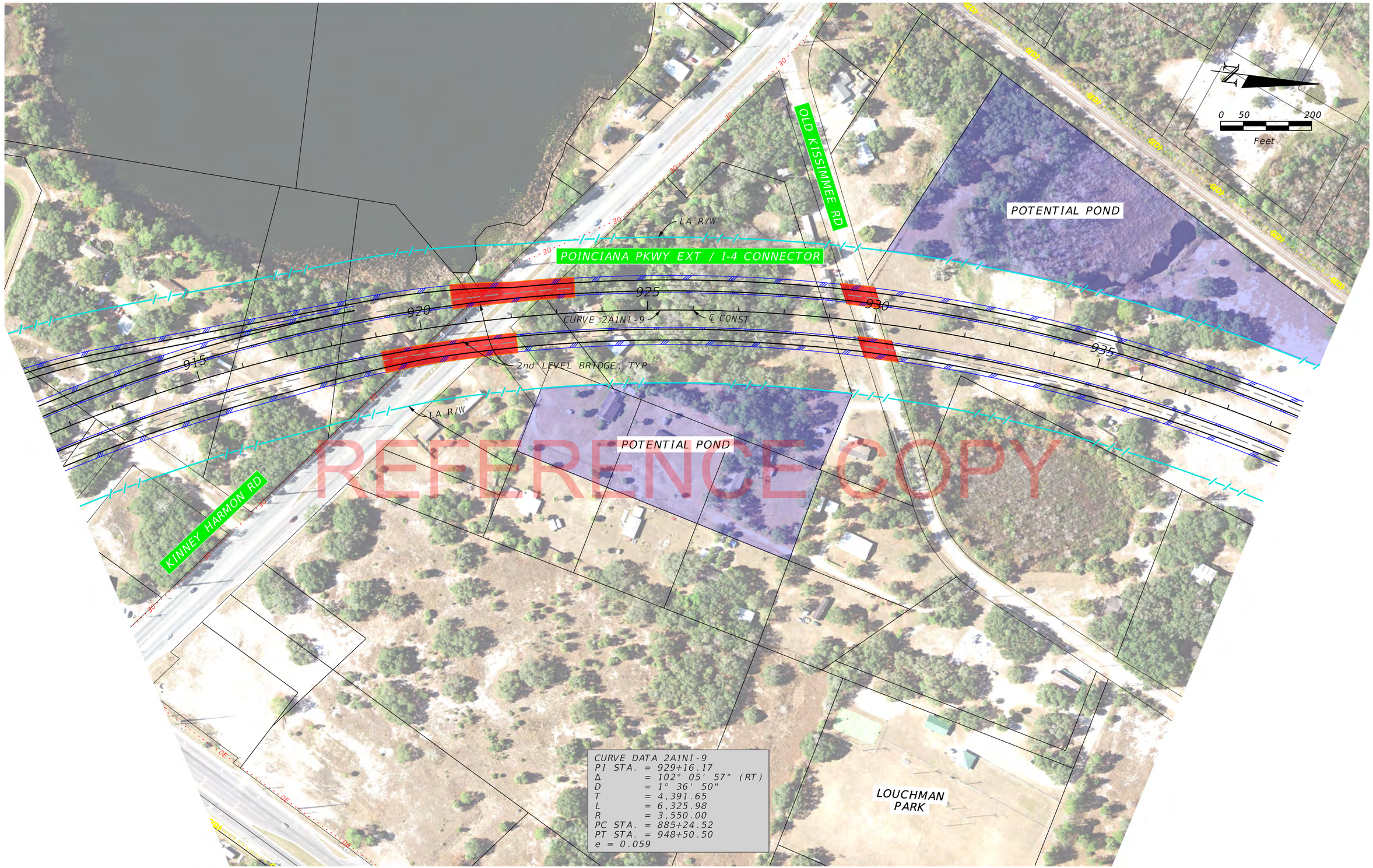

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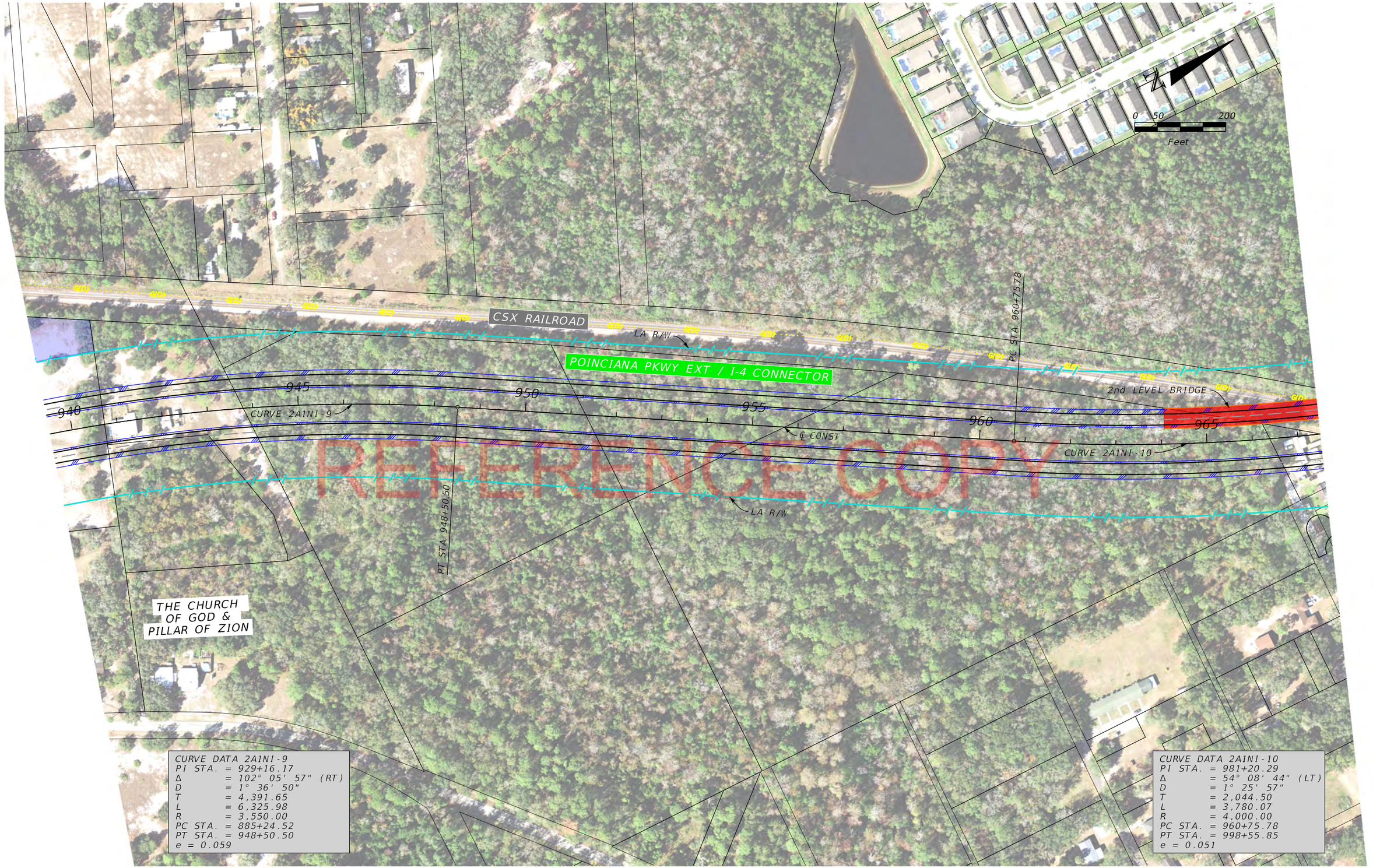
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A-1

SHEET NO.
2A1-6



CURVE DATA 2A1NI-9
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Δ = 102° 05' 57" (RT)
D = 1° 36' 50"
T = 4,391.65
L = 6,325.98
R = 3,550.00
PC STA. = 885+24.52
PT STA. = 948+50.50
e = 0.059

CURVE DATA 2A1NI-10
PI STA. = 981+20.29
Δ = 54° 08' 44" (LT)
D = 1° 25' 57"
T = 2,044.50
L = 3,780.07
R = 4,000.00
PC STA. = 960+75.78
PT STA. = 998+55.85
e = 0.051

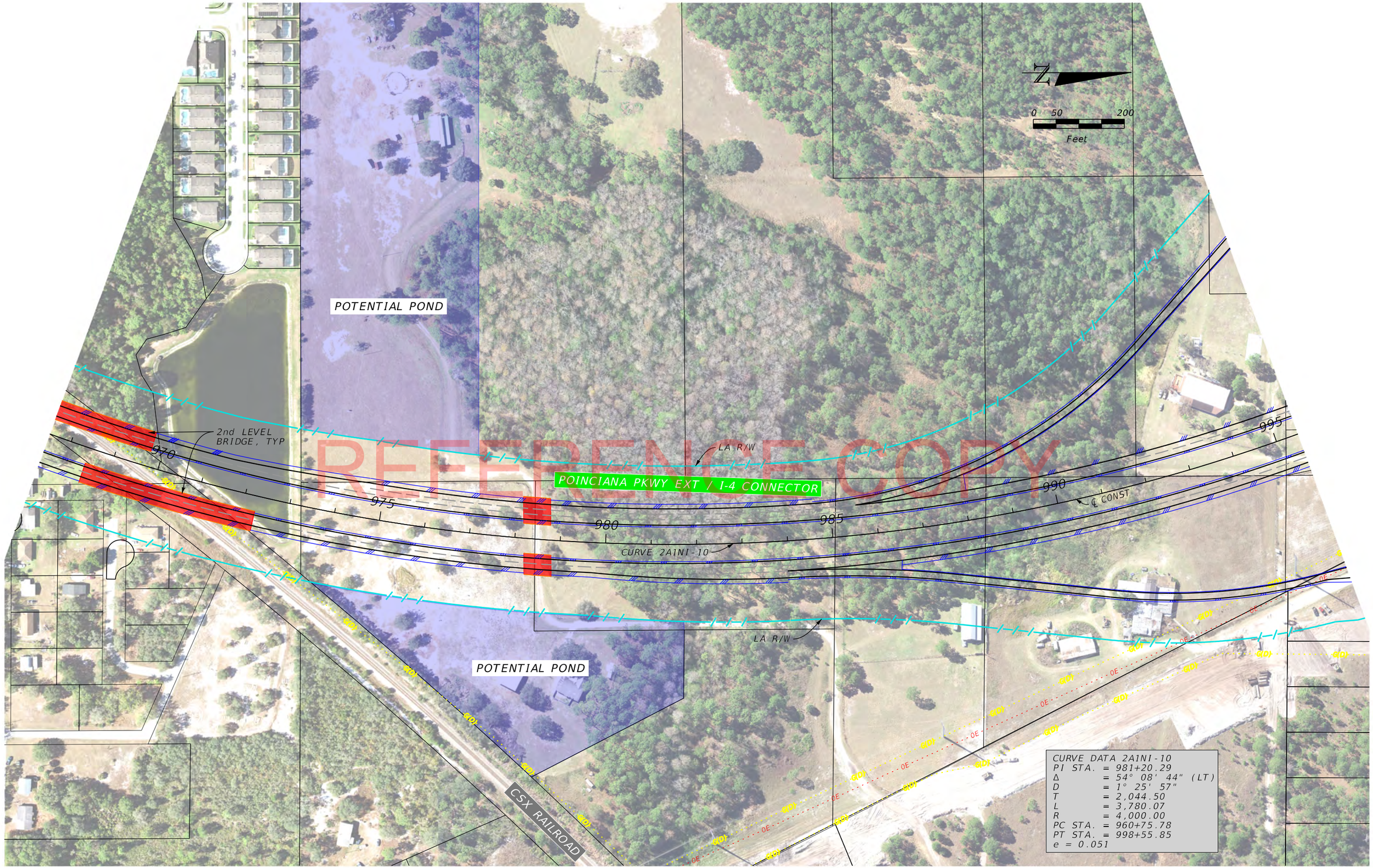
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A-1

SHEET NO.
2A1-7



REFERENCE COPY

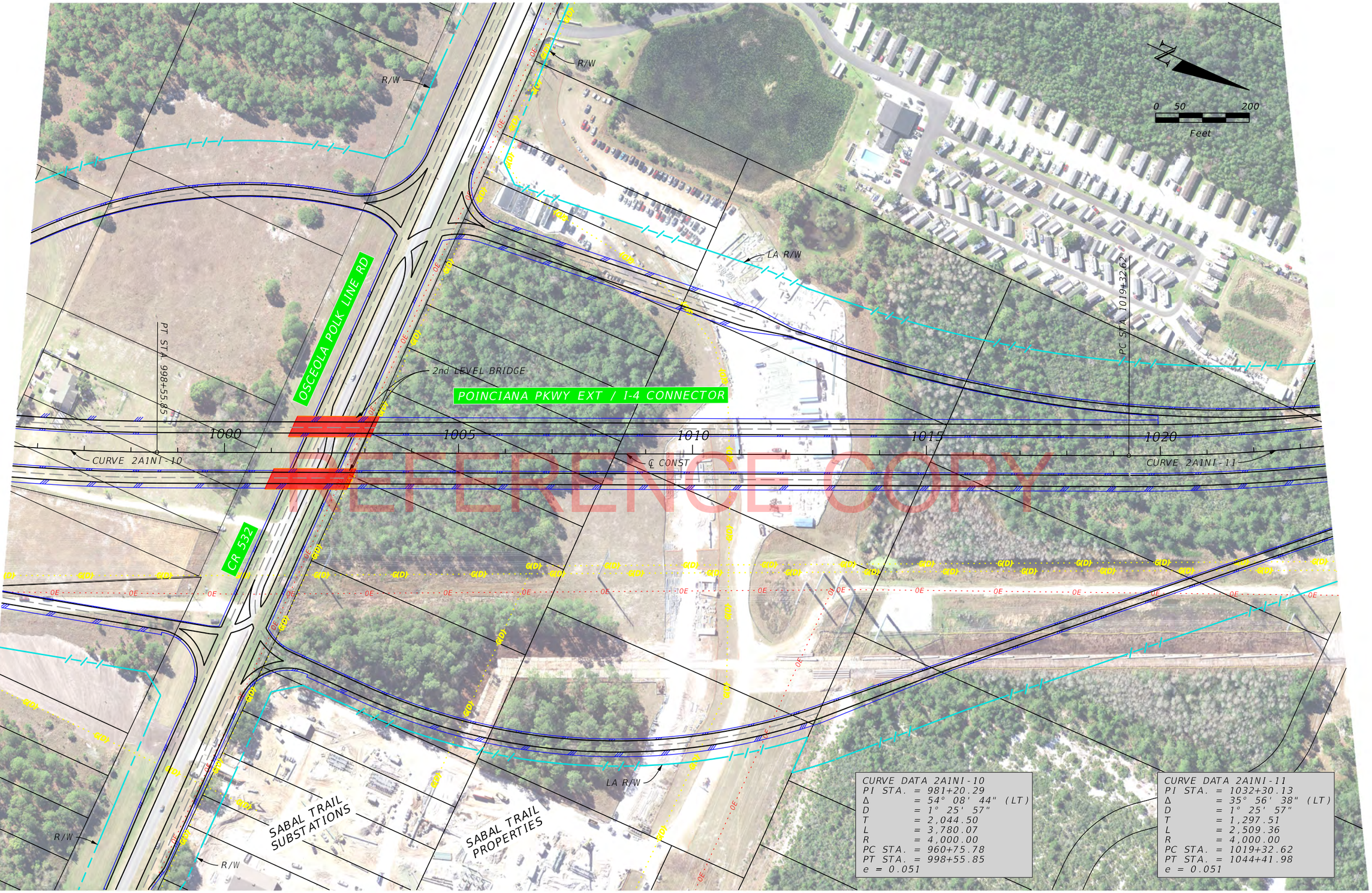
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A-1

SHEET NO.
2A1-8



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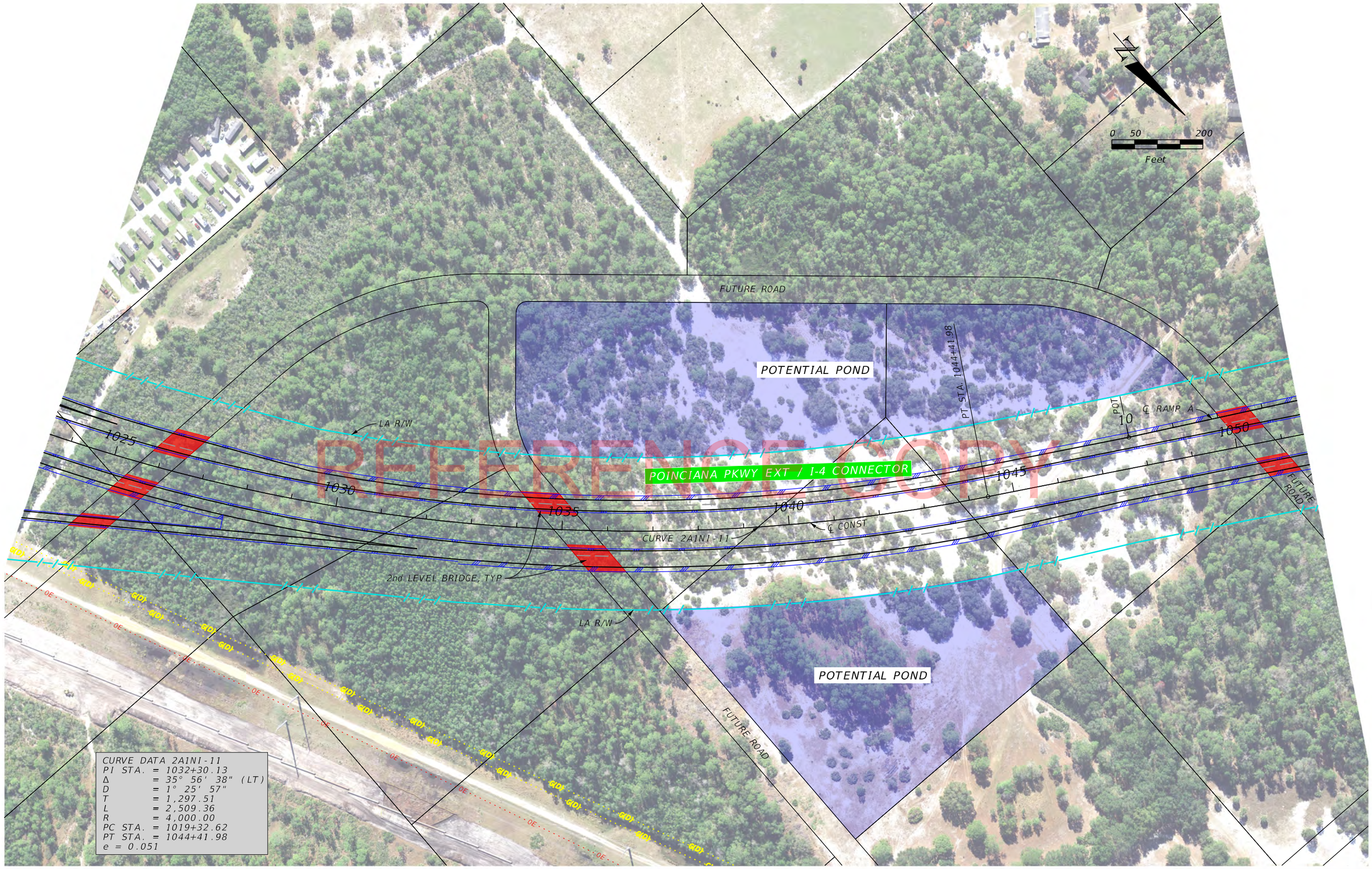
DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A-1

SHEET NO.
2A1-9



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A-1

SHEET NO.
2A1-10

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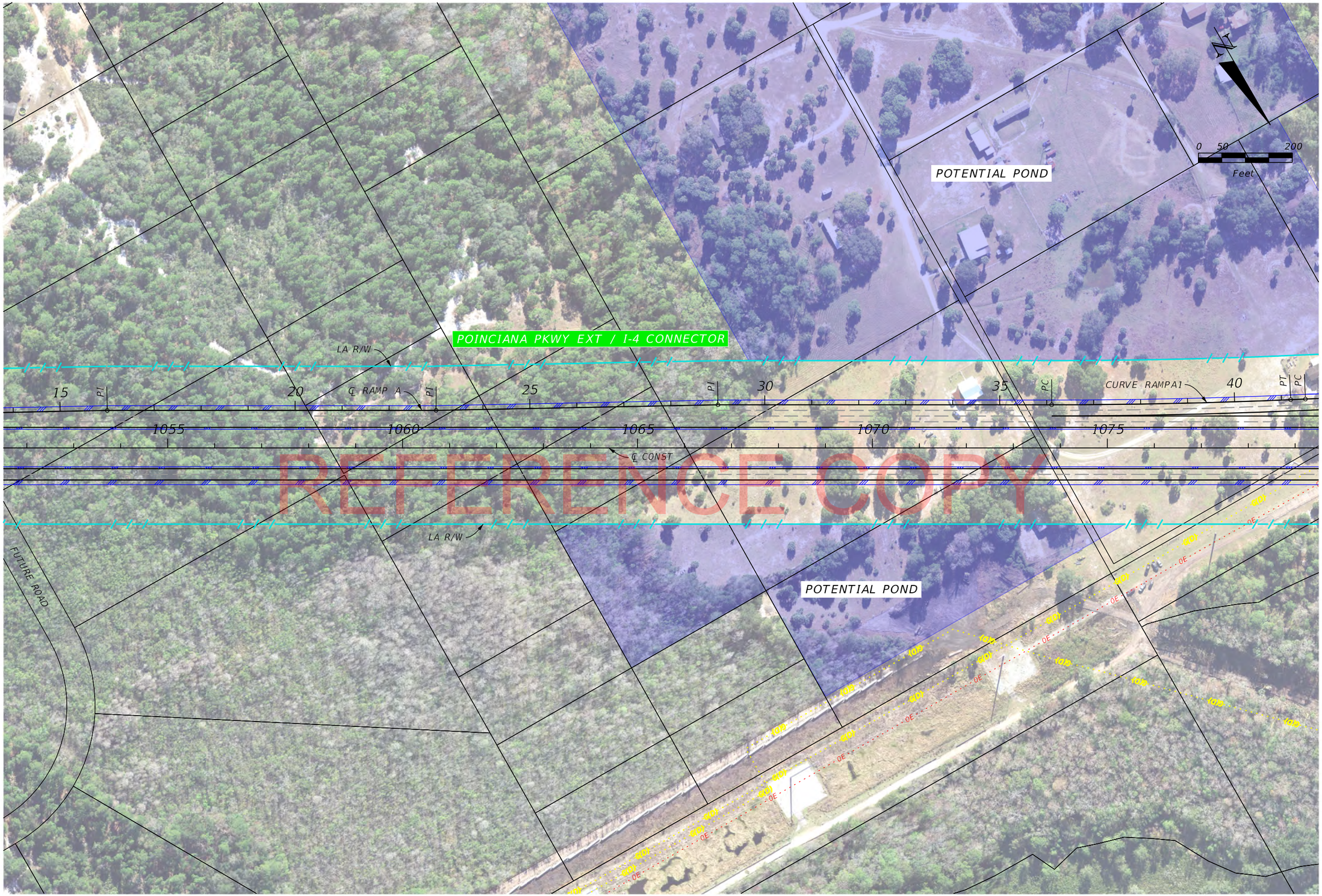
POINCIANA PKWY EXT / I-4 CONNECTOR
LA R/W
℄ RAMP A
PI
PI
PI
PC
PT
PC
CURVE RAMPA1
15
20
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1055
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℄ CONST
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FUTURE ROAD
POTENTIAL POND
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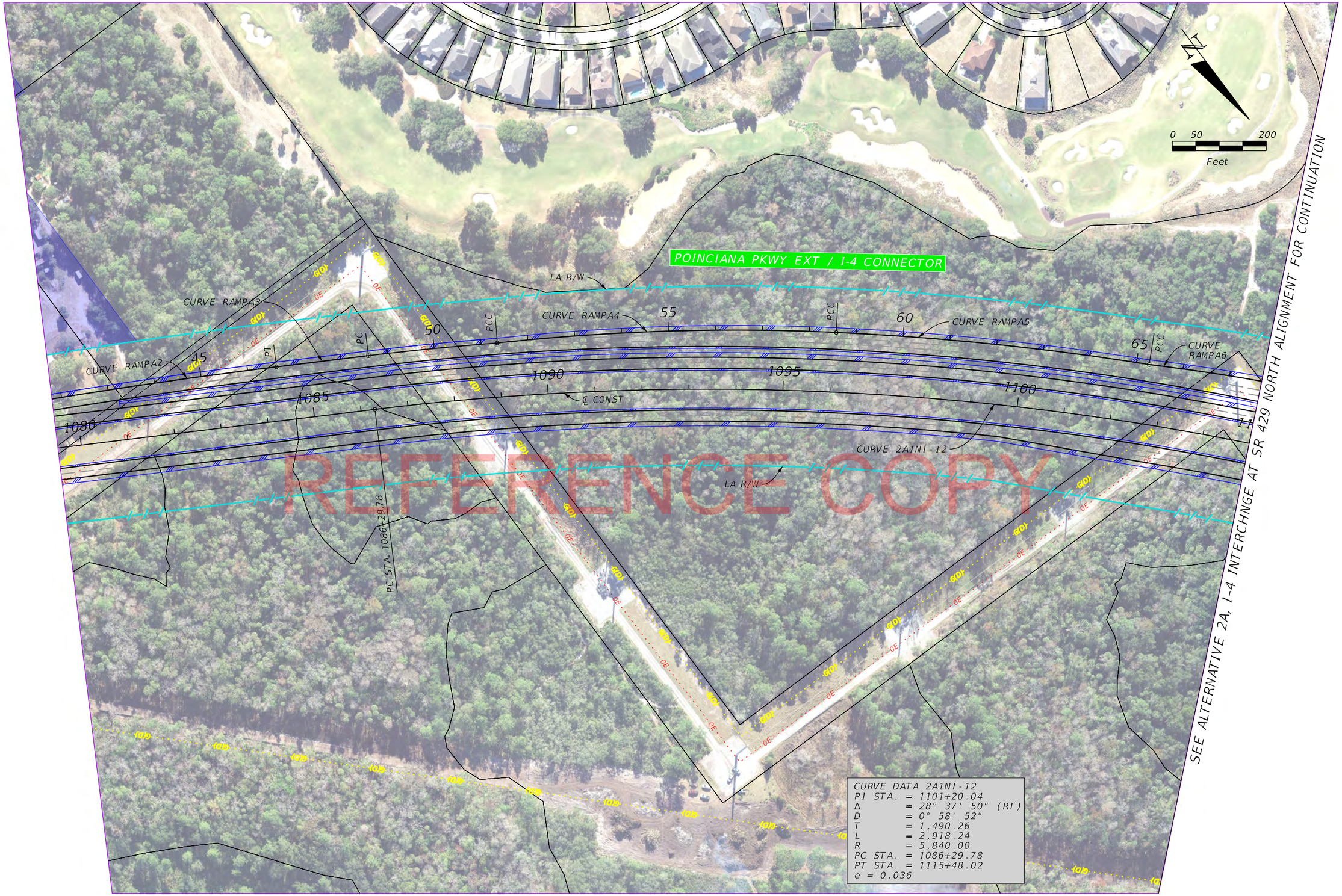

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A-1

SHEET NO.
2A1-12

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REFERENCE COPY

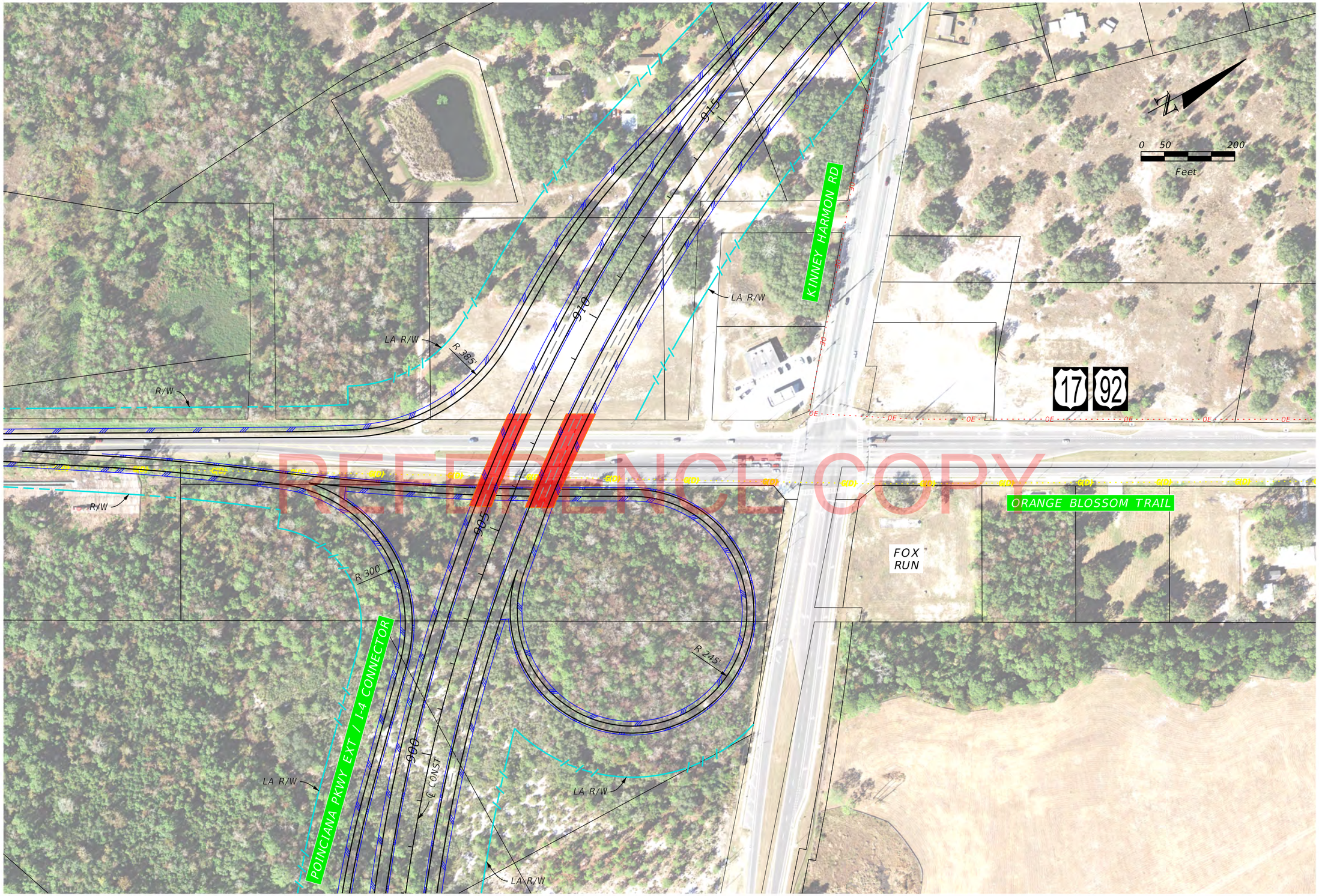
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A-1

SHEET NO.
2A1-13



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DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A-1

SHEET NO.
2A1-14

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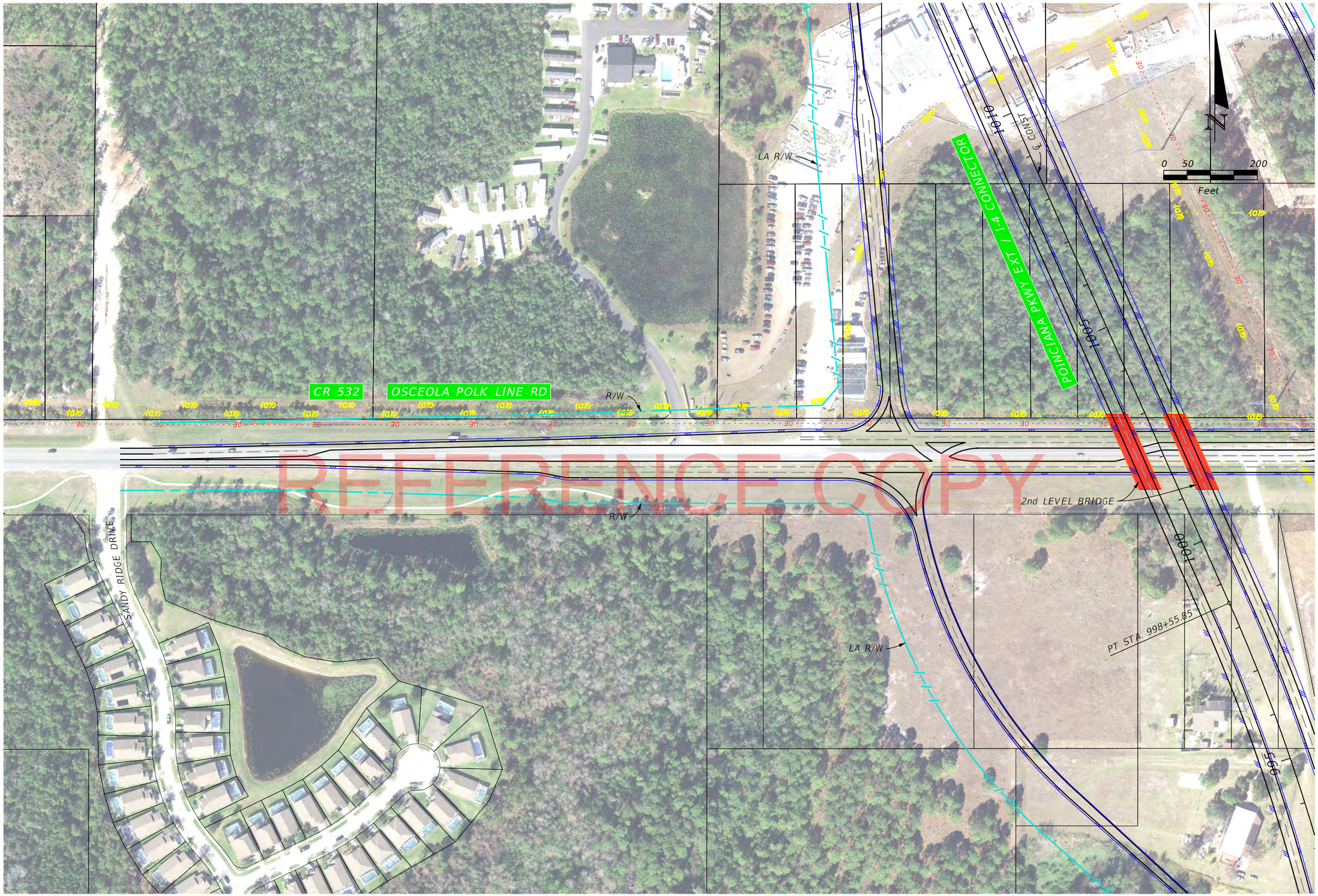

REFERENCE COPY

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DATE	DESCRIPTION	DATE	DESCRIPTION

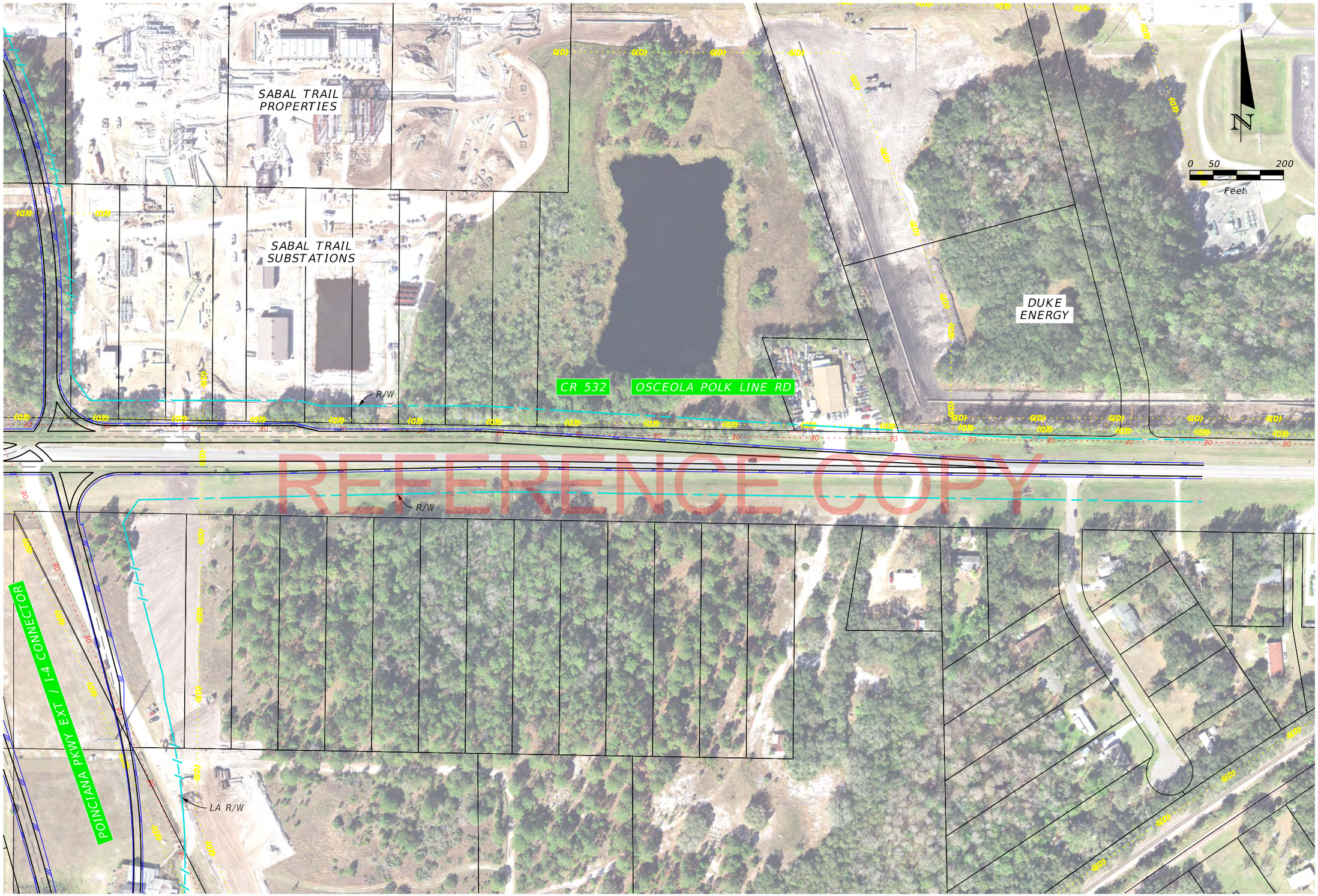
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A-1

SHEET NO.

2A1-15



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DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A-1

SHEET NO.
2A1-16

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APPENDIX H

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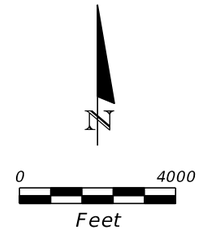

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

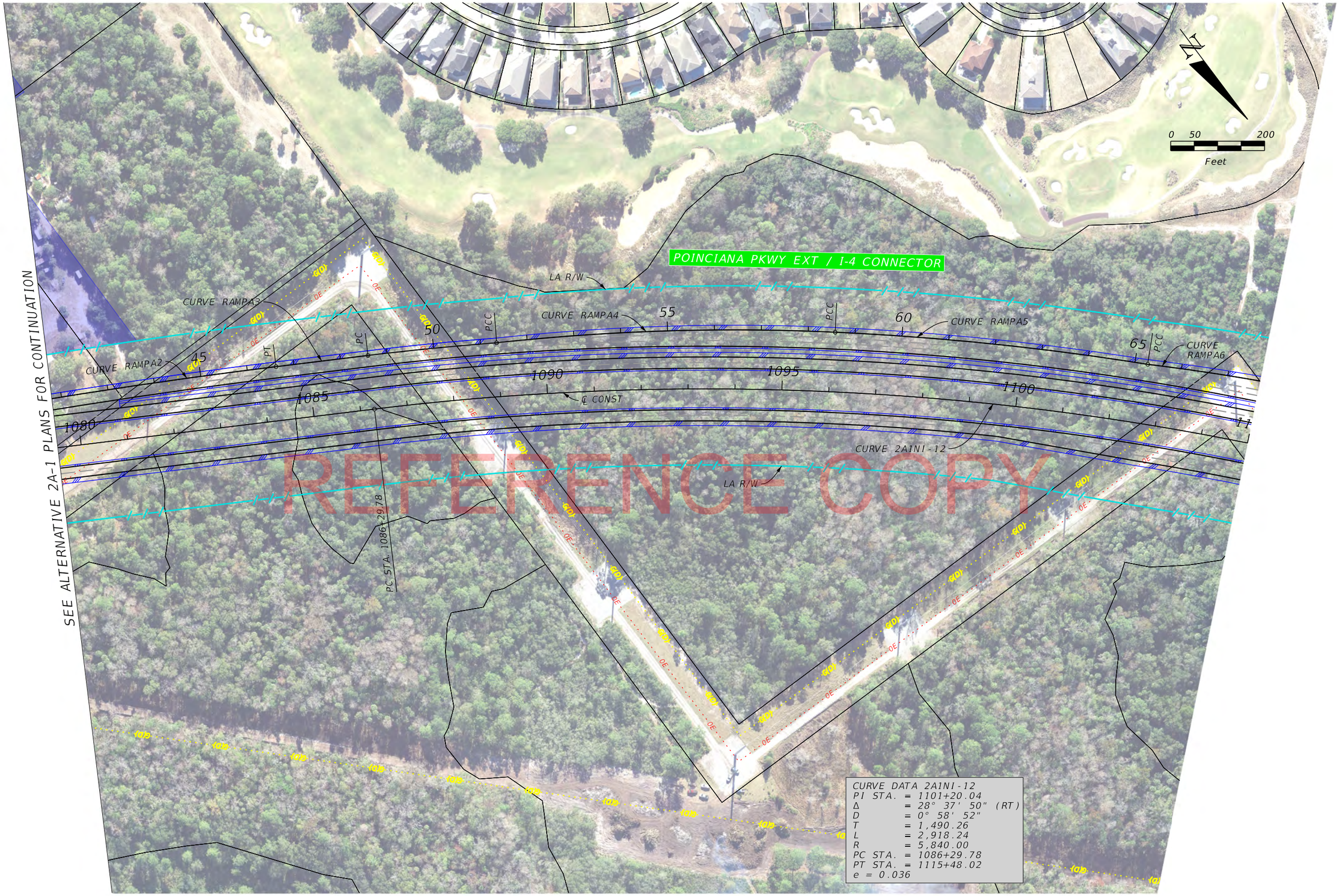
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A
I-4 Interchange at SR 429
North Alignment

SHEET NO.

NA-1



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
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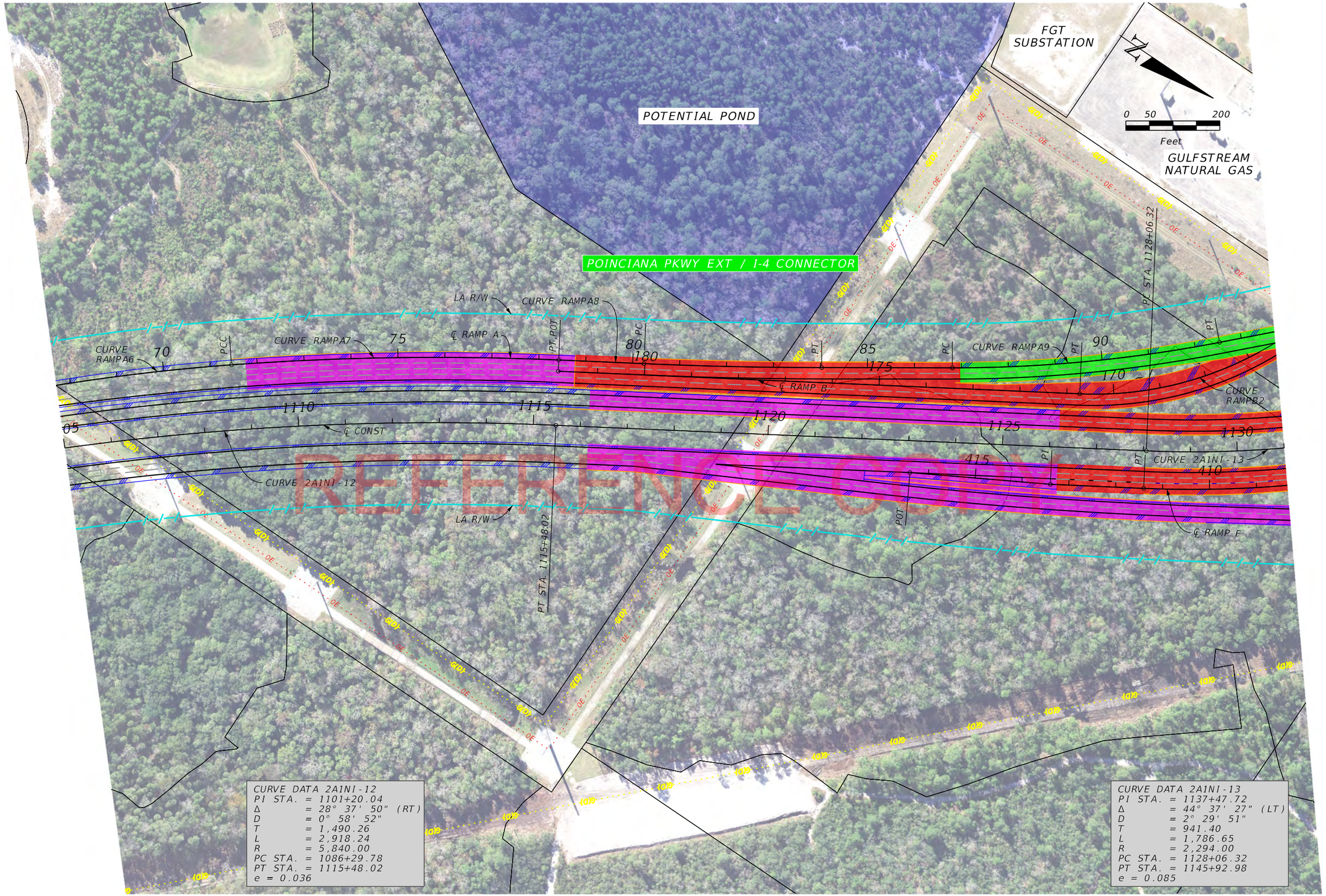
Poinciana Parkway Extension / I-4 Connector

Alternative 2A
I-4 Interchange at SR 429
North Alignment

SHEET NO.
NA-2



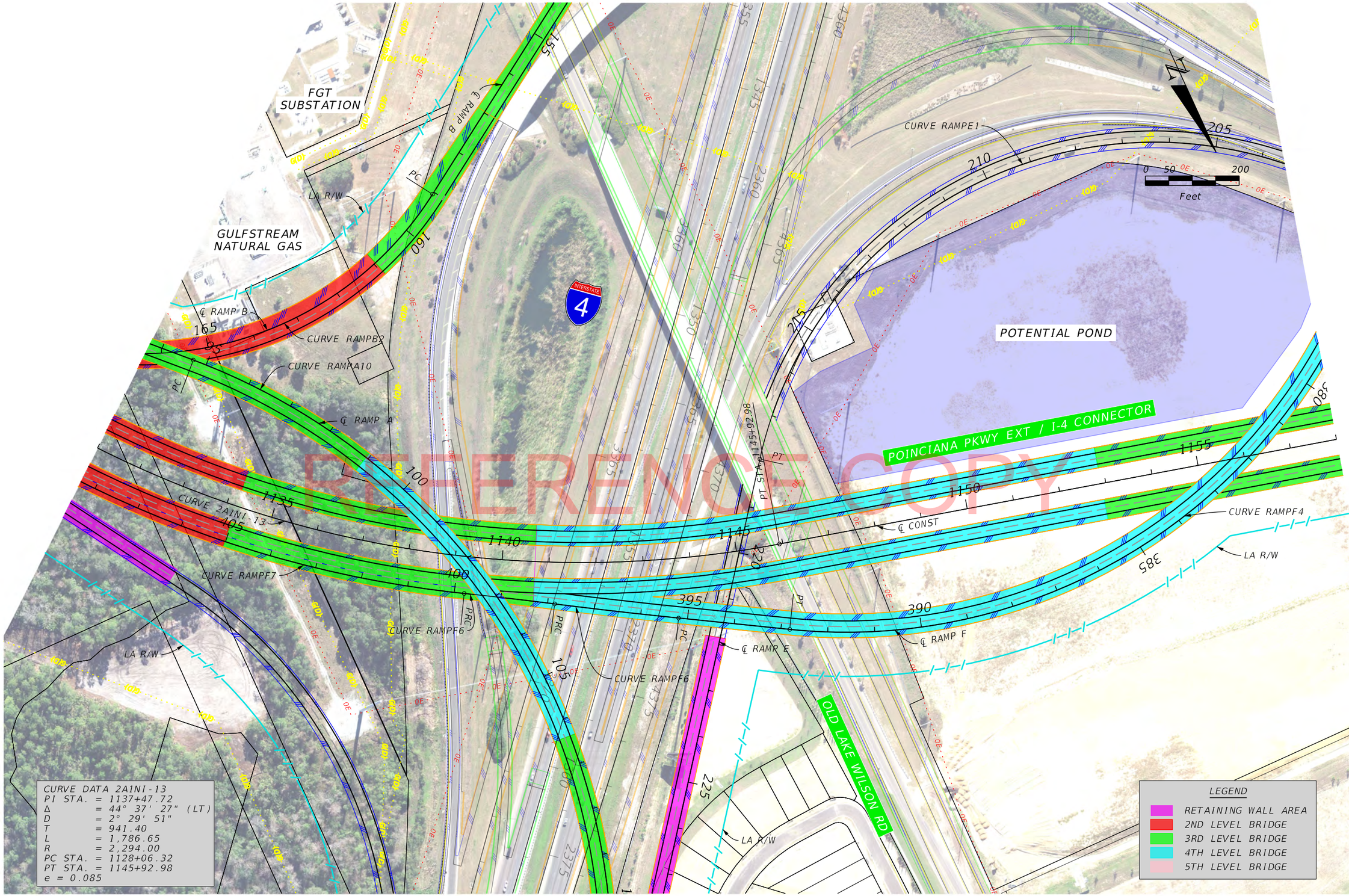
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A
I-4 Interchange at SR 429
North Alignment

SHEET NO.
NA-3



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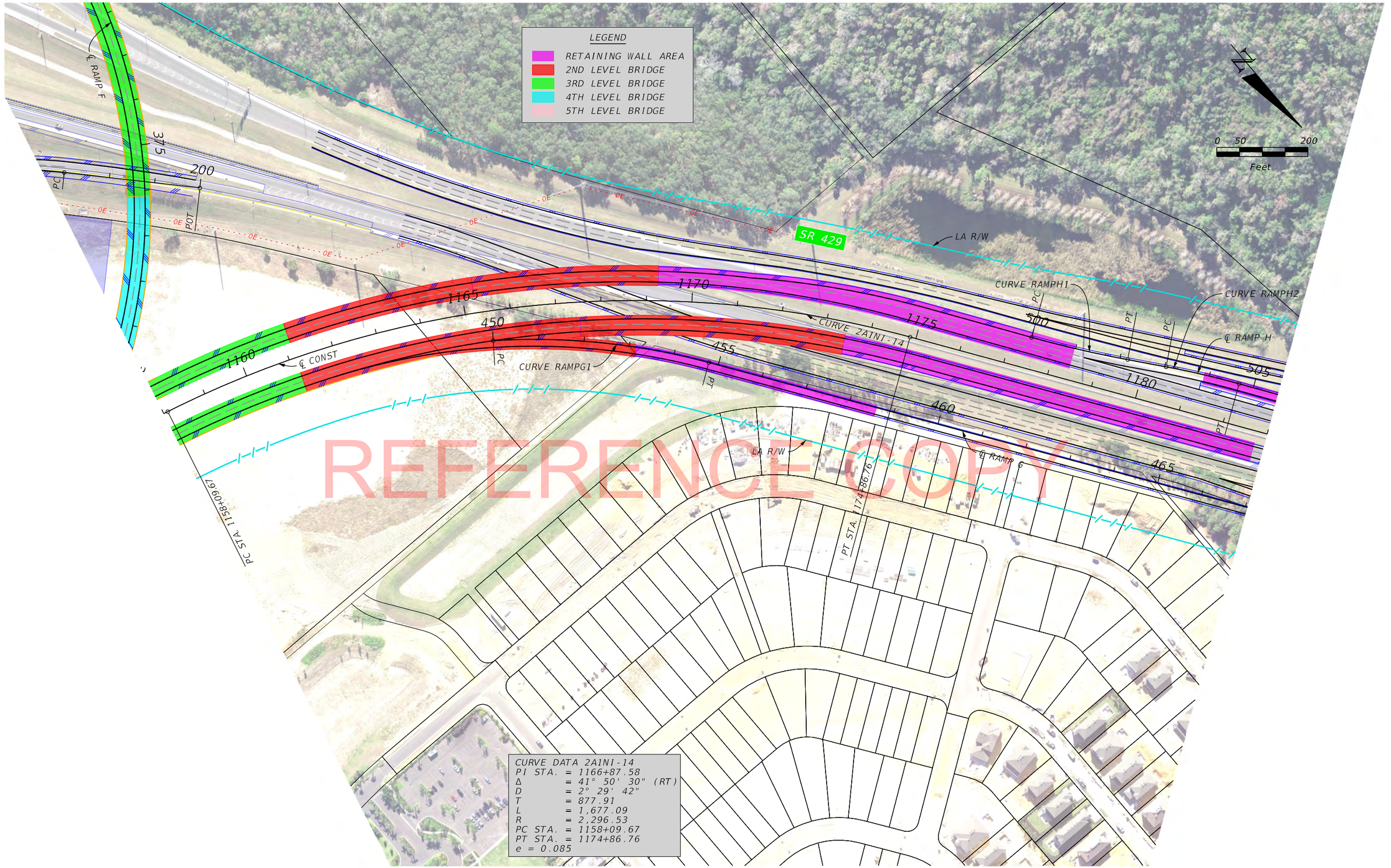
DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A
I-4 Interchange at SR 429
North Alignment

SHEET NO.
NA-4



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

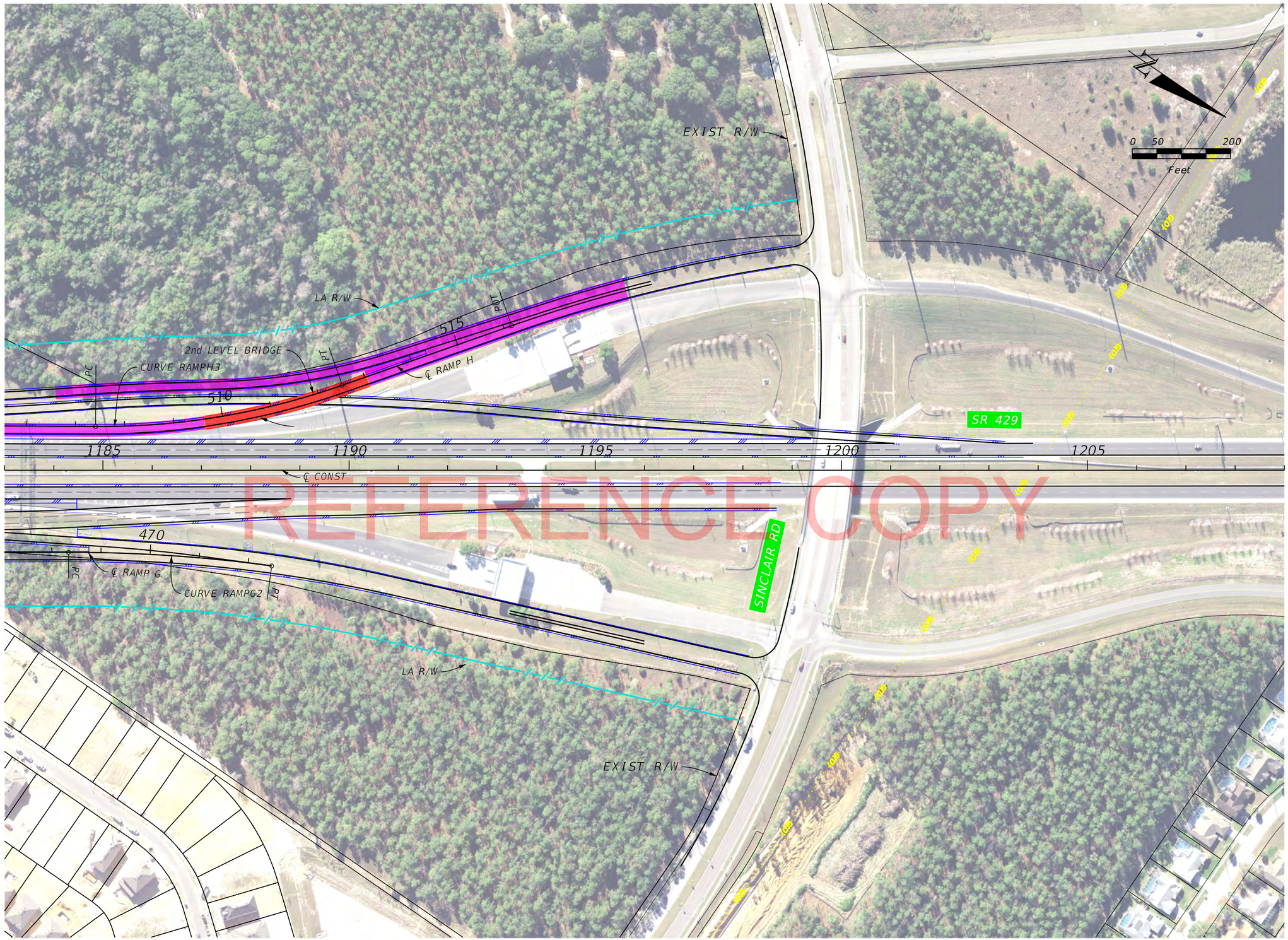
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A
I-4 Interchange at SR 429
North Alignment

SHEET NO.

NA-5



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A
I-4 Interchange at SR 429
North Alignment

SHEET NO.
NA-6

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A
I-4 Interchange at SR 429
North Alignment

SHEET NO.
NA-7

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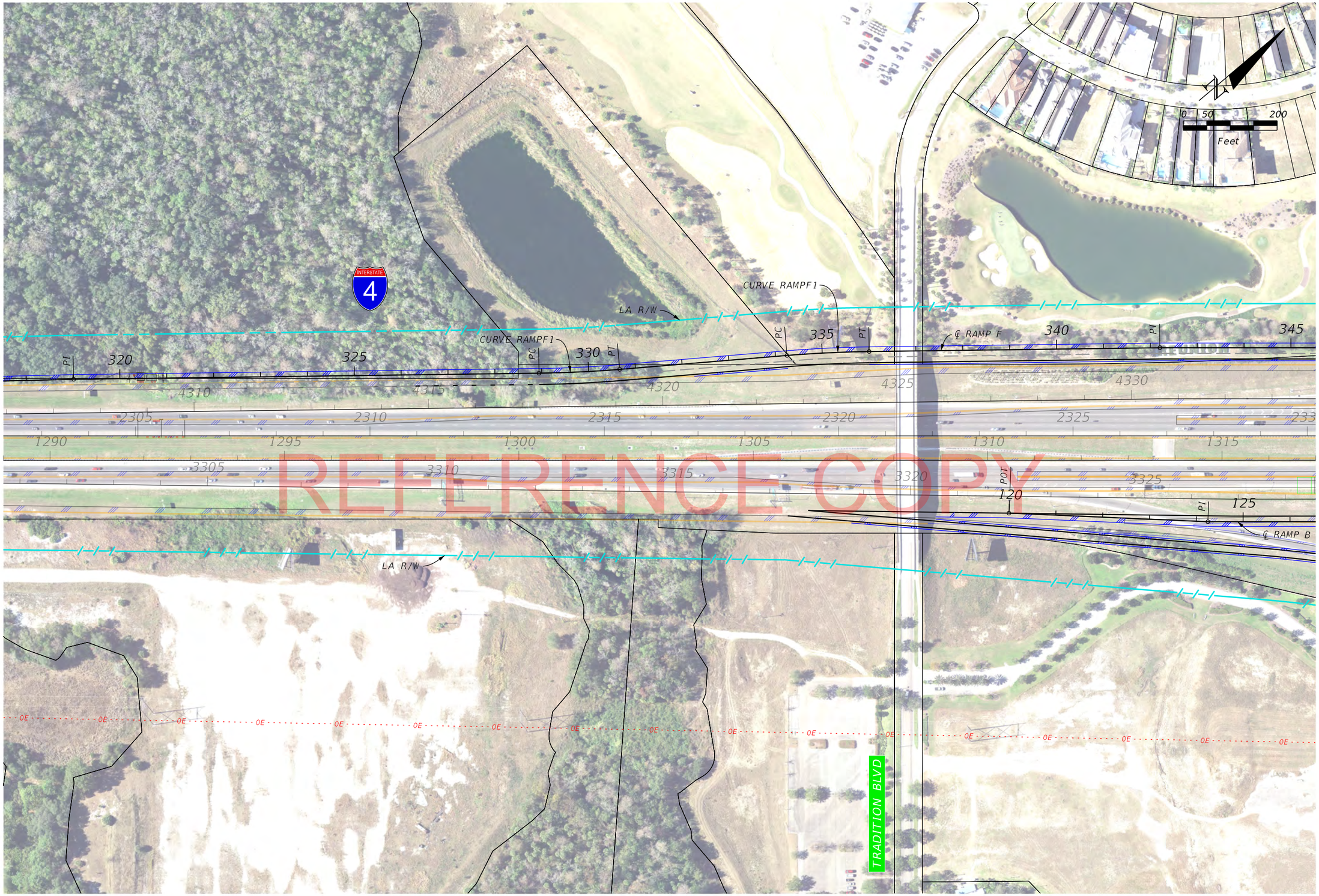

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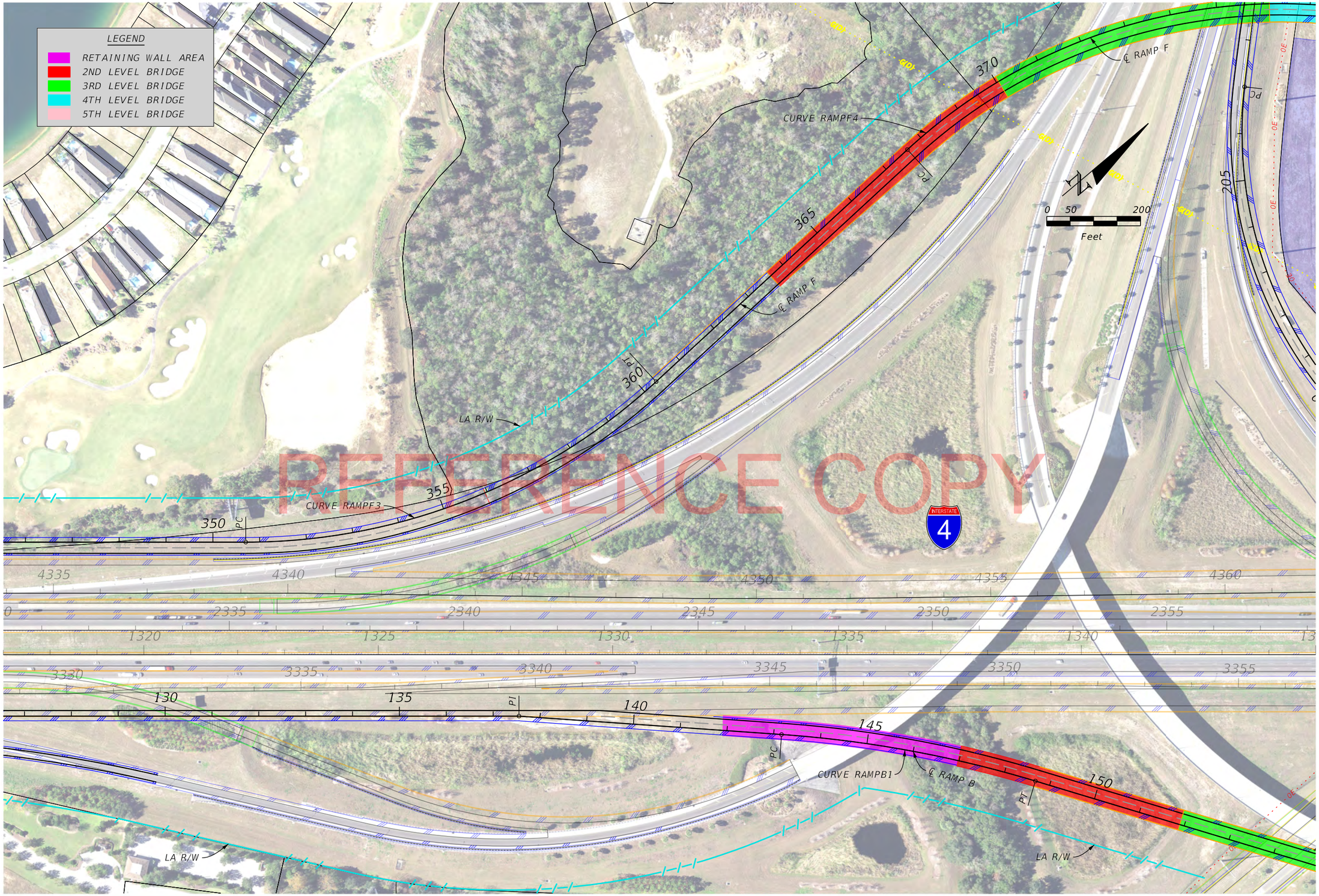
DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A
I-4 Interchange at SR 429
North Alignment

SHEET NO.
NA-8



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DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

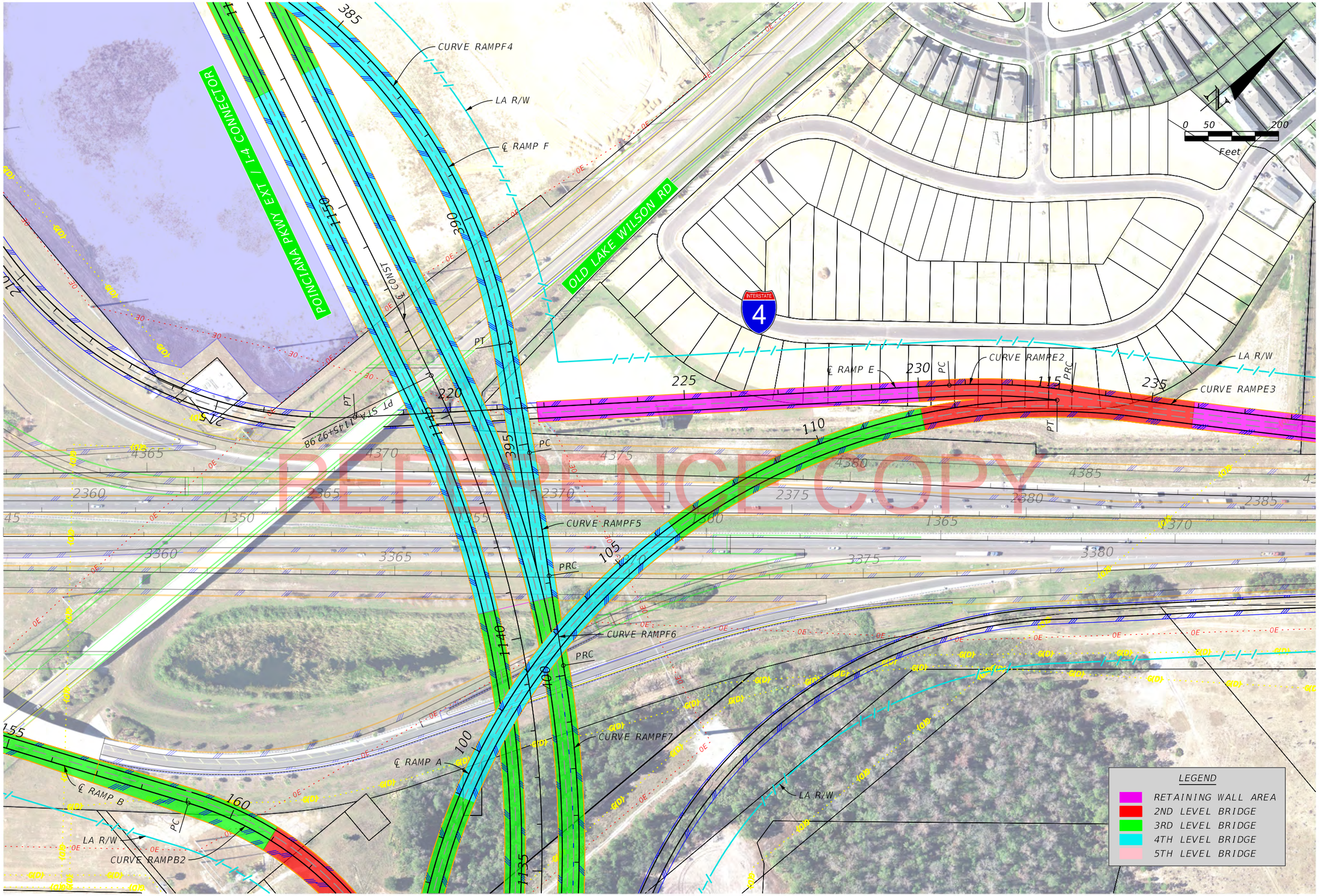
Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A
I-4 Interchange at SR 429
North Alignment

SHEET NO.

NA-9

Bill.Lemos 3/21/2018 4:23:21 PM K:\ORL_TPTO\149800000___I-4 Connector\200_Engineering\CADD\roadway\Roadway Alignments\plans\plan2A_NI-31.dgn



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CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A
I-4 Interchange at SR 429
North Alignment

SHEET NO.

NA-10

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CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A
I-4 Interchange at SR 429
North Alignment

SHEET NO.
NA-11

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DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A
I-4 Interchange at SR 429
North Alignment

SHEET NO.

NA-12

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Alternative 2A I-4 Interchange at SR 429 North Alignment ~ Ramp Curve Data

RAMP A

```
CURVE DATA RAMPA1
PI STA. = 38+65.04
Δ       = 2° 26' 04" (LT)
D       = 0° 28' 42"
T       = 254.46
L       = 508.85
R       = 11,976.00
PC STA. = 36+10.58
PT STA. = 41+19.42
e = NC

CURVE DATA RAMPA2
PI STA. = 44+06.44
Δ       = 2° 26' 04" (RT)
D       = 0° 28' 35"
T       = 255.48
L       = 510.89
R       = 12,024.00
PC STA. = 41+50.96
PT STA. = 46+61.85
e = NC

CURVE DATA RAMPA3
PI STA. = 49+97.00
Δ       = 2° 39' 08" (RT)
D       = 0° 57' 44"
T       = 137.85
L       = 275.65
R       = 5,955.00
PC STA. = 48+59.15
PT STA. = 51+34.80
0.021

CURVE DATA RAMPA4
PI STA. = 54+96.86
Δ       = 8° 50' 38" (RT)
D       = 1° 13' 26"
T       = 362.06
L       = 722.69
R       = 4,681.95
PC STA. = 51+34.80
PT STA. = 58+57.49
e = 0.026

CURVE DATA RAMPA5
PI STA. = 61+92.70
Δ       = 6° 25' 51" (RT)
D       = 0° 57' 37"
T       = 335.21
L       = 669.73
R       = 5,967.00
PC STA. = 58+57.49
PT STA. = 65+27.21
e = 0.021

CURVE DATA RAMPA6
PI STA. = 68+36.79
Δ       = 8° 08' 58" (RT)
D       = 1° 19' 06"
T       = 309.58
L       = 618.11
R       = 4,345.72
PC STA. = 65+27.21
PT STA. = 71+45.33
e = 0.028

CURVE DATA RAMPA7
PI STA. = 74+94.22
Δ       = 6° 40' 45" (RT)
D       = 0° 57' 30"
T       = 348.90
L       = 697.00
R       = 5,979.00
PC STA. = 71+45.33
PT STA. = 78+42.33
e = 0.021

CURVE DATA RAMPA8
PI STA. = 82+13.33
Δ       = 2° 24' 56" (LT)
D       = 0° 38' 18"
T       = 189.24
L       = 378.42
R       = 8,976.00
PC STA. = 80+24.09
PT STA. = 84+02.52
e = NC
```

RAMP A

```
CURVE DATA RAMPA9
PI STA. = 89+67.77
Δ       = 11° 01' 16" (LT)
D       = 1° 55' 31"
T       = 287.11
L       = 572.44
R       = 2,976.00
PC STA. = 86+80.66
PT STA. = 92+53.10
e = 0.039

CURVE DATA RAMPA10
PI STA. = 107+38.13
Δ       = 85° 22' 53" (RT)
D       = 4° 10' 12"
T       = 1,267.48
L       = 2,047.52
R       = 1,374.00
PC STA. = 94+70.65
PT STA. = 115+18.17
e = 0.074
```

RAMP B

```
CURVE DATA RAMPB1
PI STA. = 145+93.66
Δ       = 12° 46' 14" (RT)
D       = 2° 18' 51"
T       = 277.08
L       = 551.87
R       = 2,476.00
PC STA. = 143+16.58
PT STA. = 148+68.45
e = 0.046

CURVE DATA RAMPB2
PI STA. = 166+56.05
Δ       = 91° 37' 09" (RT)
D       = 7° 50' 55"
T       = 750.93
L       = 1,167.31
R       = 730.00
PC STA. = 159+05.13
PT STA. = 170+72.44
e = 0.10
```

RAMP E

```
CURVE DATA RAMPE1
PI STA. = 213+17.66
Δ       = 99° 32' 00" (LT)
D       = 6° 39' 16"
T       = 1,017.66
L       = 1,495.72
R       = 861.00
PC STA. = 203+00.01
PT STA. = 217+95.73
e = 0.096

CURVE DATA RAMPE2
PI STA. = 231+97.27
Δ       = 11° 19' 52" (RT)
D       = 4° 19' 39"
T       = 131.35
L       = 261.84
R       = 1,324.00
PC STA. = 230+65.92
PT STA. = 233+27.76
e = 0.076
```

RAMP E

```
CURVE DATA RAMPE3
PI STA. = 237+23.79
Δ       = 3° 02' 27" (LT)
D       = 0° 23' 02"
T       = 396.03
L       = 791.87
R       = 14,920.82
PC STA. = 233+27.76
PT STA. = 241+19.63
e = NC

CURVE DATA RAMPE4
PI STA. = 245+28.82
Δ       = 0° 48' 19" (LT)
D       = 0° 23' 01"
T       = 104.95
L       = 209.89
R       = 14,932.82
PC STA. = 244+23.87
PT STA. = 246+33.76
e = NC
```

RAMP F

```
CURVE DATA RAMPF1
PI STA. = 329+80.25
Δ       = 3° 59' 09" (LT)
D       = 2° 18' 51"
T       = 86.16
L       = 172.25
R       = 2,476.00
PC STA. = 328+94.09
PT STA. = 330+66.34
e = 0.046

CURVE DATA RAMPF2
PI STA. = 335+12.46
Δ       = 3° 59' 09" (RT)
D       = 2° 16' 12"
T       = 87.83
L       = 175.59
R       = 2,524.00
PC STA. = 334+24.63
PT STA. = 336+00.22
e = 0.045

CURVE DATA RAMPF3
PI STA. = 355+74.75
Δ       = 42° 41' 56" (LT)
D       = 4° 26' 17"
T       = 504.62
L       = 962.10
R       = 1,291.00
PC STA. = 350+70.13
PT STA. = 360+32.23
e = 0.077

CURVE DATA RAMPF4
PI STA. = 389+21.79
Δ       = 122° 56' 48" (RT)
D       = 4° 52' 49"
T       = 2,159.85
L       = 2,519.20
R       = 1,174.00
PC STA. = 367+61.95
PT STA. = 392+81.15
e = 0.083

CURVE DATA RAMPF5
PI STA. = 396+51.99
Δ       = 1° 19' 17" (RT)
D       = 0° 29' 51"
T       = 132.81
L       = 265.61
R       = 11,516.47
PC STA. = 395+19.17
PT STA. = 397+84.79
e = NC
```

RAMP F

```
CURVE DATA RAMPF6
PI STA. = 398+81.76
Δ       = 1° 14' 05" (LT)
D       = 0° 38' 12"
T       = 96.97
L       = 193.94
R       = 9,000.00
PC STA. = 397+84.79
PT STA. = 399+78.72
e = NC

CURVE DATA RAMPF7
PI STA. = 405+71.34
Δ       = 28° 03' 18" (RT)
D       = 2° 24' 56"
T       = 592.61
L       = 1,161.45
R       = 2,372.00
PC STA. = 399+78.72
PT STA. = 411+40.18
e = 0.082
```

RAMP G

```
CURVE DATA RAMPG1
PI STA. = 452+41.36
Δ       = 18° 31' 12" (RT)
D       = 3° 52' 13"
T       = 241.36
L       = 478.51
R       = 1,480.37
PC STA. = 450+00.00
PT STA. = 454+78.51
e = 0.070

CURVE DATA RAMPG2
PI STA. = 470+41.35
Δ       = 7° 52' 10" (RT)
D       = 1° 54' 01"
T       = 207.38
L       = 414.10
R       = 3,015.00
PC STA. = 468+33.98
PT STA. = 472+48.08
e = 0.039
```

RAMP H

```
CURVE DATA RAMPH1
PI STA. = 501+08.57
Δ       = 4° 58' 25" (LT)
D       = 2° 17' 31"
T       = 108.57
L       = 217.01
R       = 2,500.00
PC STA. = 500+00.00
PT STA. = 502+17.01
e = 0.046

CURVE DATA RAMPH2
PI STA. = 503+85.27
Δ       = 4° 58' 25" (RT)
D       = 3° 01' 15"
T       = 82.37
L       = 164.64
R       = 1,896.65
PC STA. = 503+02.90
PT STA. = 504+67.54
e = 0.057
```

RAMP H

```
CURVE DATA RAMPH3
PI STA. = 509+98.69
Δ       = 19° 42' 09" (LT)
D       = 3° 51' 30"
T       = 257.87
L       = 510.65
R       = 1,485.00
PC STA. = 507+40.82
PT STA. = 512+51.47
e = 0.070
```

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DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A
I-4 Interchange at SR 429
North Alignment

SHEET NO.
NA-13

APPENDIX I

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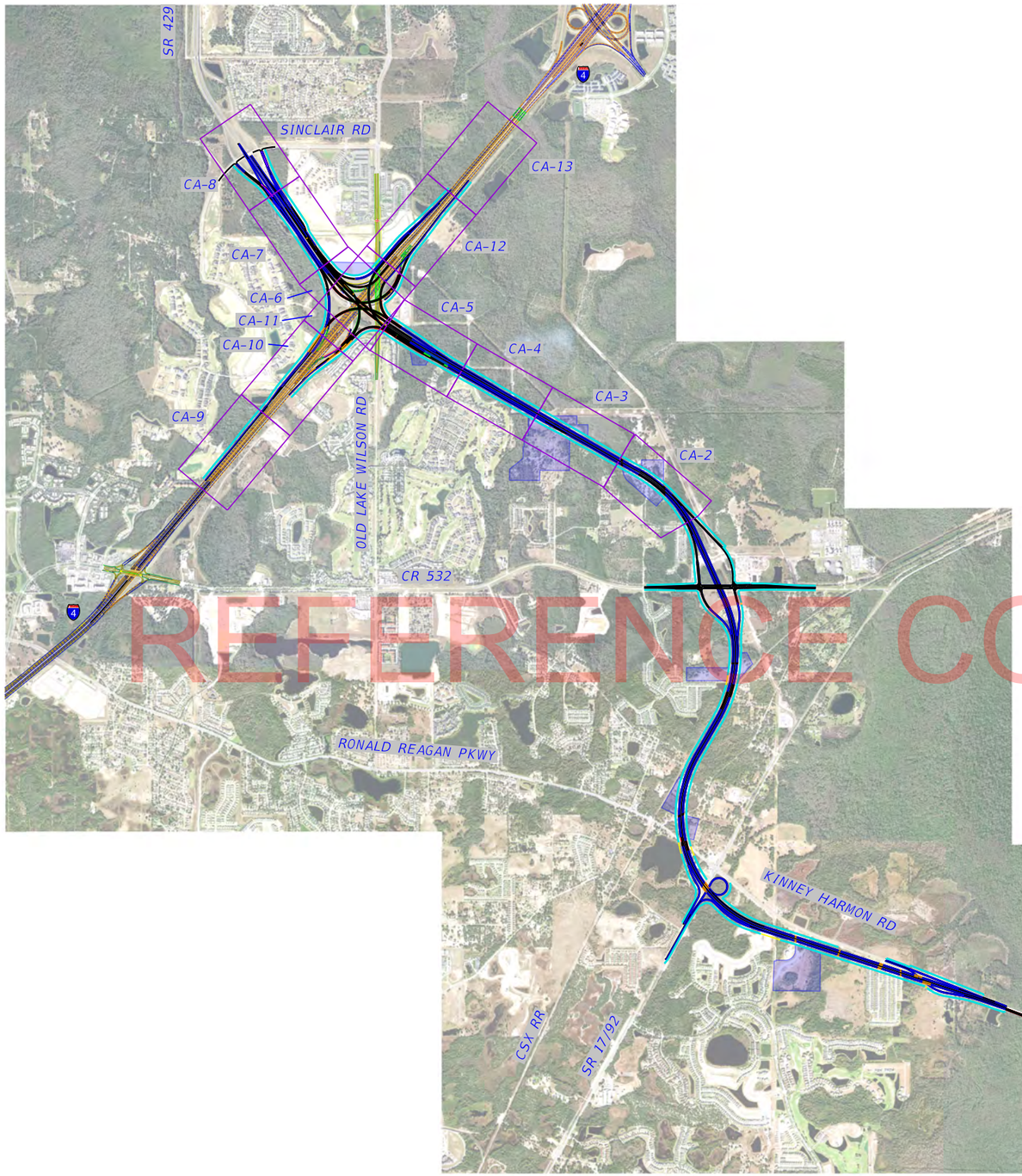

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

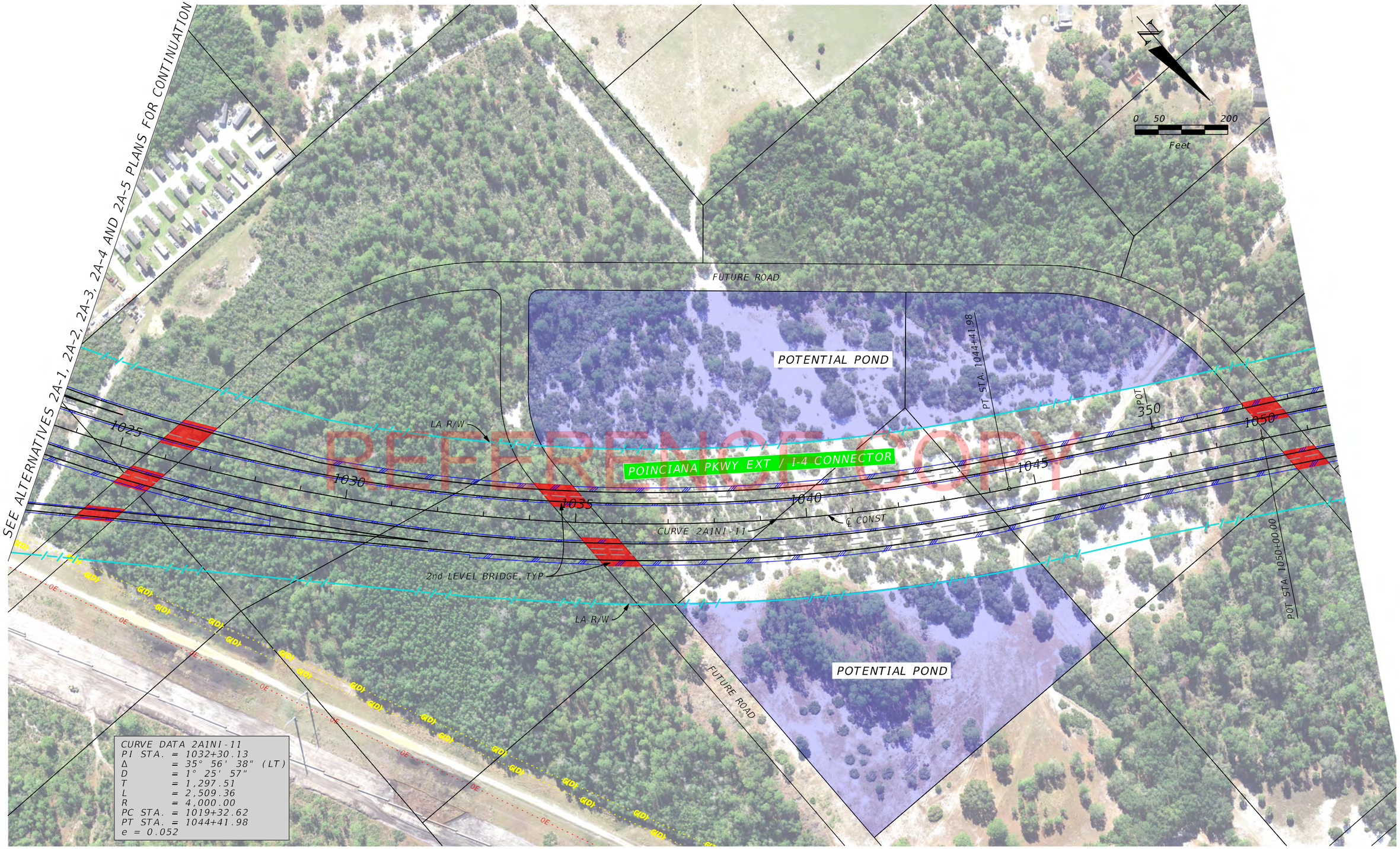
Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A
I-4 Interchange at SR 429
Center Alignment

SHEET NO.

CA-1

Bill.Lemos 3/21/2018 1:52:51 PM K:\ORL_TPTO\149800000___I-4 Connector\200_Engineering\CADD\roadway\Roadway Alignments\plans\play2A_1_CL.dgn



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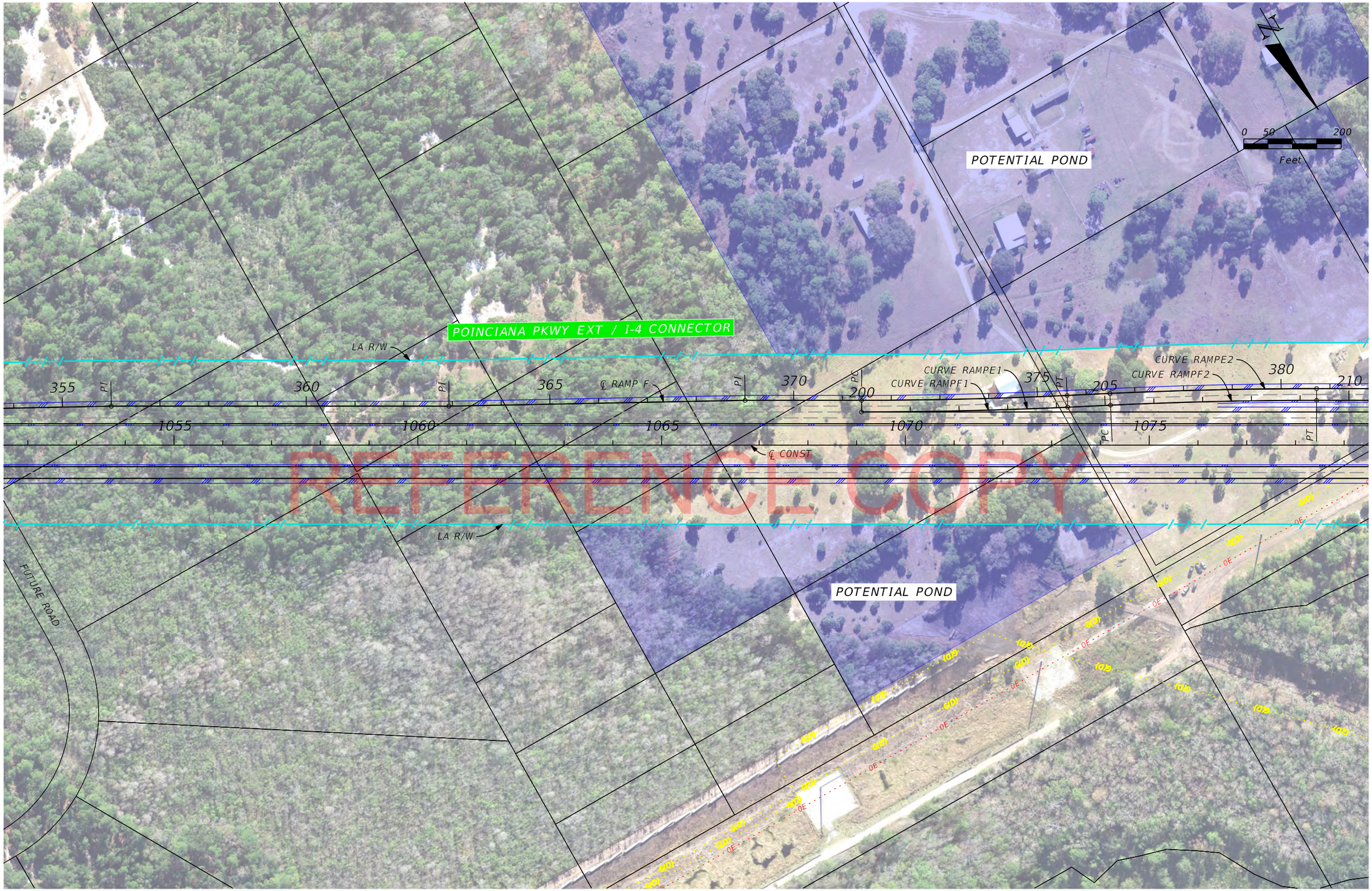
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A
I-4 Interchange at SR 429
Center Alignment

SHEET NO.
CA-2



REFERENCE COPY

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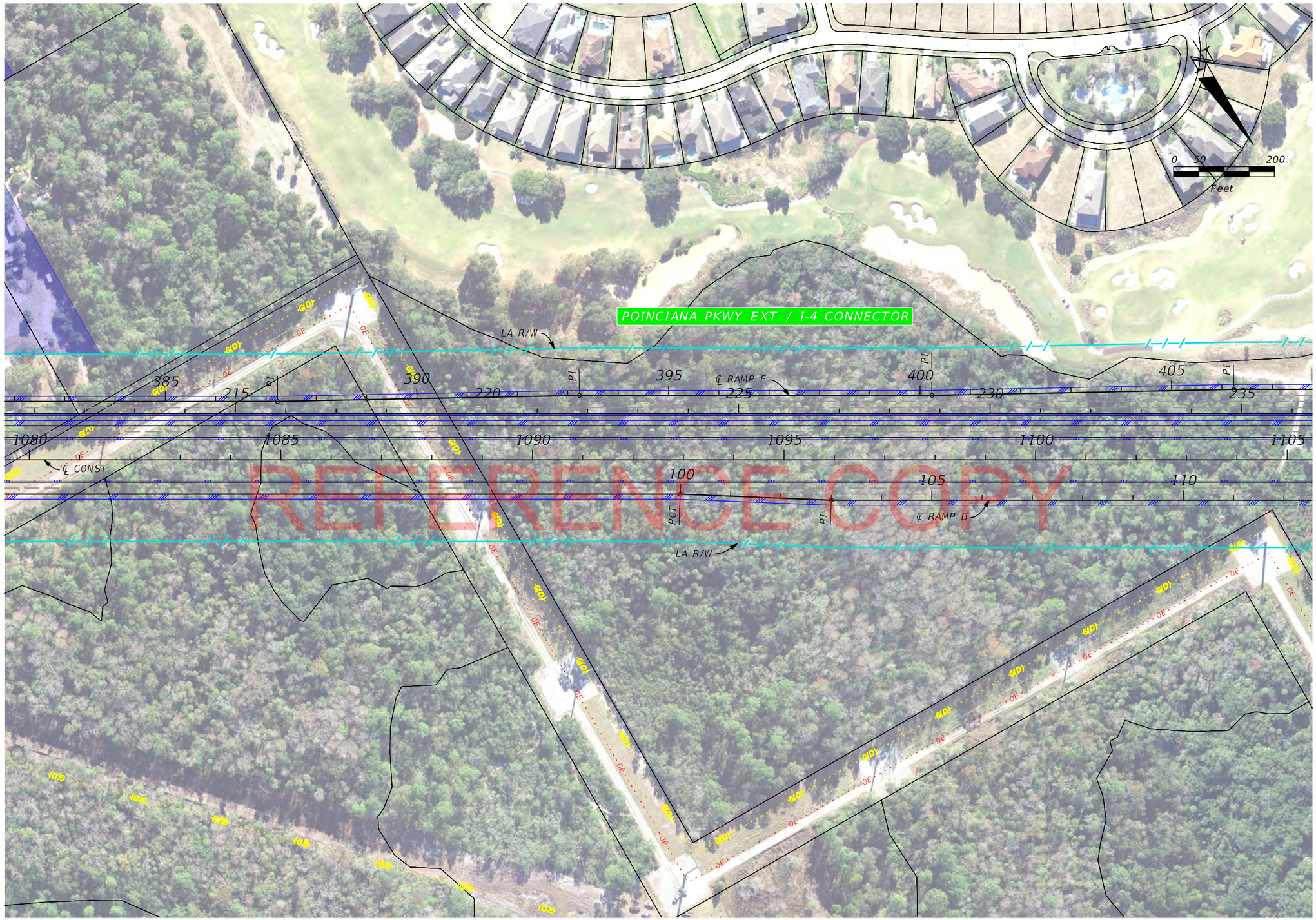
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A
I-4 Interchange at SR 429
Center Alignment

SHEET NO.
CA-3

Bill.Lemos 3/21/2018 1:55:05 PM K:\ORL_TPTO\149800000___I-4 Connector\200_Engineering\CADD\roadway\Roadway Alignments\plans\plan2A_CI-23.dgn



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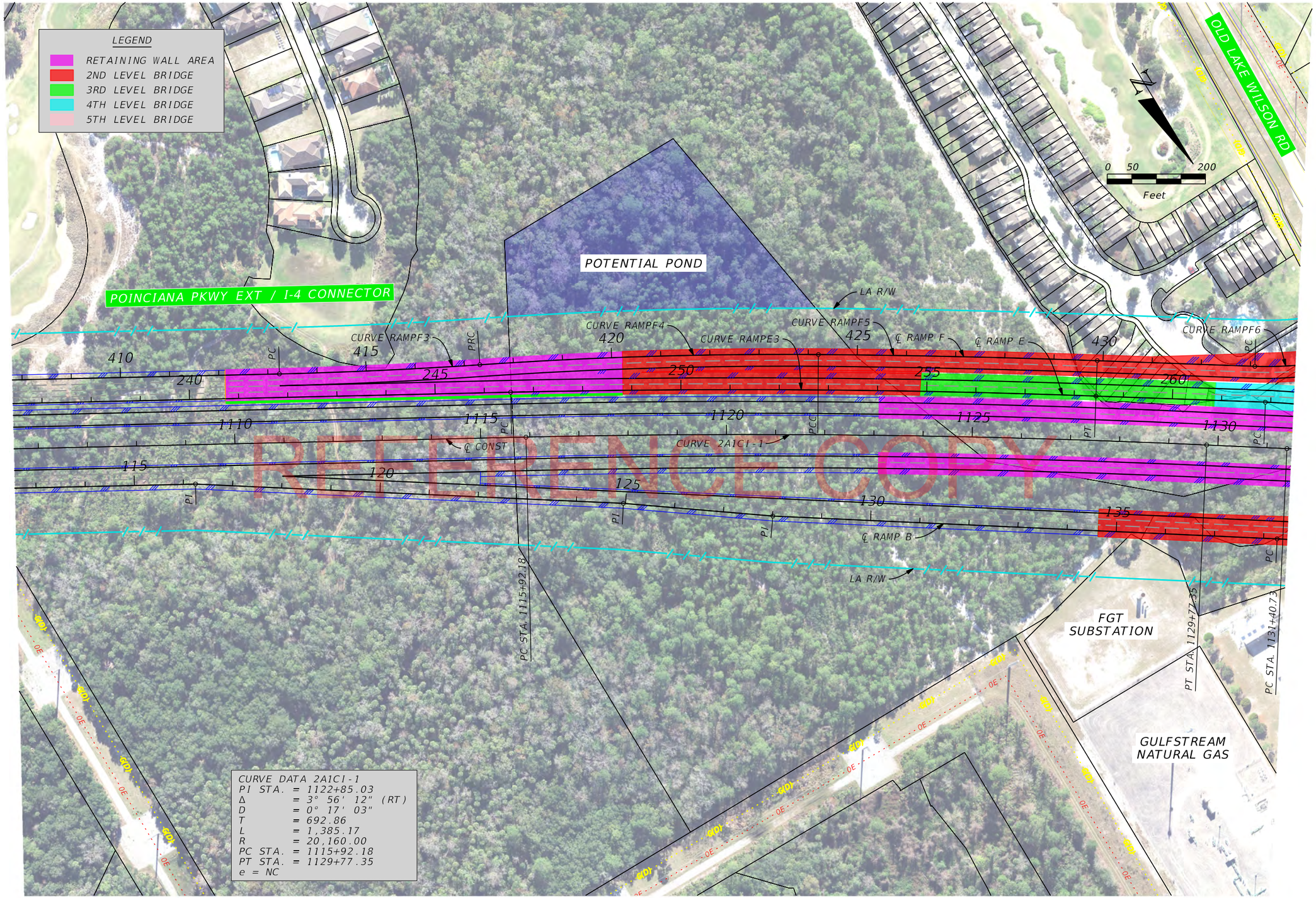
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A
I-4 Interchange at SR 429
Center Alignment

SHEET NO.
CA-4



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

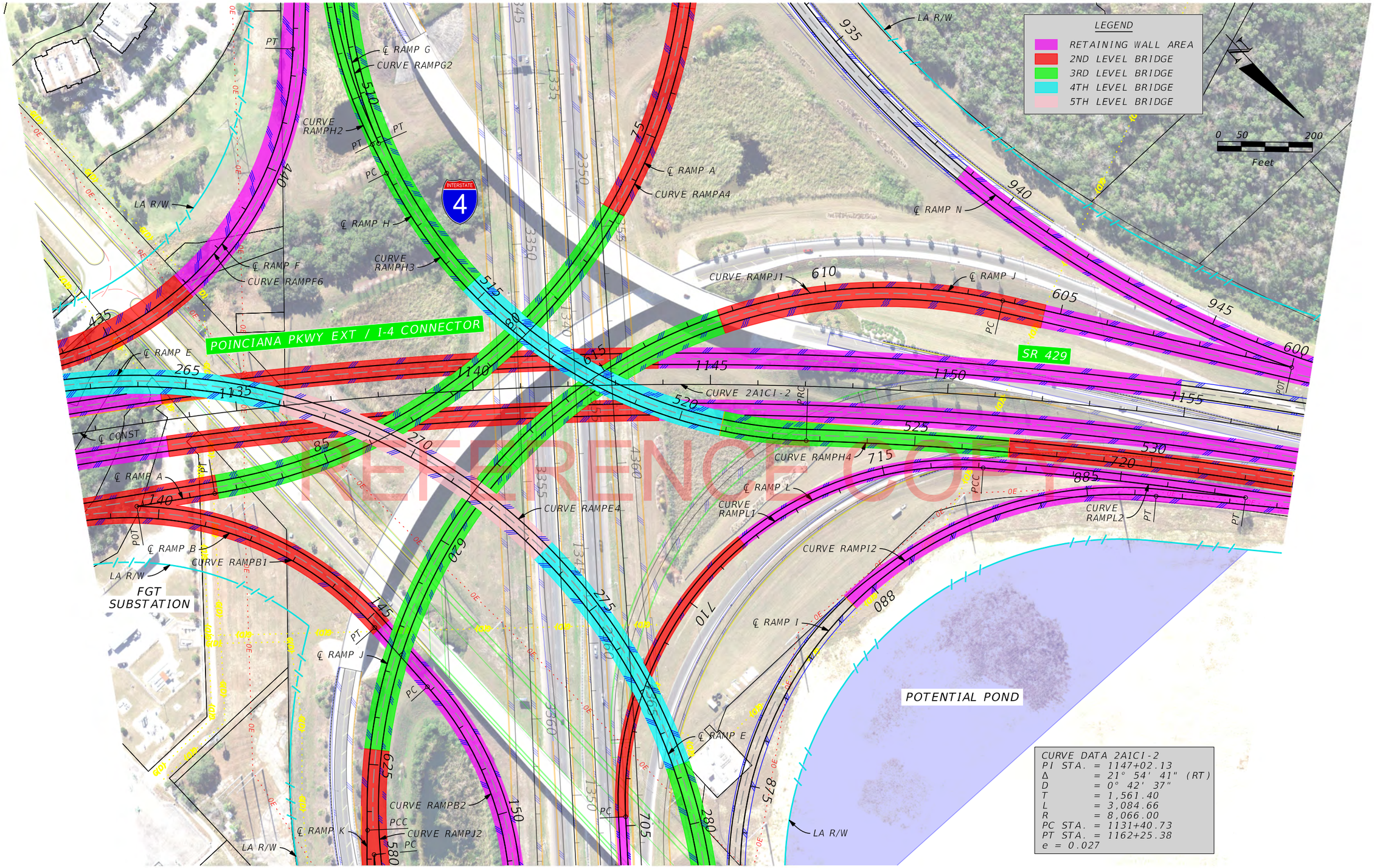
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A
I-4 Interchange at SR 429
Center Alignment

SHEET NO.
CA-5

Bill.Lemos 3/21/2018 1:57:31 PM K:\ORL_TPTO\149800000___I-4 Connector\200_Engineering\CADD\roadway\Roadway Alignments\plans\plan2A_CI-25.dgn



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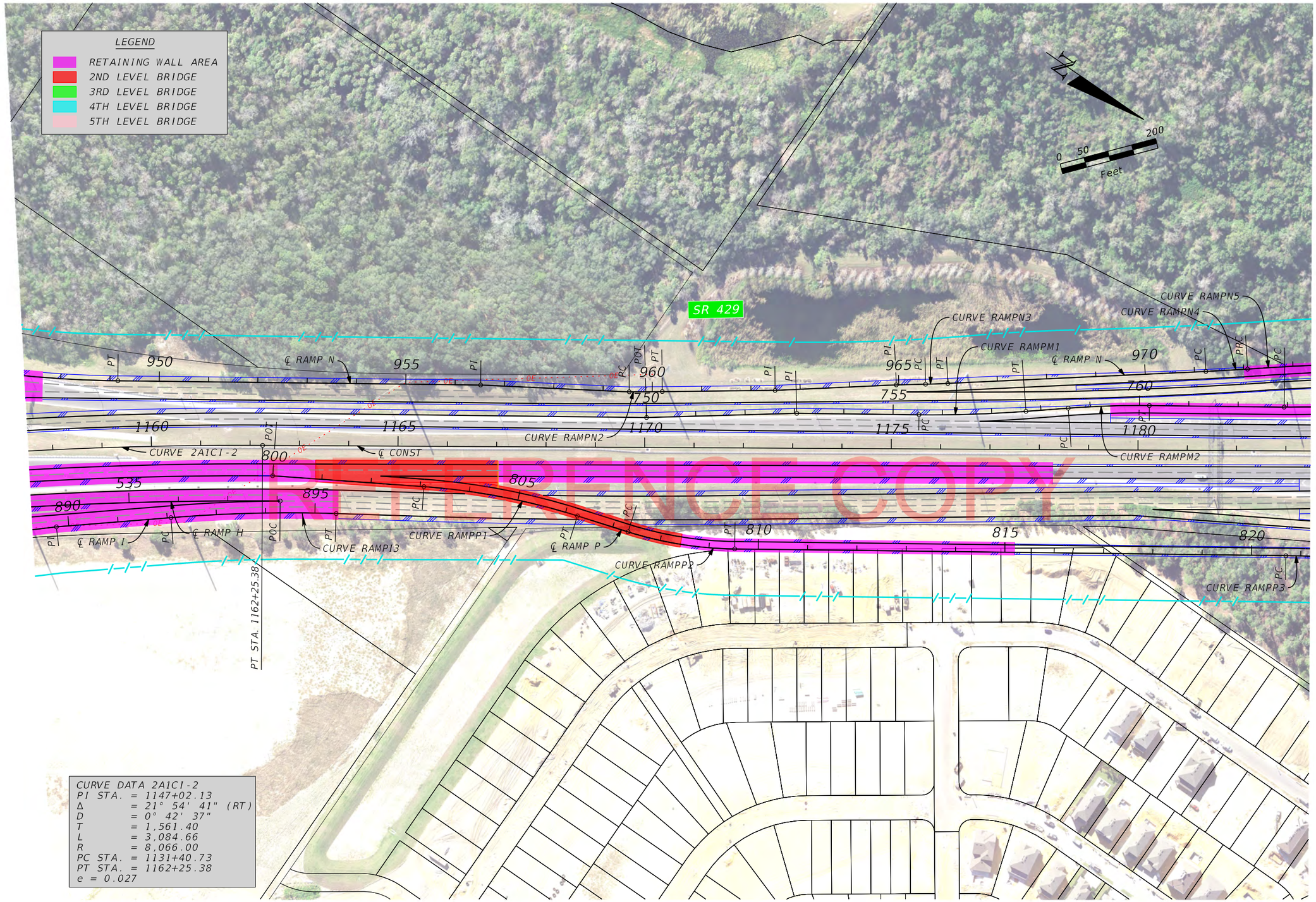
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A
I-4 Interchange at SR 429
Center Alignment

SHEET NO.

CA-6



REFERENCE COPY

CURVE DATA 2A1CI-2
PI STA. = 1147+02.13
Δ = 21° 54' 41" (RT)
D = 0° 42' 37"
T = 1,561.40
L = 3,084.66
R = 8,066.00
PC STA. = 1131+40.73
PT STA. = 1162+25.38
e = 0.027

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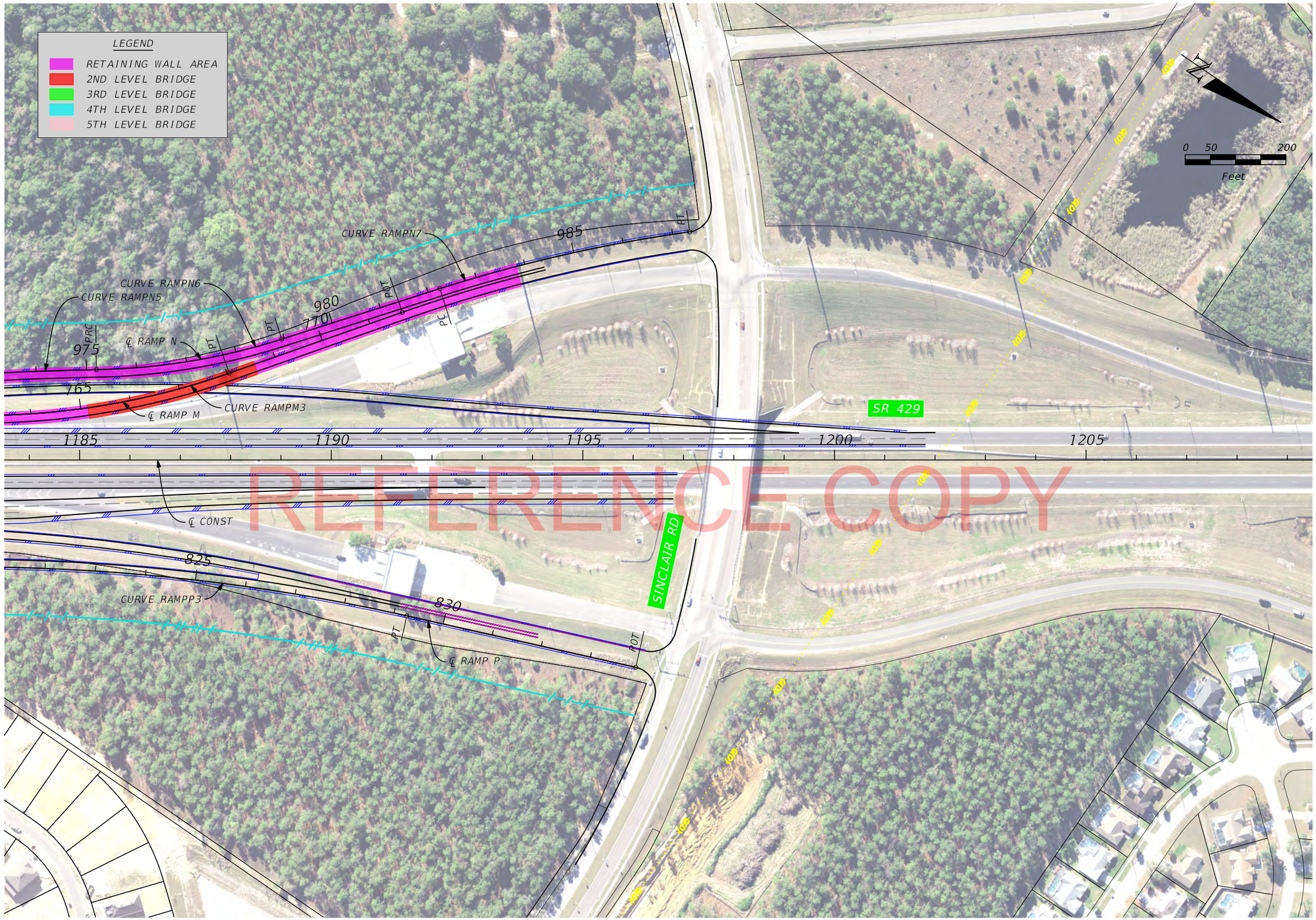
Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A
I-4 Interchange at SR 429
Center Alignment

SHEET NO.
CA-7



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Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A
I-4 Interchange at SR 429
Center Alignment

SHEET NO.
CA-8

Bill.Lemos 3/21/2018 2:00:52 PM K:\ORL_TPTO\149800000___I-4 Connector\200_Engineering\CADD\roadway\Roadway Alignments\plans\plan2A_CI-28.dgn

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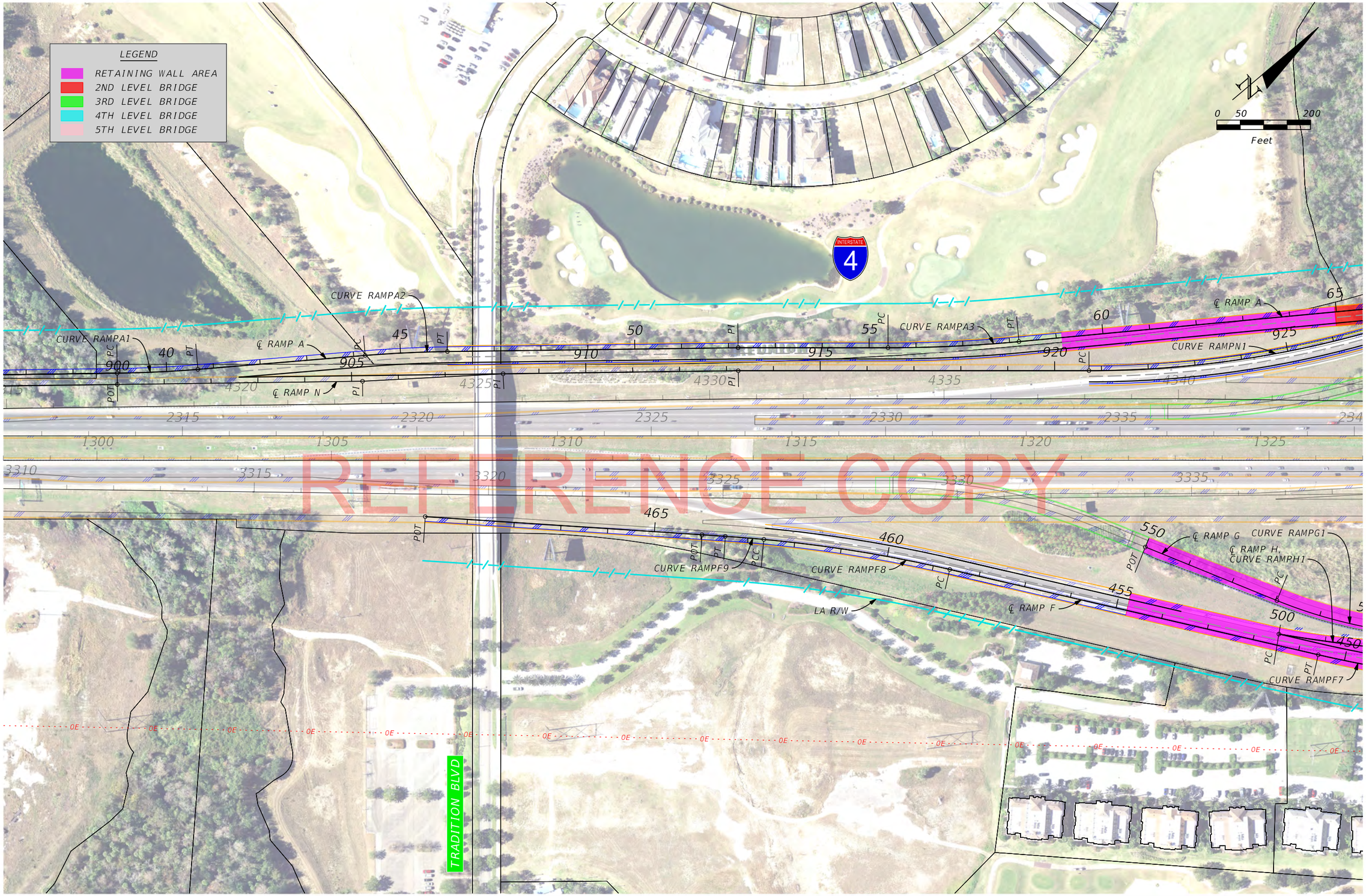
Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A
I-4 Interchange at SR 429
Center Alignment

SHEET NO.
CA-9



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Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A
I-4 Interchange at SR 429
Center Alignment

SHEET NO.
CA-10

LEGEND

- RETAINING WALL AREA
- 2ND LEVEL BRIDGE
- 3RD LEVEL BRIDGE
- 4TH LEVEL BRIDGE
- 5TH LEVEL BRIDGE

0 50 200
Feet

POTENTIAL POND

SR 429

INTERSTATE 4

OLD LAKE WILSON RD

POINCIANA PKWY EXT / I-4 CONNECTOR

℄ RAMP N
℄ RAMP J
℄ RAMP L
℄ RAMP I
℄ RAMP A
℄ RAMP E
℄ RAMP G
℄ RAMP H
℄ RAMP F
℄ RAMP K
℄ RAMP J
℄ RAMP B

CURVE RAMPL2
CURVE RAMPH4
CURVE RAMPL1
CURVE RAMPI2
CURVE RAMP4
CURVE RAMPA4
CURVE RAMPN1
CURVE RAMPG1
CURVE RAMPH1
CURVE RAMPG2
CURVE RAMPH3
CURVE RAMPH2
CURVE RAMPF7
CURVE RAMPF6
CURVE RAMPJ1
CURVE RAMPB2
CURVE RAMPK1
CURVE RAMPJ2
CURVE RAMPB1

LA R/W

FGT SUBSTATION

GULFSTREAM NATURAL GAS

COMMUNICATION TOWERS

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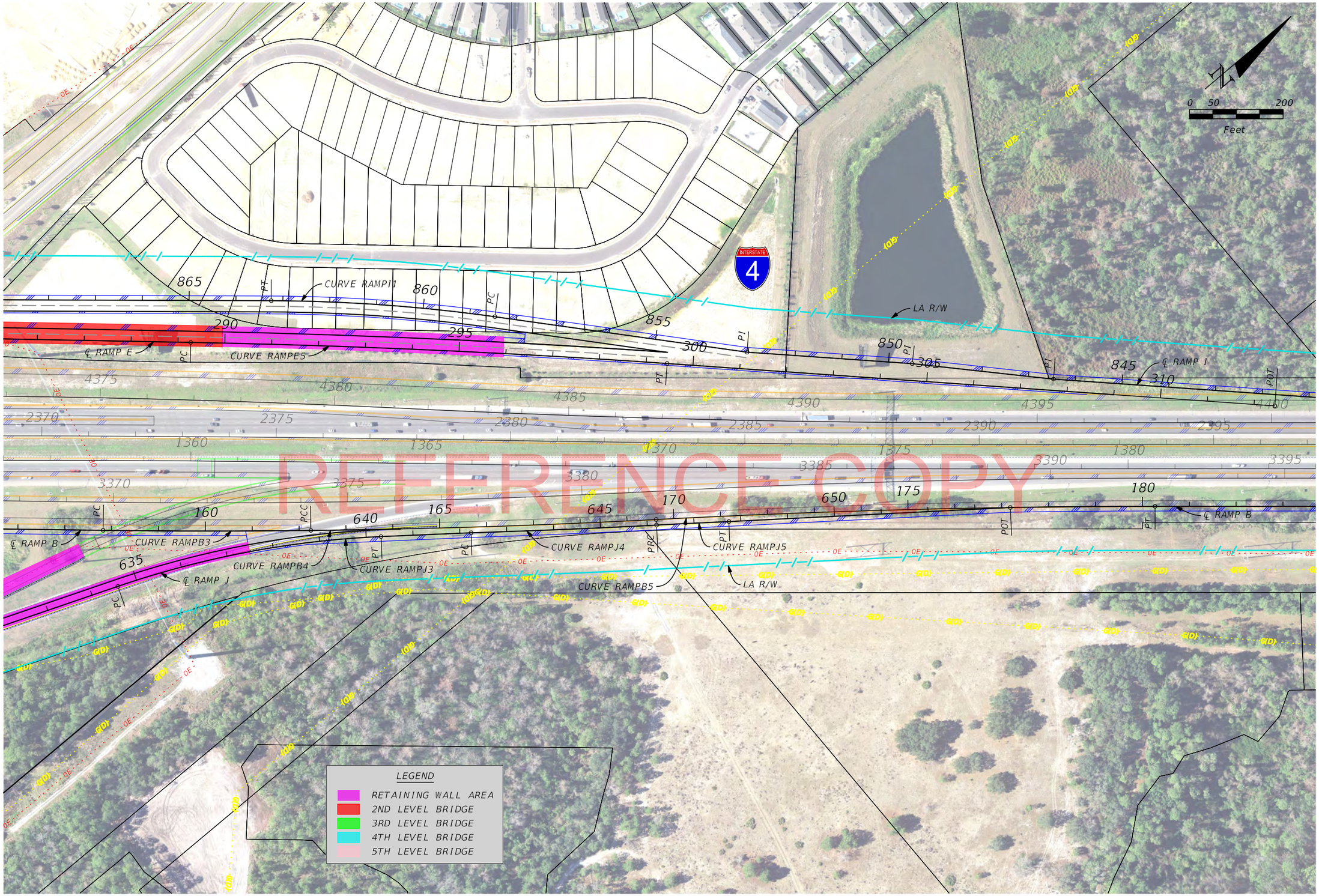
Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A
I-4 Interchange at SR 429
Center Alignment

SHEET NO.
CA-11

Bill.Lemos 3/21/2018 2:04:47 PM K:\ORL_TPTO\149800000___I-4 Connector\200_Engineering\CADD\roadway\Roadway Alignments\plans\plan2A_CI-31.dgn



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DATE	DESCRIPTION	DATE	DESCRIPTION

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Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A
I-4 Interchange at SR 429
Center Alignment

SHEET NO.
CA-12

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CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A
I-4 Interchange at SR 429
Center Alignment

SHEET NO.
CA-13

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Alternative 2A I-4 Interchange at SR 429 Center Alignment ~ Ramp Curve Data

RAMP A

CURVE DATA RAMPA1
PI STA. = 39+80.25
Δ = 3° 59' 09" (LT)
D = 2° 18' 51"
T = 86.16
L = 172.25
R = 2,476.00
PC STA. = 38+94.09
PT STA. = 40+66.34
e = 0.046

CURVE DATA RAMPA2
PI STA. = 45+12.46
Δ = 3° 59' 09" (RT)
D = 2° 16' 12"
T = 87.83
L = 175.59
R = 2,524.00
PC STA. = 44+24.63
PT STA. = 46+00.22
e = 0.045

CURVE DATA RAMPA3
PI STA. = 56+80.22
Δ = 5° 21' 38" (LT)
D = 1° 54' 56"
T = 140.02
L = 279.83
R = 2,991.00
PC STA. = 55+40.21
PT STA. = 58+20.04
e = 0.039

CURVE DATA RAMPA4
PI STA. = 80+57.64
Δ = 89° 01' 05" (RT)
D = 4° 44' 21"
T = 1,188.46
L = 1,878.37
R = 1,209.00
PC STA. = 68+69.18
PT STA. = 87+47.56
e = 0.081

RAMP B

CURVE DATA RAMPB1
PI STA. = 142+08.08
Δ = 57° 40' 18" (RT)
D = 8° 17' 30"
T = 380.44
L = 695.53
R = 691.00
PC STA. = 138+27.64
PT STA. = 145+23.17
e = 0.10

CURVE DATA RAMPB2
PI STA. = 149+37.23
Δ = 39° 25' 14" (RT)
D = 8° 17' 30"
T = 247.55
L = 475.42
R = 691.00
PC STA. = 146+89.67
PT STA. = 151+65.09
e = 0.10

CURVE DATA RAMPB3
PI STA. = 160+03.39
Δ = 1° 24' 21" (LT)
D = 0° 19' 02"
T = 221.56
L = 443.09
R = 18,060.00
PC STA. = 157+81.83
PT STA. = 162+24.92
e = NC

RAMP B

CURVE DATA RAMPB4
PI STA. = 165+93.69
Δ = 2° 20' 22" (LT)
D = 0° 19' 02"
T = 368.77
L = 737.43
R = 18,060.00
PC STA. = 162+24.92
PT STA. = 169+62.35
e = NC

CURVE DATA RAMPB5
PI STA. = 174+94.80
Δ = 2° 59' 04" (RT)
D = 0° 16' 49"
T = 532.45
L = 1,064.66
R = 20,440.00
PC STA. = 169+62.35
PT STA. = 180+27.01
e = NC

RAMP E

CURVE DATA RAMPE1
PI STA. = 202+11.51
Δ = 2° 41' 33" (LT)
D = 0° 38' 12"
T = 211.51
L = 422.94
R = 9,000.00
PC STA. = 200+00.00
PT STA. = 204+22.94
e = NC

CURVE DATA RAMPE2
PI STA. = 207+22.33
Δ = 2° 41' 33" (RT)
D = 0° 38' 12"
T = 211.51
L = 422.94
R = 9,000.00
PC STA. = 205+10.82
PT STA. = 209+33.76
e = NC

CURVE DATA RAMPE3
PI STA. = 252+49.09
Δ = 3° 22' 11" (RT)
D = 0° 16' 59"
T = 595.65
L = 1,190.95
R = 20,250.00
PC STA. = 246+53.44
PT STA. = 258+44.39
e = NC

CURVE DATA RAMPE4
PI STA. = 275+68.37
Δ = 97° 56' 41" (RT)
D = 4° 46' 29"
T = 1,379.10
L = 2,051.35
R = 1,200.00
PC STA. = 261+89.27
PT STA. = 282+40.62
e = 0.081

CURVE DATA RAMPE5
PI STA. = 294+35.95
Δ = 2° 54' 56" (RT)
D = 0° 17' 11"
T = 508.99
L = 1,017.76
R = 20,000.00
PC STA. = 289+26.96
PT STA. = 299+44.72
e = NC

RAMP F

CURVE DATA RAMPF1
PI STA. = 373+50.06
Δ = 2° 41' 33" (LT)
D = 0° 38' 18"
T = 210.94
L = 421.81
R = 8,976.00
PC STA. = 371+39.11
PT STA. = 375+60.92
e = NC

CURVE DATA RAMPF2
PI STA. = 378+60.88
Δ = 2° 41' 33" (RT)
D = 0° 38' 06"
T = 212.07
L = 424.07
R = 9,024.00
PC STA. = 376+48.81
PT STA. = 380+72.87
e = NC

CURVE DATA RAMPF3
PI STA. = 415+27.59
Δ = 2° 36' 20" (LT)
D = 0° 38' 18"
T = 204.13
L = 408.20
R = 8,976.00
PC STA. = 413+23.46
PT STA. = 417+31.66
e = NC

CURVE DATA RAMPF4
PI STA. = 420+76.40
Δ = 4° 22' 32" (RT)
D = 0° 38' 06"
T = 344.74
L = 689.14
R = 9,024.00
PC STA. = 417+31.66
PT STA. = 424+20.80
e = NC

CURVE DATA RAMPF5
PI STA. = 427+04.52
Δ = 1° 35' 59" (RT)
D = 0° 16' 55"
T = 283.72
L = 567.41
R = 20,322.00
PC STA. = 424+20.80
PT STA. = 429+88.21
e = NC

CURVE DATA RAMPF6
PI STA. = 438+74.21
Δ = 78° 34' 35" (LT)
D = 8° 17' 30"
T = 565.34
L = 947.65
R = 691.00
PC STA. = 433+08.86
PT STA. = 442+56.51
e = 0.10

CURVE DATA RAMPF7
PI STA. = 448+70.76
Δ = 8° 28' 46" (RT)
D = 2° 16' 12"
T = 187.11
L = 373.54
R = 2,524.00
PC STA. = 446+83.65
PT STA. = 450+57.18
e = 0.045

CURVE DATA RAMPF8
PI STA. = 460+65.37
Δ = 7° 42' 11" (LT)
D = 1° 54' 56"
T = 201.36
L = 402.12
R = 2,991.00
PC STA. = 458+64.01
PT STA. = 462+66.13
e = 0.039

RAMP F

CURVE DATA RAMPF9
PI STA. = 463+07.33
Δ = 1° 34' 43" (LT)
D = 1° 54' 56"
T = 41.21
L = 82.41
R = 2,991.00
PC STA. = 462+66.13
PT STA. = 463+48.54
e = 0.039*

RAMP G

CURVE DATA RAMPG1
PI STA. = 554+64.11
Δ = 18° 02' 26" (LT)
D = 5° 38' 42"
T = 161.13
L = 319.59
R = 1,015.00
PC STA. = 553+02.98
PT STA. = 556+22.57
e = 0.089

CURVE DATA RAMPG2
PI STA. = 561+98.90
Δ = 24° 26' 55" (LT)
D = 5° 38' 42"
T = 219.90
L = 433.11
R = 1,015.00
PC STA. = 559+79.00
PT STA. = 564+12.10
e = 0.089

RAMP H

CURVE DATA RAMPH1
PI STA. = 501+79.83
Δ = 5° 08' 54" (LT)
D = 1° 25' 57"
T = 179.83
L = 359.42
R = 4,000.00
PC STA. = 500+00.00
PT STA. = 503+59.42
e = 0.030

CURVE DATA RAMPH2
PI STA. = 508+60.73
Δ = 27° 59' 43" (LT)
D = 5° 38' 42"
T = 253.02
L = 495.94
R = 1,015.00
PC STA. = 506+07.71
PT STA. = 511+03.64
e = 0.089

CURVE DATA RAMPH3
PI STA. = 517+81.23
Δ = 61° 33' 15" (LT)
D = 5° 35' 43"
T = 609.87
L = 1,100.11
R = 1,024.00
PC STA. = 511+71.36
PT STA. = 522+71.47
e = 0.089

RAMP H

CURVE DATA RAMPH4
PI STA. = 530+41.26
Δ = 11° 03' 46" (RT)
D = 0° 43' 15"
T = 769.79
L = 1,534.79
R = 7,949.00
PC STA. = 522+71.47
PT STA. = 538+06.26
e = RC

RAMP I

CURVE DATA RAMPI1
PI STA. = 860+85.84
Δ = 7° 47' 07" (LT)
D = 1° 37' 33"
T = 239.79
L = 478.84
R = 3,524.00
PC STA. = 858+46.05
PT STA. = 863+24.89
e = 0.034

CURVE DATA RAMPI2
PI STA. = 881+97.30
Δ = 98° 15' 22" (RT)
D = 7° 09' 43"
T = 924.46
L = 1,371.91
R = 800.00
PC STA. = 872+72.84
PT STA. = 886+44.76
e = 0.098

CURVE DATA RAMPI3
PI STA. = 893+75.51
Δ = 6° 27' 23" (RT)
D = 1° 55' 31"
T = 167.86
L = 335.36
R = 2,976.00
PC STA. = 892+07.66
PT STA. = 895+43.01
e = 0.039

RAMP J

CURVE DATA RAMPJ1
PI STA. = 620+63.45
Δ = 105° 30' 16" (LT)
D = 5° 14' 14"
T = 1,438.80
L = 2,014.49
R = 1,094.00
PC STA. = 606+24.66
PT STA. = 626+39.15
e = 0.085

CURVE DATA RAMPJ2
PI STA. = 628+79.76
Δ = 24° 40' 37" (LT)
D = 5° 12' 31"
T = 240.61
L = 473.76
R = 1,100.00
PC STA. = 626+39.15
PT STA. = 631+12.91
e = 0.085

RAMP J

CURVE DATA RAMPJ3
PI STA. = 637+46.96
Δ = 16° 25' 24" (RT)
D = 2° 51' 53"
T = 288.62
L = 573.28
R = 2,000.00
PC STA. = 634+58.34
PT STA. = 640+31.63
e = 0.055

CURVE DATA RAMPJ4
PI STA. = 644+21.99
Δ = 1° 15' 19" (LT)
D = 0° 19' 01"
T = 197.99
L = 395.96
R = 18,072.00
PC STA. = 642+24.00
PT STA. = 646+19.96
e = NC

CURVE DATA RAMPJ5
PI STA. = 646+97.23
Δ = 0° 26' 00" (RT)
D = 0° 16' 50"
T = 77.27
L = 154.53
R = 20,428.00
PC STA. = 646+19.96
PT STA. = 647+74.49
e = NC

RAMP K

CURVE DATA RAMPK1
PI STA. = 582+35.53
Δ = 24° 17' 38" (LT)
D = 5° 14' 09"
T = 235.53
L = 463.99
R = 1,094.30
PC STA. = 580+00.00
PT STA. = 584+63.99
e = 0.085

RAMP L

CURVE DATA RAMPL1
PI STA. = 713+16.56
Δ = 97° 26' 18" (RT)
D = 8° 11' 06"
T = 797.33
L = 1,190.43
R = 700.00
PC STA. = 705+19.23
PT STA. = 717+09.66
e = 0.10

CURVE DATA RAMPL2
PI STA. = 719+88.02
Δ = 4° 01' 48" (RT)
D = 0° 43' 27"
T = 278.36
L = 556.49
R = 7,912.00
PC STA. = 717+09.66
PT STA. = 722+66.16
e = RC

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Concept, Feasability and Mobility Study
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Poinciana Parkway Extension / I-4 Connector

Alternative 2A
I-4 Interchange at SR 429
Center Alignment

SHEET NO.
CA-14

Alternative 2A I-4 Interchange at SR 429 Center Alignment ~ Ramp Curve Data

RAMP M

CURVE DATA RAMPM1
PI STA. = 756+61.07
Δ = 4° 58' 25" (LT)
D = 2° 17' 31"
T = 108.57
L = 217.01
R = 2,500.00
PC STA. = 755+52.50
PT STA. = 757+69.51
e = 0.046

CURVE DATA RAMPM2
PI STA. = 759+37.77
Δ = 4° 58' 25" (RT)
D = 3° 01' 15"
T = 82.37
L = 164.64
R = 1,896.65
PC STA. = 758+55.40
PT STA. = 760+20.03
e = 0.057

CURVE DATA RAMPM3
PI STA. = 765+51.18
Δ = 19° 42' 09" (LT)
D = 3° 51' 30"
T = 257.87
L = 510.65
R = 1,485.00
PC STA. = 762+93.31
PT STA. = 768+03.96
e = 0.070

RAMP N

CURVE DATA RAMPN5
PI STA. = 973+64.02
Δ = 3° 16' 09" (RT)
D = 1° 02' 49"
T = 156.18
L = 312.28
R = 5,472.84
PC STA. = 972+07.83
PT STA. = 975+20.11
e = 0.022

CURVE DATA RAMPN6
PI STA. = 977+08.76
Δ = 16° 42' 11" (LT)
D = 4° 27' 32"
T = 188.64
L = 374.61
R = 1,285.00
PC STA. = 975+20.11
PT STA. = 978+94.72
e = 0.078

CURVE DATA RAMPN7
PI STA. = 984+79.96
Δ = 9° 47' 53" (RT)
D = 1° 55' 21"
T = 255.47
L = 509.69
R = 2,980.45
PC STA. = 982+24.49
PT STA. = 987+34.18
e = 0.039

RAMP N

CURVE DATA RAMPN1
PI STA. = 937+32.31
Δ = 74° 02' 21" (LT)
D = 2° 36' 16"
T = 1,659.00
L = 2,842.90
R = 2,200.00
PC STA. = 920+73.31
PT STA. = 949+16.21
e = 0.051

CURVE DATA RAMPN2
PI STA. = 959+86.76
Δ = 0° 19' 14" (LT)
D = 0° 28' 42"
T = 33.50
L = 67.00
R = 11,976.00
PC STA. = 959+53.26
PT STA. = 960+20.26
e = NC

CURVE DATA RAMPN3
PI STA. = 965+76.85
Δ = 1° 18' 08" (LT)
D = 2° 53' 11"
T = 22.56
L = 45.11
R = 1,985.00
PC STA. = 965+54.29
PT STA. = 965+99.41
e = 0.055

CURVE DATA RAMPN4
PI STA. = 971+65.51
Δ = 0° 29' 14" (LT)
D = 0° 34' 32"
T = 42.33
L = 84.65
R = 9,955.00
PC STA. = 971+23.18
PT STA. = 972+07.83
e = NC

RAMP P

CURVE DATA RAMPP1
PI STA. = 804+66.95
Δ = 13° 22' 12" (RT)
D = 4° 12' 38"
T = 159.49
L = 317.53
R = 1,360.75
PC STA. = 803+07.46
PT STA. = 806+25.00
e = 0.075

CURVE DATA RAMPP2
PI STA. = 808+43.28
Δ = 16° 46' 23" (LT)
D = 7° 38' 22"
T = 110.57
L = 219.56
R = 750.00
PC STA. = 807+32.71
PT STA. = 809+52.27
e = 0.099

CURVE DATA RAMPP3
PI STA. = 824+99.53
Δ = 12° 15' 46" (RT)
D = 1° 25' 57"
T = 429.70
L = 856.11
R = 4,000.00
PC STA. = 820+69.83
PT STA. = 829+25.94
e = 0.030

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Concept, Feasability and Mobility Study
for the
Poinciana Parkway Extension / I-4 Connector

Alternative 2A
I-4 Interchange at SR 429
Center Alignment

SHEET NO.
CA-15

APPENDIX J

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Pond Sizing Methodology

General Overview

The required pond volume for the proposed improvements is calculated by the following:

$$Total\ Pond\ Volume\ Required = Required\ Treatment\ Volume + Required\ Attenuation\ Volume + Floodplain\ Impact\ Volume$$

The treatment volume includes the first flush runoff volume from the proposed developed site to be retained and treated prior to discharging downstream. The attenuation volume includes the storage of the additional excess runoff caused by the proposed development by minimizing the peak flowrate from the site to mimic pre-development conditions so as not to adversely impact offsite properties. The floodplain impact volume includes the storage between the seasonal high water table and the 100-year event that is impacted due to the proposed development.

The basin area includes the alignment corridor right-of-way, which was divided into several subbasins along floodplain or hydraulic boundaries from the existing topology; proposed roadway profiles were not developed. Interchanges that connect the I-4/Poinciana Parkway Connector Expressway to various side streets were evaluated separately by creating additional subbasins for the interchange outside of the mainline corridor. It is assumed that each subbasin will have one pond, which is sized using the methodology described within the following sections. Evaluation of basin delineation, pond sites, and their potential impacts (with regard to maintenance, constructability, aesthetics, environmental, social, and cultural, etc.) will be conducted within the PD&E phase. All assumptions were based on the best available data from desktop review.

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Within this feasibility effort, it is assumed that each of the pond volume parameters are "stacked" instead of taking credit for any possible volume overlapping; this provides a conservative estimate which can be further evaluated within the PD&E phase. The methodology used to determine these parameters for calculating pond volumes are described within the following sections.

Treatment Volume

For the purposes of the feasibility study, all proposed ponds are assumed to be wet. The required treatment volume for wet ponds is larger than dry ponds and the water tables are generally shallow within the project area. It assumed that evaluation of pond types will be accomplished during the PD&E phase.

The SFWMD required treatment volume criterion for a wet detention pond is the greatest volume of either 1-inch over the basin or 2.5-inches over the new impervious area. Part of the project area is located within the Reedy Creek Mitigation Bank drainage area, and the entire project is located with Lake Okeechobee BMAP, both of which require an additional 50% of additional treatment volume.

$$Treatment\ Volume = Greatest\ of\ 1"\ over\ Basin\ Area\ or\ 2.5"\ over\ New\ Impervious\ Area$$

$$BMAP\ Treatment\ Volume = 1.5 * Treatment\ Volume$$

Existing roadway impervious areas in the areas of the proposed alternative alignments were digitized via aerial imagery. The I-4 Beyond the Ultimate (BTU) roadway design files were obtained and the BTU proposed improvements were digitized and assumed to be the existing condition for this feasibility study. The proposed I-4/Poinciana Parkway Connector roadway impervious area along the mainline and the interchanges with I-4, Osceola Polk County Line Road, and US 17/92 were digitized from the feasibility roadway design files. The impervious area along the mainline includes a fully paved median resulting in a total impervious width of 156-feet. The impervious area for the interchange ramps assumed shoulder widths of 2 foot inside and 4 foot outside for single lane ramps, and 4 foot inside and 10 foot outside for two lane ramps where barrier walls were not shown.

CR 532 has existing stormwater management facilities that provide treatment and attenuation along CR 532 from I-4 to Old Lake Wilson Road (CR 545) under SFWMD ERP Application No. 051118-5 and 020114-21. There are also various existing stormwater management facilities treating and attenuating commercial and residential properties proposed to be impacted by each alignment, such as Legacy Callawalk under SWFWMD ERP Application No. 31438-6, Lake Wilson Preserve under SWFWMD Permit No. 22488, Tanglewood under SWFWMD Permit No. 27257-4, or Sandy Ridge under SWFWMD Permit No. 23879. Neither the impact to the existing stormwater ponds nor the available capacity in these ponds was evaluated within this effort and is expected to be evaluated within the PD&E phase.

Attenuation Volume

Criteria set forth by SFWMD, SWFWMD, and Osceola County was reviewed to determine the governing criteria from these agencies. It was determined that the controlling criteria for attenuation to use for this study is the SFWMD requirement due to most of the project being within SFWMD and the criteria being more stringent. The criteria utilized is that the post-development peak flow rate is not to exceed the pre-development peak flow rate for the 25-yr/72-hr storm event. It was determined that the I-4/Poinciana Parkway Connector Expressway design storm would require retaining volume from 10.5-inches of rainfall (SFWMD Isohyetal Maps, ERP HB Appendix C). Since no routing is being performed during this feasibility phase, the attenuation volume will be based on the pre-post difference in volume generation, not peak discharge rate.

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The SCS Runoff Curve Number (CN) Method was used to determine the total runoff generation for the pre-development and post-development conditions. The SFWMD land cover and land use, dated 2008/09, was modified to include existing roadway impervious area and I-4 Beyond the Ultimate design files within the corridor basins to determine the CN for the pre-development condition. The I-4/Poinciana Parkway Connector Expressway alternative alignments were digitized, as described above, to determine the difference in land use along the proposed corridors.

$$Runoff = \frac{(P - 0.2S)^2}{(P + 0.8S)}$$

$$S = \frac{1000}{CN} - 10$$

$$Volume = Runoff * Basin\ Area$$

$$Attenuation\ Volume\ =\ Post\ Development\ Volume\ -\ Pre\ Development\ Volume$$

For basins that have a lower CN in the post-development condition, (e.g. wetland land coverage is converted to impervious area and open – good land uses), the attenuation volume is assumed zero and no credit is provided for generating a lower runoff volume. See **Table 1** for the conversion between the Florida Land Use and Cover Classification System (FLUCCS) within the SFWMD land use file to the CN land use categories to determine the attenuation volume.

TABLE 1 - CONVERSION OF FLUCCS LAND USE DESCRIPTIONS TO SCS RUNOFF CURVE NUMBER CATEGORY

FLUCCS	SCS Runoff CN (TR-55)
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Floodplain Evaluation

For the floodplain analysis, potential impacts to the Federal Emergency Management Agency (FEMA) mapped floodplains as part of the Osceola County June 2013 FIS and Polk County December 2016 FIS were reviewed and quantified. Flood zones classified as Zone X, Zone AE, and Zone A are present along the corridor and only these FEMA-approved floodplain areas were reviewed and quantified for impacts. Natural historic depressions or wetlands were not evaluated for floodplain impacts as part of this feasibility study, but may require further evaluation in future phases.

Zone X is an area of minimal flood hazard and was not evaluated for floodplain impacts. There is one Zone D floodplain within the project area, throughout Reedy Creek and adjacent to the Sabal Trail underground utility line. According to FEMA, a Zone D designation is used where there are possible but undetermined flood hazards, as no analysis of flood hazards has been conducted. Zone AE has an

established Base Flood Elevation (BFE) that has been approved by FEMA. Zone A has an identified area of inundation resulting from the 100-year storm event, but no BFE has been established. To assess the floodplain impacts for each corridor, an approximate BFE and Seasonal High Water Table (SHWT) for the FEMA floodplain shapes was established. These elevations were estimated using the best available data and considered the following sources in **Table 2**. No site-specific information (i.e. geotechnical testing, wetland survey, topographic survey, etc.) was obtained for these estimates. No hydrologic/hydraulic modeling was performed. Some of the information reviewed utilized the NGVD 1929 vertical datum; this information was converted to the NAVD 1988 vertical datum using Corpscon v6 as follows: 0.00 ft NGVD = -0.91 ft NAVD.

TABLE 2 - DESCRIPTION OF DATA REVIEWED IN PRELIMINARY ANALYSIS

Data	Source	Relevance
DEM or Contours developed from source	2016 LiDAR data from Osceola County in 3-ft grid format; 2005 Polk County LiDAR in 5-ft grid format	High
Infrared aerial imagery	2004 Osceola County	High
Historic aerial imagery	Google Earth (dating back to 1995) and UF Historical Imagery Library (dating back to 1959)	High
Geotechnical borings	SWFWMD & SFWMD ERP Applications	High
Wet detention ponds normal water elevations	SWFWMD & SFWMD ERP Applications	High
Wetland seasonal high water tables	SWFWMD & SFWMD ERP Applications	High
Canal monitoring stations ○ Stage ○ Flow	SFWMD Arc Hydro database	High
Soil coverage	NRCS coverage provided by USDA	Medium – Depth to water table information
Depth to Surficial Aquifer Water Table	FDEP Florida Aquifer Vulnerability Assessment (FAVA)	Low – Information available is very coarse (6,000 feet x 6000 feet grid)
USGS 7.5-Minute Quad Maps with 5-ft contours (ft, NGVD29)	USGS Quad Maps: Davenport and Intercession City	Low (dated 1980 & 2015)
Land use land coverage	SFWMD	Low – Ensure floodplain is still applicable

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Base Flood Elevation (BFE)

The BFE can vary across the extent of the floodplain based on local topography, the amount of vegetative cover, presence of urbanization, water control infrastructure, and inflows to the floodplain. To estimate the BFE, the factors local to the area of potential impacts was weighted heavier. If the BFE

was estimated from a provided source (i.e. Zone AE, permit data, etc.), the elevation was rounded to the nearest 0.1 foot; if the elevation was estimated from the DEM, it was rounded to the nearest half foot. The following ranking was applied in order to estimate the BFE:

1. FEMA established BFE (i.e. Zone AE or LOMR)
2. Modeled BFE as part of an Environmental Resource Permit (ERP) application
3. Floodplain compensation pond information within an ERP application
4. Stage data from regulated lakes and canals (Using HEC SSP to estimate the 100-year stage)
5. Comparison of infrared and historic aerial images to the DEM to estimate high water elevations in previous years (i.e. inspection of tree line migration, etc.)
6. USGS 7.5 Minute Quad Maps with 5-ft contours (NGVD29)
7. Comparison of FEMA-mapped floodplain shape and DEM or contours derived from DEM

Seasonal high water table (SHWT)

The seasonal high water table (SHWT) is the elevation to which the water table can be expected to rise due to a normal wet season. The water table surface is generally parallel to the natural ground surface in relatively flat areas with uniform soil type. Approximately 65% of the project area for the I-4/Poinciana Parkway Connector consists of Type A/D soils. These soils are poorly drained when wet and have water table depths typically between 3.5 foot below ground and 2 feet above ground within the project area. The remaining soils within the project area are Type A (30%), B/D (2%), and C/D (2%).

To estimate the SHWT, the factors local to the area of potential impacts was weighted heavier. If the SHWT is estimated from a provided source (i.e. stage data, permit data, etc.), the elevation is estimated to the nearest 0.1 foot; if the elevation is estimated from the DEM, it is estimated to the nearest half foot. The following ranking was applied in order to estimate the SHWT:

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1. The average annual wet season stage in the lakes and canals with regulated flood control where stage data is available. (Wet season is defined as June through October.)
2. Surveyed SHWT provided in an ERP application.
3. Wet detention pond information in an ERP application; Note it is understood that the normal water elevation is not equivalent to the SHWT, but it can serve as a reliable approximation.
4. Tailwater information from an ERP application if tailwater (or initial stage of tailwater) is identified as being representative of the SHWT.
5. Comparison of adjacent wetland shapes to the DEM to estimate wetland SHWT.
6. Comparison of infrared and historic aerial images to the DEM to estimate water elevations in previous years (i.e. visible standing water, etc.).
7. NRCS soils depth to water table applied over the DEM.

In one instance, an unnamed lake was given a waterbody elevation within the GIS layer NHD (National Hydrograhy Dataset) Waterbody, published by USGS. This elevation was used as the SHWT of the encompassing floodplain boundary (ID 24).

Assessing Floodplain Impacts

For the conceptual alignments, the floodplain impact volume was calculated by the following:

$$Floodplain\ Impact\ Volume = Floodplain\ Depth\ x\ Inundation\ Area$$

The floodplain depth is the difference between the BFE and the ground surface topography or the seasonal high water table (SHWT), whichever is higher. The minimum ground surface elevation within the 100-year inundation was used for the floodplain depth if the SHWT was below ground.

The Inundation Area is the average of the area of the BFE and SHWT (area of zero if below ground) plotted on the DEM within the right-of-way (R/W) of the conceptual corridors. Each FEMA floodplain shape was given a buffered boundary for creating the inundation plot. The inundation plot was performed because the 100-year FEMA floodplain boundary is coarse in many areas and may not encompass the actual low points as captured within the 2016 Osceola LiDAR and 2005 Polk LiDAR. The I-4 existing right-of-way was excluded from the floodplain impact analysis; it was assumed that I-4 Beyond the Ultimate will provide compensation for any floodplain impacts that occur within the existing right-of-way. In the instance of a waterbody that was not inundated due to LiDAR gaps within the DEM, additional manual digitization was performed to connect the SHWL & BFE inundation shapes along that waterbody (Floodplain ID 38). This was not performed on any permitted ponds that have been developed after the LiDAR was flown; it was assumed that these additional impacts will be further evaluated within the PD&E phase.

The conceptual corridors analyzed for floodplain impacts are as follows: CR 532 Alt. 1A, CR 532 Alt. 2, CR 532 Alt. 3, SR 429 Alt. 3, SR 429 Alt. 4, 2A-1, 2A-2, 2A-3, 2A-4, 2A-5, 3-2N, 3-2S, 3-5N, 3-5S, 3A-3, and 3A-5. These corridors will construct Poinciana Parkway to the ultimate condition and extend Poinciana Parkway to I-4. Poinciana Parkway was constructed in 2016 for an interim condition with primary and secondary drainage infrastructure designed for the ultimate configuration. According to SFWMD Permit Application 141010-12 (Segments 1, 2, & 3), floodplain encroachment within Poinciana Parkway has been compensated for within proposed stormwater management facilities and ditches; therefore, no additional floodplain impacts are anticipated throughout the Poinciana Parkway corridor. The floodplain impacts within the existing Poinciana Parkway corridor were removed by intersecting the inundation plots with the estimated (from 2016 parcel lines) Poinciana Parkway R/W. All corridors utilize a 324-foot R/W.

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Floodplain impacts were not considered where the 100-year inundation shape within the corridor was less than 0.5 acres. Impacts were also not considered where a floodplain was plotted within the corridor which did not represent a FEMA floodplain. The floodplain impact assessment assumes all major hydraulic crossings will utilize culverts or box culverts rather than bridges.

All corridors except 2A-1 impact the Reedy Creek Mitigation Bank and floodplain, a large wetland slough that collects stormwater runoff from the southwestern region of the greater Orlando area. Reedy Creek flows south towards Lakes Marion and Hatchineha. The roadway corridors cross Reedy Creek where the established FEMA BFE is elevation 66 and the floodplain is approximately 10,000 feet wide. The floodplain is very flat in this area and remains at BFE 66 until nearly 5 miles south of Poinciana Parkway.

Pond Sizing

As mentioned, it is assumed that all proposed ponds within the I-4/Poinciana Parkway Connector Expressway will be wet detention facilities. From review of nearby CFX Contracts 450, 451, 417-304, 417-543, and 417-454, it was determined that the wet detention available storage for the treatment volume, attenuation volume, and floodplain impact volume is a 3-foot design depth above the normal water level (NWL). The assumed pond geometry is a square shape, 1:4 side slopes, 1-foot of freeboard, and 20% additional area for the maintenance berm and landscaping (See **Plate 1**), which resulted in the following equations to calculate the pond sizes:

$$Pond\ Length\ at\ Design\ Depth = \sqrt{\frac{Total\ Pond\ Volume\ Required * 43560\frac{ft^2}{ac}}{Design\ Depth}} + \left(\frac{Design\ Depth}{2} * (2 * 4)\right)$$

$$Required\ Pond\ Area = 1.2 * \frac{\left(Pond\ Length\ at\ Design\ Depth + \left(Freeboard\ Height * (2 * 4)\right)\right)^2}{43560\frac{ft^2}{ac}}$$

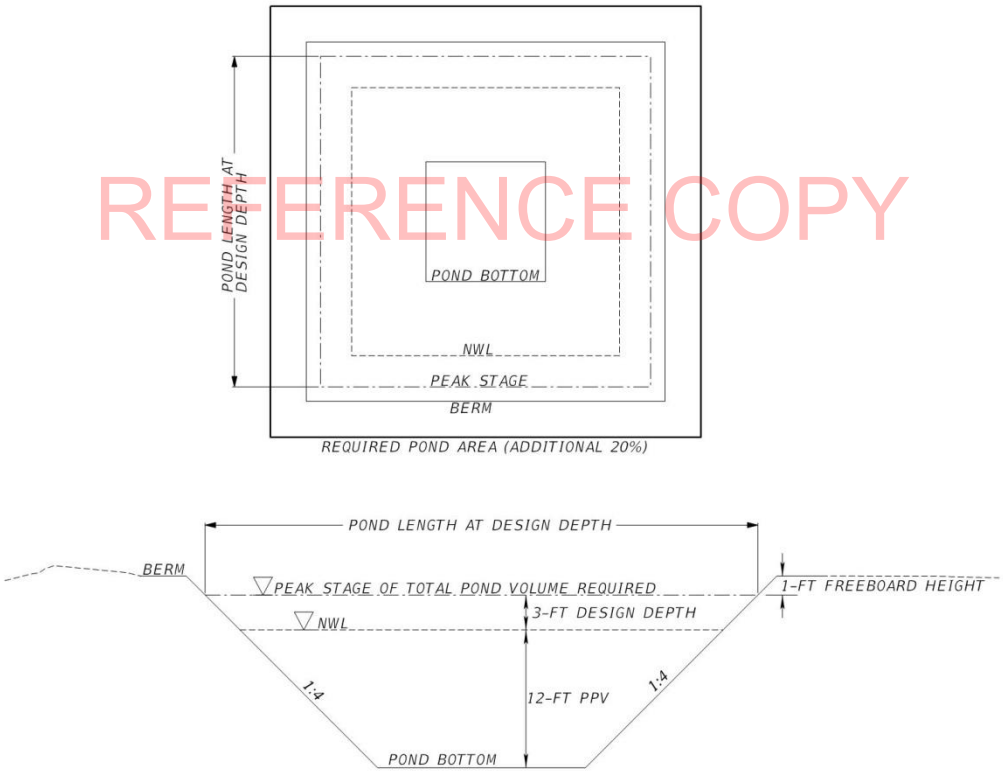

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PLATE 1 - POND SIZING TYPICAL SECTION (NOT TO SCALE)

The interchange options were considered outside of the mainline pond sizing, by creating interchange basins. It was assumed that resulting infield areas would be used as stormwater facilities for the interchange. The available infield pond area includes the infield area 50 feet away from the proposed impervious area from the ramps, side streets, and mainline. Length

Pond Quantities

For comparison purposes, sodding and excavation quantities were estimated for the wet detention facilities. The presumed pond geometry includes a pond depth of 12-feet below the NWL for the permanent pool volume (PPV), continuing at 1:4 side slopes. It is assumed the total volume to be excavated will include the required pond volume and the PPV of the pond and the ponds are to be sodded above the NWL, which are determined with the following calculations:

$$Pond\ Area\ at\ NWL = \frac{\left(Pond\ Length\ at\ Design\ Depth - \left(Design\ Depth * (2 * 4)\right)\right)^2}{43560\frac{ft^2}{ac}}$$

$$Pond\ Bottom\ Area = \frac{\left(Pond\ Length\ at\ Design\ Depth - \left((Design\ Depth + 12) * (2 * 4)\right)\right)^2}{43560\frac{ft^2}{ac}}$$

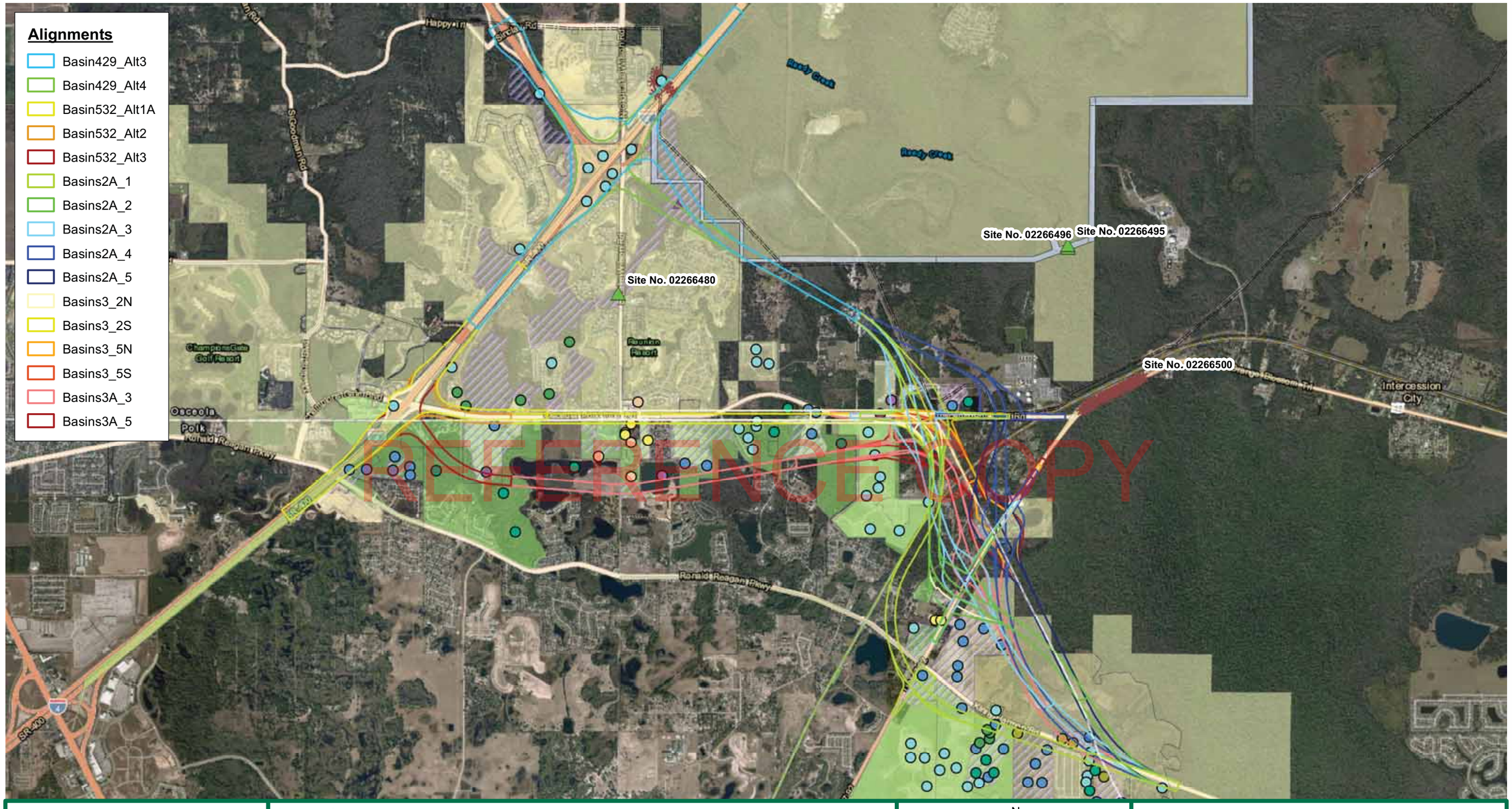
$$PPV = \frac{Pond\ Area\ at\ NWL + Pond\ Bottom\ Area}{2} * 12$$

$$Total\ Excavation\ Volume = \frac{(Total\ Pond\ Volume\ Required + PPV) * 43560\frac{ft^2}{ac}}{27\frac{ft^3}{yd^3}}$$

$$Total\ Sodding\ Area = \frac{(Required\ Pond\ Area - Pond\ Area\ at\ NWL) * 43560\frac{ft^2}{ac}}{9\frac{ft^2}{yd^2}}$$

REFERENCE COPY

Fill associated with freeboard and berm area was not included.



REFERENCE COPY

The Balmoral Group
165 Lincoln Avenue
Winter Park, Florida 32789

Legend

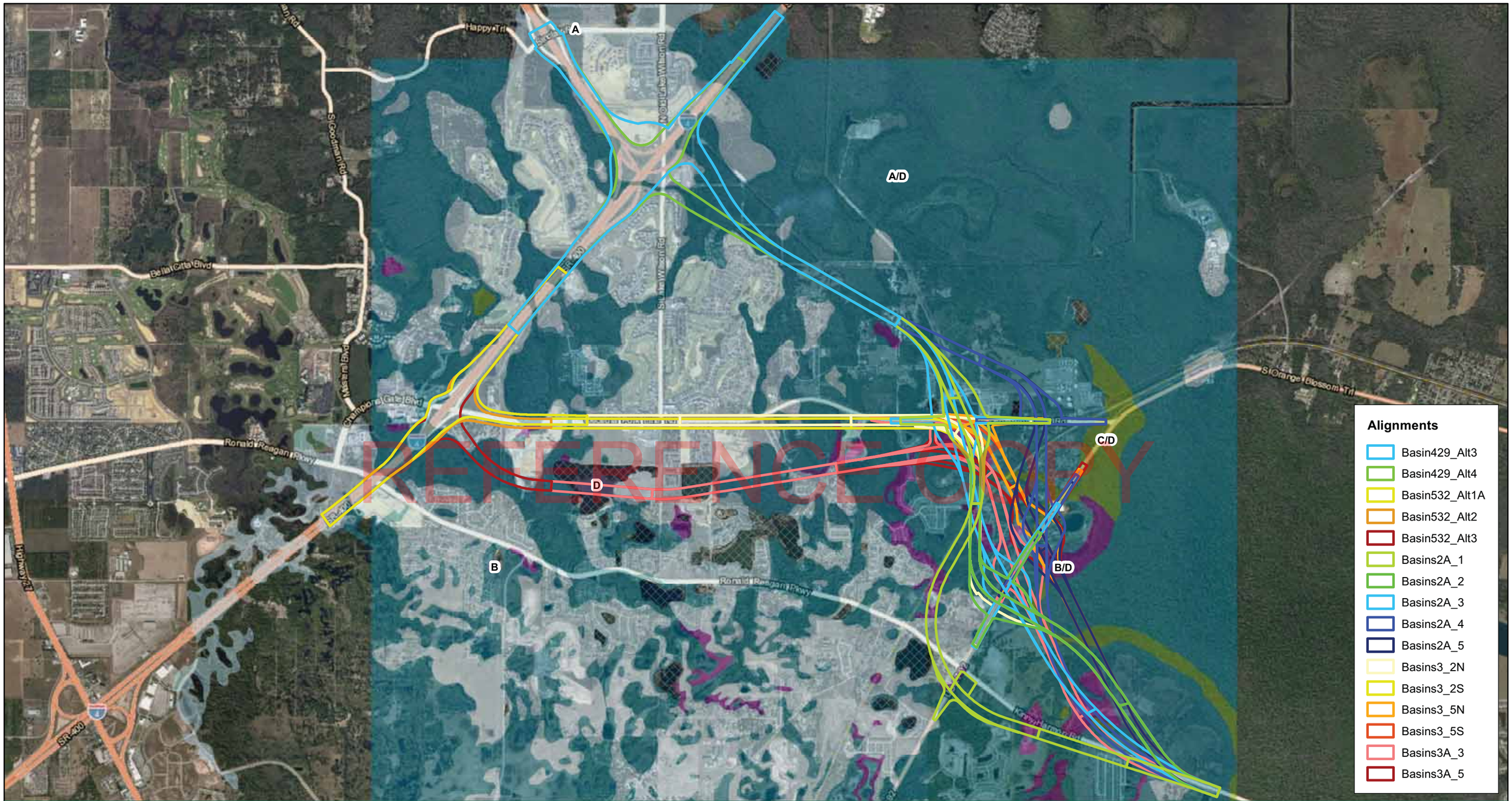
- Borrow Pit
- Dry Detention Pond
- Dry Detention Swale
- Dry Retention Pond
- Wet Detention Pond
- Wetland
- Future Dry Detention Pond
- Future Dry Retention Pond
- Future Wet Detention Pond
- FDOT Soil Borings Database
- USGS Gage Sites
- Sabal Trail Transmission Line
- Reedy Creek Improvement District
- Planned Development TW Info
- Planned Development
- SWFWMD Permits Reviewed
- SFWMD Permits Reviewed

N
W E
S

0 0.5 1
Miles

Figure A-1
Data Collection - Permit Coverage

Concept, Feasibility, & Mobility Study
Poinciana Pkwy Extension/I-4 Connector Expressway
Osceola & Polk County, FL



REFERENCE COPY

The Balmoral Group
165 Lincoln Avenue
Winter Park, Florida 32789

Legend

Hydrologic Soil Group

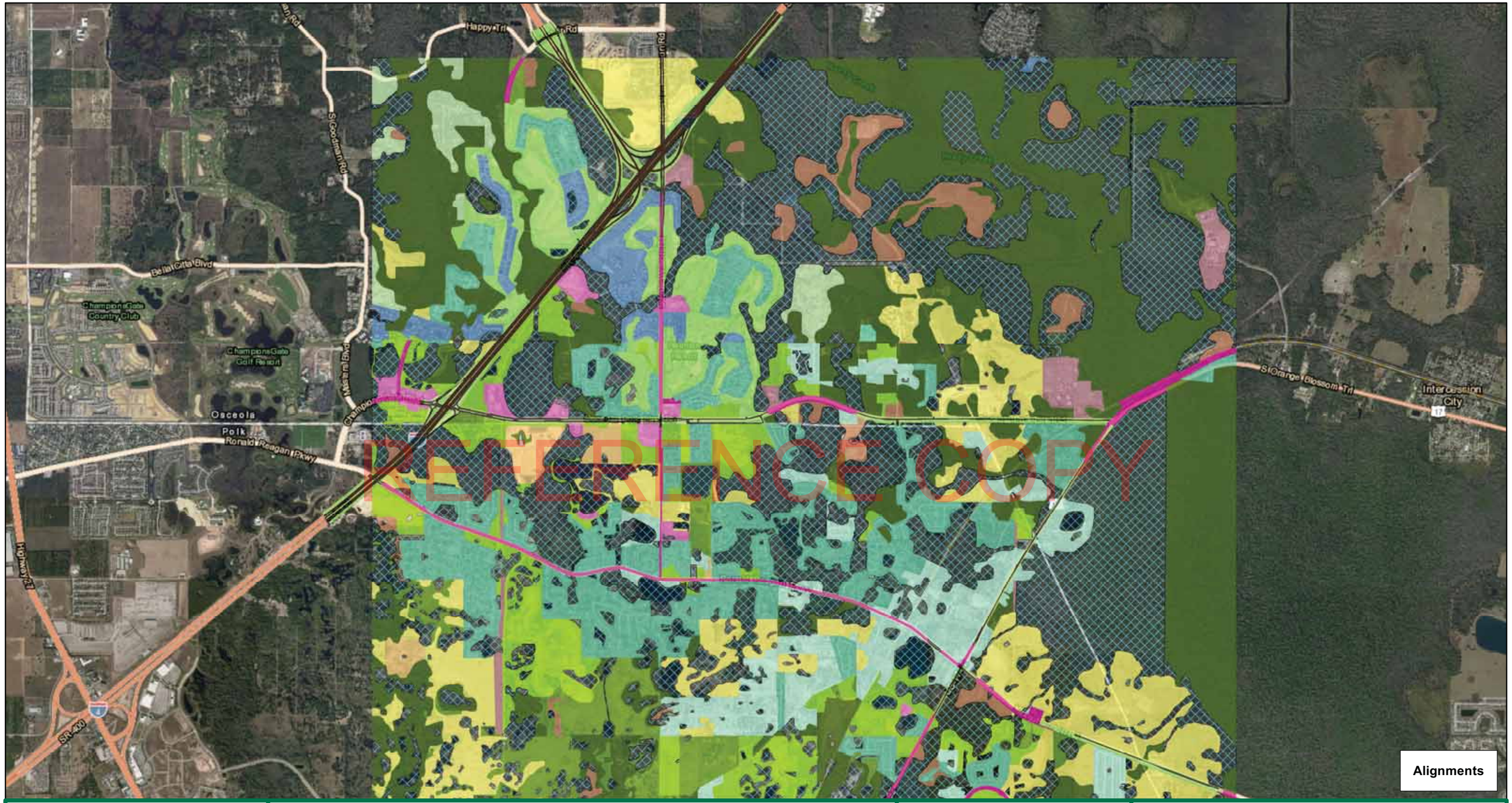
- Water
- A
- A/D
- B
- B/D
- C/D
- D

N
W E
S

0 0.5 1
Miles

Figure A-2 : Data Collection
NRCS Soils Coverage

Concept, Feasibility, & Mobility Study
Poinciana Pkwy Extension/I-4
Connector Expressway
Osceola & Polk County, FL



REFERENCE COPY

The Balmoral Group
165 Lincoln Avenue
Winter Park, Florida 32789

Legend

- Brush - Good
- Commercial and business
- Impervious
- Industrial
- Open - Fair
- Open - Good
- Open - Poor
- Pasture - Good
- Residential - 2 acres
- Residential - 1 acre
- Residential - 1/2 acre
- Residential - 1/4 acre
- Residential - 1/8 acre
- Row Crops - Straight Row
- Streets and Roads - Paved; Including R/W
- Water
- Woods - Good

N
W E
S

0 0.5 1
Miles

Figure A-3
Existing Land Cover/Land Use

Concept, Feasibility, & Mobility Study
Poinciana Pkwy Extension/I-4 Connector Expressway
Osceola & Polk County, FL

REFERENCE COPY

The Balmoral Group
165 Lincoln Avenue
Winter Park, Florida 32789

Legend

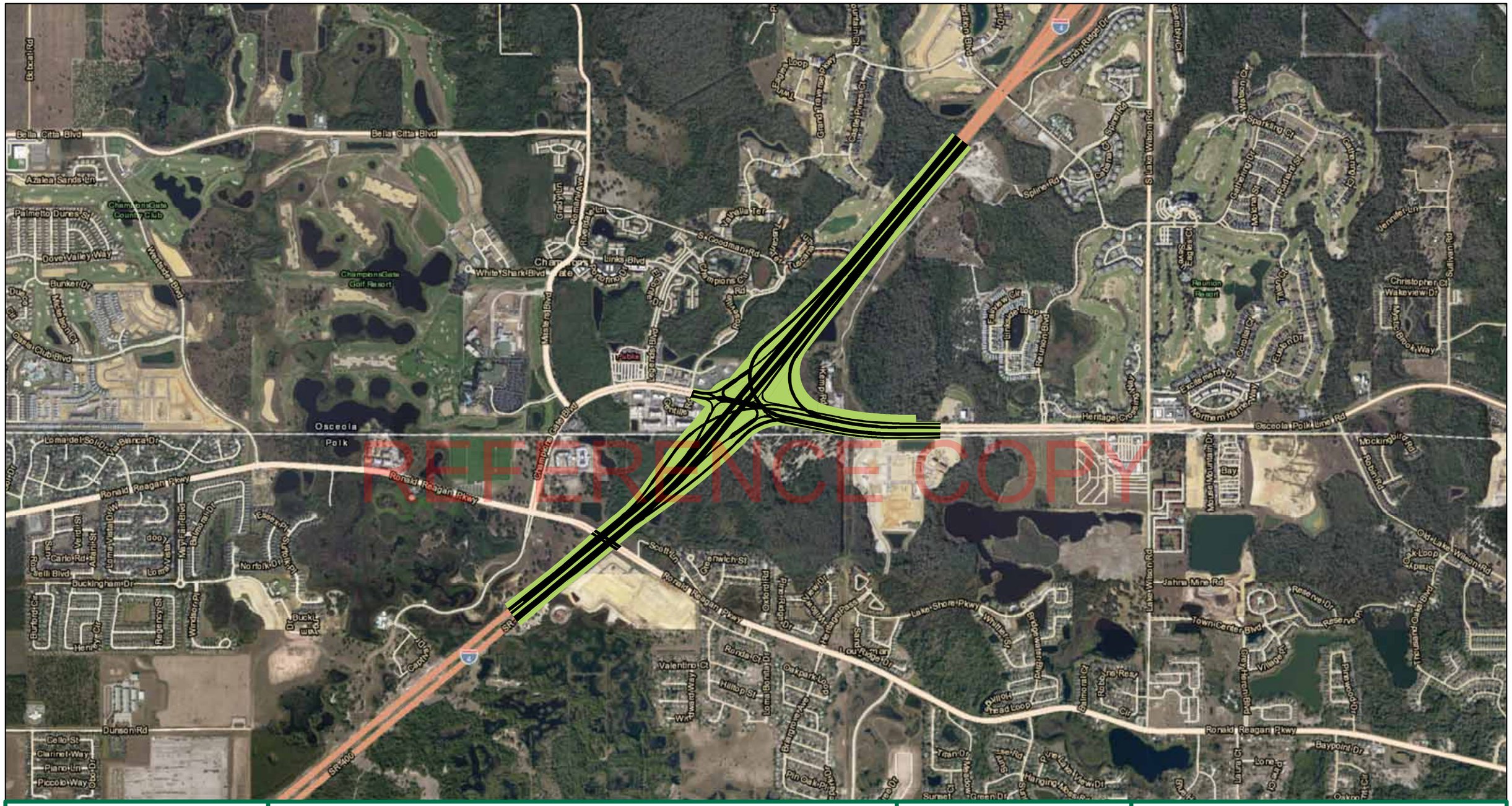
- Impervious
- Open - Good

N
W E
S

0 0.25 0.5
Miles

Figure A-4 : CR 532 Alt 1A Proposed Land Cover/Land Use

Concept, Feasibility, & Mobility Study
Poinciana Pkwy Extension/I-4
Connector Expressway
Osceola & Polk County, FL



REFERENCE COPY

The Balmoral Group
165 Lincoln Avenue
Winter Park, Florida 32789

Legend

- Impervious
- Open - Good

N
W E
S

0 0.25 0.5
Miles

Figure A-4 : CR 532 Alt 2
Proposed Land Cover/Land Use

Concept, Feasibility, & Mobility Study
Poinciana Pkwy Extension/I-4
Connector Expressway
Osceola & Polk County, FL

REFERENCE COPY

The Balmoral Group
165 Lincoln Avenue
Winter Park, Florida 32789

Legend

- Impervious
- Open - Good

N
W E
S

0 0.25 0.5
Miles

Figure A-4 : CR 532 Alt 3
Proposed Land Cover/Land Use

Concept, Feasibility, & Mobility Study
Poinciana Pkwy Extension/I-4
Connector Expressway
Osceola & Polk County, FL

REFERENCE COPY

The Balmoral Group
165 Lincoln Avenue
Winter Park, Florida 32789

Legend

- Impervious
- Open - Good
- Pasture - Good
- Residential - 1/8 acre
- Water
- Woods - Good

N
W E
S

0 0.25 0.5
Miles

Figure A-4 : SR 429 Alt 3
Proposed Land Cover/Land Use

Concept, Feasibility, & Mobility Study
Poinciana Pkwy Extension/I-4
Connector Expressway
Osceola & Polk County, FL

REFERENCE COPY

The Balmoral Group
165 Lincoln Avenue
Winter Park, Florida 32789

Legend

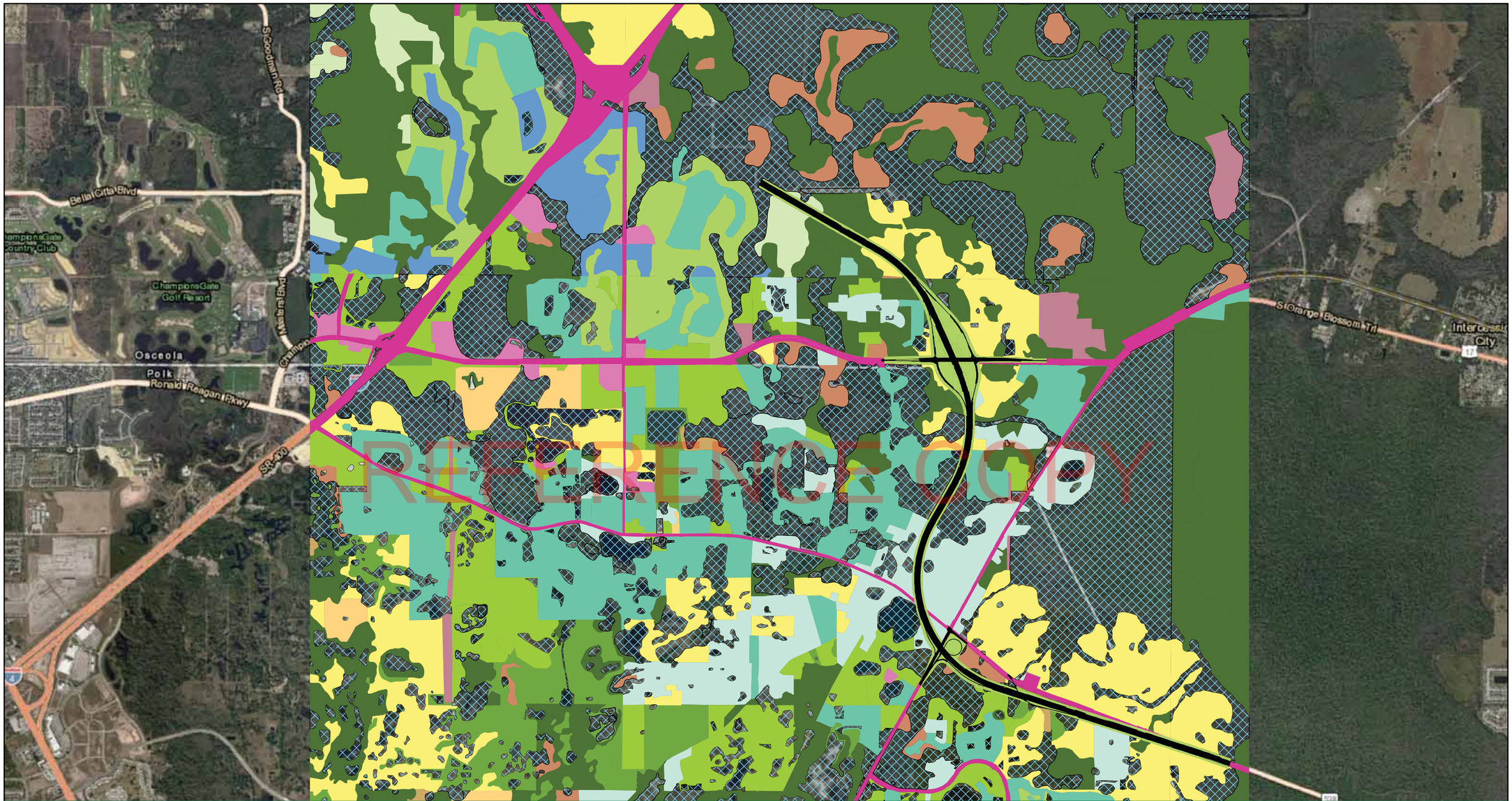
- Brush - Good
- Impervious
- Open - Good
- Residential - 1/8 acre
- Water
- Woods - Good

N
W E
S

0 0.25 0.5
Miles

Figure A-4 : SR 429 Alt 4
Proposed Land Cover/Land Use

Concept, Feasibility, & Mobility Study
Poinciana Pkwy Extension/I-4
Connector Expressway
Osceola & Polk County, FL



The Balmoral Group
165 Lincoln Avenue
Winter Park, Florida 32789

Legend

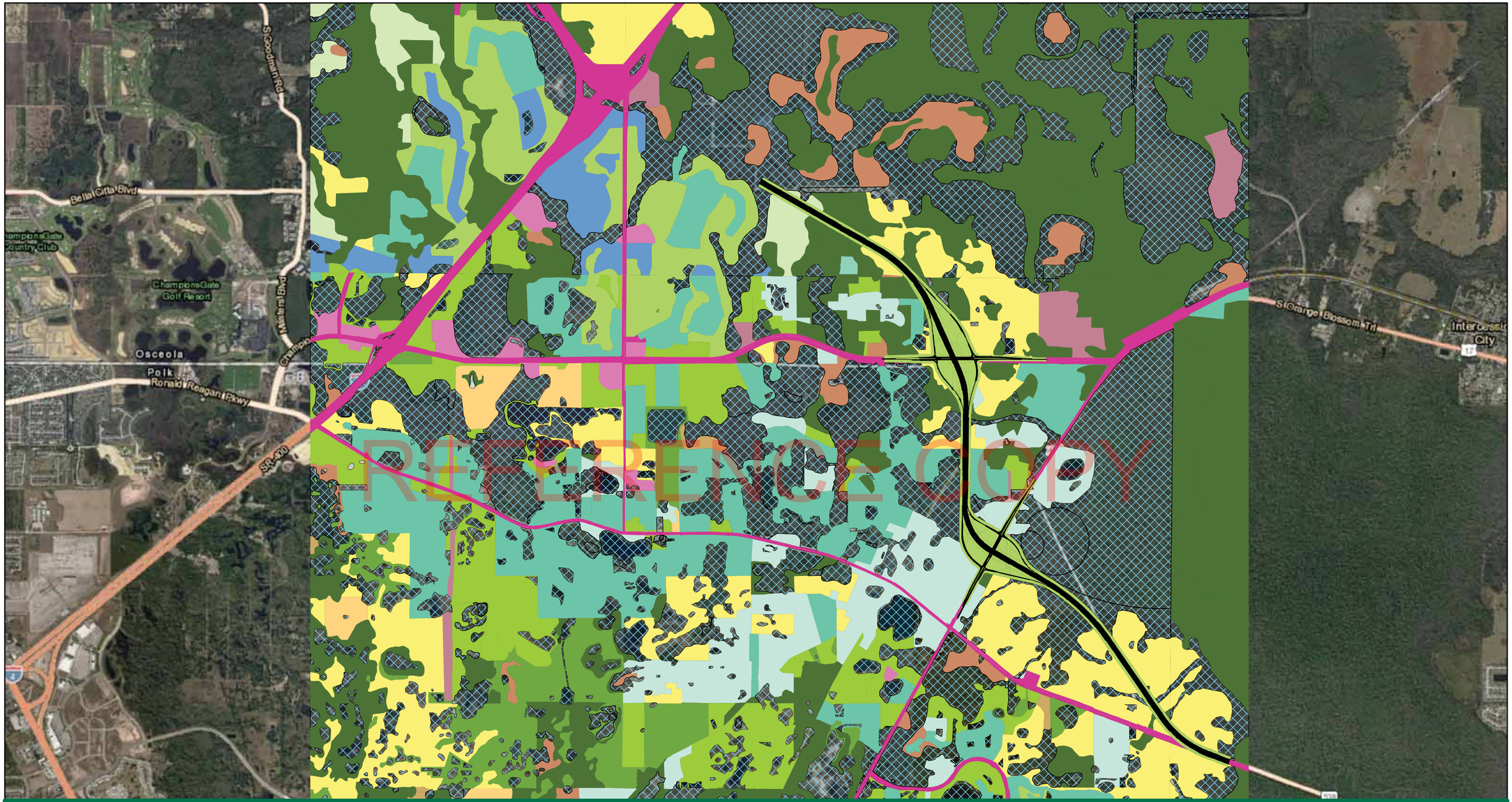
- Brush - Good
- Commercial and business
- Impervious
- Industrial
- Open - Fair
- Open - Good
- Open - Poor
- Pasture - Good
- Range - Good
- Residential - 2 acres
- Residential - 1 acre
- Residential - 1/2 acre
- Residential - 1/4 acre
- Residential - 1/8 acre
- Row Crops - Straight Row
- Streets and Roads - Paved; Including R/W
- Water
- Woods - Good

N
W E
S

0 0.5 1
Miles

Figure A-4 : Alignment 2A-1 Proposed Land Cover/Land Use

Concept, Feasibility, & Mobility Study
Poinciana Pkwy Extension/I-4 Connector Expressway
Osceola & Polk County, FL



The Balmoral Group

165 Lincoln Avenue
Winter Park, Florida 32789

Legend

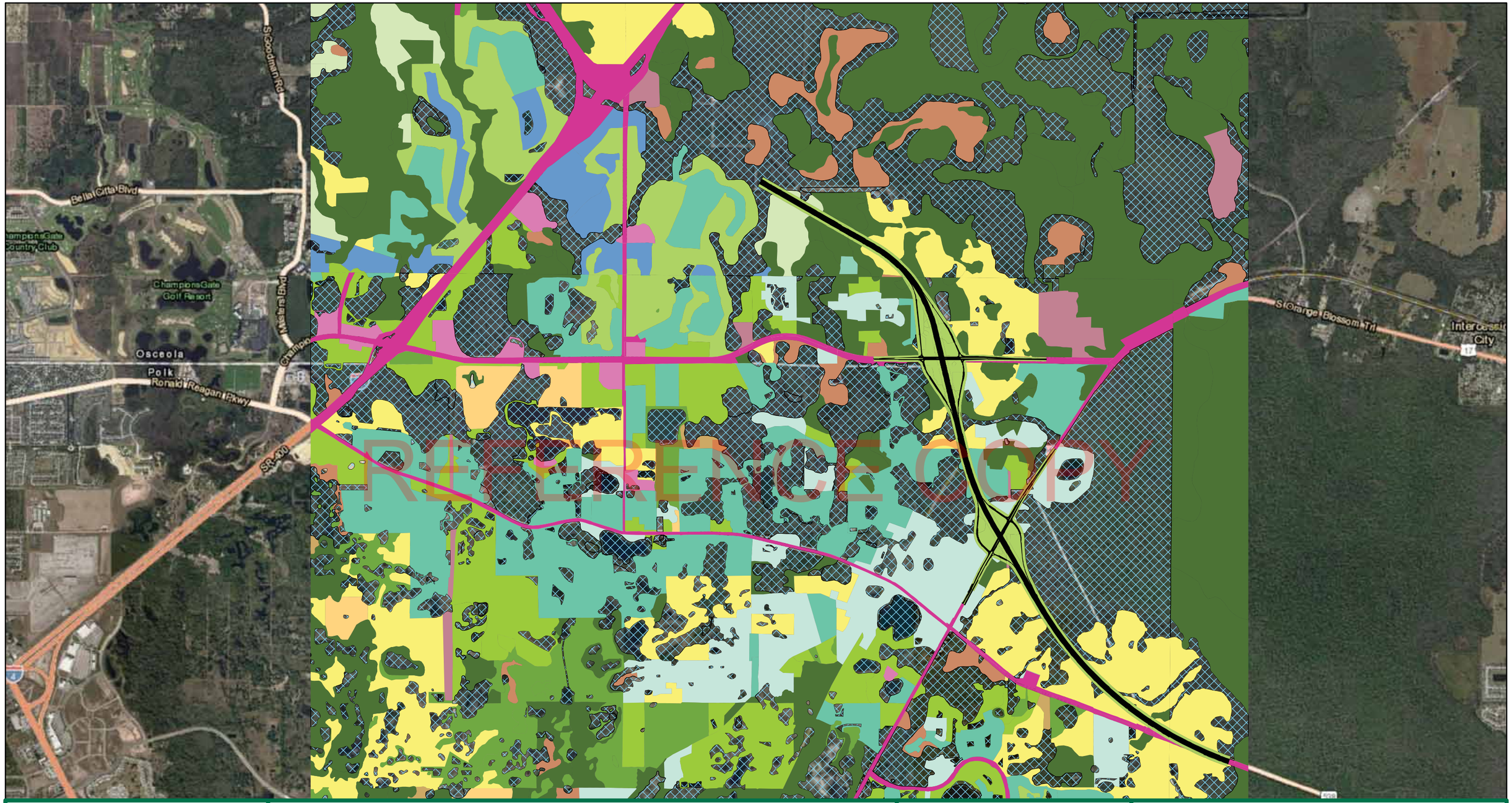
- Brush - Good
- Commercial and business
- Impervious
- Industrial
- Open - Fair
- Open - Good
- Open - Poor
- Pasture - Good
- Range - Good
- Residential - 2 acres
- Residential - 1 acre
- Residential - 1/2 acre
- Residential - 1/4 acre
- Residential - 1/8 acre
- Row Crops - Straight Row
- Streets and Roads - Paved; Including R/W
- Water
- Woods - Good

N
W E
S

0 0.5 1
Miles

Figure A-4 : Alignment 2A-2
Proposed Land Cover/Land Use

Concept, Feasibility, & Mobility Study
Poinciana Pkwy Extension/I-4 Connector Expressway
Osceola & Polk County, FL



The Balmoral Group

165 Lincoln Avenue
Winter Park, Florida 32789

Legend

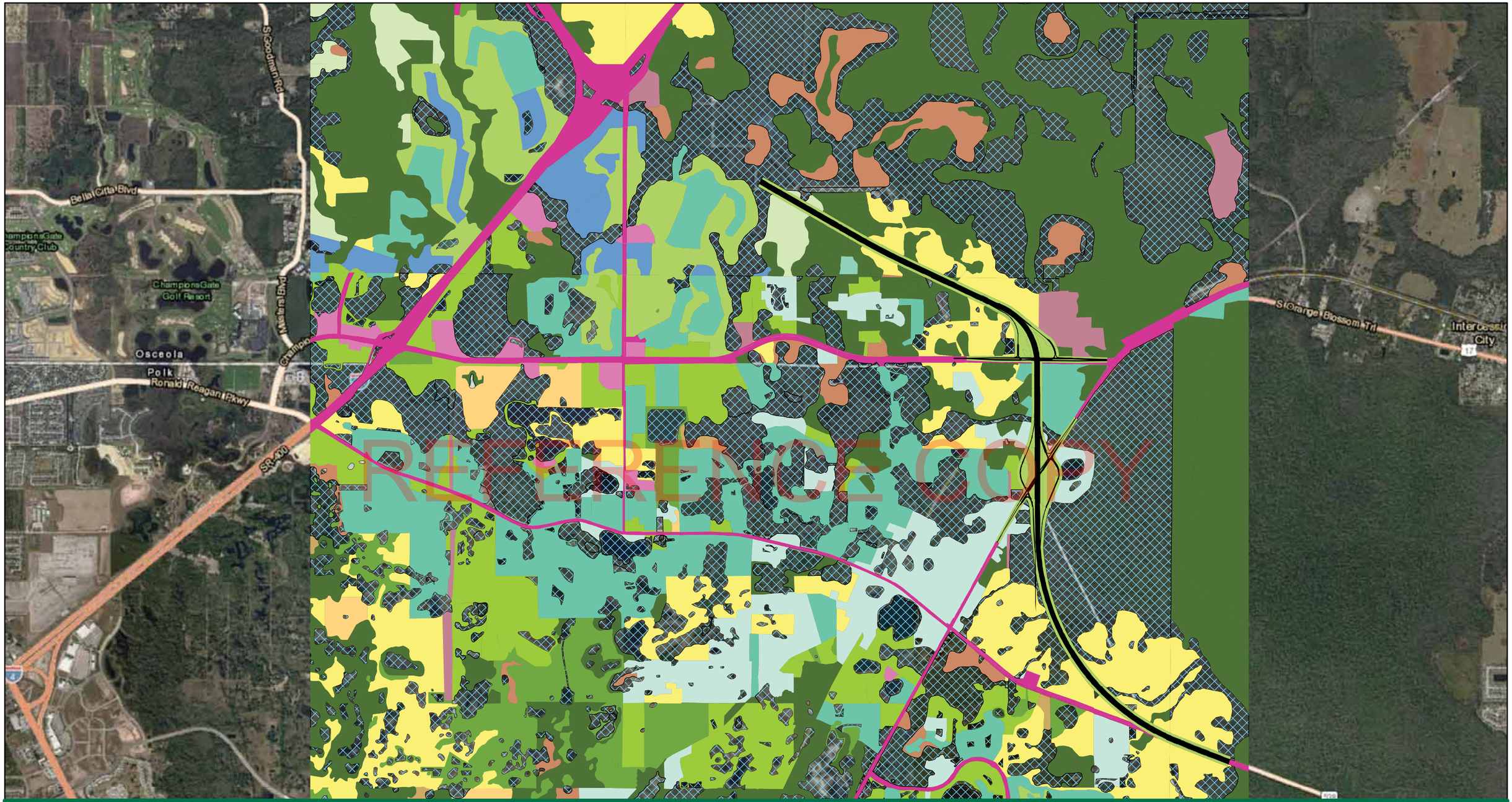
- Brush - Good
- Commercial and business
- Impervious
- Industrial
- Open - Fair
- Open - Good
- Open - Poor
- Pasture - Good
- Range - Good
- Residential - 2 acres
- Residential - 1 acre
- Residential - 1/2 acre
- Residential - 1/4 acre
- Residential - 1/8 acre
- Row Crops - Straight Row
- Streets and Roads - Paved; Including R/W
- Water
- Woods - Good

N
W E
S

0 0.5 1
Miles

Figure A-4 : Alignment 2A-3
Proposed Land Cover/Land Use

Concept, Feasibility, & Mobility Study
Poinciana Pkwy Extension/I-4 Connector Expressway
Osceola & Polk County, FL



The Balmoral Group
165 Lincoln Avenue
Winter Park, Florida 32789

Legend

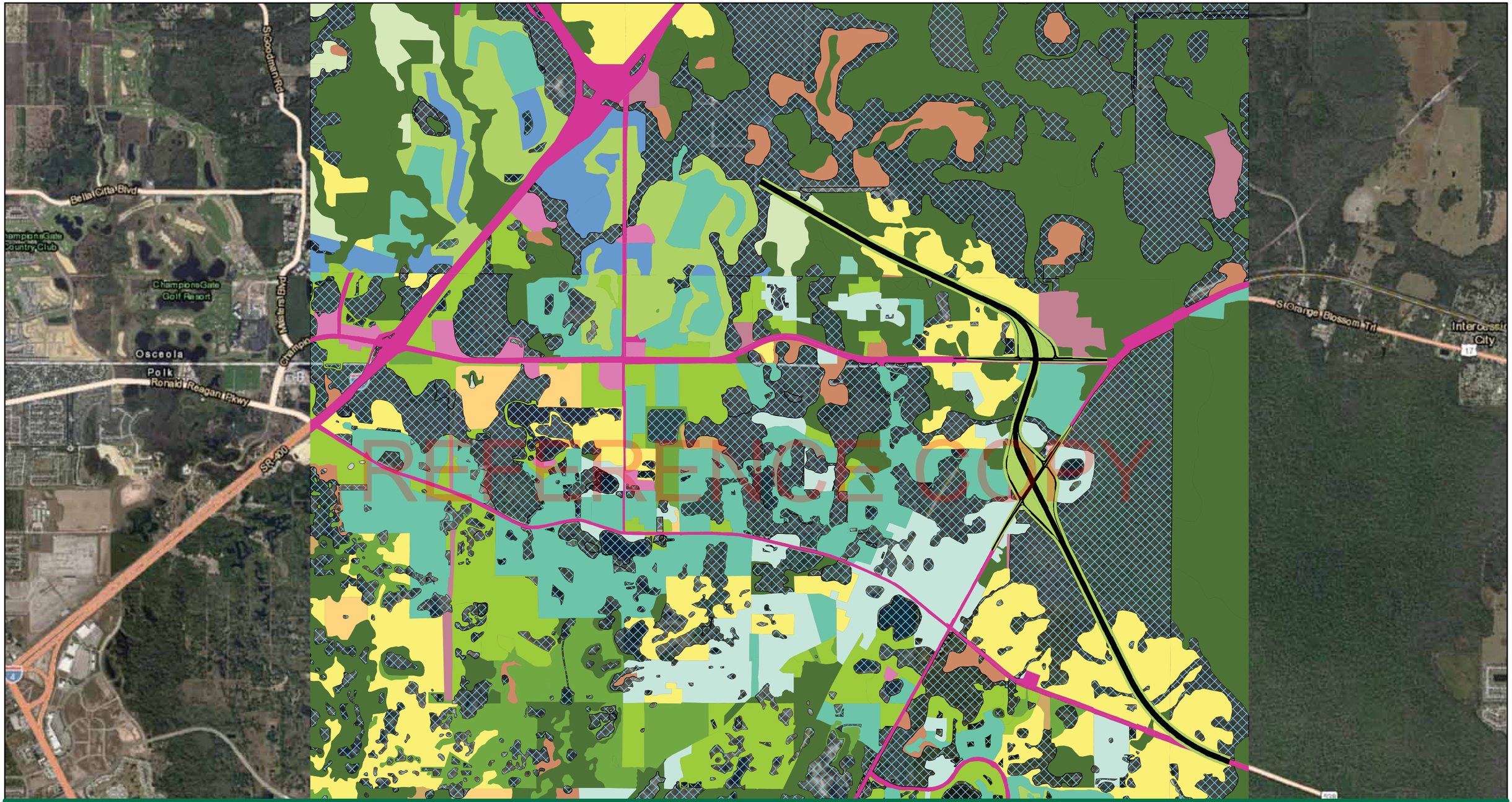
- Brush - Good
- Commercial and business
- Impervious
- Industrial
- Open - Fair
- Open - Good
- Open - Poor
- Pasture - Good
- Range - Good
- Residential - 2 acres
- Residential - 1 acre
- Residential - 1/2 acre
- Residential - 1/4 acre
- Residential - 1/8 acre
- Row Crops - Straight Row
- Streets and Roads - Paved; Including R/W
- Water
- Woods - Good

N
W E
S

0 0.5 1
Miles

Figure A-4 : Alignment 2A-4
Proposed Land Cover/Land Use

Concept, Feasibility, & Mobility Study
Poinciana Pkwy Extension/I-4 Connector Expressway
Osceola & Polk County, FL



Legend

- Brush - Good
- Commercial and business
- Impervious
- Industrial
- Open - Fair
- Open - Good
- Open - Poor
- Pasture - Good
- Range - Good
- Residential - 2 acres
- Residential - 1 acre
- Residential - 1/2 acre
- Residential - 1/4 acre
- Residential - 1/8 acre
- Row Crops - Straight Row
- Streets and Roads - Paved; Including R/W
- Water
- Woods - Good

N
W E
S

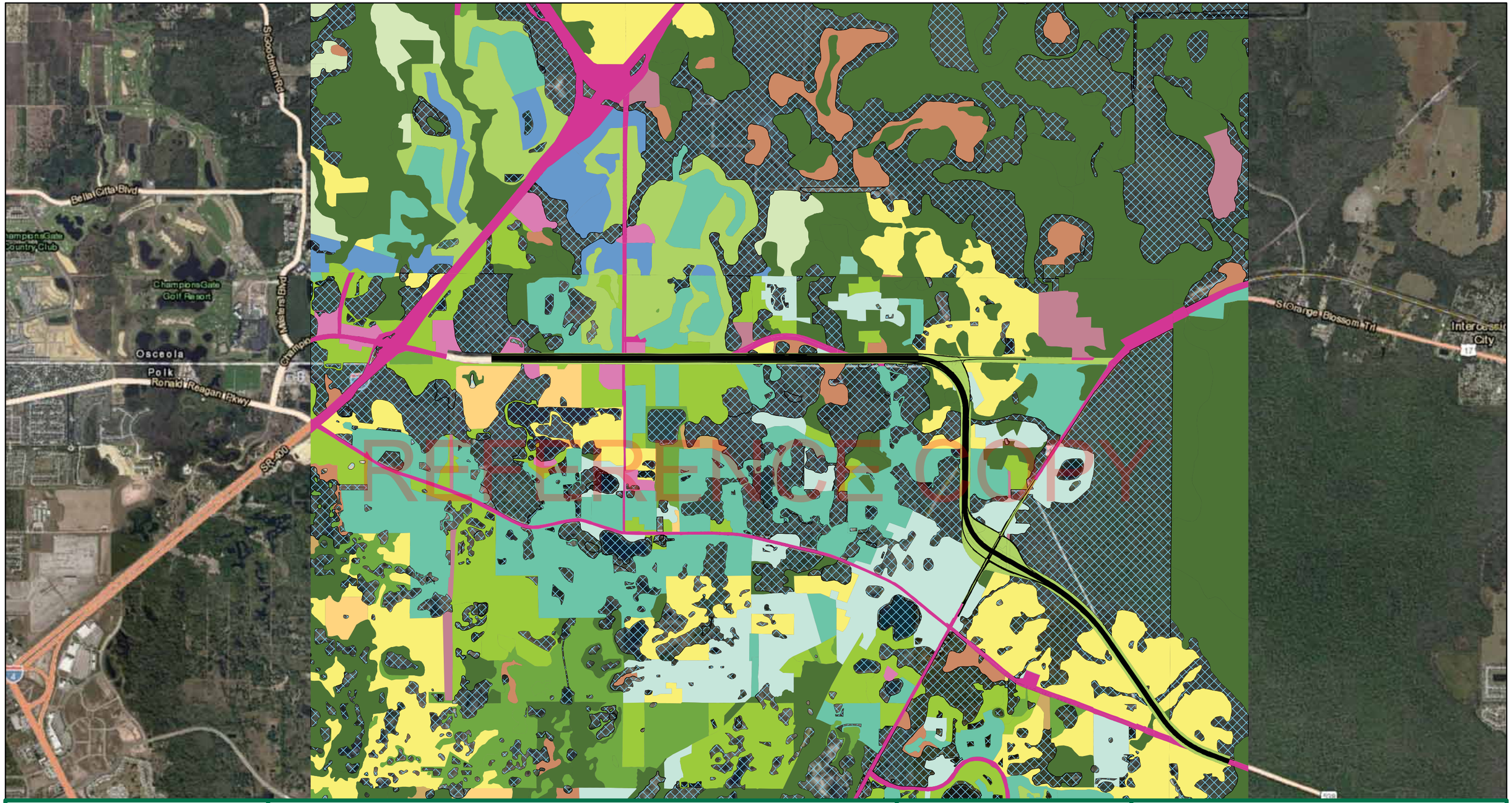
0 0.5 1

Miles

The Balmoral Group
165 Lincoln Avenue
Winter Park, Florida 32789

Figure A-4 : Alignment 2A-5 Proposed Land Cover/Land Use

Concept, Feasibility, & Mobility Study
Poinciana Pkwy Extension/I-4 Connector Expressway
Osceola & Polk County, FL



The Balmoral Group

165 Lincoln Avenue
Winter Park, Florida 32789

Legend

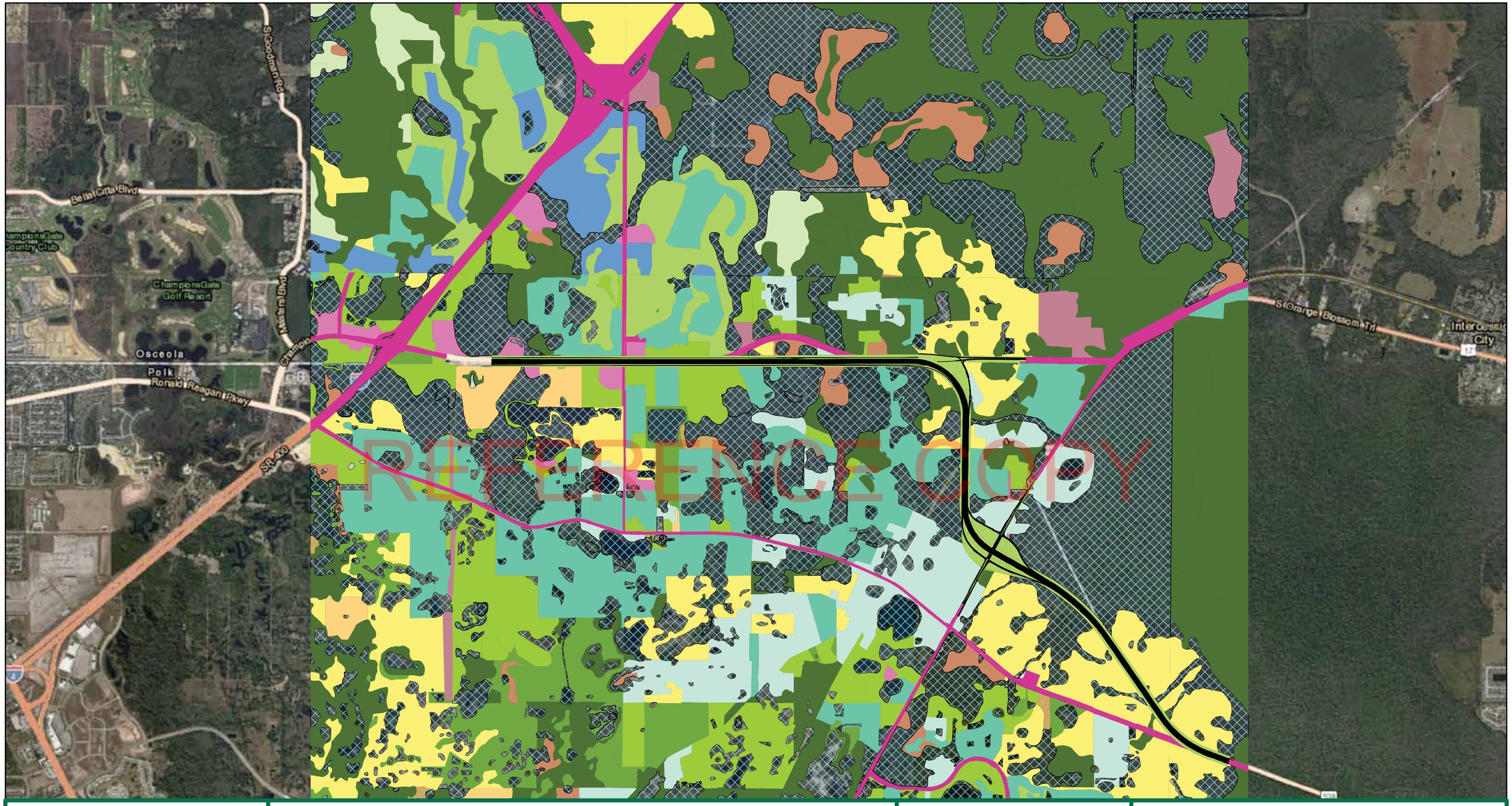
- Brush - Good
- Commercial and business
- Impervious
- Industrial
- Open - Fair
- Open - Good
- Open - Poor
- Pasture - Good
- Range - Good
- Residential - 2 acres
- Residential - 1 acre
- Residential - 1/2 acre
- Residential - 1/4 acre
- Residential - 1/8 acre
- Row Crops - Straight Row
- Streets and Roads - Paved; Including R/W
- Water
- Woods - Good

N
W E
S

0 0.5 1
Miles

Figure A-4 : Alignment 3-2N Proposed Land Cover/Land Use

Concept, Feasibility, & Mobility Study
Poinciana Pkwy Extension/I-4 Connector Expressway
Osceola & Polk County, FL



The Balmoral Group
165 Lincoln Avenue
Winter Park, Florida 32789

Legend

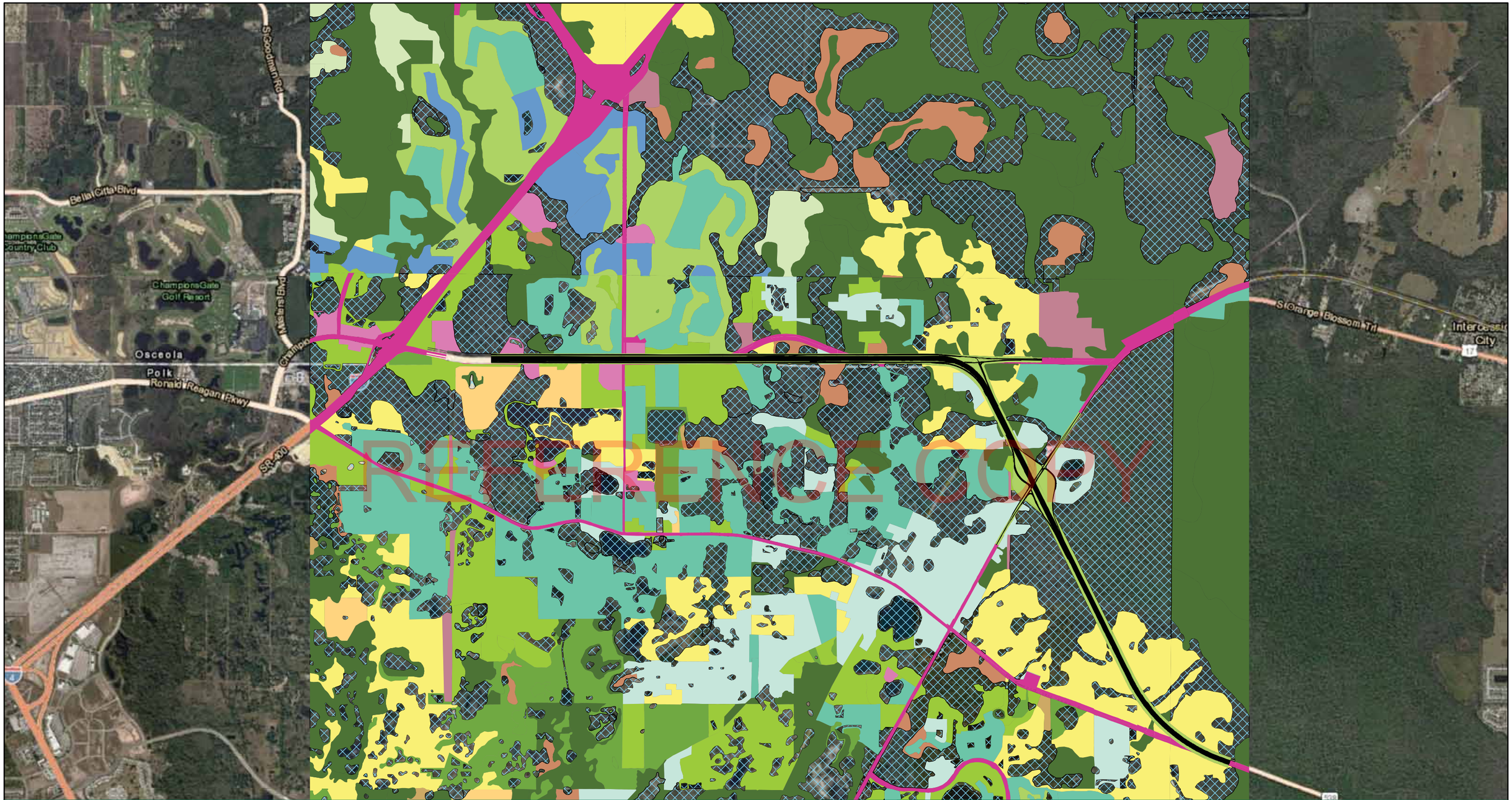
- Brush - Good
- Commercial and business
- Impervious
- Industrial
- Open - Fair
- Open - Good
- Open - Poor
- Pasture - Good
- Range - Good
- Residential - 2 acres
- Residential - 1 acre
- Residential - 1/2 acre
- Residential - 1/4 acre
- Residential - 1/8 acre
- Row Crops - Straight Row
- Streets and Roads - Paved; Including R/W
- Water
- Woods - Good

N
W E
S

0 0.5 1
Miles

Figure A-4 : Alignment 3-2S Proposed Land Cover/Land Use

Concept, Feasibility, & Mobility Study
Poinciana Pkwy Extension/I-4 Connector Expressway
Osceola & Polk County, FL



The Balmoral Group
165 Lincoln Avenue
Winter Park, Florida 32789

Legend

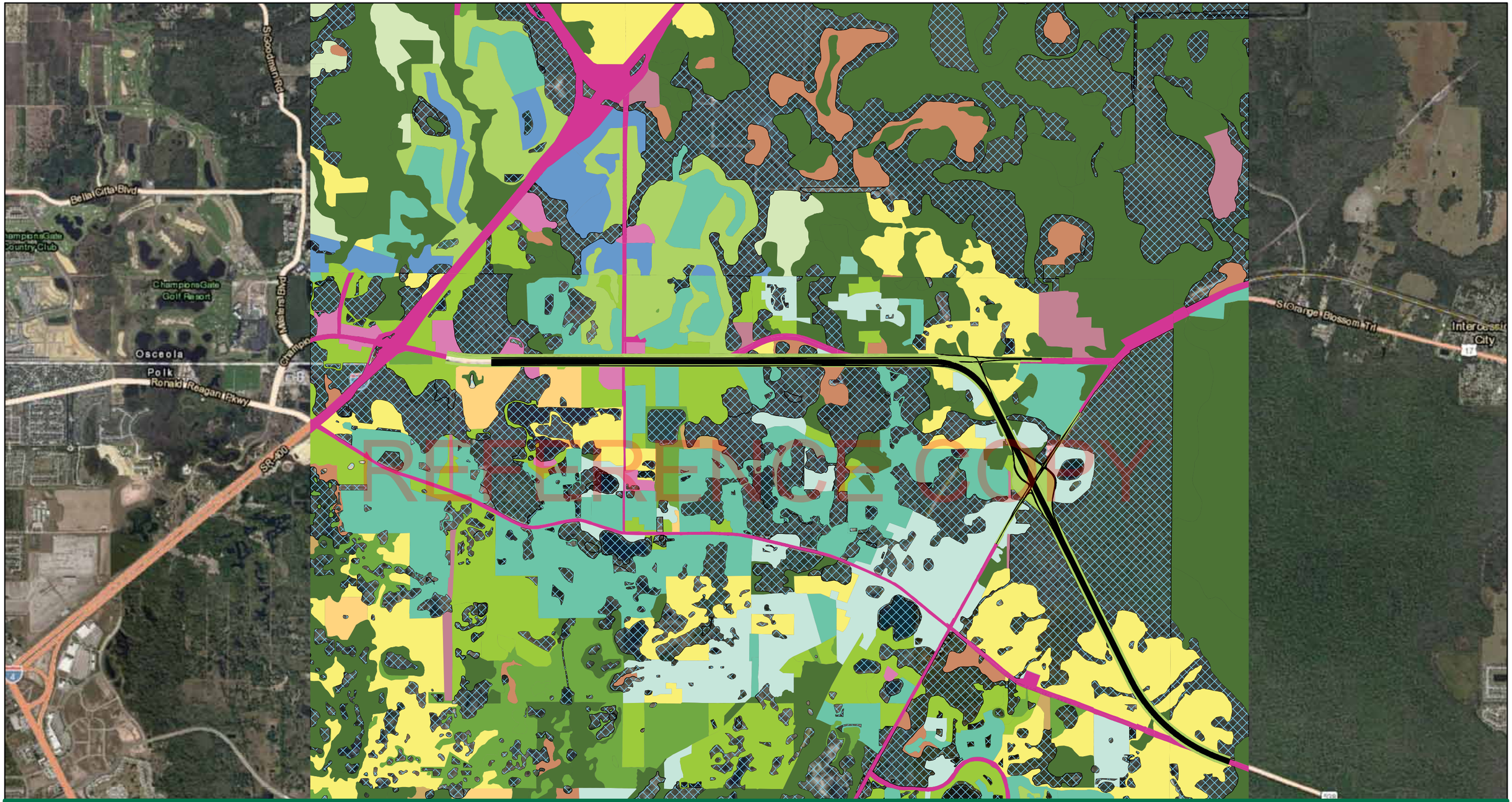
- Brush - Good
- Commercial and business
- Impervious
- Industrial
- Open - Fair
- Open - Good
- Open - Poor
- Pasture - Good
- Range - Good
- Residential - 2 acres
- Residential - 1 acre
- Residential - 1/2 acre
- Residential - 1/4 acre
- Residential - 1/8 acre
- Row Crops - Straight Row
- Streets and Roads - Paved; Including R/W
- Water
- Woods - Good

N
W E
S

0 0.5 1
Miles

Figure A-4 : Alignment 3-5N Proposed Land Cover/Land Use

Concept, Feasibility, & Mobility Study
Poinciana Pkwy Extension/I-4 Connector Expressway
Osceola & Polk County, FL



The Balmoral Group

165 Lincoln Avenue
Winter Park, Florida 32789

Legend

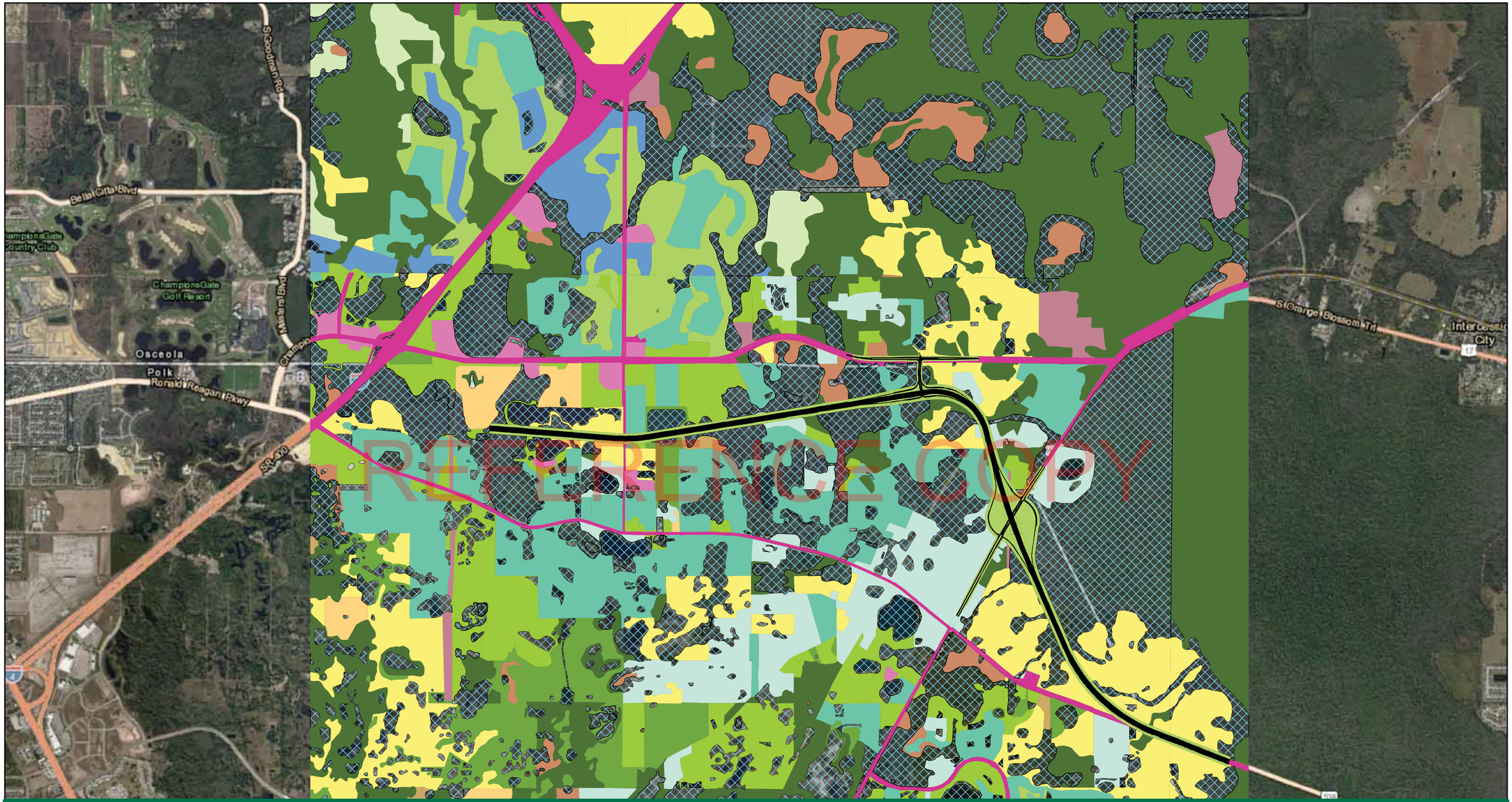
- Brush - Good
- Commercial and business
- Impervious
- Industrial
- Open - Fair
- Open - Good
- Open - Poor
- Pasture - Good
- Range - Good
- Residential - 2 acres
- Residential - 1 acre
- Residential - 1/2 acre
- Residential - 1/4 acre
- Residential - 1/8 acre
- Row Crops - Straight Row
- Streets and Roads - Paved; Including R/W
- Water
- Woods - Good

N
W E
S

0 0.5 1
Miles

Figure A-4 : Alignment 3-5S Proposed Land Cover/Land Use

Concept, Feasibility, & Mobility Study
Poinciana Pkwy Extension/I-4 Connector Expressway
Osceola & Polk County, FL



The Balmoral Group

165 Lincoln Avenue
Winter Park, Florida 32789

Legend

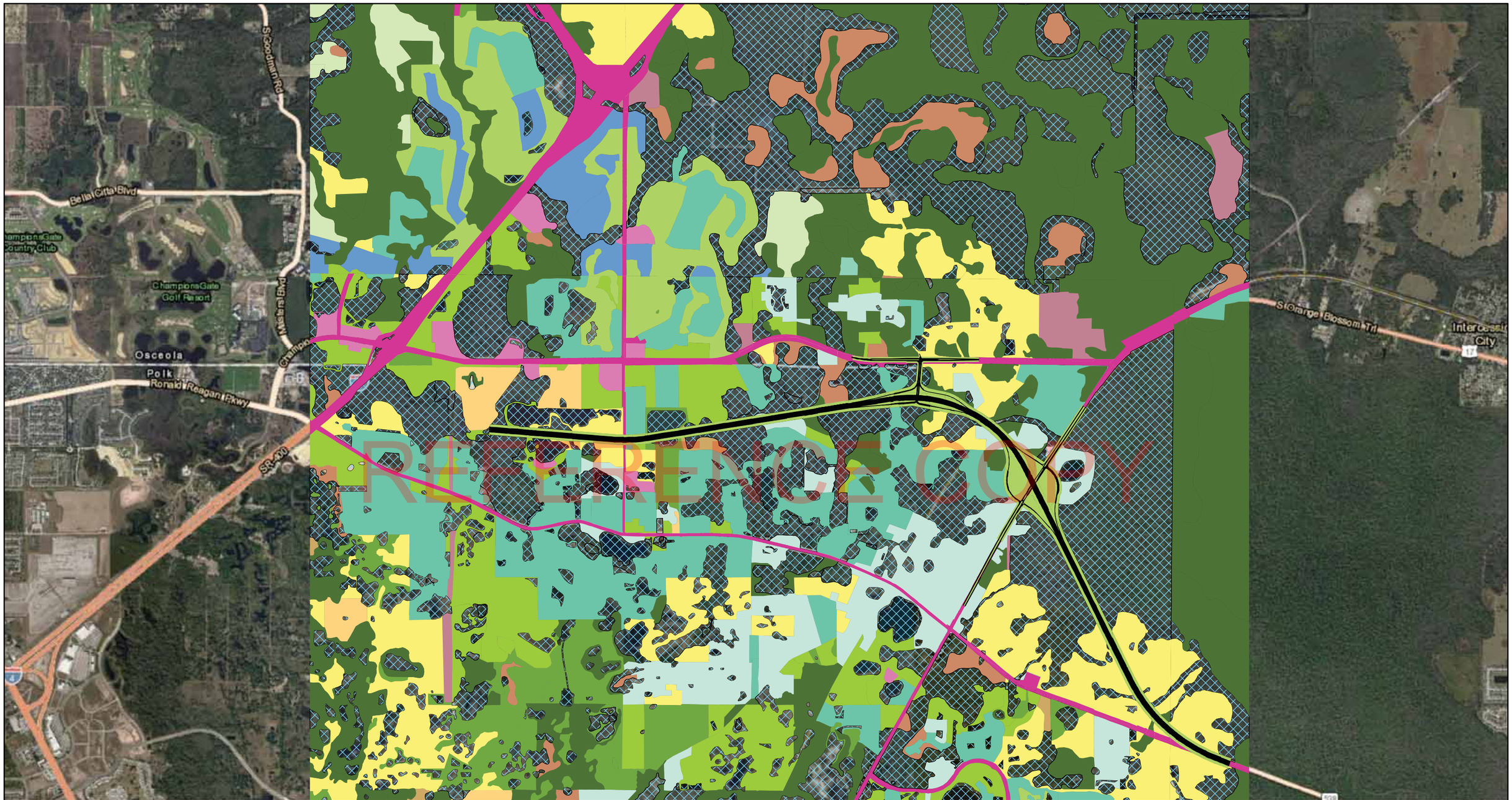
- Brush - Good
- Commercial and business
- Impervious
- Industrial
- Open - Fair
- Open - Good
- Open - Poor
- Pasture - Good
- Range - Good
- Residential - 2 acres
- Residential - 1 acre
- Residential - 1/2 acre
- Residential - 1/4 acre
- Residential - 1/8 acre
- Row Crops - Straight Row
- Streets and Roads - Paved; Including R/W
- Water
- Woods - Good

N
W E
S

0 0.5 1
Miles

Figure A-4 : Alignment 3A-3 Proposed Land Cover/Land Use

Concept, Feasibility, & Mobility Study
Poinciana Pkwy Extension/I-4
Connector Expressway
Osceola & Polk County, FL



The Balmoral Group

165 Lincoln Avenue
Winter Park, Florida 32789

Legend

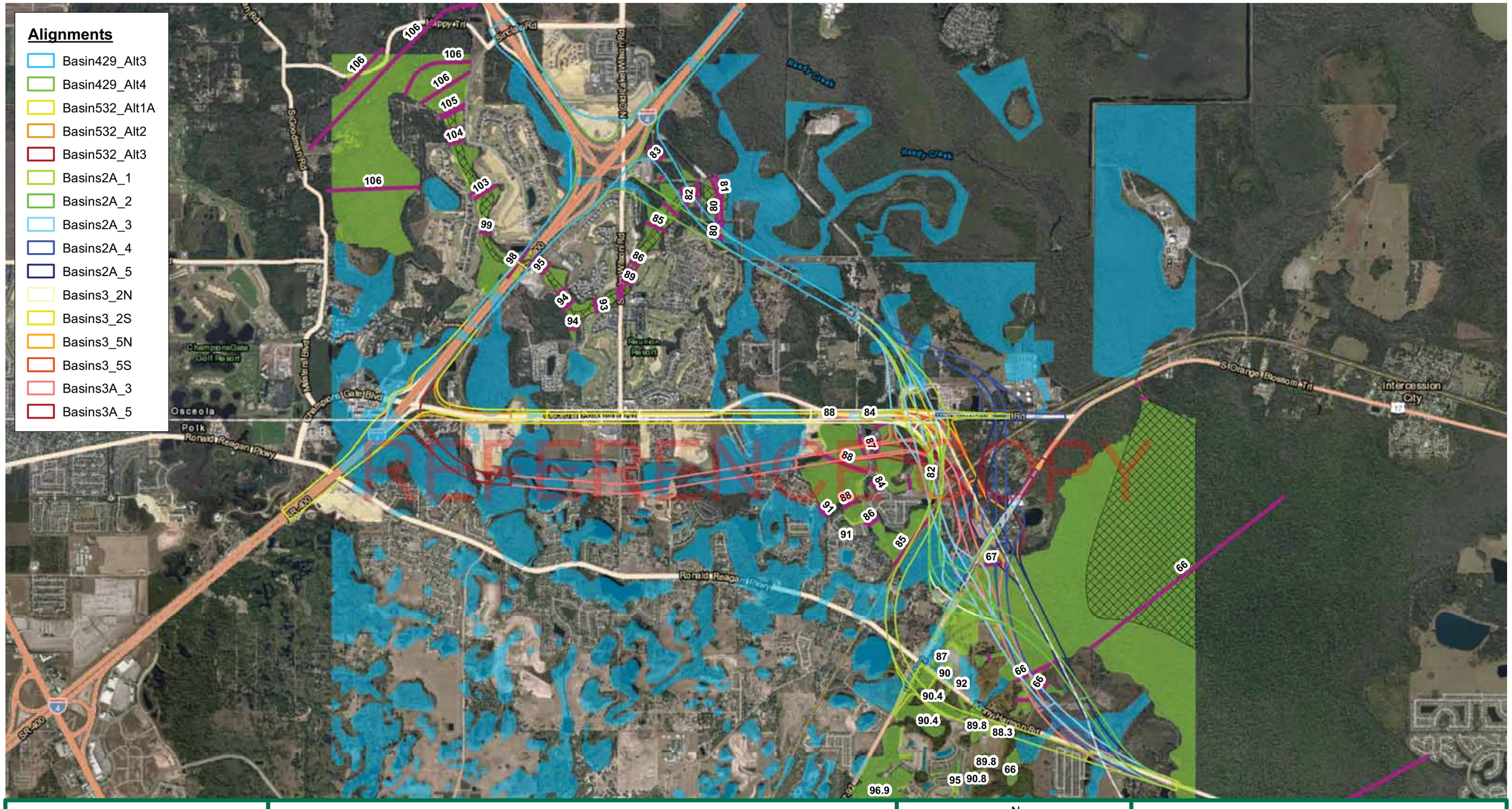
- Brush - Good
- Commercial and business
- Impervious
- Industrial
- Open - Fair
- Open - Good
- Open - Poor
- Pasture - Good
- Range - Good
- Residential - 2 acres
- Residential - 1 acre
- Residential - 1/2 acre
- Residential - 1/4 acre
- Residential - 1/8 acre
- Row Crops - Straight Row
- Streets and Roads - Paved; Including R/W
- Water
- Woods - Good

N
W E
S

0 0.5 1
Miles

Figure A-4 : Alignment 3A-5 Proposed Land Cover/Land Use

Concept, Feasibility, & Mobility Study
Poinciana Pkwy Extension/I-4 Connector Expressway
Osceola & Polk County, FL



The Balmoral Group

165 Lincoln Avenue
Winter Park, Florida 32789

Legend

FEMA BFE

Zone AE

FEMA Floodway

FEMA Flood Zone

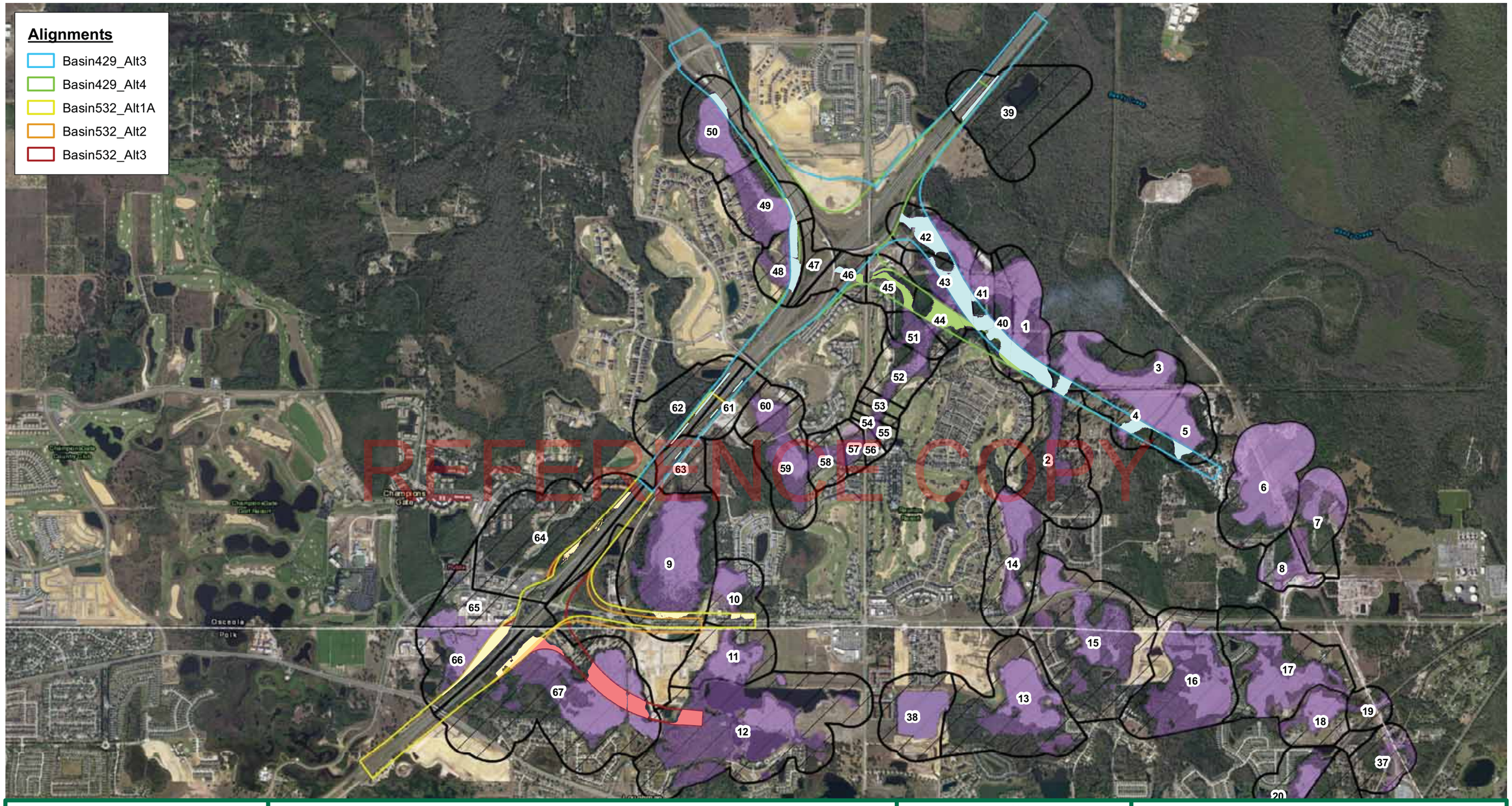
Zone A

N
W E
S

0 0.5 1
Miles

Figure A-5 : Floodplain Impacts FEMA Flood Zones

Concept, Feasibility, & Mobility Study
Poinciana Pkwy Extension/I-4 Connector Expressway
Osceola & Polk County, FL



The Balmoral Group
165 Lincoln Avenue
Winter Park, Florida 32789

Legend

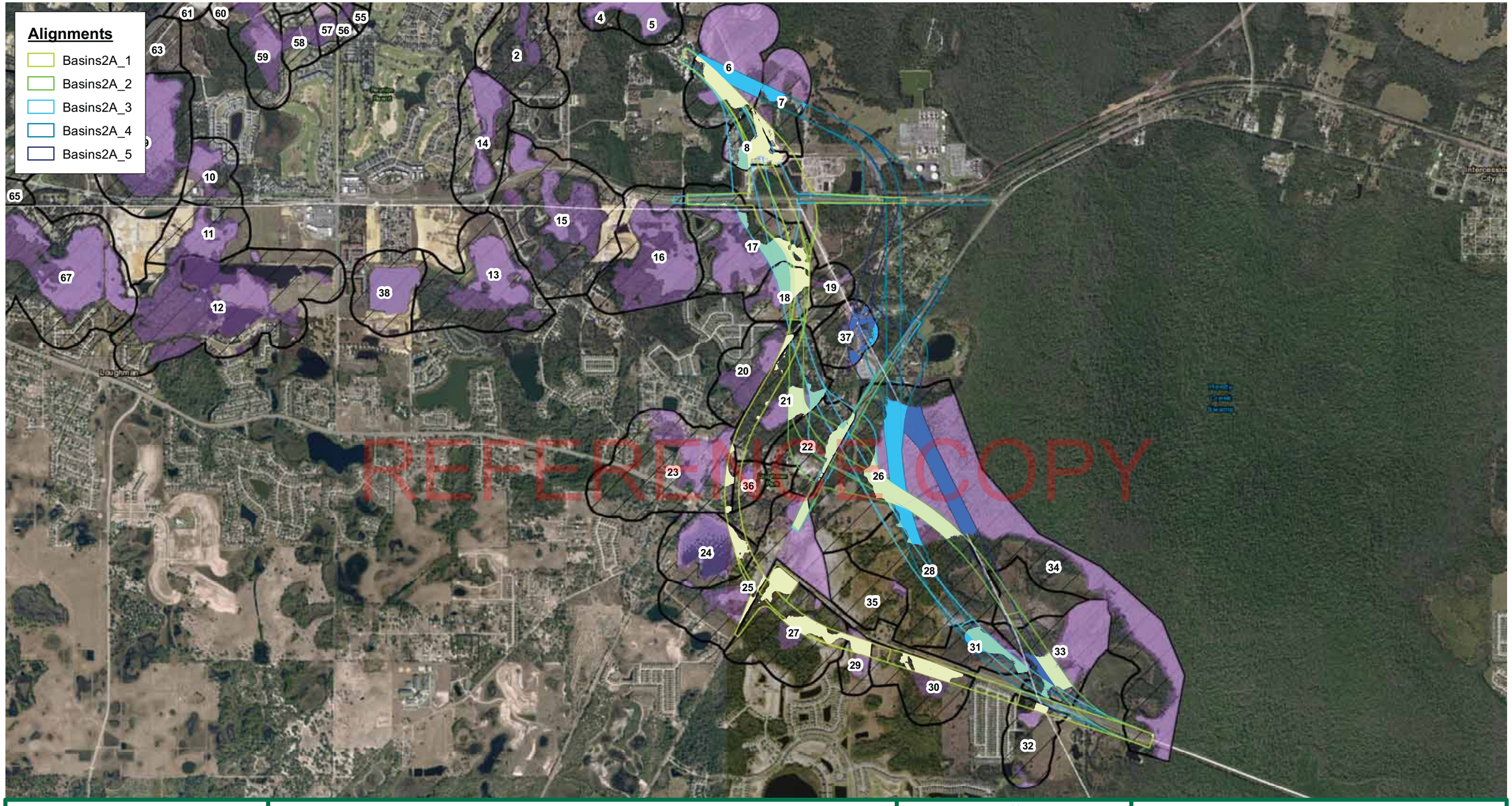
- SR 429 Alt 3 Impacts
- SR 429 Alt 4 Impacts
- CR 532 Alt 1A Impacts
- CR 532 Alt 2 Impacts
- CR 532 Alt 3 Impacts
- SHWT Inundation Shape
- 100-yr Inundation Shape
- Buffered FEMA Shapes

N
W E
S

0 0.35 0.7
Miles

Figure A-6 : Floodplain Impacts Inundated Floodplains & SHWL

Concept, Feasibility, & Mobility Study
Poinciana Pkwy Extension/I-4
Connector Expressway
Osceola & Polk County, FL



REFERENCE COPY

The Balmoral Group
165 Lincoln Avenue
Winter Park, Florida 32789

Legend

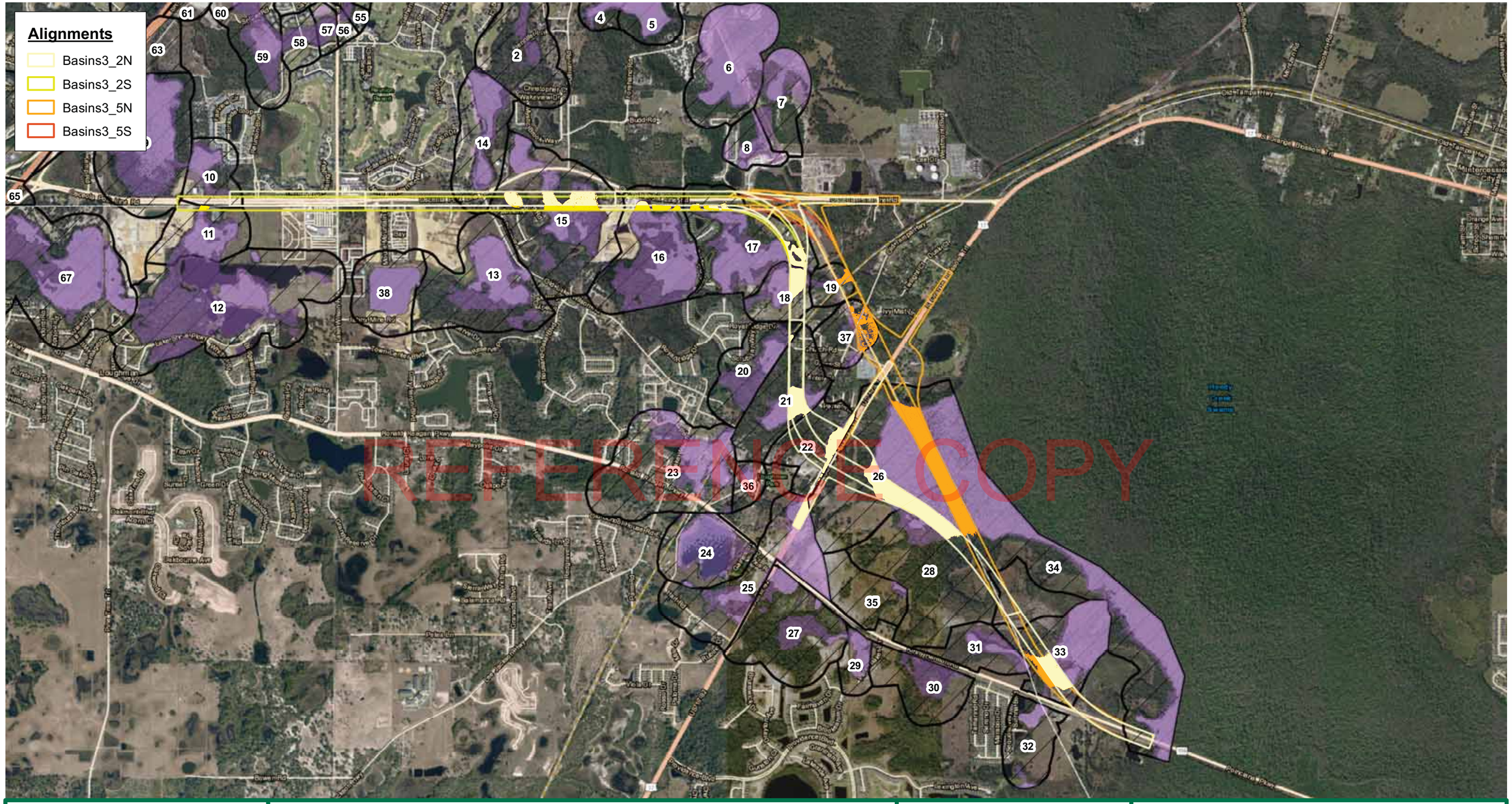
- Alt 2A-1 Impacts
- Alt 2A-2 Impacts
- Alt 2A-3 Impacts
- Alt 2A-4 Impacts
- Alt 2A-5 Impacts
- SHWT Inundation Shape
- 100-yr Inundation Shape
- Buffered FEMA Shapes

N
W E
S

0 0.35 0.7
Miles

Figure A-6 : Floodplain Impacts Inundated Floodplains & SHWL

Concept, Feasibility, & Mobility Study
Poinciana Pkwy Extension/I-4
Connector Expressway
Osceola & Polk County, FL



The Balmoral Group

165 Lincoln Avenue
Winter Park, Florida 32789

Legend

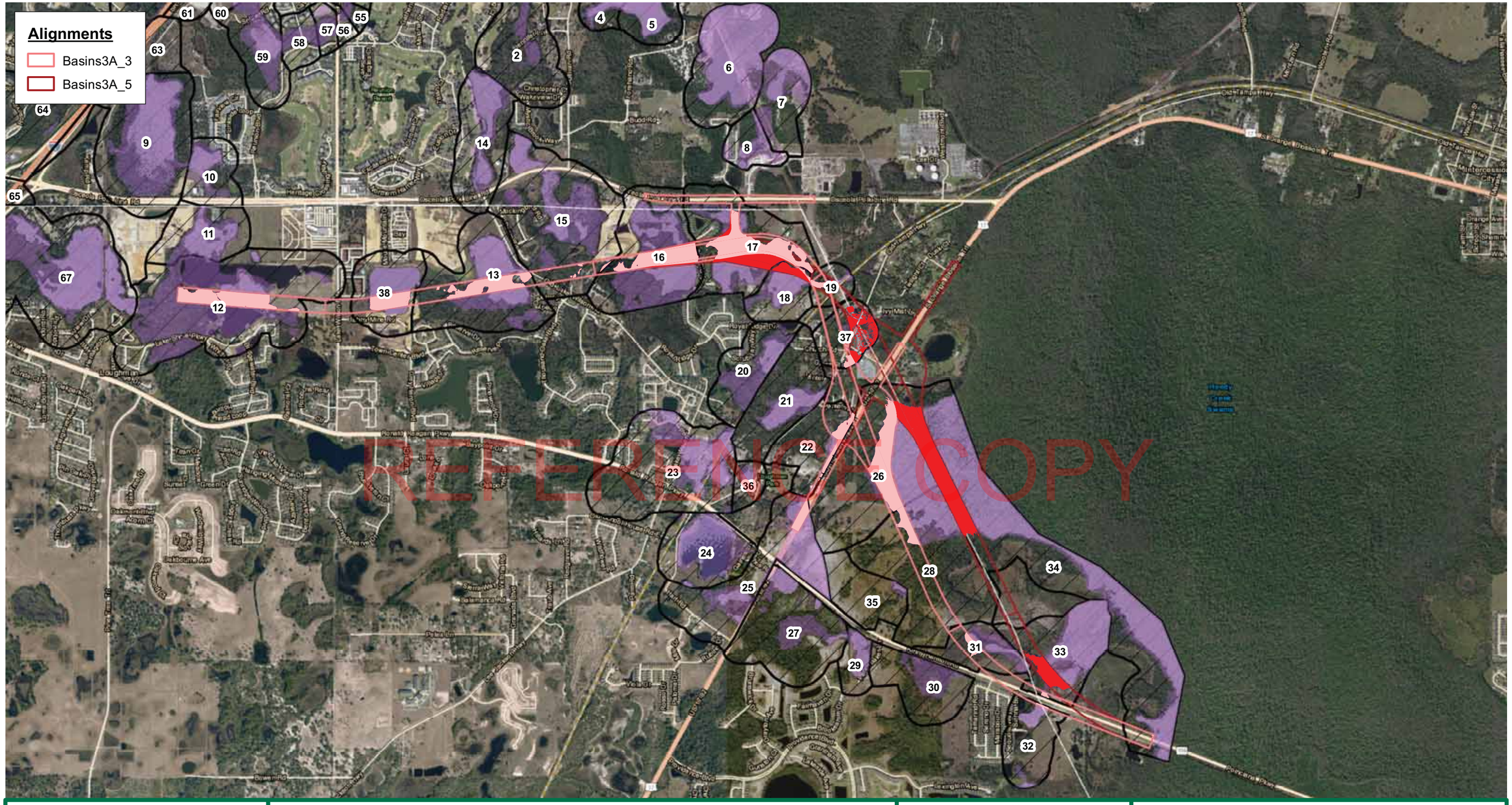
- Alt 3-2N Impacts
- Alt 3-2S Impacts
- Alt 3-5N Impacts
- Alt 3-5S Impacts
- SHWT Inundation Shape
- 100-yr Inundation Shape
- Buffered FEMA Shapes

N
W E
S

0 0.35 0.7
Miles

Figure A-6 : Floodplain Impacts Inundated Floodplains & SHWL

Concept, Feasibility, & Mobility Study
Poinciana Pkwy Extension/I-4
Connector Expressway
Osceola & Polk County, FL


Alignments
Basins3A_3
Basins3A_5
61
60
55
57
56
58
63
59
4
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2
6
7
64
9
14
8
10
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30
32
Bass Pro Blvd
Buck Rd
Old Tampa Hwy
Ronald Reagan Pkwy
Loughman
Lake Marion Creek Dr
Lake Marion Creek Elementary
Lake Marion Creek Park
Lake Marion Creek Preserve
Lake Marion Creek Trail
Lake Marion Creek Way
Lake Marion Creek Wetland
Lake Marion Creek Wetland Preserve
Lake Marion Creek Wetland Trail
Lake Marion Creek Wetland Way
Lake Marion Creek Wetland Preserve Trail
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Project: CFX Feasibility Study: I-4 / Poinciana Parkway Connector
County: Osceola & Polk

Notes:
(1) Attenuation volume zero if pre CN is greater than post CN (may occur due to existing water/wetland features)
(2) Interchange CN does not account for wet infield ponds. Open Space CN is used for infield areas; this will need to be further refined in PD&E.

Rainfall (25yr/72hr, in) **10.5**

Table A.1 - Attenuation Volume Summary

ALIGNMENT 2A-1

		Existing					Proposed					Results
Basin	**Area (ac)**	**Weighted CN**	**S**	**Ia**	**Runoff (in)**	**Runoff (ac-ft)**	**Weighted CN**	**S**	**Ia**	**Runoff (in)**	**Runoff (ac-ft)**	**Attenuation Volume (ac-ft)**
B2A-1_2	24.31	80.0	2.50	0.50	8.00	16.21	89.3	1.20	0.24	9.19	18.61	2.4
B2A-1_3	27.61	82.8	2.08	0.42	8.36	19.24	89.2	1.21	0.24	9.17	21.11	1.9
B2A-1_3IC	73.63	82.1	2.18	0.44	8.27	50.75	82.3	2.15	0.43	8.30	50.91	0.2
B2A-1_4	49.44	77.6	2.89	0.58	7.68	31.65	81.2	2.31	0.46	8.16	33.60	2.0
B2A-1_5	25.14	90.5	1.05	0.21	9.34	19.57	89.6	1.16	0.23	9.23	19.33	0.0
B2A-1_5IC	17.22	91.6	0.91	0.18	9.48	13.60	79.9	2.51	0.50	7.99	11.46	0.0
B2A-1_6	23.46	85.8	1.65	0.33	8.75	17.11	89.2	1.21	0.24	9.18	17.95	0.8
B2A-1_7	23.94	77.9	2.84	0.57	7.73	15.42	86.2	1.60	0.32	8.79	17.55	2.1

REFERENCE COPY

ALIGNMENT 2A-2

		Existing					Proposed					Results
Basin	**Area (ac)**	**Weighted CN**	**S**	**Ia**	**Runoff (in)**	**Runoff (ac-ft)**	**Weighted CN**	**S**	**Ia**	**Runoff (in)**	**Runoff (ac-ft)**	**Attenuation Volume (ac-ft)**
B2A-2_2	24.31	80.0	2.50	0.50	8.00	16.21	89.3	1.20	0.24	9.19	18.61	2.4
B2A-2_3	27.45	83.5	1.97	0.39	8.45	19.34	89.2	1.21	0.24	9.18	21.00	1.7
B2A-2_3IC	73.83	82.1	2.19	0.44	8.27	50.86	82.3	2.15	0.43	8.30	51.07	0.2
B2A-2_4	26.28	92.0	0.87	0.17	9.52	20.85	89.3	1.19	0.24	9.19	20.13	0.0
B2A-2_4IC	59.68	87.1	1.49	0.30	8.90	44.28	81.1	2.33	0.47	8.15	40.51	0.0
B2A-2_5	33.33	81.1	2.34	0.47	8.14	22.60	87.5	1.43	0.29	8.96	24.89	2.3
B2A-2_Reedy	41.43	93.4	0.71	0.14	9.69	33.46	89.0	1.23	0.25	9.16	31.61	0.0

ALIGNMENT 2A-3

		Existing					Proposed					Results
Basin	Area (ac)	Weighted CN	S	Ia	Runoff (in)	Runoff (ac-ft)	Weighted CN	S	Ia	Runoff (in)	Runoff (ac-ft)	Attenuation Volume (ac-ft)
B2A-3_2	23.57	80.1	2.48	0.50	8.01	15.74	89.1	1.22	0.24	9.17	18.01	2.3
B2A-3_3	27.14	83.5	1.98	0.40	8.45	19.10	89.3	1.20	0.24	9.19	20.78	1.7
B2A-3_3IC	74.11	83.2	2.01	0.40	8.42	51.99	82.4	2.13	0.43	8.32	51.36	0.0
B2A-3_4	22.60	88.1	1.35	0.27	9.04	17.02	89.5	1.17	0.23	9.22	17.35	0.3
B2A-3_4IC	55.35	88.8	1.27	0.25	9.12	42.06	83.0	2.05	0.41	8.39	38.69	0.0
B2A-3_5	38.12	82.4	2.14	0.43	8.31	26.40	87.5	1.43	0.29	8.96	28.46	2.1
B2A-3_Reedy	37.71	91.7	0.90	0.18	9.49	29.82	89.0	1.24	0.25	9.15	28.74	0.0

ALIGNMENT 2A-4

		Existing					Proposed					Results
Basin	Area (ac)	Weighted CN	S	Ia	Runoff (in)	Runoff (ac-ft)	Weighted CN	S	Ia	Runoff (in)	Runoff (ac-ft)	Attenuation Volume (ac-ft)
B2A-4_2	22.81	78.9	2.68	0.54	7.86	14.93	88.7	1.28	0.26	9.11	17.31	2.4
B2A-4_3	23.05	79.6	2.57	0.51	7.95	15.26	89.3	1.20	0.24	9.19	17.65	2.4
B2A-4_3IC	36.19	82.1	2.19	0.44	8.27	24.93	83.2	2.02	0.40	8.41	25.37	0.4
B2A-4_4	31.16	86.6	1.55	0.31	8.85	22.97	89.5	1.17	0.23	9.21	23.91	0.9
B2A-4_4IC	50.66	87.2	1.47	0.29	8.93	37.68	82.7	2.10	0.42	8.35	35.24	0.0
B2A-4_5	38.80	81.4	2.28	0.46	8.18	26.46	87.3	1.45	0.29	8.94	28.90	2.4
B2A-4_Reedy	44.53	96.7	0.34	0.07	10.10	37.48	89.4	1.19	0.24	9.20	34.14	0.0

REFERENCE COPY

ALIGNMENT 2A-5

		Existing					Proposed					Results
Basin	Area (ac)	Weighted CN	S	Ia	Runoff (in)	Runoff (ac-ft)	Weighted CN	S	Ia	Runoff (in)	Runoff (ac-ft)	Attenuation Volume (ac-ft)
B2A-5_2	22.81	78.9	2.68	0.54	7.86	14.93	88.7	1.28	0.26	9.11	17.31	2.4
B2A-5_3	23.15	79.6	2.57	0.51	7.95	15.33	89.3	1.19	0.24	9.19	17.73	2.4
B2A-5_3IC	36.72	82.0	2.19	0.44	8.27	25.29	83.1	2.03	0.41	8.40	25.71	0.4
B2A-5_4	33.89	82.7	2.10	0.42	8.35	23.57	89.2	1.21	0.24	9.18	25.92	2.4
B2A-5_4IC	65.80	88.3	1.33	0.27	9.06	49.66	82.4	2.13	0.43	8.32	45.59	0.0
B2A-5_5	33.67	81.6	2.25	0.45	8.21	23.04	87.9	1.38	0.28	9.01	25.27	2.2
B2A-5_Reedy	43.72	95.4	0.48	0.10	9.95	36.23	89.0	1.24	0.25	9.15	33.33	0.0

ALIGNMENT 3-2N

		Existing					Proposed					Results
Basin	Area (ac)	Weighted CN	S	Ia	Runoff (in)	Runoff (ac-ft)	Weighted CN	S	Ia	Runoff (in)	Runoff (ac-ft)	Attenuation Volume (ac-ft)
B3-2N_1	23.23	64.4	5.54	1.11	5.91	11.44	76.3	3.11	0.62	7.51	14.54	3.1
B3-2N_2	42.90	64.8	5.44	1.09	5.96	21.32	81.9	2.21	0.44	8.25	29.49	8.2
B3-2N_3	27.31	81.4	2.29	0.46	8.18	18.62	91.5	0.93	0.19	9.46	21.53	2.9
B3-2N_4	19.68	84.4	1.84	0.37	8.57	14.05	89.9	1.12	0.22	9.26	15.19	1.1
B3-2N_4IC	22.85	84.2	1.88	0.38	8.54	16.26	84.6	1.82	0.36	8.59	16.36	0.1
B3-2N_5	26.28	92.0	0.87	0.17	9.52	20.86	89.8	1.14	0.23	9.25	20.26	0.0
B3-2N_5IC	49.73	89.3	1.19	0.24	9.19	38.09	86.2	1.60	0.32	8.79	36.44	0.0
B3-2N_6	33.33	81.1	2.34	0.47	8.14	22.60	87.5	1.43	0.29	8.96	24.89	2.3
B3-2N_Reedy	41.43	93.4	0.71	0.14	9.69	33.46	89.1	1.22	0.24	9.16	31.64	0.0

ALIGNMENT 3-2S

		Existing					Proposed					Results
Basin	Area (ac)	Weighted CN	S	Ia	Runoff (in)	Runoff (ac-ft)	Weighted CN	S	Ia	Runoff (in)	Runoff (ac-ft)	Attenuation Volume (ac-ft)
B3-2S_1	32.28	66.1	5.12	1.02	6.15	16.55	77.4	2.91	0.58	7.66	20.62	4.1
B3-2S_2	42.92	67.1	4.90	0.98	6.29	22.49	82.6	2.11	0.42	8.33	29.80	7.3
B3-2S_3	26.80	85.8	1.65	0.33	8.75	19.54	91.4	0.94	0.19	9.45	21.10	1.6
B3-2S_4	19.28	84.0	1.91	0.38	8.51	13.68	89.9	1.13	0.23	9.26	14.88	1.2
B3-2S_4IC	24.41	83.5	1.98	0.40	8.45	17.19	83.8	1.93	0.39	8.49	17.27	0.1
B3-2S_5	26.28	92.0	0.87	0.17	9.52	20.85	89.8	1.14	0.23	9.25	20.26	0.0
B3-2S_5IC	49.74	89.3	1.19	0.24	9.19	38.10	86.2	1.60	0.32	8.79	36.45	0.0
B3-2S_6	33.33	81.1	2.34	0.47	8.14	22.60	87.5	1.43	0.29	8.96	24.89	2.3
B3-2S_Reedy	41.43	93.4	0.71	0.14	9.69	33.46	89.1	1.22	0.24	9.16	31.64	0.0

REFERENCE COPY

ALIGNMENT 3-5N

		Existing					Proposed					Results
Basin	Area (ac)	Weighted CN	S	Ia	Runoff (in)	Runoff (ac-ft)	Weighted CN	S	Ia	Runoff (in)	Runoff (ac-ft)	Attenuation Volume (ac-ft)
B3-5N_1	23.23	64.4	5.54	1.11	5.91	11.44	76.3	3.10	0.62	7.52	14.55	3.1
B3-5N_2	42.90	64.8	5.44	1.09	5.96	21.32	82.2	2.17	0.43	8.28	29.60	8.3
B3-5N_3	29.78	81.5	2.26	0.45	8.20	20.35	91.6	0.92	0.18	9.47	23.50	3.2
B3-5N_4	19.63	80.2	2.46	0.49	8.03	13.14	90.4	1.07	0.21	9.32	15.25	2.1
B3-5N_4IC	17.78	81.3	2.29	0.46	8.17	12.11	83.1	2.04	0.41	8.40	12.44	0.3
B3-5N_5	17.47	83.5	1.97	0.39	8.46	12.31	90.2	1.09	0.22	9.30	13.53	1.2
B3-5N_5IC	42.98	87.4	1.44	0.29	8.95	32.07	86.0	1.62	0.32	8.77	31.43	0.0
B3-5N_6	33.67	81.6	2.25	0.45	8.21	23.04	87.9	1.38	0.28	9.01	25.27	2.2
B3-5N_Reedy	43.72	95.4	0.48	0.10	9.95	36.23	89.1	1.22	0.24	9.17	33.39	0.0

ALIGNMENT 3-5S

		Existing					Proposed					Results
Basin	Area (ac)	Weighted CN	S	Ia	Runoff (in)	Runoff (ac-ft)	Weighted CN	S	Ia	Runoff (in)	Runoff (ac-ft)	Attenuation Volume (ac-ft)
B3-5S_1	32.28	66.1	5.12	1.02	6.15	16.55	78.3	2.78	0.56	7.77	20.91	4.4
B3-5S_2	42.92	67.1	4.90	0.98	6.29	22.49	83.4	1.99	0.40	8.44	30.20	7.7
B3-5S_3	27.15	86.0	1.63	0.33	8.77	19.83	91.5	0.93	0.19	9.47	21.42	1.6
B3-5S_4	21.34	80.7	2.40	0.48	8.09	14.38	89.9	1.13	0.23	9.26	16.46	2.1
B3-5S_4IC	21.21	81.2	2.32	0.46	8.15	14.40	82.9	2.07	0.41	8.37	14.79	0.4
B3-5S_5	17.47	83.5	1.97	0.39	8.46	12.31	90.2	1.09	0.22	9.30	13.54	1.2
B3-5S_5IC	42.99	87.4	1.44	0.29	8.95	32.07	86.0	1.62	0.32	8.77	31.43	0.0
B3-5S_6	33.67	81.6	2.25	0.45	8.21	23.04	87.9	1.38	0.28	9.01	25.28	2.2
B3-5S_Reedy	43.72	95.4	0.48	0.10	9.95	36.23	89.1	1.22	0.24	9.17	33.39	0.0

REFERENCE COPY

ALIGNMENT 3A-3

		Existing					Proposed					Results
Basin	Area (ac)	Weighted CN	S	Ia	Runoff (in)	Runoff (ac-ft)	Weighted CN	S	Ia	Runoff (in)	Runoff (ac-ft)	Attenuation Volume (ac-ft)
B3A-3_1	25.36	74.6	3.41	0.68	7.29	15.40	80.3	2.46	0.49	8.04	16.99	1.6
B3A-3_2	46.72	82.9	2.06	0.41	8.38	32.62	81.5	2.27	0.45	8.20	31.91	0.0
B3A-3_3	40.59	89.6	1.16	0.23	9.22	31.19	90.3	1.08	0.22	9.31	31.48	0.3
B3A-3_3IC	28.34	87.7	1.41	0.28	8.98	21.22	82.7	2.09	0.42	8.35	19.72	0.0
B3A-3_4	25.10	84.4	1.85	0.37	8.56	17.91	89.3	1.20	0.24	9.19	19.22	1.3
B3A-3_4IC	64.00	90.5	1.05	0.21	9.34	49.80	82.6	2.10	0.42	8.34	44.47	0.0
B3A-3_5	39.60	80.5	2.42	0.48	8.07	26.62	87.3	1.45	0.29	8.94	29.51	2.9
B3A-3_Reedy	39.91	95.5	0.47	0.09	9.95	33.11	89.0	1.24	0.25	9.14	30.41	0.0

ALIGNMENT 3A-5

		Existing					Proposed					Results
Basin	Area (ac)	Weighted CN	S	Ia	Runoff (in)	Runoff (ac-ft)	Weighted CN	S	Ia	Runoff (in)	Runoff (ac-ft)	Attenuation Volume (ac-ft)
B3A-5_1	25.36	74.6	3.41	0.68	7.29	15.40	80.3	2.46	0.49	8.04	16.99	1.6
B3A-5_2	46.72	82.9	2.06	0.41	8.38	32.62	81.5	2.27	0.45	8.20	31.91	0.0
B3A-5_3	38.36	90.2	1.09	0.22	9.30	29.72	89.6	1.16	0.23	9.23	29.50	0.0
B3A-5_3IC	35.34	87.8	1.39	0.28	8.99	26.49	83.1	2.03	0.41	8.41	24.75	0.0
B3A-5_4	24.57	83.7	1.94	0.39	8.48	17.36	89.4	1.19	0.24	9.19	18.82	1.5
B3A-5_4IC	66.75	88.4	1.32	0.26	9.07	50.44	82.6	2.11	0.42	8.33	46.36	0.0
B3A-5_5	33.67	81.6	2.25	0.45	8.21	23.04	87.9	1.38	0.28	9.01	25.27	2.2
B3A-5_Reedy	43.72	95.4	0.48	0.10	9.95	36.23	88.9	1.24	0.25	9.14	33.31	0.0

I-4 INTERCHANGE ALTERNATIVES

		Existing					Proposed					Results
Basin	Area (ac)	Weighted CN	S	Ia	Runoff (in)	Runoff (ac-ft)	Weighted CN	S	Ia	Runoff (in)	Runoff (ac-ft)	Attenuation Volume (ac-ft)
B532_ALT1A	192.72	77.9	2.84	0.57	7.73	124.10	76.6	3.05	0.61	7.56	121.40	0.0
B532_ALT2	187.19	77.1	2.97	0.59	7.62	118.83	76.4	3.10	0.62	7.52	117.37	0.0
B532_ALT3	194.13	79.4	2.60	0.52	7.92	128.12	77.3	2.93	0.59	7.65	123.80	0.0
B429_ALT3	406.63	72.7	3.75	0.75	7.04	238.62	76.7	3.04	0.61	7.57	256.50	17.9
B429_ALT4	358.92	74.1	3.50	0.70	7.22	215.95	77.7	2.87	0.57	7.70	230.38	14.4

REFERENCE COPY

Project: CFX Feasibility Study: I-4 / Poinciana Parkway Connector
County: Osceola & Polk

Table A.2 - Treatment Volume Summary - Assumes Wet Detention Ponds

ALIGNMENT 2A-1

Basin	Area (ac)	Existing Impervious Area (ac)	Proposed Impervious Area (ac)	Treatment Volume - Basin (ac-ft)	Treatment Volume - Impervious Area (ac-ft)	Treatment Volume Required (ac-ft)	Additional 50% Treatment Volume (ac-ft)
B2A-1_2	24.31	0.0	12.6	2.0	2.6	2.6	3.9
B2A-1_3	27.61	0.2	14.1	2.3	2.9	2.9	4.3
B2A-1_3IC	73.63	3.2	9.5	6.1	1.3	6.1	9.2
B2A-1_4	49.44	1.4	24.6	4.1	4.8	4.8	7.2
B2A-1_5	25.14	0.0	13.4	2.1	2.8	2.8	4.2
B2A-1_5IC	17.22	1.1	2.8	1.4	0.4	1.4	2.2
B2A-1_6	23.46	0.0	12.0	2.0	2.5	2.5	3.8
B2A-1_7	23.94	2.6	11.5	2.0	1.9	2.0	3.0

ALIGNMENT 2A-2

Basin	Area (ac)	Existing Impervious Area (ac)	Proposed Impervious Area (ac)	Treatment Volume - Basin (ac-ft)	Treatment Volume - Impervious Area (ac-ft)	Treatment Volume Required (ac-ft)	Additional 50% Treatment Volume (ac-ft)
B2A-2_2	24.31	0.0	12.6	2.0	2.6	2.6	3.9
B2A-2_3	27.45	0.2	14.1	2.3	2.9	2.9	4.3
B2A-2_3IC	73.83	3.2	9.5	6.2	1.3	6.2	9.2
B2A-2_4	26.28	0.2	13.6	2.2	2.8	2.8	4.2
B2A-2_4IC	59.68	3.8	8.9	5.0	1.1	5.0	7.5
B2A-2_5	33.33	1.8	16.0	2.8	3.0	3.0	4.5
B2A-2_Reedy	41.43	0.0	20.8	3.5	4.3	4.3	6.5

REFERENCE COPY

ALIGNMENT 2A-3

Basin	Area (ac)	Existing Impervious Area (ac)	Proposed Impervious Area (ac)	Treatment Volume - Basin (ac-ft)	Treatment Volume - Impervious Area (ac-ft)	Treatment Volume Required (ac-ft)	Additional 50% Treatment Volume (ac-ft)
B2A-3_2	23.57	0.0	12.0	2.0	2.5	2.5	3.7
B2A-3_3	27.14	0.2	14.0	2.3	2.9	2.9	4.3
B2A-3_3IC	74.11	3.6	10.0	6.2	1.3	6.2	9.3
B2A-3_4	22.60	0.3	12.0	1.9	2.4	2.4	3.7
B2A-3_4IC	55.35	4.7	9.2	4.6	0.9	4.6	6.9
B2A-3_5	38.12	2.2	18.4	3.2	3.4	3.4	5.0
B2A-3_Reedy	37.71	0.0	18.8	3.1	3.9	3.9	5.9

ALIGNMENT 2A-4

Basin	Area (ac)	Existing Impervious Area (ac)	Proposed Impervious Area (ac)	Treatment Volume - Basin (ac-ft)	Treatment Volume - Impervious Area (ac-ft)	Treatment Volume Required (ac-ft)	Additional 50% Treatment Volume (ac-ft)
B2A-4_2	22.81	0.0	11.0	1.9	2.3	2.3	3.4
B2A-4_3	23.05	0.1	11.9	1.9	2.5	2.5	3.7
B2A-4_3IC	36.19	2.8	6.4	3.0	0.7	3.0	4.5
B2A-4_4	31.16	0.5	16.6	2.6	3.3	3.3	5.0
B2A-4_4IC	50.66	2.8	7.5	4.2	1.0	4.2	6.3
B2A-4_5	38.80	2.7	18.7	3.2	3.3	3.3	5.0
B2A-4_Reedy	44.53	0.0	0.0	3.7	0.0	3.7	5.6

ALIGNMENT 2A-5

Basin	Area (ac)	Existing Impervious Area (ac)	Proposed Impervious Area (ac)	Treatment Volume - Basin (ac-ft)	Treatment Volume - Impervious Area (ac-ft)	Treatment Volume Required (ac-ft)	Additional 50% Treatment Volume (ac-ft)
B2A-5_2	22.81	0.0	11.0	1.9	2.3	2.3	3.4
B2A-5_3	23.15	0.1	12.0	1.9	2.5	2.5	3.7
B2A-5_3IC	36.72	2.8	6.3	3.1	0.7	3.1	4.6
B2A-5_4	33.89	0.4	17.4	2.8	3.5	3.5	5.3
B2A-5_4IC	65.80	3.0	8.9	5.5	1.2	5.5	8.2
B2A-5_5	33.67	1.8	16.2	2.8	3.0	3.0	4.5
B2A-5_Reedy	43.72	0.0	21.8	3.6	4.5	4.5	6.8

REFERENCE COPY

ALIGNMENT 3-2N

Basin	Area (ac)	Existing Impervious Area (ac)	Proposed Impervious Area (ac)	Treatment Volume - Basin (ac-ft)	Treatment Volume - Impervious Area (ac-ft)	Treatment Volume Required (ac-ft)	Additional 50% Treatment Volume (ac-ft)
B3-2N_1	23.23	6.5	14.6	1.9	1.7	1.9	2.9
B3-2N_2	42.90	4.3	27.7	3.6	4.9	4.9	7.3
B3-2N_3	27.31	2.4	17.4	2.3	3.1	3.1	4.7
B3-2N_4	19.68	0.0	10.8	1.6	2.3	2.3	3.4
B3-2N_4IC	22.85	1.9	4.0	1.9	0.4	1.9	2.9
B3-2N_5	26.28	0.2	14.3	2.2	2.9	2.9	4.4
B3-2N_5IC	49.73	3.8	8.3	4.1	0.9	4.1	6.2
B3-2N_6	33.33	1.8	16.0	2.8	3.0	3.0	4.5
B3-2N_Reedy	41.43	0.0	21.0	3.5	4.4	4.4	6.6

ALIGNMENT 3-2S

Basin	Area (ac)	Existing Impervious Area (ac)	Proposed Impervious Area (ac)	Treatment Volume - Basin (ac-ft)	Treatment Volume - Impervious Area (ac-ft)	Treatment Volume Required (ac-ft)	Additional 50% Treatment Volume (ac-ft)
B3-2S_1	32.28	8.6	20.7	2.7	2.5	2.7	4.0
B3-2S_2	42.92	3.9	27.7	3.6	5.0	5.0	7.4
B3-2S_3	26.80	2.1	17.0	2.2	3.1	3.1	4.6
B3-2S_4	19.28	0.0	11.0	1.6	2.3	2.3	3.4
B3-2S_4IC	24.41	2.1	4.3	2.0	0.5	2.0	3.1
B3-2S_5	26.28	0.2	14.3	2.2	2.9	2.9	4.4
B3-2S_5IC	49.74	3.8	8.3	4.1	0.9	4.1	6.2
B3-2S_6	33.33	1.8	16.0	2.8	3.0	3.0	4.5
B3-2S_Reedy	41.43	0.0	21.0	3.5	4.4	4.4	6.6

ALIGNMENT 3-5N

Basin	Area (ac)	Existing Impervious Area (ac)	Proposed Impervious Area (ac)	Treatment Volume - Basin (ac-ft)	Treatment Volume - Impervious Area (ac-ft)	Treatment Volume Required (ac-ft)	Additional 50% Treatment Volume (ac-ft)
B3-5N_1	23.23	6.5	14.6	1.9	1.7	1.9	2.9
B3-5N_2	42.90	4.3	27.8	3.6	4.9	4.9	7.4
B3-5N_3	29.78	3.0	19.2	2.5	3.4	3.4	5.1
B3-5N_4	19.63	0.0	11.3	1.6	2.4	2.4	3.5
B3-5N_4IC	17.78	1.6	3.2	1.5	0.3	1.5	2.2
B3-5N_5	17.47	0.3	9.9	1.5	2.0	2.0	3.0
B3-5N_5IC	42.98	3.2	7.2	3.6	0.8	3.6	5.4
B3-5N_6	33.67	1.8	16.2	2.8	3.0	3.0	4.5
B3-5N_Reedy	43.72	0.0	22.2	3.6	4.6	4.6	6.9

REFERENCE COPY

ALIGNMENT 3-5S

Basin	Area (ac)	Existing Impervious Area (ac)	Proposed Impervious Area (ac)	Treatment Volume - Basin (ac-ft)	Treatment Volume - Impervious Area (ac-ft)	Treatment Volume Required (ac-ft)	Additional 50% Treatment Volume (ac-ft)
B3-5S_1	32.28	8.6	21.1	2.7	2.6	2.7	4.0
B3-5S_2	42.92	3.9	28.4	3.6	5.1	5.1	7.7
B3-5S_3	27.15	2.5	17.4	2.3	3.1	3.1	4.7
B3-5S_4	21.34	0.0	11.7	1.8	2.4	2.4	3.6
B3-5S_4IC	21.21	1.9	3.8	1.8	0.4	1.8	2.7
B3-5S_5	17.47	0.3	9.9	1.5	2.0	2.0	3.0
B3-5S_5IC	42.99	3.2	7.2	3.6	0.8	3.6	5.4
B3-5S_6	33.67	1.8	16.2	2.8	3.0	3.0	4.5
B3-5S_Reedy	43.72	0.0	22.2	3.6	4.6	4.6	6.9

ALIGNMENT 3A-3

Basin	Area (ac)	Existing Impervious Area (ac)	Proposed Impervious Area (ac)	Treatment Volume - Basin (ac-ft)	Treatment Volume - Impervious Area (ac-ft)	Treatment Volume Required (ac-ft)	Additional 50% Treatment Volume (ac-ft)
B3A-3_1	25.36	0.0	12.2	2.1	2.5	2.5	3.8
B3A-3_2	46.72	0.0	22.5	3.9	4.7	4.7	7.0
B3A-3_3	40.59	0.0	23.4	3.4	4.9	4.9	7.3
B3A-3_3IC	28.34	3.0	4.3	2.4	0.3	2.4	3.5
B3A-3_4	25.10	0.3	13.0	2.1	2.6	2.6	3.9
B3A-3_4IC	64.00	4.2	9.5	5.3	1.1	5.3	8.0
B3A-3_5	39.60	3.1	19.1	3.3	3.3	3.3	5.0
B3A-3_Reedy	39.91	0.0	0.0	3.3	0.0	3.3	5.0

ALIGNMENT 3A-5

Basin	Area (ac)	Existing Impervious Area (ac)	Proposed Impervious Area (ac)	Treatment Volume - Basin (ac-ft)	Treatment Volume - Impervious Area (ac-ft)	Treatment Volume Required (ac-ft)	Additional 50% Treatment Volume (ac-ft)
B3A-5_1	25.36	0.0	12.2	2.1	2.5	2.5	3.8
B3A-5_2	46.72	0.0	22.5	3.9	4.7	4.7	7.0
B3A-5_3	38.36	0.0	20.8	3.2	4.3	4.3	6.5
B3A-5_3IC	35.34	3.0	6.2	2.9	0.7	2.9	4.4
B3A-5_4	24.57	0.3	12.8	2.0	2.6	2.6	3.9
B3A-5_4IC	66.75	3.2	9.3	5.6	1.3	5.6	8.3
B3A-5_5	33.67	1.8	16.2	2.8	3.0	3.0	4.5
B3A-5_Reedy	43.72	0.0	21.7	3.6	4.5	4.5	6.8

REFERENCE COPY

I-4 INTERCHANGE ALTERNATIVES

Basin	Area (ac)	Existing Impervious Area (ac)	Proposed Impervious Area (ac)	Treatment Volume - Basin (ac-ft)	Treatment Volume - Impervious Area (ac-ft)	Treatment Volume Required[(1)] (ac-ft)	Additional 50% Treatment Volume (ac-ft)
B532_ALT1A	192.72	74.3	98.1	16.1	5.0	5.0	7.4
B532_ALT2	187.19	72.2	92.4	15.6	4.2	4.2	6.3
B532_ALT3	194.13	66.5	92.3	16.2	5.4	5.4	8.1
B429_ALT3	406.63	109.6	188.3	33.9	16.4	16.4	24.6
B429_ALT4	358.92	104.1	165.8	29.9	12.8	12.8	19.3

(1) Assume additional impervious area governs due to previous BTU interchange stormwater ponds in place

Project: CFX Feasibility Study: I-4 / Poinciana Parkway Connector
County: Osceola & Polk

Table A.3 - Floodplain Impacts

ALIGNMENT 2A-1

Basin	Floodplain Impact IDs	Floodplain Impacts Total (ac-ft)
B2A-1_2	6,8	14.6
B2A-1_3	17,18	9.2
B2A-1_3IC	6,7,8,17	14.3
B2A-1_4	20,21,23,24,25	10.1
B2A-1_5	27,29	12.0
B2A-1_5IC	25,27	9.7
B2A-1_6	30	9.1
B2A-1_7	32	0.5

Total Volume Impact	**79 ac-ft**
Total 100-yr Area Impact	**67 ac**

REFERENCE COPY

ALIGNMENT 2A-2

Basin	Floodplain Impact IDs	Floodplain Impacts Total (ac-ft)
B2A-2_2	6,8	14.6
B2A-2_3	17,18	12.4
B2A-2_3IC	6,7,8,17	16.5
B2A-2_4	21,22	7.8
B2A-2_4IC	21,22,25,26	19.7
B2A-2_5	33	5.7
B2A-2_Reedy	26,28	15.0

Total Volume Impact	**92 ac-ft**
Total 100-yr Area Impact	**73 ac**

ALIGNMENT 2A-3

Basin	Floodplain Impact IDs	Floodplain Impacts Total (ac-ft)
B2A-3_2	6,8	12.6
B2A-3_3	17,18	22.1
B2A-3_3IC	8,17,18	22.7
B2A-3_4	21,22	3.0
B2A-3_4IC	21,22,25,26	12.3
B2A-3_5	31,33	13.7
B2A-3_Reedy	26	1.6

Total Volume Impact	**88 ac-ft**
Total 100-yr Area Impact	**61 ac**

ALIGNMENT 2A-4

Basin	Floodplain Impact IDs	Floodplain Impacts Total (ac-ft)
B2A-4_2	6,7	17.5
B2A-4_3	--	0.0
B2A-4_3IC	--	0.0
B2A-4_4	--	0.0
B2A-4_4IC	22,26,34,37	10.9
B2A-4_5	31,33	8.6
B2A-4_Reedy	26,28	21.0

REFERENCE COPY

Total Volume Impact	**58 ac-ft**
Total 100-yr Area Impact	**48 ac**

ALIGNMENT 2A-5

Basin	Floodplain Impact IDs	Floodplain Impacts Total (ac-ft)
B2A-5_2	6,7	17.5
B2A-5_3	--	0.0
B2A-5_3IC	--	0.0
B2A-5_4	37	1.9
B2A-5_4IC	22,26,34,37	7.3
B2A-5_5	33	5.3
B2A-5_Reedy	26,34	12.7

Total Volume Impact	**45 ac-ft**
Total 100-yr Area Impact	**61 ac**

ALIGNMENT 3-2N

Basin	Floodplain Impact IDs	Floodplain Impacts Total (ac-ft)
B3-2N_1	--	0.0
B3-2N_2	15	3.6
B3-2N_3	16	0.6
B3-2N_4	17,18	8.5
B3-2N_4IC	17	1.4
B3-2N_5	21,22	7.7
B3-2N_5IC	21,22,25,26	19.5
B3-2N_6	33	5.7
B3-2N_Reedy	26,28	15.0

Total Volume Impact	**62 ac-ft**
Total 100-yr Area Impact	**62 ac**

ALIGNMENT 3-2S

Basin	Floodplain Impact IDs	Floodplain Impacts Total (ac-ft)
B3-2S_1	11	0.8
B3-2S_2	15	3.9
B3-2S_3	16,17	3.4
B3-2S_4	17,18	12.5
B3-2S_4IC	17	4.9
B3-2S_5	21,22	7.8
B3-2S_5IC	21,22,25,26	19.6
B3-2S_6	33	5.7
B3-2S_Reedy	26,28	15.0

Total Volume Impact	**74 ac-ft**
Total 100-yr Area Impact	**67 ac**

REFERENCE COPY

ALIGNMENT 3-5N

Basin	Floodplain Impact IDs	Floodplain Impacts Total (ac-ft)
B3-5N_1	--	0.0
B3-5N_2	15	3.6
B3-5N_3	16	0.5
B3-5N_4	19	2.3
B3-5N_4IC	19	0.2
B3-5N_5	37	2.0
B3-5N_5IC	22,36,34,37	11.6
B3-5N_6	33	13.5
B3-5N_Reedy	26,34	20.9

Total Volume Impact	**55 ac-ft**
Total 100-yr Area Impact	**51 ac**

ALIGNMENT 3-5S

Basin	Floodplain Impact IDs	Floodplain Impacts Total (ac-ft)
B3-5S_1	11	0.8
B3-5S_2	15	3.9
B3-5S_3	16,17	3.4
B3-5S_4	19	3.0
B3-5S_4IC	19	0.8
B3-5S_5	37	2.0
B3-5S_5IC	22,26,34,37	12.3
B3-5S_6	33	13.5
B3-5S_Reedy	26,34	20.9

Total Volume Impact	**61 ac-ft**
Total 100-yr Area Impact	**56 ac**

REFERENCE COPY

ALIGNMENT 3A-3

Basin	Floodplain Impact IDs	Floodplain Impacts Total (ac-ft)
B3A-3_1	12	24.5
B3A-3_2	13, 15, 38	20.5
B3A-3_3	15, 16,17, 18, 19	19.8
B3A-3_3IC	16,17	10.8
B3A-3_4	19, 22, 26, 37	5.7
B3A-3_4IC	22,25,26,37	18.6
B3A-3_5	31, 32, 33, 34	3.1
B3A-3_Reedy	26,28	10.6

Total Volume Impact	**114 ac-ft**
Total 100-yr Area Impact	**107 ac**

ALIGNMENT 3A-5

Basin	Floodplain Impact IDs	Floodplain Impacts Total (ac-ft)
B3A-5_1	12	24.5
B3A-5_2	13,15,38	20.5
B3A-5_3	15 - 19	23.9
B3A-5_3IC	16,17,18	16.6
B3A-5_4	17, 19, 37	9.7
B3A-5_4IC	17-19, 22,26,28, 34,37	19.2
B3A-5_5	33, 34	13.5
B3A-5_Reedy	26,28,34	20.9

Total Volume Impact	**149 ac-ft**
Total 100-yr Area Impact	**125 ac**

REFERENCE COPY

I-4 INTERCHANGE ALTERNATIVES

Basin	Floodplain Impact IDs	Floodplain Impacts Total (ac-ft)	Total 100-yr Area Impact (ac)
B532_ALT1A	9,10,61,62,63,64,65,66,67,68	**17**	**15**
B532_ALT2	61,62,63,64,65,66,67	**15**	**14**
B532_ALT3	12,61,62,63,64,65,66,67	**29**	**32**
B429_ALT3	1,2,3,4,5,39,40,41,42,43,46,48,49,50,61,62,63	**149**	**59**
B429_ALT4	1,3,4,5,39,40,43,44,45,46,47,48,49,50,61,62,63	**97**	**41**

REFERENCE COPY

Project: CFX Feasibility Study: I-4 / Poinciana Parkway Connector
County: Osceola & Polk

Table A.4 - Pond Sizing Calculations

Alternative 2A-1 MAINLINE

Basin	Required Volume	Additional Percent for Landscaping / Maintenance Berm	Design Depth	Required Pond Area*
	ac-ft	pct	ft	ac
B2A-1_2	20.9	20%	3	9.0
B2A-1_3	15.4	20%	3	6.7
B2A-1_4	19.3	20%	3	8.3
B2A-1_5	16.2	20%	3	7.0
B2A-1_6	13.7	20%	3	6.0
B2A-1_7	5.6	20%	3	2.6

*Top of pond bank, Assumes 1 foot of freeboard, Assumes square shape, 4:1 slopes

Alternative 2A-1 INTERCHANGES

Basin	Interchange Location	Required Volume	Additional Percent for Landscaping / Maintenance Berm	Design Depth	Required Pond Area*	Available Infield Pond Area	Required Pond Area Outside of Infield
		ac-ft	pct	ft	ac	ac	ac
B2A-1_3IC	Osceola Polk Line Rd	23.7	20%	3	10.1	30.2	0.0
B2A-1_5IC	US 17-92	11.9	20%	3	5.2	2.8	2.4

*Top of pond bank, Assumes 1 foot of freeboard, Assumes square shape, 4:1 slopes

REFERENCE COPY

ALIGNMENT 2A_2 MAINLINE

Basin	Required Volume	Additional Percent for Landscaping / Maintenance Berm	Design Depth	Required Pond Area*
	ac-ft	pct	ft	ac
B2A-2_2	20.9	20%	3	9.0
B2A-2_3	18.4	20%	3	7.9
B2A-2_4	12.0	20%	3	5.3
B2A-2_5	12.5	20%	3	5.5
B2A-2_Reedy	21.5	20%	3	9.2

*Top of pond bank, Assumes 1 foot of freeboard, Assumes square shape, 4:1 slopes

ALIGNMENT 2A_2 INTERCHANGES

Basin	Interchange Location	Required Volume	Additional Percent for Landscaping / Maintenance Berm	Design Depth	Required Pond Area*	Available Infield Pond Area	Required Pond Area Outside of Infield
		ac-ft	pct	ft	ac	ac	ac
B2A-2_3IC	Osceola Polk Line Rd	25.9	20%	3	11.0	30.3	0.0
B2A-2_4IC	US 17-92	27.2	20%	3	11.6	24.0	0.0

*Top of pond bank, Assumes 1 foot of freeboard, Assumes square shape, 4:1 slopes

ALIGNMENT 2A_3 MAINLINE

Basin	Required Volume	Additional Percent for Landscaping / Maintenance Berm	Design Depth	Required Pond Area*
	ac-ft	pct	ft	ac
B2A-3_2	18.6	20%	3	8.0
B2A-3_3	28.1	20%	3	12.0
B2A-3_4	7.0	20%	3	3.2
B2A-3_5	20.8	20%	3	8.9
B2A-3_Reedy	7.5	20%	3	3.4

*Top of pond bank, Assumes 1 foot of freeboard, Assumes square shape, 4:1 slopes

ALIGNMENT 2A_3 INTERCHANGES

Basin	Interchange Location	Required Volume	Additional Percent for Landscaping / Maintenance Berm	Design Depth	Required Pond Area*	Available Infield Pond Area	Required Pond Area Outside of Infield
		ac-ft	pct	ft	ac	ac	ac
B2A-3_3IC	Osceola Polk Line Rd	32.0	20%	3	13.6	31.4	0.0
B2A-3_4IC	US 17-92	19.2	20%	3	8.3	18.0	0.0

*Top of pond bank, Assumes 1 foot of freeboard, Assumes square shape, 4:1 slopes

ALIGNMENT 2A_4 MAINLINE

REFERENCE COPY

Basin	Required Volume	Additional Percent for Landscaping / Maintenance Berm	Design Depth	Required Pond Area*
	ac-ft	pct	ft	ac
B2A-4_2	23.3	20%	3	10.0
B2A-4_3	6.1	20%	3	2.8
B2A-4_4	5.9	20%	3	2.7
B2A-4_5	16.0	20%	3	6.9
B2A-4_Reedy	26.6	20%	3	11.3

*Top of pond bank, Assumes 1 foot of freeboard, Assumes square shape, 4:1 slopes

ALIGNMENT 2A_4 INTERCHANGES

Basin	Interchange Location	Required Volume	Additional Percent for Landscaping / Maintenance Berm	Design Depth	Required Pond Area*	Available Infield Pond Area	Required Pond Area Outside of Infield
		ac-ft	pct	ft	ac	ac	ac
B2A-4_3IC	Osceola Polk Line Rd	4.9	20%	3	2.3	10.2	0.0
B2A-4_4IC	US 17-92	17.2	20%	3	7.4	16.9	0.0

*Top of pond bank, Assumes 1 foot of freeboard, Assumes square shape, 4:1 slopes

ALIGNMENT 2A_5 MAINLINE

Basin	Required Volume	Additional Percent for Landscaping / Maintenance Berm	Design Depth	Required Pond Area*
	ac-ft	pct	ft	ac
B2A-5_2	23.3	20%	3	10.0
B2A-5_3	6.1	20%	3	2.8
B2A-5_4	9.6	20%	3	4.3
B2A-5_5	12.0	20%	3	5.3
B2A-5_Reedy	19.5	20%	3	8.4

*Top of pond bank, Assumes 1 foot of freeboard, Assumes square shape, 4:1 slopes

ALIGNMENT 2A_5 INTERCHANGES

Basin	Interchange Location	Required Volume	Additional Percent for Landscaping / Maintenance Berm	Design Depth	Required Pond Area*	Available Infield Pond Area	Required Pond Area Outside of Infield
		ac-ft	pct	ft	ac	ac	ac
B2A-5_3IC	Osceola Polk Line Rd	5.0	20%	3	2.3	10.6	0.0
B2A-5_4IC	US 17-92	15.5	20%	3	6.7	28.9	0.0

*Top of pond bank, Assumes 1 foot of freeboard, Assumes square shape, 4:1 slopes

ALIGNMENT 3_2N MAINLINE

REFERENCE COPY

Basin	Required Volume	Additional Percent for Landscaping / Maintenance Berm	Design Depth	Required Pond Area*
	ac-ft	pct	ft	ac
B3-2N_1	6.0	20%	3	2.7
B3-2N_2	19.1	20%	3	8.2
B3-2N_3	8.2	20%	3	3.7
B3-2N_4	13.0	20%	3	5.7
B3-2N_5	12.1	20%	3	5.3
B3-2N_6	12.5	20%	3	5.5
B3-2N_Reedy	21.6	20%	3	9.3

*Top of pond bank, Assumes 1 foot of freeboard, Assumes square shape, 4:1 slopes

ALIGNMENT 3_2N INTERCHANGES

Basin	Interchange Location	Required Volume	Additional Percent for Landscaping / Maintenance Berm	Design Depth	Required Pond Area*	Available Infield Pond Area	Required Pond Area Outside of Infield
		ac-ft	pct	ft	ac	ac	ac
B3-2N_4IC	Osceola Polk Line Rd	4.4	20%	3	2.0	5.3	0.0
B3-2N_5IC	US 17-92	25.7	20%	3	11.0	15.6	0.0

*Top of pond bank, Assumes 1 foot of freeboard, Assumes square shape, 4:1 slopes

ALIGNMENT 3_2S MAINLINE

Basin	Required Volume	Additional Percent for Landscaping / Maintenance Berm	Design Depth	Required Pond Area*
	ac-ft	pct	ft	ac
B3-2S_1	8.9	20%	3	4.0
B3-2S_2	18.6	20%	3	8.0
B3-2S_3	9.6	20%	3	4.3
B3-2S_4	17.1	20%	3	7.4
B3-2S_5	12.2	20%	3	5.4
B3-2S_6	12.5	20%	3	5.5
B3-2S_Reedy	21.6	20%	3	9.3

*Top of pond bank, Assumes 1 foot of freeboard, Assumes square shape, 4:1 slopes

ALIGNMENT 3_2S INTERCHANGES

Basin	Interchange Location	Required Volume	Additional Percent for Landscaping / Maintenance Berm	Design Depth	Required Pond Area*	Available Infield Pond Area	Required Pond Area Outside of Infield
		ac-ft	pct	ft	ac	ac	ac
B3-2S_4IC	Osceola Polk Line Rd	8.1	20%	3	3.6	8.1	0.0
B3-2S_5IC	US 17-92	25.8	20%	3	11.0	15.6	0.0

*Top of pond bank, Assumes 1 foot of freeboard, Assumes square shape, 4:1 slopes

ALIGNMENT 3_5N MAINLINE

REFERENCE COPY

Basin	Required Volume	Additional Percent for Landscaping / Maintenance Berm	Design Depth	Required Pond Area*
	ac-ft	pct	ft	ac
B3-5N_1	6.0	20%	3	2.7
B3-5N_2	19.3	20%	3	8.3
B3-5N_3	8.8	20%	3	3.9
B3-5N_4	7.9	20%	3	3.5
B3-5N_5	6.2	20%	3	2.8
B3-5N_6	20.2	20%	3	8.7
B3-5N_Reedy	27.8	20%	3	11.8

*Top of pond bank, Assumes 1 foot of freeboard, Assumes square shape, 4:1 slopes

ALIGNMENT 3_5N INTERCHANGES

Basin	Interchange Location	Required Volume	Additional Percent for Landscaping / Maintenance Berm	Design Depth	Required Pond Area*	Available Infield Pond Area	Required Pond Area Outside of Infield
		ac-ft	pct	ft	ac	ac	ac
B3-5N_4IC	Osceola Polk Line Rd	2.7	20%	3	1.3	1.0	0.3
B3-5N_5IC	US 17-92	17.0	20%	3	7.4	10.6	0.0

*Top of pond bank, Assumes 1 foot of freeboard, Assumes square shape, 4:1 slopes

ALIGNMENT 3_5S MAINLINE

Basin	Required Volume	Additional Percent for Landscaping / Maintenance Berm	Design Depth	Required Pond Area*
	ac-ft	pct	ft	ac
B3-5S_1	9.2	20%	3	4.1
B3-5S_2	19.3	20%	3	8.3
B3-5S_3	9.7	20%	3	4.3
B3-5S_4	8.7	20%	3	3.9
B3-5S_5	6.2	20%	3	2.8
B3-5S_6	20.2	20%	3	8.7
B3-5S_Reedy	27.8	20%	3	11.8

*Top of pond bank, Assumes 1 foot of freeboard, Assumes square shape, 4:1 slopes

ALIGNMENT 3_5S INTERCHANGES

Basin	Interchange Location	Required Volume	Additional Percent for Landscaping / Maintenance Berm	Design Depth	Required Pond Area*	Available Infield Pond Area	Required Pond Area Outside of Infield
		ac-ft	pct	ft	ac	ac	ac
B3-5S_4IC	Osceola Polk Line Rd	3.9	20%	3	1.8	3.8	0.0
B3-5S_5IC	US 17-92	17.7	20%	3	7.6	10.6	0.0

*Top of pond bank, Assumes 1 foot of freeboard, Assumes square shape, 4:1 slopes

ALIGNMENT 3A_3 MAINLINE

REFERENCE COPY

Basin	Required Volume	Additional Percent for Landscaping / Maintenance Berm	Design Depth	Required Pond Area*
	ac-ft	pct	ft	ac
B3A-3_1	29.9	20%	3	12.7
B3A-3_2	27.5	20%	3	11.7
B3A-3_3	27.4	20%	3	11.7
B3A-3_4	10.9	20%	3	4.8
B3A-3_5	11.0	20%	3	4.9
B3A-3_Reedy	15.6	20%	3	6.8

*Top of pond bank, Assumes 1 foot of freeboard, Assumes square shape, 4:1 slopes

ALIGNMENT 3A_3 INTERCHANGES

Basin	Interchange Location	Required Volume	Additional Percent for Landscaping / Maintenance Berm	Design Depth	Required Pond Area*	Available Infield Pond Area	Required Pond Area Outside of Infield
		ac-ft	pct	ft	ac	ac	ac
B3A-3_3IC	Osceola Polk Line Rd	14.3	20%	3	6.2	0.0	6.2
B3A-3_4IC	US 17-92	26.6	20%	3	11.3	24.3	0.0

*Top of pond bank, Assumes 1 foot of freeboard, Assumes square shape, 4:1 slopes

ALIGNMENT 3A_5 MAINLINE

Basin	Required Volume	Additional Percent for Landscaping / Maintenance Berm	Design Depth	Required Pond Area*
	ac-ft	pct	ft	ac
B3A-5_1	29.9	20%	3	12.7
B3A-5_2	27.5	20%	3	11.7
B3A-5_3	30.4	20%	3	12.9
B3A-5_4	15.1	20%	3	6.6
B3A-5_5	20.2	20%	3	8.7
B3A-5_Reedy	27.7	20%	3	11.8

*Top of pond bank, Assumes 1 foot of freeboard, Assumes square shape, 4:1 slopes

ALIGNMENT 3A_5 INTERCHANGES

Basin	Interchange Location	Required Volume	Additional Percent for Landscaping / Maintenance Berm	Design Depth	Required Pond Area*	Available Infield Pond Area	Required Pond Area Outside of Infield
		ac-ft	pct	ft	ac	ac	ac
B3A-5_3IC	Osceola Polk Line Rd	21.0	20%	3	9.0	1.2	7.8
B3A-5_4IC	US 17-92	27.5	20%	3	11.7	27.0	0.0

*Top of pond bank, Assumes 1 foot of freeboard, Assumes square shape, 4:1 slopes

I-4 INTERCHANGE ALTERNATIVES

REFERENCE COPY

Basin	Interchange Location	Required Volume	Additional Percent for Landscaping / Maintenance Berm	Design Depth	Required Pond Area*	Available Infield Pond Area	Required Pond Area Outside of Infield
		ac-ft	pct	ft	ac	ac	ac
B532_ALT1A	I-4 & SR 532	24.3	20%	3	10.4	0.0	10.4
B532_ALT2	I-4 & SR 532	20.9	20%	3	9.0	0.0	9.0
B532_ALT3	I-4 & SR 532	37.5	20%	3	15.8	0.0	15.8
B429_ALT3	I-4 & SR 429	191.4	20%	3	78.4	0.0	78.4
B429_ALT4	I-4 & SR 429	130.8	20%	3	53.8	0.0	53.8

*Top of pond bank, Assumes 1 foot of freeboard, Assumes square shape, 4:1 slopes

Project: CFX Feasibility Study: I-4 / Poinciana Parkway Connector
County: Osceola & Polk

Table A.5 - Pond Quantity Calculations

Alternative 2A-1 MAINLINE

Basin	Required Volume	Pond Area	PPV	Total Excavation Volume	Total Excavation Volume	Total Sodding
	ac-ft	ac	ac-ft	ac-ft	CY	SY
B2A-1_2	20.9	9.0	67.0	87.9	141,837	11,188
B2A-1_3	15.4	6.7	47.6	63.0	101,631	8,789
B2A-1_4	19.3	8.3	61.3	80.6	130,077	10,500
B2A-1_5	16.2	7.0	50.4	66.6	107,437	9,145
B2A-1_6	13.7	6.0	41.7	55.4	89,350	8,026
B2A-1_7	5.6	2.6	14.6	20.2	32,589	4,125

Alternative 2A-1 INTERCHANGES

Basin	Required Volume	Pond Area	PPV	Total Excavation Volume	Total Excavation Volume	Total Sodding
	ac-ft	ac	ac-ft	ac-ft	CY	SY
B2A-1_3IC	23.7	10.1	77.0	100.7	162,518	12,377
B2A-1_5IC	11.9	5.2	35.5	47.4	76,448	7,202

REFERENCE COPY

Alternative 2A-2 MAINLINE

Basin	Required Volume	Pond Area	PPV	Total Excavation Volume	Total Excavation Volume	Total Sodding
	ac-ft	ac	ac-ft	ac-ft	CY	SY
B2A-2_2	20.9	9.0	67.0	87.9	141,837	11,188
B2A-2_3	18.4	7.9	58.1	76.5	123,484	10,109
B2A-2_4	12.0	5.3	35.8	47.8	77,162	7,249
B2A-2_Reedy	12.5	5.5	37.5	50.0	80,736	7,479
B2A-2_5	21.5	9.2	69.2	90.7	146,258	11,445

Alternative 2A-2 INTERCHANGES

Basin	Required Volume	Pond Area	PPV	Total Excavation Volume	Total Excavation Volume	Total Sodding
	ac-ft	ac	ac-ft	ac-ft	CY	SY
B2A-2_3IC	25.9	11.0	85.0	110.9	178,844	13,300
B2A-2_4IC	27.2	11.6	89.7	116.9	188,520	13,841

Alternative 2A-3 MAINLINE

Basin	Required Volume	Pond Area	PPV	Total Excavation Volume	Total Excavation Volume	Total Sodding
	ac-ft	ac	ac-ft	ac-ft	CY	SY
B2A-3_2	18.6	8.0	58.8	77.4	124,947	10,196
B2A-3_3	28.1	12.0	92.9	121.0	195,230	14,214
B2A-3_4	7.0	3.2	19.1	26.1	42,087	4,846
B2A-3_Reedy	20.8	8.9	66.7	87.5	141,101	11,145
B2A-3_5	7.5	3.4	20.7	28.2	45,524	5,097

Alternative 2A-3 INTERCHANGES

Basin	Required Volume	Pond Area	PPV	Total Excavation Volume	Total Excavation Volume	Total Sodding
	ac-ft	ac	ac-ft	ac-ft	CY	SY
B2A-3_3IC	32.0	13.6	107.1	139.1	224,403	15,816
B2A-3_4IC	19.2	8.3	61.0	80.2	129,344	10,457

Alternative 2A-4 MAINLINE

Basin	Required Volume	Pond Area	PPV	Total Excavation Volume	Total Excavation Volume	Total Sodding
	ac-ft	ac	ac-ft	ac-ft	CY	SY
B2A-4_2	23.3	10.0	75.6	98.9	159,556	12,209
B2A-4_3	6.1	2.8	16.2	22.3	35,958	4,386
B2A-4_4	5.9	2.7	15.6	21.5	34,607	4,283
B2A-4_Reedy	16.0	6.9	49.7	65.7	105,984	9,056
B2A-4_5	26.6	11.3	87.5	114.1	184,052	13,592

REFERENCE COPY

Alternative 2A-4 INTERCHANGES

Basin	Required Volume	Pond Area	PPV	Total Excavation Volume	Total Excavation Volume	Total Sodding
	ac-ft	ac	ac-ft	ac-ft	CY	SY
B2A-4_3IC	4.9	2.3	12.4	17.3	27,925	3,752
B2A-4_4IC	17.2	7.4	53.9	71.1	114,718	9,585

Alternative 2A-5 MAINLINE

Basin	Required Volume	Pond Area	PPV	Total Excavation Volume	Total Excavation Volume	Total Sodding
	ac-ft	ac	ac-ft	ac-ft	CY	SY
B2A-5_2	23.3	10.0	75.6	98.9	159,556	12,209
B2A-5_3	6.1	2.8	16.2	22.3	35,958	4,386
B2A-5_4	9.6	4.3	27.7	37.3	60,152	6,122
B2A-5_Reedy	12.0	5.3	35.8	47.8	77,162	7,249
B2A-5_5	19.5	8.4	62.0	81.5	131,545	10,586

Alternative 2A-5 INTERCHANGES

Basin	Required Volume	Pond Area	PPV	Total Excavation Volume	Total Excavation Volume	Total Sodding
	ac-ft	ac	ac-ft	ac-ft	CY	SY
B2A-5_3IC	5.0	2.3	12.7	17.7	28,587	3,806
B2A-5_4IC	15.5	6.7	47.9	63.4	102,356	8,834

Alternative 3-2N MAINLINE

Basin	Required Volume	Pond Area	PPV	Total Excavation Volume	Total Excavation Volume	Total Sodding
	ac-ft	ac	ac-ft	ac-ft	CY	SY
B3-2N_1	6.0	2.7	15.9	21.9	35,282	4,335
B3-2N_2	19.1	8.2	60.6	79.7	128,611	10,413
B3-2N_3	8.2	3.7	23.0	31.2	50,368	5,444
B3-2N_4	13.0	5.7	39.3	52.3	84,319	7,708
B3-2N_5	12.1	5.3	36.2	48.3	77,876	7,295
B3-2N_Reedy	12.5	5.5	37.5	50.0	80,736	7,479
B3-2N_6	21.6	9.3	69.5	91.1	146,996	11,487

REFERENCE COPY

Alternative 3-2N INTERCHANGES

Basin	Required Volume	Pond Area	PPV	Total Excavation Volume	Total Excavation Volume	Total Sodding
	ac-ft	ac	ac-ft	ac-ft	CY	SY
B3-2N_4IC	4.4	2.0	10.9	15.3	24,637	3,479
B3-2N_5IC	25.7	11.0	84.2	109.9	177,358	13,217

Alternative 3-2S MAINLINE

Basin	Required Volume	Pond Area	PPV	Total Excavation Volume	Total Excavation Volume	Total Sodding
	ac-ft	ac	ac-ft	ac-ft	CY	SY
B3-2S_1	8.9	4.0	25.3	34.2	55,245	5,785
B3-2S_2	18.6	8.0	58.8	77.4	124,947	10,196
B3-2S_3	9.6	4.3	27.7	37.3	60,152	6,122
B3-2S_4	17.1	7.4	53.6	70.7	113,989	9,541
B3-2S_5	12.2	5.4	36.5	48.7	78,590	7,341
B3-2S_Reedy	12.5	5.5	37.5	50.0	80,736	7,479
B3-2S_6	21.6	9.3	69.5	91.1	146,996	11,487

Alternative 3-2S INTERCHANGES

Basin	Required Volume	Pond Area	PPV	Total Excavation Volume	Total Excavation Volume	Total Sodding
	ac-ft	ac	ac-ft	ac-ft	CY	SY
B3-2S_4IC	8.1	3.6	22.7	30.8	49,674	5,395
B3-2S_5IC	25.8	11.0	84.6	110.4	178,101	13,259

Alternative 3-5N MAINLINE

REFERENCE COPY

Basin	Required Volume	Pond Area	PPV	Total Excavation Volume	Total Excavation Volume	Total Sodding
	ac-ft	ac	ac-ft	ac-ft	CY	SY
B3-5N_1	6.0	2.7	15.9	21.9	35,282	4,335
B3-5N_2	19.3	8.3	61.3	80.6	130,077	10,500
B3-5N_3	8.8	3.9	25.0	33.8	54,546	5,736
B3-5N_4	7.9	3.5	22.0	29.9	48,287	5,296
B3-5N_5	6.2	2.8	16.5	22.7	36,635	4,438
B3-5N_Reedy	20.2	8.7	64.5	84.7	136,687	10,888
B3-5N_6	27.8	11.8	91.8	119.6	192,993	14,090

Alternative 3-5N INTERCHANGES

Basin	Required Volume	Pond Area	PPV	Total Excavation Volume	Total Excavation Volume	Total Sodding
	ac-ft	ac	ac-ft	ac-ft	CY	SY
B3-5N_4IC	3.9	1.3	5.9	9.8	15,780	2,493
B3-5N_5IC	17.7	7.4	53.2	70.9	114,389	9,497

Alternative 3-5S MAINLINE

Basin	Required Volume	Pond Area	PPV	Total Excavation Volume	Total Excavation Volume	Total Sodding
	ac-ft	ac	ac-ft	ac-ft	CY	SY
B3-5S_1	9.2	4.1	26.3	35.5	57,344	5,930
B3-5S_2	19.3	8.3	61.3	80.6	130,077	10,500
B3-5S_3	9.7	4.3	28.0	37.7	60,855	6,170
B3-5S_4	8.7	3.9	24.7	33.4	53,848	5,688
B3-5S_5	6.2	2.8	16.5	22.7	36,635	4,438
B3-5S_Reedy	20.2	8.7	64.5	84.7	136,687	10,888
B3-5S_6	27.8	11.8	91.8	119.6	192,993	14,090

Alternative 3-5S INTERCHANGES

Basin	Required Volume	Pond Area	PPV	Total Excavation Volume	Total Excavation Volume	Total Sodding
	ac-ft	ac	ac-ft	ac-ft	CY	SY
B3-5S_4IC	3.9	1.8	9.4	13.3	21,392	3,199
B3-5S_5IC	17.7	7.6	55.7	73.4	118,366	9,804

Alternative 3A-3 MAINLINE

REFERENCE COPY

Basin	Required Volume	Pond Area	PPV	Total Excavation Volume	Total Excavation Volume	Total Sodding
	ac-ft	ac	ac-ft	ac-ft	CY	SY
B3A-3_1	29.9	12.7	99.4	129.3	208,676	14,956
B3A-3_2	27.5	11.7	90.7	118.2	190,756	13,966
B3A-3_3	27.4	11.7	90.4	117.8	190,011	13,924
B3A-3_4	10.9	4.8	32.1	43.0	69,333	6,737
B3A-3_Reedy	11.0	4.9	32.4	43.4	70,043	6,784
B3A-3_5	15.6	6.8	48.3	63.9	103,081	8,878

Alternative 3A-3 INTERCHANGES

Basin	Required Volume	Pond Area	PPV	Total Excavation Volume	Total Excavation Volume	Total Sodding
	ac-ft	ac	ac-ft	ac-ft	CY	SY
B3A-3_3IC	14.3	6.2	43.8	58.1	93,675	8,297
B3A-3_4IC	26.6	11.3	87.5	114.1	184,052	13,592

Alternative 3A-5 MAINLINE

Basin	Required Volume	Pond Area	PPV	Total Excavation Volume	Total Excavation Volume	Total Sodding
	ac-ft	ac	ac-ft	ac-ft	CY	SY
B3A-5_1	29.9	12.7	99.4	129.3	208,676	14,956
B3A-5_2	27.5	11.7	90.7	118.2	190,756	13,966
B3A-5_3	30.4	12.9	101.3	131.7	212,417	15,161
B3A-5_4	15.1	6.6	46.5	61.6	99,458	8,656
B3A-5_Reedy	20.2	8.7	64.5	84.7	136,687	10,888
B3A-5_5	27.7	11.8	91.5	119.2	192,247	14,049

Alternative 3A-5 INTERCHANGES

Basin	Required Volume	Pond Area	PPV	Total Excavation Volume	Total Excavation Volume	Total Sodding
	ac-ft	ac	ac-ft	ac-ft	CY	SY
B3A-5_3IC	21.0	9.0	67.4	88.4	142,574	11,231
B3A-5_4IC	27.5	11.7	90.7	118.2	190,756	13,966

I-4 INTERCHANGE ALTERNATIVES

Basin	Required Volume	Pond Area	PPV	Total Excavation Volume	Total Excavation Volume	Total Sodding
	ac-ft	ac	ac-ft	ac-ft	CY	SY
B532_ALT1A	24.3	10.4	79.2	103.5	166,964	12,630
B532_ALT2	20.9	9.0	67.0	87.9	141,837	11,188
B532_ALT3	37.5	15.8	127.2	164.7	265,769	18,041
B429_ALT3	191.4	78.4	712.1	903.5	1,457,674	75,132
B429_ALT4	130.8	53.8	479.3	610.1	984,244	53,267

REFERENCE COPY

Project: CFX Feasibility Study: I-4 / Poinciana Parkway Connector
County: Osceola & Polk

Table A.6 - Pond Right-of-way Area Summary

Alignment	2A-1	2A-2	2A-3	2A-4	2A-5	3-2N	3-2S	3-5N	3-5S	3A-3	3A-5	532_1A	532_2	532_3	429_3	429_4
Alignment Length (miles)	4.4	3.9	3.8	4.1	4.0	5.5	5.7	5.4	5.6	5.5	5.4	--	--	--	--	--
Number of Mainline Ponds	6	5	5	5	5	7	7	7	7	6	6	--	--	--	--	--
Total Mainline Pond Area (ac)	39.6	36.9	35.5	33.7	30.7	40.4	43.8	41.9	43.9	52.5	64.4	--	--	--	--	--
Mainline Pond Size per Mile (ac/mi)	8.9	9.5	9.3	8.3	7.7	7.4	7.7	7.8	7.9	9.5	11.9	--	--	--	--	--
Number of Interchanges	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1
Total Available Interchange Pond Area (ac)	33.0	54.3	49.3	27.1	39.5	20.8	23.7	11.6	14.4	24.3	28.2	0.0	0.0	0.0	0.0	0.0
Interchange Pond Area Outside of Infield (ac)	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	6.2	7.8	10.4	9.0	15.8	78.4	53.8

Table A.7 - Pond Construction Quantity Summary

Pay Item	2A_1	2A_1 IC	2A_2	2A_2 IC	2A_3	2A_3 IC	2A_4	2A_4 IC	2A_5	2A_5 IC
120-1: Regular Excavation (Pond)	602,922	238,965	569,476	367,365	548,890	353,747	520,157	142,642	464,372	130,943
570-1-2: Performance Sod	51,773	19,580	47,470	27,142	45,500	26,272	43,526	13,337	40,552	12,640

Pay Item	3_2N	3_2N IC	3_2S	3_2S IC	3_5N	3_5N IC	3_5S	3_5S IC
120-1: Regular Excavation (Pond)	604,187	201,994	660,655	227,774	634,508	130,169	668,440	139,759
570-1-2: Performance Sod	54,160	16,696	57,951	18,653	55,283	11,990	57,703	13,004

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Pay Item	3A_3	3A_3 IC	3A_5	3A_5 IC
120-1: Regular Excavation (Pond)	831,899	277,727	1,040,240	333,329
570-1-2: Performance Sod	65,246	21,889	77,676	25,197

Pay Item	532_1A	532_2	532_3	429_3	429_4
120-1: Regular Excavation (Pond)	166,964	141,837	265,769	1,457,674	984,244
570-1-2: Performance Sod	12,630	11,188	18,041	75,132	53,267

APPENDIX K

Location Hydraulics Methodology

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- Table B.3 – Existing Offsite Conveyance Quantities
- Table B.4 – Proposed Offsite Conveyance Summary
- Table B.5 – Proposed Offsite Conveyance Calculations
- Table B.6 – Proposed Time of Concentration Summary
- Table B.7 – Proposed Offsite Time of Concentration Calculations

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Location Hydraulic Analysis Methodology

For the location hydraulic analysis, existing and proposed cross drain locations were identified and the cross drain sizes were estimated. Note this analysis was focused on evaluating for significant offsite water conveyance. This evaluation is not a comprehensive list of all cross drains required for each conceptual corridor, but is meant to provide an inventory for cost comparison purposes. No field review or hydrologic/hydraulic modeling is performed as part of this analysis. The estimates of location and size for the cross drains are a preliminary estimate of what would be required to not create substantial changes in the flood elevations adjacent to the project; however, this cannot be confirmed without further evaluation in future phases.

Along the conceptual corridors, existing and proposed cross drain locations were identified by review of the Digital Elevation Model (DEM), Federal Emergency Management Agency (FEMA) floodplains, National Wetland Inventory, existing permit information, and aerial imagery. The following approaches were used:

1. If there is an existing cross drain currently conveying offsite flow, it is assumed the existing cross drain will be extended in the proposed condition with the same size and material as the current condition. If there is an existing cross drain upstream or downstream within close proximity to the new crossing, the same sized crossing was used.
    - It was noted that the existing upstream crossings along I-4 had larger culvert sizes than closer existing crossings. In these cases, the crossing size at I-4 was used with the assumption that the same level of service will require the larger crossing size.
    - For existing hydraulic crossings that are comprised of a large bubble up structure with an adjacent wildlife crossing, it was assumed that both the hydraulic crossing and wildlife crossing that is impacted will be extended. It was assumed that the proposed crossing would be strictly a cross drain and not a bubble-up structure.

2. In areas where a proposed cross drain location is identified and there is an upstream USGS gage site or monitoring site, with available data, HEC-SSP V2.1.1 was used to calculate the 50-year and 100-year flows from the actual data. This information is provided for reference only. If available, upstream and downstream crossings were reviewed to provide an approximate length of bridge. The only crossing that has a USGS gage site is located along the Davenport Floodway. The existing crossing at I-4 was used to size this crossing.

3. In areas where a proposed cross drain location is identified and there is no existing flow data, the Rational Method (Q=CiA) for basins less than 600 acres will be utilized and for basins greater than 600 acres, the USGS Regression Equations for Florida Region 3 (Q based off of contributing area and percent available storage) will be utilized to determine the design flow. The Continuity Equation, Q= VA, will be applied, using a velocity of 6 feet per second, to determine the required cross sectional area for the proposed cross drain. A pipe or culvert size based on this cross sectional area will be provided for cost purposes.

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Using CatchmentSIM, preliminary basins were delineated using the 2016 Osceola County LiDAR DEM. Basins were reviewed and combined to create upstream contributing areas for each proposed cross drain. Cross drains with a contributing basin less than 15 acres were excluded from analysis.

For basins that use the Rational Method, a time of concentration line was delineated and computed using the overland flow, shallow concentrated flow, and channel flow equations. For each contributing area, the percent impervious area and pervious area was assigned from aerial imagery review. If the basin contained a majority of permitted stormwater management facilities, which would provide significant storage, it was more prudent to assume an undeveloped condition, using historic aerials. The assumption being that permitted stormwater ponds are designed to attenuate the post-development peak flow so as not to be greater than the pre-development peak flow rate. If the developed condition was assumed but the storage was not accounted for, then the contributing flow would be largely overestimated.

For basins that use the Regression Equations, storage area was determined from the U.S. Geological Survey (USGS) National Hydrography Dataset (NHD) and U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI). These storage areas are reviewed to insure storage is still provided within the current condition, and for any areas that have been drained for agricultural production were removed.

Proposed cross drains are sized for the 50-year design storm event unless the corridor crosses a FEMA regulated floodway, then the 100-year storm event is the design storm event. The Davenport Floodway is the only regulated floodway that is crossed along the I-4/Poinciana Pkwy Connector. Currently, this analysis assumes this crossing will be a culvert designed for the 100-year storm event. Note, no hydraulic modeling was performed to verify that this system will meet the No-Rise Criteria.

REFERENCE COPY

Pipe sizing assumed the required cross sectional area is the minimum allowable size and rounded up to the nearest conventional pipe size. Box culverts were sized for any areas resulting in a pipe size greater than a 60" RCP. For any proposed cross drains with ground elevation below the estimated seasonal high water level (SHWL), additional height or diameter size was provided to accommodate base flow.

If an upstream existing cross drain was identified within the contributing area, existing permits were reviewed for the 50-year peak flow (flood data box). Only the contributing area between the existing cross drain and the proposed cross drain location was used to determine the peak flow to that location. The calculated peak flow was then added to the existing cross drain flow to result in the design flow through the proposed cross drain. If only the existing cross drain size is available (no flow information), the existing cross drain design flow was estimated using the Continuity Equation and a velocity of 6 feet per second through a fully flowing pipe. In the instance of an identified upstream hydraulic bubble-up structure, it was assumed that the peak flow capacity of the bubble-up structure matches the size of its pipes. If no size or flow information was available for the existing cross drain, then it was ignored for these

computations. The contributing basin area will include upstream of these unknown existing pipe sizes.

Quantity Estimates

To provide a financial comparison between the alternative alignment options, quantity estimates for each proposed cross drain or existing cross drain extension were computed with the following assumptions:

- Endwalls will be used over MES due to available space within the typical section & spaced approximately 10-feet from Right-of-Way limit. Currently, the Right-Of-Way is 324-feet wide with approximately 82-feet available for an onsite roadside conveyance ditch system (See **Plate 2**). It is assumed that the cross drains will only convey offsite under the proposed roadway and will minimize the impact to the proposed typical section by allowing 15-feet on either side for cross drain endwalls and grading.

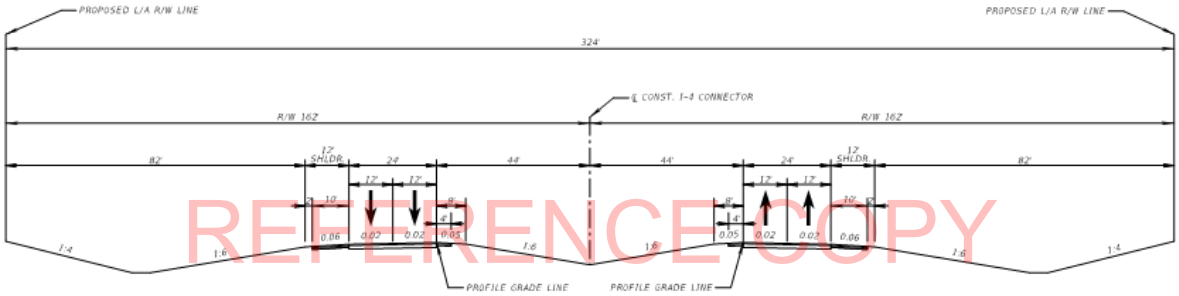

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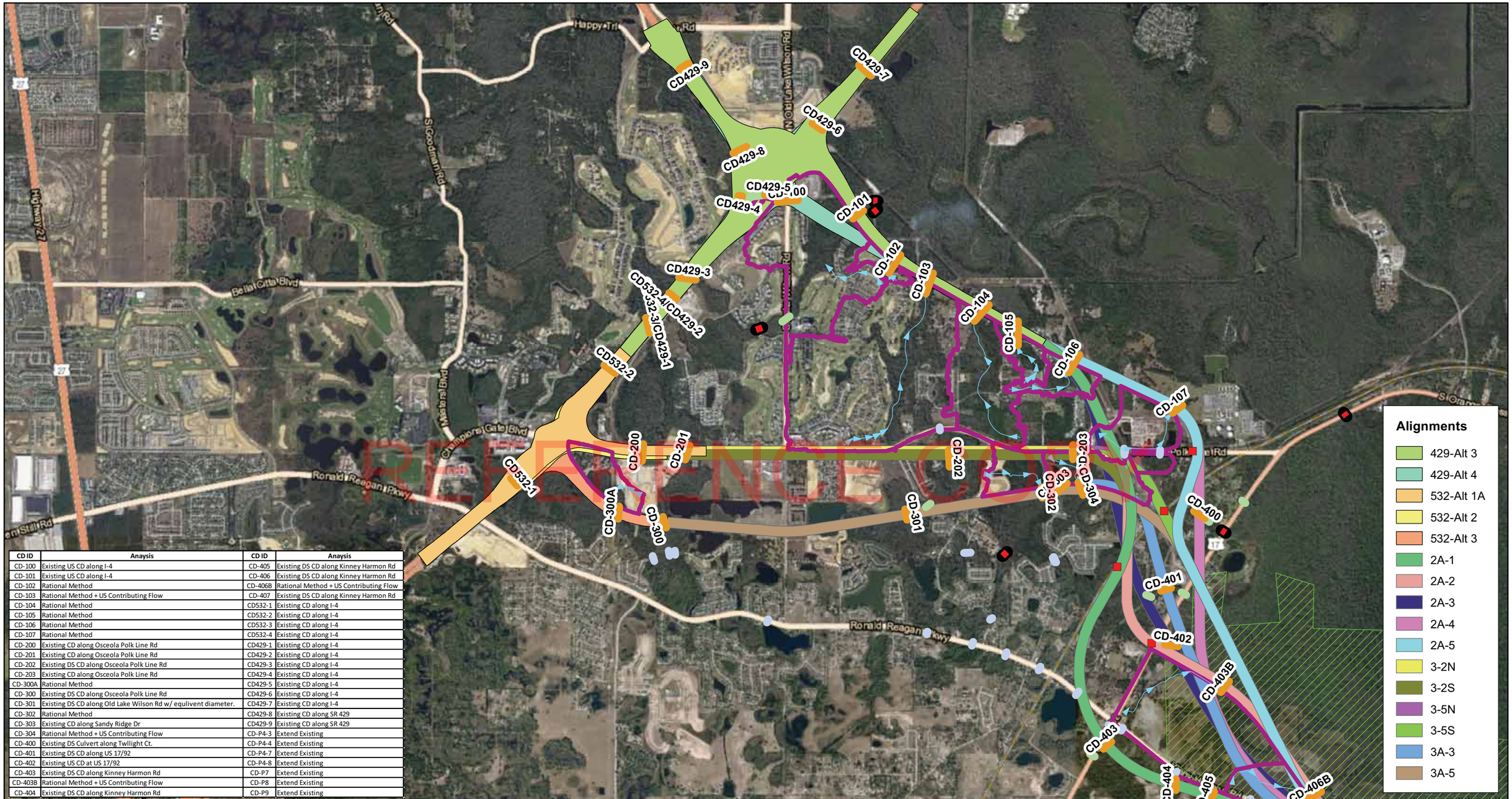
PLATE 1 - ROADWAY TYPICAL SECTION

- Riprap ditch lining will be used at the downstream side of each cross drain since the design velocity is at 6 fps. The riprap will extend 10-feet to the Right-of-Way and will be 1.5-feet deep. Any cross drains that were sized based off of existing cross drains were also assumed to require ditch lining.
- Existing cross drains that are to extended will be extended on both sides of the roadway.
- All existing cross drains are to be desilted. If the existing cross drain is a CBC, then it will be assumed that the silt is only 1-foot deep to quantify the cubic yard of slit to be removed.
- All box culverts will use Concrete Class IV and will follow Tables 9 – 16 in Index 400-292 of the FDOT Design Standards for the wall thickness (varies from 10" to 12") to quantify the required concrete with an additional 10% for box culvert corners and wingwalls.
- Any multi barrel box culverts were assumed to have 4" joint gap between precast box culverts. This item is not quantified, but assisted in the overall length for quantifying riprap ditch lining.
- All box culverts reinforcing steel has an approximate ratio of 265 between the required cubic yards of concrete and pounds of steel. This ratio was estimated from three CBC designs within FPID 201032-6-52-01 and FPID 410666-3-52-01.

- For the Regulated Davenport Floodway, the proposed offsite conveyance matches the size of the existing conveyance under I-4 connections as found in SFWMD Permit Application No. 020204-8. Documentation indicated that the connection was quadruple 12' x 8' CBC. Note no hydraulic modeling was performed to verify that this system will meet the No-Rise Criteria.

REFERENCE COPY



CD ID	Anaysis	CD ID	Anaysis
CD-100	Existing US CD along I-4	CD-405	Existing DS CD along Kinney Harmon Rd
CD-101	Existing US CD along I-4	CD-406	Existing DS CD along Kinney Harmon Rd
CD-102	Rational Method	CD-406B	Rational Method + US Contributing Flow
CD-103	Rational Method + US Contributing Flow	CD-407	Existing DS CD along Kinney Harmon Rd
CD-104	Rational Method	CD532-1	Existing CD along I-4
CD-105	Rational Method	CD532-2	Existing CD along I-4
CD-106	Rational Method	CD532-3	Existing CD along I-4
CD-107	Rational Method	CD532-4	Existing CD along I-4
CD-200	Existing CD along Osceola Polk Line Rd	CD429-1	Existing CD along I-4
CD-201	Existing CD along Osceola Polk Line Rd	CD429-2	Existing CD along I-4
CD-202	Existing DS CD along Osceola Polk Line Rd	CD429-3	Existing CD along I-4
CD-203	Existing CD along Osceola Polk Line Rd	CD429-4	Existing CD along I-4
CD-300A	Rational Method	CD429-5	Existing CD along I-4
CD-300	Existing DS CD along Osceola Polk Line Rd	CD429-6	Existing CD along I-4
CD-301	Existing DS CD along Old Lake Wilson Rd w/ equlivent diameter.	CD429-7	Existing CD along I-4
CD-302	Rational Method	CD429-8	Existing CD along SR 429
CD-303	Existing CD along Sandy Ridge Dr	CD429-9	Existing CD along SR 429
CD-304	Rational Method + US Contributing Flow	CD-P4-3	Extend Existing
CD-400	Existing DS Culvert along Twlight Ct.	CD-P4-4	Extend Existing
CD-401	Existing DS CD along US 17/92	CD-P4-7	Extend Existing
CD-402	Existing US CD at US 17/92	CD-P4-8	Extend Existing
CD-403	Existing DS CD along Kinney Harmon Rd	CD-P7	Extend Existing
CD-403B	Rational Method + US Contributing Flow	CD-P8	Extend Existing
CD-404	Existing DS CD along Kinney Harmon Rd	CD-P9	Extend Existing

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Legend

- Hydraulic Crossing with Existing Road Crossing
- Cross Drains
- Longest Flow Path (Rational)
- Basins
- ReedyCreek_Miti...
- **Exist. Hydraulic Crossing**
- Pipe
- Bridge
- Culvert

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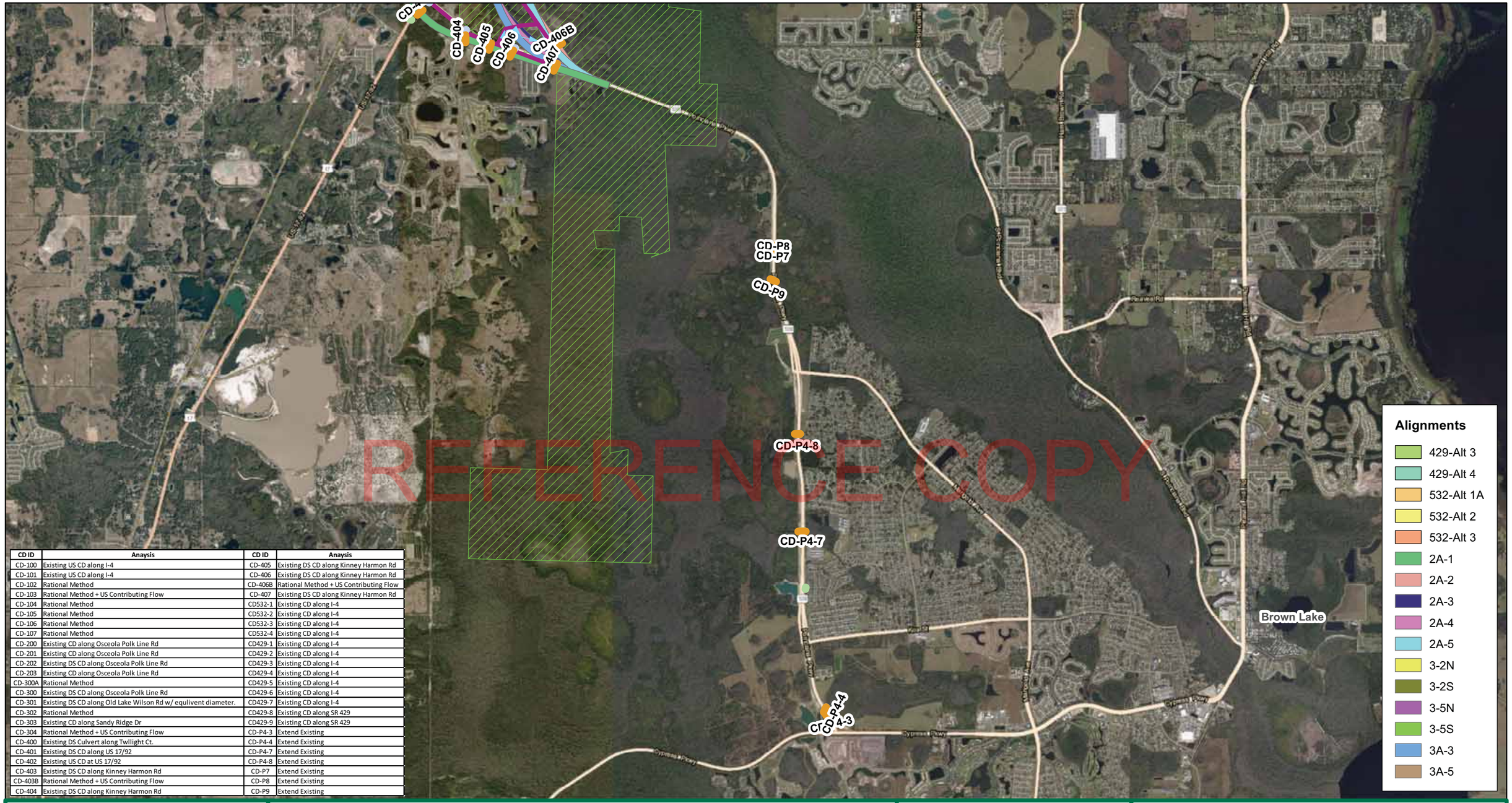
Miles

Figure B-1 : Location Hydraulics Cross Drain Methodology

Concept, Feasibility, & Mobility Study
Poinciana Pkwy Extension/I-4 Connector Expressway
Osceola & Polk County, FL



REFERENCE COPY

CD ID	Anaysis	CD ID	Anaysis
CD-100	Existing US CD along I-4	CD-405	Existing DS CD along Kinney Harmon Rd
CD-101	Existing US CD along I-4	CD-406	Existing DS CD along Kinney Harmon Rd
CD-102	Rational Method	CD-406B	Rational Method + US Contributing Flow
CD-103	Rational Method + US Contributing Flow	CD-407	Existing DS CD along Kinney Harmon Rd
CD-104	Rational Method	CD532-1	Existing CD along I-4
CD-105	Rational Method	CD532-2	Existing CD along I-4
CD-106	Rational Method	CD532-3	Existing CD along I-4
CD-107	Rational Method	CD532-4	Existing CD along I-4
CD-200	Existing CD along Osceola Polk Line Rd	CD429-1	Existing CD along I-4
CD-201	Existing CD along Osceola Polk Line Rd	CD429-2	Existing CD along I-4
CD-202	Existing DS CD along Osceola Polk Line Rd	CD429-3	Existing CD along I-4
CD-203	Existing CD along Osceola Polk Line Rd	CD429-4	Existing CD along I-4
CD-300A	Rational Method	CD429-5	Existing CD along I-4
CD-300	Existing DS CD along Osceola Polk Line Rd	CD429-6	Existing CD along I-4
CD-301	Existing DS CD along Old Lake Wilson Rd w/ equlivent diameter.	CD429-7	Existing CD along I-4
CD-302	Rational Method	CD429-8	Existing CD along SR 429
CD-303	Existing CD along Sandy Ridge Dr	CD429-9	Existing CD along SR 429
CD-304	Rational Method + US Contributing Flow	CD-P4-3	Extend Existing
CD-400	Existing DS Culvert along Twllight Ct.	CD-P4-4	Extend Existing
CD-401	Existing DS CD along US 17/92	CD-P4-7	Extend Existing
CD-402	Existing US CD at US 17/92	CD-P4-8	Extend Existing
CD-403	Existing DS CD along Kinney Harmon Rd	CD-P7	Extend Existing
CD-403B	Rational Method + US Contributing Flow	CD-P8	Extend Existing
CD-404	Existing DS CD along Kinney Harmon Rd	CD-P9	Extend Existing

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Legend

- Cross Drains
- Longest Flow Path (Rational)
- Basins
- ReedyCreek_Miti...

Exist. Hydraulic Crossing

- Culvert
- Pipe

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Miles

Figure B-1 : Location Hydraulics Cross Drain Methodology

Concept, Feasibility, & Mobility Study
Poinciana Pkwy Extension/I-4 Connector Expressway
Osceola & Polk County, FL

PROJECT: CFX Feasibility Study: I-4 / Poinciana Parkway Connector **PREPARED:** ALE **DATE:** 11/06/17
LOCATION: Osceola and Polk County, Florida **CHECKED:** JAN **DATE:** 02/06/18

Table B.1 - Offsite Conveyance Summary of Quantities

Pay item	Description	Unit	Quantity													
			429-Alt3	429-Alt4	532-Alt1A	532-Alt2	532-Alt3	2A-1	2A-2	2A-3	2A-4	2A-5	3-2	3-5	3A-3	3A-5
400-1-2	Concrete Class I, Endwalls	CY	161.1	163.8	132.6	132.6	128.1	94.3	69.3	75.0	75.0	69.3	98.2	98.2	136.7	131.0
400-2-2	Concrete Class II, Endwalls	CY									22.6	22.6				
400-4-1	Concrete Class IV, Culverts	CY	5,297.5	5,527.9	1,492.4	1,492.4	1,733.3	2,442.9	3,552.2	3,469.6	3,469.6	3,731.1	3,270.0	2,540.6	3,593.4	3,854.9
415-1-1	Reinforcing Steel - Roadway	LB	1,403,839	1,464,894	395,486	395,486	459,325	647,369	941,334	919,445	920,835	990,133	866,551	673,260	952,252	1,021,550
430-94-1	Desilting Pipe, 0 - 24"	LF	300	300	202	202										
430-94-2	Desilting Pipe, 25-36"	LF	946	946	946	946	946	706	706	912	706	912	776	776	1,066	1,066
430-94-3	Desilting Pipe, 37-48"	LF	925	1,295	1,105	1,105	725	225	225	225	225	225	225	225	225	225
430-94-4	Desilting Pipe, 49-60"	LF		400												
430-950	Desilting Concrete Box Culvert	CY	835.6	835.6	346.7	346.7	346.7									
430-175-124	Pipe Culvert, Round, 24" CD	LF	240	240	92	92		1,470		588	588				588	
430-175-130	Pipe Culvert, Round, 30" CD	LF	74	74	74	74	74	74	74	74	74	74	74	74	624	624
430-175-136	Pipe Culvert, Round, 36" CD	LF	238	238	578	578	578	482	188	188	188	188	482	482	188	188
430-175-142	Pipe Culvert, Round, 42" CD	LF	270	300	208	208	588						882	882	588	588
430-175-148	Pipe Culvert, Round, 48" CD	LF	363	363	703	703	703	363	363	363	363	363	363	363	657	657
430-175-154	Pipe Culvert, Round, 54" CD	LF	588	718												
430-175-160	Pipe Culvert, Round, 60" CD	LF									294	294				
430-175-230	Pipe Culvert, Ellip/Arch, 30" CD	LF						588	588	382	588	382	588	588	588	588
430-175-236	Pipe Culvert, Ellip/Arch, 36" CD	LF													2,940	2,940
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	412.8	393.8	200.3	200.3	208.0	192.6	216.1	220.5	233.4	239.2	227.3	204.9	290.9	296.7

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PROJECT:	CFX Feasibility Study: I-4 / Poinciana Parkway Connector	**PREPARED:**	ALE	**DATE:**	11/09/17
LOCATION:	Osceola and Polk County, Florida	**CHECKED:**	JAN	**DATE:**	02/06/18

Table B.2 - Existing Offsite Conveyance Summary

Cross Drain ID	Corridor	Size	Source	Existing Length (LF)	Proposed Length (LF)****	Comment
CD-100	429_Alt4	2-7'x4' CBC	SFWMD Permit Application 020204-8	N/A***	304	Existing upstream crossing at I-4. Crossing Is larger than the 3-42" pipe at Lake Wilson Rd & the proposed crossing is assumed to have the same level of service as I-4.
CD-101	429_Alt4, 429_Alt3	4-12'x8' CBC	SFWMD Permit Application 020204-8	N/A***	304	Existing upstream crossing at I-4. Crossing Is larger than the 4-10'x8' CBC at Lake Wilson Rd. Proposed cross drain calculation preformed to verify Floodway level of service (100-yr) for location along Alt3 Interchange configuration.
CD-200	532_Alt1A, 532_Alt2	24" Pipe	SFWMD Permit Application 020114-21	202*	294	
CD-201	3-2, 3-5, 532_ALT 1A	2-42" Pipe	SFWMD Permit Application 020114-21	190*	294	
CD-202	3-2 & 3-5	3-42" Pipe	Google Earth	N/A***	294	Existing cross drain along Osceola Polk Line Rd. Size was estimated from Google Earth.
CD-203	3-2 & 3-5	36" Pipe	SFWMD Permit Application 020702-14	70*	294	
CD-300	532_Alt3	2-42" Pipe	SFWMD Permit Application 020114-21	N/A***	294	Downstream 2-42" at Osceola Polk Line Rd. has larger flow area than upstream 2-29"x45" & 24" at Lake Shore Pkwy.
CD-301	3A-3 & 3A-5	2-42" Pipe	Survey information in SWFWMD ERP 32681	N/A***	294	Existing downstream cross drain along Old Lake Wilson Rd. Survey shows 2-34"x52", used round equivalent size.
CD-303	3A-3 & 3A-5	6-29"x45" Pipe & 30" Wildlife Crossing	SFWMD Permit Application 020702-14	60*	550	At a skewed angle along alignments
				N/A	550	Existing is parallel with alignments. Would be entirely replaced.
CD-400	2A-1, 2A-2, 2A-3, 2A-4, 2A-5, 3-2, 3A-3, & 3A-5	3-5'x8' CBC	SFWMD Permit Application 940701-3	N/A***	304	Existing downstream cross drain at Twlight Ct.

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PROJECT:	CFX Feasibility Study: I-4 / Poinciana Parkway Connector	**PREPARED:**	ALE	**DATE:**	11/09/17
LOCATION:	Osceola and Polk County, Florida	**CHECKED:**	JAN	**DATE:**	02/06/18

Table B.2 - Existing Offsite Conveyance Summary

Cross Drain ID	Corridor	Size	Source	Existing Length (LF)	Proposed Length (LF)****	Comment
CD-401	2A-2, 2A-3, 2A-4, 2A-5, 3-2, 3-5, 3A-3, & 3A-5	10'x3' CBC	US 17/US 92 FDOT Stright Line Diagram (Road ID: 16050000)	N/A***	304	Existing cross drain along US 17/US 92
CD-402	2A-3, 2A-4, 2A-5, 3-5, 3A-3, & 3A-5	4'x3' CBC	US 17/US 92 FDOT Stright Line Diagram (Road ID: 16050000)	N/A***	304	Existing cross drain along US 17/US 92
CD-403	2A-1	36" Pipe	SFWMD Permit Application 141010-12	N/A***	294	Existing downstream cross drain along Poinciana Pkwy / Kinney Harmon Rd
CD-404	2A-1	2-24" Pipe	SFWMD Permit Application 141010-12	N/A***	294	Existing downstream cross drain along Poinciana Pkwy / Kinney Harmon Rd
CD-405	2A-1	24" Pipe	SFWMD Permit Application 141010-12	N/A***	294	Existing downstream cross drain along Poinciana Pkwy / Kinney Harmon Rd
CD-406	2A-1, 2A-3, 2A-4, 3A-3	2-24" Pipe	SFWMD Permit Application 141010-12	N/A***	294	Existing cross drain along Poinciana Pkwy / Kinney Harmon Rd
CD-407	ALL Mainline Alternatives	2-24"x38" Pipe	SFWMD Permit Application 141010-12	103	294	Only alignments 2A-3 & 2A-5 will extend the existing pipe. All other alignments will only have new pipe.
CD532-1	ALL I-4 & SR 532 Interchange Alternatives	2-36" Pipe	SWFWMD ERP 11896	N/A***	85/ramp	This cross drain is a stand alone structure located under each ramp for all SR 532 interchange alternatives. Each alterantive includes 2 ramps.
CD532-2	All I-4 & SR 532 Interchange Alternatives	2-48" Pipe	SFWMD Permit Application 020204-8	250**	85/ramp	Extending cross drain for proposed ramps along I-4.
CD532-3 / CD429-1	All I-4 Interchange Alternatives	2-9'x7' CBC	SFWMD Permit Application 020204-8	260**	50/ramp	Extend cross drain for proposed ramps along I-4. SR 532 alternatives include extension for 2 ramps & SR 429 alternatives include extension for 1 ramp.

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PROJECT:	CFX Feasibility Study: I-4 / Poinciana Parkway Connector	**PREPARED:**	ALE	**DATE:**	11/09/17
LOCATION:	Osceola and Polk County, Florida	**CHECKED:**	JAN	**DATE:**	02/06/18

Table B.2 - Existing Offsite Conveyance Summary

Cross Drain ID	Corridor	Size	Source	Existing Length (LF)	Proposed Length (LF)****	Comment
CD532-4 / CD429-2	All I-4 Interchange Alternatives	36" Pipe	SFWMD Permit Application 020204-8	240**	50/ramp	Extend cross drain for proposed ramps along I-4. SR 532 alternatives include extension for 1 ramp & SR 429 alternatives include extension for 1 ramp.
CD429-3	All I-4 & SR 429 Interchange Alternatives	4-12'X8' CBC	SFWMD Permit Application 020204-8	275**	50/ramp	Extending cross drain for proposed ramp along I-4.
CD429-4	I-4 & SR 429 Interchange Alternative 3	2-7'x4' CBC	FDEP Permit No. ERP49-187636-001-EI	N/A***	85/ramp	Stand alone cross drain for new ramp within SR 429 Alt3 Interchange. Assumed existing will not be impacted by proposed ramps that follow the existing ramp.
CD429-5	I-4 & SR 429 Interchange Alternative 3	2-7'x4' CBC	SFWMD Permit Application 020204-8	N/A***	85/ramp	Stand alone cross drain for new ramp within SR 429 Alt3 Interchange.
CD429-6	All I-4 & SR 429 Interchange Alternatives	42" Pipe	SFWMD Permit Application 101124-20	370**	Varies	Alt3 assumes 2 stand along cross drains under ramps. Alt 4 assumes extending existing cross drain under 3 ramps.
CD429-7	All I-4 & SR 429 Interchange Alternatives	2-42" Pipe	SFWMD Permit Application 020204-8	350**	50/ramp	Extending cross drain for proposed ramps along I-4. Alt 3 includes extension for two ramps, Alt 4 includes extension for one ramp.
CD429-8	I-4 & SR 429 Interchange Alternative 4	54" Pipe	FDEP Permit No. ERP49-187636-001-EI	400**	Varies	Extend cross drain along SR 429 under 3 ramps for Alt4 Interchange. Assumes cross drain location is outside of Alt 3 ramp relocation impacts.
CD429-9	All I-4 & SR 429 Interchange Alternatives	24" Pipe	FDEP Permit No. ERP49-187636-001-EI	300**	120/side	Extend cross drain along SR 429 for new interchange with Sinclair Rd. Includes Rt and Lt sides for both interchange alternatives.

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PROJECT:	CFX Feasibility Study: I-4 / Poinciana Parkway Connector	**PREPARED:**	ALE	**DATE:**	11/09/17
LOCATION:	Osceola and Polk County, Florida	**CHECKED:**	JAN	**DATE:**	02/06/18

Table B.2 - Existing Offsite Conveyance Summary

Cross Drain ID	Corridor	Size	Source	Existing Length (LF)	Proposed Length (LF)****	Comment
CDP4-3	All Alternatives	48" Pipe	SFWMD Permit Application 141024-5	120	294	Connect existing cross drains.
CDP4-4	All Alternatives	48" Pipe	SFWMD Permit Application 141024-5	105	294	
CDP4-7	All Alternatives	1-8'x4' CBC	SFWMD Permit Application 141024-5	166	304	
CDP4-8	All Alternatives	3-10'x4' CBC	SFWMD Permit Application 141024-5	157	304	
CD-P9	All Alternatives	30" Pipe	SFWMD Permit Application 141010-12	126	200	
CD-P8	All Alternatives	2-36" Pipe	SFWMD Permit Application 141010-12	145	192	
CD-P7	All Alternatives	2-36" Pipe	SFWMD Permit Application 141010-12	145	192	

REFERENCE COPY

* Unknown pipe sizes will be estimated using same methods as proposed pipes. Assumed these will be entirely replaced to meet roadway design standards.

** Existing length was measured from aerial.

*** Existing pipe is either upstream or downstream of proposed alignment & is used to size the cross drain at the alignment alternatives crossing.

**** Proposed Typical Right of Way (ROW) is 324-ft. All cross drain lengths = ROW length less 10-ft for rip-rap/grading & 5-ft for Endwall (if applicable) on each side. Cross drain lengths within I-4 interchange vary depending upon ramp configuration.

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Table B.3 - Existing Offsite Conveyance Quantities

CD-100 2-7'x4' CBC

Pay Item No.	Description	Unit	Quantity
400-4-1	Concrete Class IV, Culverts	CY	523.0
415-1-1	Reinforcing Steel - Roadway	LB	138,595
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	21.4

Impacted by 429-Alt4 Interchange

CD-200 24" Pipe

Pay Item No.	Description	Unit	Quantity
400-1-2	Concrete Class I, Endwalls	CY	4.5
430-94-1	Desilting Pipe, 0 - 24"	LF	202
430-175-124	Pipe Culvert, Round, 24" CD	LF	92
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	5.7

CD-201 2-42" Pipe

Pay Item No.	Description	Unit	Quantity
400-1-2	Concrete Class I, Endwalls	CY	16.3
430-94-3	Desilting Pipe, 37-48"	LF	380
430-175-142	Pipe Culvert, Round, 42" CD	LF	208
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	14.1

REFERENCE COPY

CD-202 3-42" Pipe

Pay Item No.	Description	Unit	Quantity
400-1-2	Concrete Class I, Endwalls	CY	19.8
430-175-142	Pipe Culvert, Round, 42" CD	LF	882
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	18.9

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Table B.3 - Existing Offsite Conveyance Quantities

CD-203 36" Pipe

Pay Item No.	Description	Unit	Quantity
400-1-2	Concrete Class I, Endwalls	CY	9.1
430-94-2	Desilting Pipe, 25-36"	LF	70
430-175-136	Pipe Culvert, Round, 36" CD	LF	294
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	8.1

CD-300 2-42" Pipe

Pay Item No.	Description	Unit	Quantity
400-1-2	Concrete Class I, Endwalls	CY	16.3
430-175-142	Pipe Culvert, Round, 42" CD	LF	588
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	14.1

CD-301 2-42" Pipe

Pay Item No.	Description	Unit	Quantity
400-1-2	Concrete Class I, Endwalls	CY	16.3
430-175-142	Pipe Culvert, Round, 42" CD	LF	588
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	14.1

REFERENCE COPY

CD-303 6-29"x45" Pipe & 30" Wildlife Crossing

Pay Item No.	Description	Unit	Quantity
400-1-2	Concrete Class I, Endwalls	CY	29.1
430-94-2	Desilting Pipe, 25-36"	LF	360
430-175-130	Pipe Culvert, Round, 30" CD	LF	550
430-175-236	Pipe Culvert, Ellip/Arch, 36" CD	LF	2,940
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	38.6

CD-400 3-5'x8' CBC

Pay Item No.	Description	Unit	Quantity
400-4-1	Concrete Class IV, Culverts	CY	908.3
415-1-1	Reinforcing Steel - Roadway	LB	240,700
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	32.6

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Table B.3 - Existing Offsite Conveyance Quantities

CD-401 10'x3' CBC

Pay Item No.	Description	Unit	Quantity
400-4-1	Concrete Class IV, Culverts	CY	302.8
415-1-1	Reinforcing Steel - Roadway	LB	80,242
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	15.0

CD-402 4'x3' CBC

Pay Item No.	Description	Unit	Quantity
400-4-1	Concrete Class IV, Culverts	CY	178.9
415-1-1	Reinforcing Steel - Roadway	LB	47,409
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	10.2

CD-403 36" Pipe

Pay Item No.	Description	Unit	Quantity
400-1-2	Concrete Class I, Endwalls	CY	9.1
430-175-136	Pipe Culvert, Round, 36" CD	LF	294
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	8.1

REFERENCE COPY

CD-404 2-24" Pipe

Pay Item No.	Description	Unit	Quantity
400-1-2	Concrete Class I, Endwalls	CY	5.7
430-175-124	Pipe Culvert, Round, 24" CD	LF	588
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	8.4

CD-405 24" Pipe

Pay Item No.	Description	Unit	Quantity
400-1-2	Concrete Class I, Endwalls	CY	4.5
430-175-124	Pipe Culvert, Round, 24" CD	LF	294
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	5.7

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Table B.3 - Existing Offsite Conveyance Quantities

CD-406 2-24" Pipe

Pay Item No.	Description	Unit	Quantity
400-1-2	Concrete Class I, Endwalls	CY	5.7
430-175-124	Pipe Culvert, Round, 24" CD	LF	588
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	8.4

CD-407 2-24"x38" Pipe *Extended (2A-3 & 2A-5)*

Pay Item No.	Description	Unit	Quantity
400-1-2	Concrete Class I, Endwalls	CY	7.1
430-94-2	Desilting Pipe, 25-36"	LF	206
430-175-230	Pipe Culvert, Ellip/Arch, 30" CD	LF	382
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	10.7

CD-407 2-24"x38" Pipe *All other Alignments*

Pay Item No.	Description	Unit	Quantity
400-1-2	Concrete Class I, Endwalls	CY	7.1
430-175-230	Pipe Culvert, Ellip/Arch, 30" CD	LF	588
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	10.7

REFERENCE COPY

CD532-1 2-36"

Pay Item No.	Description	Unit	Quantity
400-1-2	Concrete Class I, Endwalls	CY	23.0
430-175-136	Pipe Culvert, Round, 36" CD	LF	340
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	24.2

Assumed Pipe Length under Ramp = 85

CD532-2 2-48"

Pay Item No.	Description	Unit	Quantity
400-1-2	Concrete Class I, Endwalls	CY	20.8
430-94-3	Desilting Pipe, 37-48"	LF	500
430-175-148	Pipe Culvert, Round, 48" CD	LF	340
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	15.9

Assumed Pipe Extention Length under each Ramp = 85

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Table B.3 - Existing Offsite Conveyance Quantities

CD532-3 2-9'x7' CBC

Pay Item No.	Description	Unit	Quantity
400-4-1	Concrete Class IV, Culverts	CY	240.0
430-950	Desilting Concrete Box Culvert	CY	347
415-1-1	Reinforcing Steel - Roadway	LB	63,600
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	29.4

Assumed Pipe Extention Length under each Ramp = 50

CD532-4 36"

Pay Item No.	Description	Unit	Quantity
400-1-2	Concrete Class I, Endwalls	CY	5.8
430-94-2	Desilting Pipe, 25-36"	LF	240
430-175-136	Pipe Culvert, Round, 36" CD	LF	50
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	8.1

Assumed Pipe Extention Length under each Ramp = 50

CD429-1 2-9'x7' CBC

Pay Item No.	Description	Unit	Quantity
400-4-1	Concrete Class IV, Culverts	CY	120.0
430-950	Desilting Concrete Box Culvert	CY	347
415-1-1	Reinforcing Steel - Roadway	LB	31,800
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	29.4

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Assumed Pipe Extention Length under each Ramp = 50

CD429-2 36"

Pay Item No.	Description	Unit	Quantity
400-1-2	Concrete Class I, Endwalls	CY	5.8
430-94-2	Desilting Pipe, 25-36"	LF	240
430-175-136	Pipe Culvert, Round, 36" CD	LF	50
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	8.1

Assumed Pipe Extention Length under each Ramp = 50

CD429-3 4-12'x8' CBC

Pay Item No.	Description	Unit	Quantity
400-4-1	Concrete Class IV, Culverts	CY	358.6
430-950	Desilting Concrete Box Culvert	CY	488.9
415-1-1	Reinforcing Steel - Roadway	LB	95,029
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	59.3

Assumed Pipe Extention Length under each Ramp = 50

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Table B.3 - Existing Offsite Conveyance Quantities

CD429-4_Alt3 2-7'x4' CBC

Pay Item No.	Description	Unit	Quantity
400-4-1	Concrete Class IV, Culverts	CY	146.3
415-1-1	Reinforcing Steel - Roadway	LB	38,770
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	21.4

Assumed Pipe Length under Ramp = 85

CD429-5_Alt3 2-7'x4' CBC

Pay Item No.	Description	Unit	Quantity
400-4-1	Concrete Class IV, Culverts	CY	146.3
415-1-1	Reinforcing Steel - Roadway	LB	38,770
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	21.4

Assumed Pipe Length under Ramp = 85

CD429-6_Alt3 42"

Pay Item No.	Description	Unit	Quantity
400-1-2	Concrete Class I, Endwalls	CY	25.4
430-175-142	Pipe Culvert, Round, 42" CD	LF	170
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	18.6

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CD under each Ramp. Assumed Pipe Length under Ramp = 85

CD429-6_Alt4 42"

Pay Item No.	Description	Unit	Quantity
400-1-2	Concrete Class I, Endwalls	CY	12.7
430-94-3	Desilting Pipe, 37-48"	LF	370
430-175-142	Pipe Culvert, Round, 42" CD	LF	250
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	9.3

Extending Existing CD under 3 ramps.

CD429-7_Alt3 2-42"

Pay Item No.	Description	Unit	Quantity
400-1-2	Concrete Class I, Endwalls	CY	16.3
430-94-3	Desilting Pipe, 37-48"	LF	700
430-175-142	Pipe Culvert, Round, 42" CD	LF	100
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	14.1

Assumed Pipe Extention Length under each Ramp = 50

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Table B.3 - Existing Offsite Conveyance Quantities

CD429-7_Alt4 2-42"

Pay Item No.	Description	Unit	Quantity
400-1-2	Concrete Class I, Endwalls	CY	8.2
430-94-3	Desilting Pipe, 37-48"	LF	700
430-175-142	Pipe Culvert, Round, 42" CD	LF	50
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	14.1

Assumed Pipe Extention Length under each Ramp = 50

CD429-8_Alt4 54"

Pay Item No.	Description	Unit	Quantity
400-1-2	Concrete Class I, Endwalls	CY	23.5
430-94-4	Desilting Pipe, 49-60"	LF	400
430-175-154	Pipe Culvert, Round, 54" CD	LF	130
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	11.7

Extending Existing CD under proposed ramps.

CD429-9 24"

Pay Item No.	Description	Unit	Quantity
400-1-2	Concrete Class I, Endwalls	CY	4.5
430-94-1	Desilting Pipe, 0 - 24"	LF	300
430-175-124	Pipe Culvert, Round, 24" CD	LF	240
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	5.7

REFERENCE COPY

Extending Existing CD under proposed ramps.

Assume 100 ft each side of SR 429 with additional 20' for tie-in and clear zone.

CDP4-3 48"

Pay Item No.	Description	Unit	Quantity
400-1-2	Concrete Class I, Endwalls	CY	16.3
430-94-3	Desilting Pipe, 37-48"	LF	120
430-175-148	Pipe Culvert, Round, 48" CD	LF	174
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	10.5

Extending Existing CD under proposed ramps.

CDP4-4 48"

Pay Item No.	Description	Unit	Quantity
400-1-2	Concrete Class I, Endwalls	CY	16.3
430-94-3	Desilting Pipe, 37-48"	LF	105
430-175-148	Pipe Culvert, Round, 48" CD	LF	189
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	10.5

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Table B.3 - Existing Offsite Conveyance Quantities

CDP4-7 1-8'x4' CBC

Pay Item No.	Description	Unit	Quantity
400-4-1	Concrete Class IV, Culverts	CY	282.2
415-1-1	Reinforcing Steel - Roadway	LB	74,783
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	15

CDP4-8 3-10'x4' CBC

Pay Item No.	Description	Unit	Quantity
400-4-1	Concrete Class IV, Culverts	CY	970.2
415-1-1	Reinforcing Steel - Roadway	LB	257,103
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	35.8

CD-P9 30"

Pay Item No.	Description	Unit	Quantity
400-1-2	Concrete Class I, Endwalls	CY	6.6
430-94-2	Desilting Pipe, 25-36"	LF	126
430-175-130	Pipe Culvert, Round, 30" CD	LF	74
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	6.9

REFERENCE COPY

CD-P8 2-36"

Pay Item No.	Description	Unit	Quantity
400-1-2	Concrete Class I, Endwalls	CY	11.5
430-94-2	Desilting Pipe, 25-36"	LF	290
430-175-136	Pipe Culvert, Round, 36" CD	LF	94
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	12.1

CD-P7 2-36"

Pay Item No.	Description	Unit	Quantity
400-1-2	Concrete Class I, Endwalls	CY	11.5
430-94-2	Desilting Pipe, 25-36"	LF	290
430-175-136	Pipe Culvert, Round, 36" CD	LF	94
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	12.1

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Table B.4 - Proposed Offsite Conveyance Summary

Cross Drain ID	Required Minimum Size	Regulated Floodway?	Design Storm	Basin Area (ac)	Method
CD-100	2-7'x4' CBC	No	50-year	--	Use Existing Crossing Size
CD-101	4-12'x8' CBC	Yes	100-year	--	Rational Method + Contributing Flow
CD-102	54" Pipe	No	50-year	21.53	Rational Method
CD-103	2-10'x7' CBC	No	50-year	519.72	Rational Method + Contributing Flow
CD-104	8' x 6' CBC	No	50-year	166.28	Rational Method
CD-105	54" Pipe	No	50-year	36.68	Rational Method
CD-106	7'x5' CBC	No	50-year	43.10	Rational Method
CD-107	60" Pipe	No	50-year	103.83	Rational Method
CD-200	24" Pipe	No	50-year	--	Extend Existing
CD-201	2-42" Pipe	No	50-year	--	Extend Existing
CD-202	3-42" Pipe	No	50-year	--	Use Existing Crossing Size
CD-203	36" Pipe	No	50-year	--	Extend Existing
CD-300A	6'x4' CBC	No	50-year	53.67	Rational Method
CD-300	2-42" Pipe	No	50-year	--	Use Existing Crossing Size
CD-301	2-42" Pipe	No	50-year	--	Use Existing Crossing Size
CD-302	48" Pipe	No	50-year	54.38	Rational Method
CD-303	6-29"x45" Pipe & 30" Wildlife Crossing	No	50-year	--	Extend Existing
CD-304	10' x 8' CBC	No	50-year	75.85	Rational Method + Contributing Flow
CD-400	3-5'x8' CBC	No	50-year	--	Use Existing Crossing Size
CD-401	10'x3' CBC	No	50-year	--	Use Existing Crossing Size
CD-402	4'x3' CBC	No	50-year	--	Use Existing Crossing Size
CD-403	36" Pipe	No	50-year	--	Use Existing Crossing Size
CD-403B	12' x 8' CBC	No	50-year	280.49	Rational Method + Contributing Flow
CD-404	2-24" Pipe	No	50-year	--	Use Existing Crossing Size
CD-405	24" Pipe	No	50-year	--	Use Existing Crossing Size
CD-406	2-24" Pipe	No	50-year	--	Use Existing Crossing Size
CD-406B	7' x 4' CBC	No	50-year	66.52	Rational Method + Contributing Flow
CD-407 (Extended)	2-24"x38" Pipe	No	50-year	--	Extend Existing
CD-407	2-24"x38" Pipe	No	50-year	--	Use Existing Crossing Size
CD532-1	2-36" Pipe	No	50-year	--	Use Existing Crossing Size
CD532-2	2-48" Pipe	No	50-year	--	Extend Existing
CD532-3	2-9'x7' CBC	No	50-year	--	Extend Existing
CD532-4	36" Pipe	No	50-year	--	Extend Existing

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Table B.4 - Proposed Offsite Conveyance Summary

Cross Drain ID	Required Minimum Size	Regulated Floodway?	Design Storm	Basin Area (ac)	Method
CD429-1	2-9'x7' CBC	No	50-year	--	Extend Existing
CD429-2	36" Pipe	No	50-year	--	Extend Existing
CD429-3	4-12'X8' CBC	No	50-year	--	Extend Existing
CD429-4	2-7'x4' CBC	No	50-year	--	Use Existing Crossing Size
CD429-5	2-7'x4' CBC	No	50-year	--	Use Existing Crossing Size
CD429-6	42" Pipe	No	50-year	--	Alt3 = Use Existing Crossing Size Alt4 = Extend Existing
CD429-7	2-42" Pipe	No	50-year	--	Extend Existing
CD429-8	54" Pipe	No	50-year	--	Extend Existing
CD429-9	24" Pipe	No	50-year	--	Extend Existing
CDP4-3	48" Pipe	No	50-year	--	Extend Existing
CDP4-4	48" Pipe	No	50-year	--	Extend Existing
CDP4-7	1-8'x4' CBC	No	50-year	--	Extend Existing
CDP4-8	3-10'x4' CBC	No	50-year	--	Extend Existing
CD-P9	30" Pipe	No	50-year	--	Extend Existing
CD-P8	2-36" Pipe	No	50-year	--	Extend Existing
CD-P7	2-36" Pipe	No	50-year	--	Extend Existing

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Table B.4 - Proposed Offsite Conveyance Summary

Cross Drain ID	Required Minimum Size	Regulated Floodway?	Design Storm	Basin Area (ac)	Method
CD429-1	2-9'x7' CBC	No	50-year	--	Extend Existing
CD429-2	36" Pipe	No	50-year	--	Extend Existing
CD429-3	4-12'X8' CBC	No	50-year	--	Extend Existing
CD429-4	2-7'x4' CBC	No	50-year	--	Use Existing Crossing Size
CD429-5	2-7'x4' CBC	No	50-year	--	Use Existing Crossing Size
CD429-6	42" Pipe	No	50-year	--	Alt3 = Use Existing Crossing Size Alt4 = Extend Existing
CD429-7	2-42" Pipe	No	50-year	--	Extend Existing
CD429-8	54" Pipe	No	50-year	--	Extend Existing
CD429-9	24" Pipe	No	50-year	--	Extend Existing
CDP4-3	48" Pipe	No	50-year	--	Extend Existing
CDP4-4	48" Pipe	No	50-year	--	Extend Existing
CDP4-7	1-8'x4' CBC	No	50-year	--	Extend Existing
CDP4-8	3-10'x4' CBC	No	50-year	--	Extend Existing
CD-P9	30" Pipe	No	50-year	--	Extend Existing
CD-P8	2-36" Pipe	No	50-year	--	Extend Existing
CD-P7	2-36" Pipe	No	50-year	--	Extend Existing

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Table B.5 - Proposed Offsite Conveyance Calculations

Proposed Cross Drain at Poinciana Pkwy Extension/I-4 Connector

Cross Drain Name	CD-101
Corridor	429_Alt4, 429_Alt3
Precipitation Zone	7
Pervious C-Value[1]	0.3
Impervious C-value	0.95
Time of Concentration (min)	**25.0**

31.3 Minutes from Time of Conc. Calc

Basin Runoff Calculations

Total Contributing Area (acres)	293.92
Pervious Contributing Area (acres)	264.53
Impervious Contributing Area (acres)	29.39
Weighted Runoff Coefficient[1]	0.43
Design Event[2]	100-year
Design Intensity (in/hr)[3]	6.41
Design Peak Flow (cfs)	814

Basin downstream of existing cross drains.

Total Contributing Flow Calculations

Exist. 2-7'x4' CBC at I-4	201	*SFWMD ERP App. 020204-8 (100-yr Storm)*
USGS Gage 02266480 (Exist. 4-10'x8' CBC)	418	*Peak FQ Results from Gage Data (100-yr Storm)*
Total Design Peak Flow (cfs)	1433	

Cross Drain Sizing Calculations

Assumed Velocity (ft/s)	6
Cross-sectional Area Required (ft^2)	238.86
Recommended Culvert Size	4 - 12 ft x 5 ft
Provided Cross Sectional Area (ft^2)	240.00
Est. SHWL Elev (ft-NAVD88)	80.0
Est. Ground Elev (ft-NAVD88)	77.0
Additional Culvert Height Required	3.0
Recommended Culvert Size Total	4 - 12 ft x 8 ft

Matches I-4 Davenport Bridge Culvert Size

More Costly to assume the use of both exist. US cross drains along I-4

REFERENCE COPY

Cost Estimate Calculations

Pay Item No.	Description	Unit	Quantity
400-4-1	Concrete Class IV, Culverts	CY	2179.8
415-1-1	Reinforcing Steel - Roadway	LB	577,647
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	59.3

Notes:

[1] Pervious Runoff Coefficients value assumed to be the max of Pasture/Grass with poorly drained soils at 2-7% slope. Frequency Factor applied per Design Storm Event (Tables B-4 & B-5, FDOT Drainage Design Guide, January 2017).

[2] Per FDOT Drainage Manual, 50-year considered design event for mainline interstates and 100-year used if culvert proposed within regulated floodway.

[3] Design Intensity calculated from FDOT IDF Regression Equations for Tc < 180 minutes. If Tc > 180 minutes, intensity estimated directly from the IDF Curve.

PROJECT:	CFX Feasibility Study: I-4 / Poinciana Parkway Connector	**PREPARED:**	ALE	**DATE:**	01/17/18
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Table B.5 - Proposed Offsite Conveyance Calculations

Proposed Cross Drain at Poinciana Pkwy Extension/I-4 Connector

Cross Drain Name	CD-102
Corridor	429_Alt4, 429_Alt3
Precipitation Zone	7
Pervious C-Value[1]	0.3
Impervious C-value	0.95
Time of Concentration (min)	10.0

Basin Runoff Calculations

Total Contributing Area (acres)	21.53
Pervious Contributing Area (acres)	20.45
Impervious Contributing Area (acres)	1.08
Weighted Runoff Coefficient[1]	0.39
Design Event[2]	50-year
Design Intensity (in/hr)[3]	8.92
Design Peak Flow (cfs)	74.83

Cross Drain Sizing Calculations

Assumed Velocity (ft/s)	6
Cross-sectional Area Required (ft^2)	12.47
Recommended Culvert Size	48 inch
Provided Cross Sectional Area (ft^2)	12.57
Upstream Est. SHWL Elev (ft-NAVD88)	77.0
Upstream Est. Ground Elev (ft-NAVD88)	76.6
Additional Culvert Height Required	0.4
Recommended Culvert Size Total	54 inch

REFERENCE COPY

Cost Estimate Calculations

Pay Item No.	Description	Unit	Quantity
400-1-2	Concrete Class I, Endwalls	CY	23.5
430-175-154	Pipe Culvert, Round, 54" CD	LF	294
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	11.7

Notes:

[1] Pervious Runoff Coefficients value assumed to be the max of Pasture/Grass with poorly drained soils at 2-7% slope. Frequency Factor applied per Design Storm Event (Tables B-4 & B-5, FDOT Drainage Design Guide, January 2017).

[2] Per FDOT Drainage Manual, 50-year considered design event for mainline interstates and 100-year used if culvert proposed within regulated floodway.

[3] Design Intensity calculated from FDOT IDF Regression Equations for Tc < 180 minutes. If Tc > 180 minutes, intensity estimated directly from the IDF Curve.

PROJECT:	CFX Feasibility Study: I-4 / Poinciana Parkway Connector	**PREPARED:**	ALE	**DATE:**	01/17/18
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Table B.5 - Proposed Offsite Conveyance Calculations

Proposed Cross Drain at Poinciana Pkwy Extension/I-4 Connector

Cross Drain Name	CD-103
Corridor	429_Alt4, 429_Alt3
Precipitation Zone	7
Pervious C-Value[1]	0.3
Impervious C-value	0.95
Time of Concentration (min)	102.7

Basin Runoff Calculations

Total Contributing Area (acres)	519.72	Permit 040625-1 and 000522-5 show development within this basin with stormwater ponds, constructed in 2004. Assume pre/post discharges were met and use existing condition for impervious/pervious area estimates.
Pervious Contributing Area (acres)	509.33	
Impervious Contributing Area (acres)	10.39	
Weighted Runoff Coefficient[1]	0.37	
Design Event[2]	50-year	
Design Intensity (in/hr)[3]	2.87	
Design Peak Flow (cfs)	554	Basin between Osceola Polk Rd and Proposed CD

Total Contributing Flow Calculations

Exist. 3-42" at Osceola Polk Line Rd (cfs)	173	Assumed full flow at 6 fps
Total Design Peak Flow (cfs)	727	Added flows from existing CD at Osceola Polk Rd

Cross Drain Sizing Calculations

Assumed Velocity (ft/s)	6
Cross-sectional Area Required (ft^2)	121.13
Recommended Culvert Size	2 - 10 ft x 6.1 ft
Provided Cross Sectional Area (ft^2)	122.00
Est. SHWL Elev (ft-NAVD88)	74.0
Est. Ground Elev (ft-NAVD88)	73.3
Additional Culvert Height Required	0.7
Recommended Culvert Size Total	2 - 10 ft x 7 ft

REFERENCE COPY

Cost Estimate Calculations

Pay Item No.	Description	Unit	Quantity
400-4-1	Concrete Class IV, Culverts	CY	770.7
415-1-1	Reinforcing Steel - Roadway	LB	204,236
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	31.0

Notes:

[1] Pervious Runoff Coefficients value assumed to be the max of Pasture/Grass with poorly drained soils at 2-7% slope. Frequency Factor applied per Design Storm Event (Tables B-4 & B-5, FDOT Drainage Design Guide, January 2017).

[2] Per FDOT Drainage Manual, 50-year considered design event for mainline interstates and 100-year used if culvert proposed within regulated floodway.

[3] Design Intensity calculated from FDOT IDF Regression Equations for Tc < 180 minutes. If Tc > 180 minutes, intensity estimated directly from the IDF Curve.

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Table B.5 - Proposed Offsite Conveyance Calculations

Proposed Cross Drain at Poinciana Pkwy Extension/I-4 Connector

Cross Drain Name	CD-104
Corridor	429_Alt4, 429_Alt3
Precipitation Zone	7
Pervious C-Value[1]	0.3
Impervious C-value	0.95
Time of Concentration (min)	114.7

Basin Runoff Calculations

Total Contributing Area (acres)	166.28
Pervious Contributing Area (acres)	154.64
Impervious Contributing Area (acres)	11.64
Weighted Runoff Coefficient[1]	0.40
Design Event[2]	50-year
Design Intensity (in/hr)[3]	2.64
Design Peak Flow (cfs)	176.14

Cross Drain Sizing Calculations

Assumed Velocity (ft/s)	6
Cross-sectional Area Required (ft^2)	29.36
Recommended Culvert Size	8 ft x 4 ft
Provided Cross Sectional Area (ft^2)	32.00
Upstream Est. SHWL Elev (ft-NAVD88)	75
Upstream Est. Ground Elev (ft-NAVD88)	73.5
Additional Culvert Height Required	1.5
Recommended Culvert Size Total	8 ft x 6 ft

REFERENCE COPY

Cost Estimate Calculations

Pay Item No.	Description	Unit	Quantity
400-4-1	Concrete Class IV, Culverts	CY	323.4
415-1-1	Reinforcing Steel - Roadway	LB	85,701
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	18.2

Notes:

[1] Pervious Runoff Coefficients value assumed to be the max of Pasture/Grass with poorly drained soils at 2-7% slope. Frequency Factor applied per Design Storm Event (Tables B-4 & B-5, FDOT Drainage Design Guide, January 2017).

[2] Per FDOT Drainage Manual, 50-year considered design event for mainline interstates and 100-year used if culvert proposed within regulated floodway.

[3] Design Intensity calculated from FDOT IDF Regression Equations for Tc < 180 minutes. If Tc > 180 minutes, intensity estimated directly from the IDF Curve.

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Table B.5 - Proposed Offsite Conveyance Calculations

Proposed Cross Drain at Poinciana Pkwy Extension/I-4 Connector

Cross Drain Name	CD-105
Corridor	429_Alt4, 429_Alt3
Precipitation Zone	7
Pervious C-Value[1]	0.3
Impervious C-value	0.95
Time of Concentration (min)	37.7

Basin Runoff Calculations

Total Contributing Area (acres)	36.68
Pervious Contributing Area (acres)	34.85
Impervious Contributing Area (acres)	1.83
Weighted Runoff Coefficient[1]	0.39
Design Event[2]	50-year
Design Intensity (in/hr)[3]	5.29
Design Peak Flow (cfs)	75.51

Cross Drain Sizing Calculations

Assumed Velocity (ft/s)	6
Cross-sectional Area Required (ft^2)	12.58
Recommended Culvert Size	54 inch
Provided Cross Sectional Area (ft^2)	15.90
Upstream Est. SHWL Elev (ft-NAVD88)	75.0
Upstream Est. Ground Elev (ft-NAVD88)	76.4
Additional Culvert Height Required	0.0
Equlivent Recommended Culvert Size (CBC)	54 inch

REFERENCE COPY

Cost Estimate Calculations

Pay Item No.	Description	Unit	Quantity
400-1-2	Concrete Class I, Endwalls	CY	23.42
430-175-154	Pipe Culvert, Round, 54" CD	LF	294
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	11.7

Notes:

[1] Pervious Runoff Coefficients value assumed to be the max of Pasture/Grass with poorly drained soils at 2-7% slope. Frequency Factor applied per Design Storm Event (Tables B-4 & B-5, FDOT Drainage Design Guide, January 2017).

[2] Per FDOT Drainage Manual, 50-year considered design event for mainline interstates and 100-year used if culvert proposed within regulated floodway.

[3] Design Intensity calculated from FDOT IDF Regression Equations for Tc < 180 minutes. If Tc > 180 minutes, intensity estimated directly from the IDF Curve.

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Table B.5 - Proposed Offsite Conveyance Calculations

Proposed Cross Drain at Poinciana Pkwy Extension/I-4 Connector

Cross Drain Name	CD-106
Corridor	2A-1, 2, 3, 4, 5
Precipitation Zone	7
Pervious C-Value[1]	0.3
Impervious C-value	0.95
Time of Concentration (min)	52.8

Basin Runoff Calculations

Total Contributing Area (acres)	43.10
Pervious Contributing Area (acres)	25.78
Impervious Contributing Area (acres)	17.32
Weighted Runoff Coefficient[1]	0.60
Design Event[2]	50-year
Design Intensity (in/hr)[3]	4.42
Design Peak Flow (cfs)	113.65

Cross Drain Sizing Calculations

Assumed Velocity (ft/s)	6	
Cross-sectional Area Required (ft^2)	18.94	
Recommended Culvert Size	60 inch	
Provided Cross Sectional Area (ft^2)	19.63	
Upstream Est. SHWL Elev (ft-NAVD88)	85.5	
Upstream Est. Ground Elev (ft-NAVD88)	83.5	
Additional Culvert Height Required	2.0	Would require a pipe > 60", convert to CBC.
Equlivent Recommended Culvert Size (CBC)	7 ft x 3 ft	
Provided Cross Sectional Area (ft^2)	21.00	
Total Recommended Culvert Size (CBC)	7 ft x 5 ft	

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Cost Estimate Calculations

Pay Item No.	Description	Unit	Quantity
400-4-1	Concrete Class IV, Culverts	CY	282.2
415-1-1	Reinforcing Steel - Roadway	LB	74,783
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	15.8

Notes:

[1] Pervious Runoff Coefficients value assumed to be the max of Pasture/Grass with poorly drained soils at 2-7% slope. Frequency Factor applied per Design Storm Event (Tables B-4 & B-5, FDOT Drainage Design Guide, January 2017).

[2] Per FDOT Drainage Manual, 50-year considered design event for mainline interstates and 100-year used if culvert proposed within regulated floodway.

[3] Design Intensity calculated from FDOT IDF Regression Equations for Tc < 180 minutes. If Tc > 180 minutes, intensity estimated directly from the IDF Curve.

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Table B.5 - Proposed Offsite Conveyance Calculations

Proposed Cross Drain at Poinciana Pkwy Extension/I-4 Connector

Cross Drain Name	CD-107
Corridor	2A-4 & 2A-5
Precipitation Zone	7
Pervious C-Value[1]	0.3
Impervious C-value	0.95
Time of Concentration (min)	108.9

Basin Runoff Calculations

Total Contributing Area (acres)	103.83
Pervious Contributing Area (acres)	103.00
Impervious Contributing Area (acres)	0.83
Weighted Runoff Coefficient[1]	0.36
Design Event[2]	50-year
Design Intensity (in/hr)[3]	2.74
Design Peak Flow (cfs)	103.93

Cross Drain Sizing Calculations

Assumed Velocity (ft/s)	6	
Cross-sectional Area Required (ft^2)	17.32	
Recommended Culvert Size	60 inch	
Provided Cross Sectional Area (ft^2)	19.63	
Upstream Est. SHWL Elev (ft-NAVD88)	N/A	SHWT was not estimated here for floodplain impacts.
Upstream Est. Ground Elev (ft-NAVD88)	79.9	
Additional Culvert Height Required	0.0	
Equlivent Recommended Culvert Size (CBC)	60 inch	

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Cost Estimate Calculations

Pay Item No.	Description	Unit	Quantity
400-2-2	Concrete Class II, Endwalls	CY	22.6
415-1-1	Reinforcing Steel - Roadway	LB	1390
430-175-160	Pipe Culvert, Round, 60" CD	LF	294
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	12.9

Notes:

[1] Pervious Runoff Coefficients value assumed to be the max of Pasture/Grass with poorly drained soils at 2-7% slope. Frequency Factor applied per Design Storm Event (Tables B-4 & B-5, FDOT Drainage Design Guide, January 2017).

[2] Per FDOT Drainage Manual, 50-year considered design event for mainline interstates and 100-year used if culvert proposed within regulated floodway.

[3] Design Intensity calculated from FDOT IDF Regression Equations for Tc < 180 minutes. If Tc > 180 minutes, intensity estimated directly from the IDF Curve.

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Table B.5 - Proposed Offsite Conveyance Calculations

Proposed Cross Drain at Poinciana Pkwy Extension/I-4 Connector

Cross Drain Name	CD-300A
Corridor	532_Alt3
Precipitation Zone	8
Pervious C-Value[1]	0.3
Impervious C-value	0.95
Time of Concentration (min)	0.0

Basin Runoff Calculations

Total Contributing Area (acres)	53.67
Pervious Contributing Area (acres)	50.00
Impervious Contributing Area (acres)	0.00
Weighted Runoff Coefficient[1]	0.34
Design Event[2]	50-year
Design Intensity (in/hr)[3]	#NUM!
Design Peak Flow (cfs)	#NUM!

Cross Drain Sizing Calculations

Assumed Velocity (ft/s)	6
Cross-sectional Area Required (ft^2)	#NUM!
Recommended Culvert Size	6 ft x 4 ft
Provided Cross Sectional Area (ft^2)	24
Upstream Est. SHWL Elev (ft-NAVD88)	N/A; SHWT below US Ground Elevation
Upstream Est. Ground Elev (ft-NAVD88)	
Additional Culvert Height Required	
Recommended Culvert Size Total	6 ft x 4 ft

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Cost Estimate Calculations

Pay Item No.	Description	Unit	Quantity
400-4-1	Concrete Class IV, Culverts	CY	240.9
415-1-1	Reinforcing Steel - Roadway	LB	63,839
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	13.4

Notes:

[1] Pervious Runoff Coefficients value assumed to be the max of Pasture/Grass with poorly drained soils at 2-7% slope. Frequency Factor applied per Design Storm Event (Tables B-4 & B-5, FDOT Drainage Design Guide, January 2017).

[2] Per FDOT Drainage Manual, 50-year considered design event for mainline interstates and 100-year used if culvert proposed within regulated floodway.

[3] Design Intensity calculated from FDOT IDF Regression Equations for Tc < 180 minutes. If Tc > 180 minutes, intensity estimated directly from the IDF Curve.

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Table B.5 - Proposed Offsite Conveyance Calculations

Proposed Cross Drain at Poinciana Pkwy Extension/I-4 Connector

Cross Drain Name	CD-302
Corridor	3A-3 & 3A-5
Precipitation Zone	8
Pervious C-Value[1]	0.3
Impervious C-value	0.95
Time of Concentration (min)	98.0

Basin Runoff Calculations

Total Contributing Area (acres)	54.38
Pervious Contributing Area (acres)	53.84
Impervious Contributing Area (acres)	0.54
Weighted Runoff Coefficient[1]	0.37
Design Event[2]	50-year
Design Intensity (in/hr)[3]	3.09
Design Peak Flow (cfs)	61

Cross Drain Sizing Calculations

Assumed Velocity (ft/s)	7
Cross-sectional Area Required (ft^2)	8.77
Recommended Culvert Size	42 inch
Provided Cross Sectional Area (ft^2)	9.62
Upstream Est. SHWL Elev (ft-NAVD88)	87.0
Upstream Est. Ground Elev (ft-NAVD88)	86.5
Additional Culvert Height Required	0.5
Recommended Culvert Size Total	48 inch

REFERENCE COPY

Cost Estimate Calculations

Pay Item No.	Description	Unit	Quantity
400-1-2	Concrete Class I, Endwalls	CY	16.3
430-175-148	Pipe Culvert, Round, 48" CD	LF	294
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	10.5

Notes:

[1] Pervious Runoff Coefficients value assumed to be the max of Pasture/Grass with poorly drained soils at 2-7% slope. Frequency Factor applied per Design Storm Event (Tables B-4 & B-5, FDOT Drainage Design Guide, January 2017).

[2] Per FDOT Drainage Manual, 50-year considered design event for mainline interstates and 100-year used if culvert proposed within regulated floodway.

[3] Design Intensity calculated from FDOT IDF Regression Equations for Tc < 180 minutes. If Tc > 180 minutes, intensity estimated directly from the IDF Curve.

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Table B.5 - Proposed Offsite Conveyance Calculations

Proposed Cross Drain at Poinciana Pkwy Extension/I-4 Connector

Cross Drain Name	CD-304
Corridor	3A-3 & 3A-5
Precipitation Zone	8
Pervious C-Value[1]	0.3
Impervious C-value	0.95
Time of Concentration (min)	139.6

Basin Runoff Calculations

Total Contributing Area (acres)	75.85
Pervious Contributing Area (acres)	75.09
Impervious Contributing Area (acres)	0.76
Weighted Runoff Coefficient[1]	0.37
Design Event[2]	50-year
Design Intensity (in/hr)[3]	2.34
Design Peak Flow (cfs)	64.88

Total Contributing Flow Calculations

Exist. 36" at Osceola Polk Line Rd (cfs)	42.41	Assumed full flow at 6 fps
Exist. 6-29"x45" at Sandy Ridge Dr (cfs)	266.4	Assumed full flow at 6 fps
Total Design Peak Flow (cfs)	374	

Cross Drain Sizing Calculations

REFERENCE COPY

Assumed Velocity (ft/s)	6
Cross-sectional Area Required (ft^2)	62.28
Recommended Culvert Size	10 ft x 7 ft
Provided Cross Sectional Area (ft^2)	70.00
Upstream Est. SHWL Elev (ft-NAVD88)	83
Upstream Est. Ground Elev (ft-NAVD88)	82.7
Additional Culvert Height Required	0.3
Recommended Culvert Size Total	10 ft x 8 ft

Cost Estimate Calculations

Pay Item No.	Description	Unit	Quantity
400-4-1	Concrete Class IV, Culverts	CY	406.0
415-1-1	Reinforcing Steel - Roadway	LB	107,590
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	23.0

Notes:

[1] Pervious Runoff Coefficients value assumed to be the max of Pasture/Grass with poorly drained soils at 2-7% slope. Frequency Factor applied per Design Storm Event (Tables B-4 & B-5, FDOT Drainage Design Guide, January 2017).

[2] Per FDOT Drainage Manual, 50-year considered design event for mainline interstates and 100-year used if culvert proposed within regulated floodway.

[3] Design Intensity calculated from FDOT IDF Regression Equations for Tc < 180 minutes. If Tc > 180 minutes, intensity estimated directly from the IDF Curve.

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Table B.5 - Proposed Offsite Conveyance Calculations

Proposed Cross Drain at Poinciana Pkwy Extension/I-4 Connector

Cross Drain Name	CD-403B
Corridor	2A-2, 2A-3, 2A-4, 2A-5, 3-5, 3-2, 3A-3, 3A-5
Precipitation Zone	8
Pervious C-Value[1]	0.3
Impervious C-value	0.95
Time of Concentration (min)	116.3

Basin Runoff Calculations

Total Contributing Area (acres)	280.49
Pervious Contributing Area (acres)	278.63
Impervious Contributing Area (acres)	1.86
Weighted Runoff Coefficient[1]	0.36
Design Event[2]	50-year
Design Intensity (in/hr)[3]	2.71
Design Peak Flow (cfs)	276.65

Total Contributing Flow Calculations[4]

36" at Kinny Harmon Rd (cfs)	53
2-24" at Kinny Harmon Rd (cfs)	37
24" at Kinney Harmon Rd (cfs)	24
Total Design Peak Flow (cfs)	391

REFERENCE COPY

Cross Drain Sizing Calculations

Assumed Velocity (ft/s)	6
Cross-sectional Area Required (ft^2)	65.11
Recommended Culvert Size	1 - 12 ft x 6 ft
Provided Cross Sectional Area (ft^2)	72.00
Upstream Est. SHWL Elev (ft-NAVD88)	65
Upstream Est. Ground Elev (ft-NAVD88)	64.8
Additional Culvert Height Required	0.2
Recommended Culvert Size Total	1 - 12 ft x 8 ft

Cost Estimate Calculations

Pay Item No.	Description	Unit	Quantity
400-4-1	Concrete Class IV, Culverts	CY	545.0
415-1-1	Reinforcing Steel - Roadway	LB	144,425
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	24.9

Notes:

[1] Pervious Runoff Coefficients value assumed to be the max of Pasture/Grass with poorly drained soils at 2-7% slope. Frequency Factor applied per Design Storm Event (Tables B-4 & B-5, FDOT Drainage Design Guide, January 2017).

[2] Per FDOT Drainage Manual, 50-year considered design event for mainline interstates and 100-year used if culvert proposed within regulated floodway.

[3] Design Intensity calculated from FDOT IDF Regression Equations for Tc < 180 minutes. If Tc > 180 minutes, intensity estimated directly from the IDF Curve.

[4] Additional flow from CDs along Kinny Harmon Rd. from Flood Data Box within SFWMD ERP App. 141010-12 Poinciana Pkwy

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Table B.5 - Proposed Offsite Conveyance Calculations

Proposed Cross Drain at Poinciana Pkwy Extension/I-4 Connector

Cross Drain Name	CD-406B
Corridor	2A-2, 2A-5, 3-2, 3-5, 3A-5
Precipitation Zone	8
Pervious C-Value[1]	0.3
Impervious C-value	0.95
Time of Concentration (min)	109.0

Basin Runoff Calculations

Total Contributing Area (acres)	66.52
Pervious Contributing Area (acres)	65.88
Impervious Contributing Area (acres)	0.64
Weighted Runoff Coefficient[1]	0.37
Design Event[2]	50-year
Design Intensity (in/hr)[3]	2.85
Design Peak Flow (cfs)	69.33

Total Contributing Flow Calculations[4]

2-24" at Kinny Harmon Rd (cfs)	24	SFWMD Permit App. 141010-12
2-24"x38" at Kinny Harmon Rd (cfs)	24	SFWMD Permit App. 141010-12
Total Design Peak Flow (cfs)	117	

Cross Drain Sizing Calculations

REFERENCE COPY

Assumed Velocity (ft/s)	6	
Cross-sectional Area Required (ft^2)	19.6	
Recommended Culvert Size	60 inch	
Provided Cross Sectional Area (ft^2)	19.6	
Upstream Est. SHWL Elev (ft-NAVD88)	74	
Upstream Est. Ground Elev (ft-NAVD88)	73.5	
Additional Culvert Height Required	0.5	Would require a pipe > 60", convert to CBC.
Equlivent Recommended Culvert Size (CBC)	7 ft x 3 ft	
Provided Cross Sectional Area (ft^2)	21.0	
Total Recommended Culvert Size (CBC)	7 ft x 4 ft	

Cost Estimate Calculations

Pay Item No.	Description	Unit	Quantity
400-4-1	Concrete Class IV, Culverts	CY	261.5
415-1-1	Reinforcing Steel - Roadway	LB	69,298
530-3-4	Riprap, Rubble, F&I, Ditch Lining	TN	14.2

Notes:

[1] Pervious Runoff Coefficients value assumed to be the max of Pasture/Grass with poorly drained soils at 2-7% slope. Frequency Factor applied per Design Storm Event (Tables B-4 & B-5, FDOT Drainage Design Guide, January 2017).

[2] Per FDOT Drainage Manual, 50-year considered design event for mainline interstates and 100-year used if culvert proposed within regulated floodway.

[3] Design Intensity calculated from FDOT IDF Regression Equations for Tc < 180 minutes. If Tc > 180 minutes, intensity estimated directly from the IDF Curve.

[4] Additional flow from CDs along Kinny Harmon Rd. from Flood Data Box within SFWMD ERP App. 141010-12 Poinciana Pkwy

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Table B.6 - Proposed Time of Concentration Summary

Cross Drain ID	Time of Concentration (min)
CD-101	31.3
CD-102	10.0
CD-103	102.7
CD-104	114.7
CD-105	37.7
CD-106	52.8
CD-107	108.9
CD-300A	16.8
CD-302	98.0
CD-304	139.6
CD-403B	116.3
CD-406B	109.0

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PROJECT:	CFX Feasibility Study: I-4 / Poinciana Parkway Connector	**PREPARED:**	ALE	**DATE:**	12/18/17
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Table B.7 - Proposed Offsite Time of Concentration Calculations

EXISTING or DEVELOPED / UNDEVELOPED BASIN: CD-101

Tc or Tt (through subarea)

L = 2,158 ft

Sheet flow (Applicable to Tc only)

Segment ID	AB
1. Surface description†	Grass
2. Mannings roughness coeff., n †	0.15
3. Flow length, L (total L ≤ 100 ft.)	100
4. 2-year, 24-hour rainfall (in.) ††	4.5
5. Land slope, s (ft./ft.)	0.017
6. Compute Tt in hr, Tt = $[0.007(nL)^{0.8}] / [P_{24hr}^{0.5} s^{0.4}]$ †††	0.147
Subtotal	**0.15**

Shallow Concentrated Flow

Segment ID	BC	BC
7. Surface description (Paved or Unpaved)	Paved	Unpaved
8. Flow length, L (ft)	1,000	1,058
9. Watercourse slope, s (ft/ft)	0.005	0.010
10. Average velocity††† , V = kS^0.5 (fps)	1.45	1.61
11. Compute Tt in hr, Tt = L/3600V	0.19	0.18
Subtotal		**0.37**

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Channel & Pipe Flow

Segment ID	
12. Segment Type	
13. Pipe Diameter (in.)	
14. Cross sectional flow area, a (assumed d=0.5 ft)	
15. Wetted perimeter, Pw	
16. Hydraulic radius (ft), r = a/Pw, Compute r	
17. Channel/Pipe slope, s (ft./ft.)	
18. Manning's roughness coeff., n	
19. V = 1.486(r^0.667)(s^0.50)/n, Compute V	
20. Flow length, L	
21. Compute Tt in hr, Tt = L/3600V	
22. Subtotal	

Time of Concentration, hr. (summation of subtotals)

Hours	0.52
Minutes	31.3
Total	**31.3**

Notes:

† Values from Table 3-1 of Urban Hydrology for Small Watersheds, Technical Release of TR-55

†† The 2-year, 24-hour rainfall was used based on TR-55 Figure B-3.

††† This equation is derived from TR-55

PROJECT:	CFX Feasibility Study:	**PREPARED:**	EAR	**DATE:**	2/15/2018
	I-4 / Poinciana Parkway Connector				
LOCATION:	Osceola and Polk County, Florida	**CHECKED:**	JAN	**DATE:**	02/15/18

Table B.7 - Proposed Offsite Time of Concentration Calculations

EXISTING or DEVELOPED / UNDEVELOPED BASIN: CD-102

Tc or Tt (through subarea)

L = 665 ft

Sheet flow (Applicable to Tc only)

Segment ID	AB
1. Surface description†	Grass
2. Mannings roughness coeff., n †	0.15
3. Flow length, L (total L ≤ 100 ft.)	100
4. 2-year, 24-hour rainfall (in.) ††	4.5
5. Land slope, s (ft./ft.)	0.038
6. Compute Tt in hr, Tt = $[0.007(nL)^{0.8}] / [P_{24hr}^{0.5} s^{0.4}]$ †††	0.107
Subtotal	**0.11**

Shallow Concentrated Flow

Segment ID	BC
7. Surface description (Paved or Unpaved)	Unpaved
8. Flow length, L (ft)	565
9. Watercourse slope, s (ft/ft)	0.037
10. Average velocity†††, V = kS^0.5 (fps)	3.09
11. Compute Tt in hr, Tt = L/3600V	0.05
Subtotal	**0.05**

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Channel & Pipe Flow

Segment ID		
12. Segment Type		
12. Pipe Diameter (in.)		
12. Cross sectional flow area, a (assumed d=0.5 ft)		
13. Wetted perimeter, Pw		
14. Hydraulic radius (ft), r = a/Pw, Compute r		
15. Channel/Pipe slope, s (ft./ft.)		
16. Manning's roughness coeff., n		
17. V = 1.486(r^0.667)(s^0.50)/n, Compute V		
18. Flow length, L		
19. Tt = L/3600V		
20. Subtotal		

Time of Concentration, hr. (summation of subtotals)

Hours	0.16
Minutes	9.4
Total	**10.0**

Notes:

† Values from Table 3-1 of Urban Hydrology for Small Watersheds, Technical Release of TR-55

†† The 2-year, 24-hour rainfall was used based on TR-55 Figure B-3.

††† This equation is derived from TR-55

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Table B.7 - Proposed Offsite Time of Concentration Calculations

EXISTING or DEVELOPED / UNDEVELOPED BASIN: CD-103

Tc or Tt (through subarea)

L = 6184 ft

Sheet flow (Applicable to Tc only)

Segment ID	AB
1. Surface description†	Range
2. Mannings roughness coeff., n †	0.13
3. Flow length, L (total L ≤ 100 ft.)	100
4. 2-year, 24-hour rainfall (in.) ††	4.5
5. Land slope, s (ft./ft.)	0.045
6. Compute Tt in hr, Tt = $[0.007(nL)^{0.8}] / [P_{24hr}^{0.5} s^{0.4}]$ †††	0.089
Subtotal	**0.09**

Shallow Concentrated Flow

Segment ID	BC	BC
7. Surface description (Paved or Unpaved)	Unpaved	Unpaved
8. Flow length, L (ft)	1138	4946
9. Watercourse slope, s (ft/ft)	0.036	0.003
10. Average velocity†††, V = kS^0.5 (fps)	3.08	0.90
11. Compute Tt in hr, Tt = L/3600V	0.10	1.52
Subtotal		**1.62**

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Channel & Pipe Flow

Segment ID		
12. Segment Type		
12. Pipe Diameter (in.)		
12. Cross sectional flow area, a (assumed d=0.5 ft)		
13. Wetted perimeter, Pw		
14. Hydraulic radius (ft), r = a/Pw, Compute r		
15. Channel/Pipe slope, s (ft./ft.)		
16. Manning's roughness coeff., n		
17. V = 1.486(r^0.667)(s^0.50)/n, Compute V		
18. Flow length, L		
19. Tt = L/3600V		
20. Subtotal		

Time of Concentration, hr. (summation of subtotals)

Hours	1.71
Minutes	102.7
Total	**102.7**

Notes:

† Values from Table 3-1 of Urban Hydrology for Small Watersheds, Technical Release of TR-55

†† The 2-year, 24-hour rainfall was used based on TR-55 Figure B-3.

††† This equation is derived from TR-55

PROJECT:	CFX Feasibility Study:	**PREPARED:**	EAR	**DATE:**	2/15/2018
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Table B.7 - Proposed Offsite Time of Concentration Calculations

EXISTING or DEVELOPED / UNDEVELOPED BASIN: CD-104

Tc or Tt (through subarea)

L = 4870 ft

Sheet flow (Applicable to Tc only)

Segment ID	AB
1. Surface description†	Woods
2. Mannings roughness coeff., n †	0.4
3. Flow length, L (total L ≤ 100 ft.)	100
4. 2-year, 24-hour rainfall (in.) ††	4.5
5. Land slope, s (ft./ft.)	0.004
6. Compute Tt in hr, Tt = $[0.007(nL)^{0.8}] / [P_{24hr}^{0.5} s^{0.4}]$ †††	0.575
Subtotal	**0.57**

Shallow Concentrated Flow

Segment ID	BC
7. Surface description (Paved or Unpaved)	Unpaved
8. Flow length, L (ft)	4770
9. Watercourse slope, s (ft/ft)	0.004
10. Average velocity†††, V = kS^0.5 (fps)	0.99
11. Compute Tt in hr, Tt = L/3600V	1.34
Subtotal	**1.34**

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Channel & Pipe Flow

Segment ID		
12. Segment Type		
12. Pipe Diameter (in.)		
12. Cross sectional flow area, a (assumed d=0.5 ft)		
13. Wetted perimeter, Pw		
14. Hydraulic radius (ft), r = a/Pw, Compute r		
15. Channel/Pipe slope, s (ft./ft.)		
16. Manning's roughness coeff., n		
17. V = 1.486(r^0.667)(s^0.50)/n, Compute V		
18. Flow length, L		
19. Tt = L/3600V		
20. Subtotal		

Time of Concentration, hr. (summation of subtotals)

Hours	1.91
Minutes	114.7
Total	**114.7**

Notes:

† Values from Table 3-1 of Urban Hydrology for Small Watersheds, Technical Release of TR-55

†† The 2-year, 24-hour rainfall was used based on TR-55 Figure B-3.

††† This equation is derived from TR-55

PROJECT:	CFX Feasibility Study:	**PREPARED:**	EAR	**DATE:**	2/15/2018
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LOCATION:	Osceola and Polk County, Florida	**CHECKED:**	JAN	**DATE:**	02/15/18

Table B.7 - Proposed Offsite Time of Concentration Calculations

EXISTING or DEVELOPED / UNDEVELOPED BASIN: CD-105

Tc or Tt (through subarea)

L = 1517 ft

Sheet flow (Applicable to Tc only)

Segment ID	AB
1. Surface description†	Range
2. Mannings roughness coeff., n †	0.13
3. Flow length, L (total L ≤ 100 ft.)	100
4. 2-year, 24-hour rainfall (in.) ††	4.5
5. Land slope, s (ft./ft.)	0.004
6. Compute Tt in hr, Tt = $[0.007(nL)^{0.8}] / [P_{24hr}^{0.5} s^{0.4}]$ †††	0.234
Subtotal	**0.23**

Shallow Concentrated Flow

Segment ID	BC	BC
7. Surface description (Paved or Unpaved)	Unpaved	Unpaved
8. Flow length, L (ft)	441	1417
9. Watercourse slope, s (ft/ft)	0.012	0.006
10. Average velocity†††, V = kS^0.5 (fps)	1.74	1.21
11. Compute Tt in hr, Tt = L/3600V	0.07	0.32
Subtotal		**0.40**

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Channel & Pipe Flow

Segment ID		
12. Segment Type		
12. Pipe Diameter (in.)		
12. Cross sectional flow area, a (assumed d=0.5 ft)		
13. Wetted perimeter, Pw		
14. Hydraulic radius (ft), r = a/Pw, Compute r		
15. Channel/Pipe slope, s (ft./ft.)		
16. Manning's roughness coeff., n		
17. V = 1.486(r^0.667)(s^0.50)/n, Compute V		
18. Flow length, L		
19. Tt = L/3600V		
20. Subtotal		

Time of Concentration, hr. (summation of subtotals)

Hours	0.63
Minutes	37.7
Total	**37.7**

Notes:

† Values from Table 3-1 of Urban Hydrology for Small Watersheds, Technical Release of TR-55

†† The 2-year, 24-hour rainfall was used based on TR-55 Figure B-3.

††† This equation is derived from TR-55

PROJECT:	CFX Feasibility Study:	**PREPARED:**	EAR	**DATE:**	2/15/2018
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LOCATION:	Osceola and Polk County, Florida	**CHECKED:**	JAN	**DATE:**	02/15/18

Table B.7 - Proposed Offsite Time of Concentration Calculations

EXISTING or DEVELOPED / UNDEVELOPED BASIN: CD-106

Tc or Tt (through subarea)

L = 2418 ft

Sheet flow (Applicable to Tc only)

Segment ID	AB
1. Surface description†	Range
2. Mannings roughness coeff., n †	0.13
3. Flow length, L (total L ≤ 100 ft.)	100
4. 2-year, 24-hour rainfall (in.) ††	4.5
5. Land slope, s (ft./ft.)	0.004
6. Compute Tt in hr, Tt = $[0.007(nL)^{0.8}] / [P_{24hr}^{0.5} s^{0.4}]$ †††	0.234
Subtotal	**0.23**

Shallow Concentrated Flow

Segment ID	BC
7. Surface description (Paved or Unpaved)	Unpaved
8. Flow length, L (ft)	2318
9. Watercourse slope, s (ft/ft)	0.004
10. Average velocity†††, V = kS^0.5 (fps)	1.00
11. Compute Tt in hr, Tt = L/3600V	0.65
Subtotal	**0.65**

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Channel & Pipe Flow

Segment ID	
12. Segment Type	
12. Pipe Diameter (in.)	
12. Cross sectional flow area, a (assumed d=0.5 ft)	
13. Wetted perimeter, Pw	
14. Hydraulic radius (ft), r = a/Pw, Compute r	
15. Channel/Pipe slope, s (ft./ft.)	
16. Manning's roughness coeff., n	
17. V = 1.486(r^0.667)(s^0.50)/n, Compute V	
18. Flow length, L	
19. Tt = L/3600V	
20. Subtotal	

Time of Concentration, hr. (summation of subtotals)		
	Hours	0.88
	Minutes	52.8
	Total	**52.8**

Notes:

† Values from Table 3-1 of Urban Hydrology for Small Watersheds, Technical Release of TR-55

†† The 2-year, 24-hour rainfall was used based on TR-55 Figure B-3.

††† This equation is derived from TR-55

PROJECT:	CFX Feasibility Study: I-4 / Poinciana Parkway Connector	**PREPARED:**	ALE	**DATE:**	11/3/2017
LOCATION:	Osceola County, Florida	**CHECKED:**	JAN	**DATE:**	02/15/18

Table B.7 - Proposed Offsite Time of Concentration Calculations

EXISTING or DEVELOPED / UNDEVELOPED BASIN: CD-107

Tc or Tt (through subarea)

L = 3,255 ft

Sheet flow (Applicable to Tc only)

Segment ID	AB
1. Surface description†	Woods
2. Mannings roughness coeff., n †	0.4
3. Flow length, L (total L ≤ 100 ft.)	100
4. 2-year, 24-hour rainfall (in.) ††	4.5
5. Land slope, s (ft./ft.)	0.005
6. Compute Tt in hr, Tt = $[0.007(nL)^{0.8}] / [P_{24hr}^{0.5} s^{0.4}]$ †††	0.525
Subtotal	**0.53**

Shallow Concentrated Flow

Segment ID	BC
7. Surface description (Paved or Unpaved)	Unpaved
8. Flow length, L (ft)	3,155
9. Watercourse slope, s (ft/ft)	0.002
10. Average velocity†††, V = kS^0.5 (fps)	0.68
11. Compute Tt in hr, Tt = L/3600V	1.29
Subtotal	**1.29**

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Channel & Pipe Flow

Segment ID	
12. Segment Type	
13. Pipe Diameter (in.)	
14. Cross sectional flow area, a (assumed d=0.5 ft)	
15. Wetted perimeter, Pw	
16. Hydraulic radius (ft), r = a/Pw, Compute r	
17. Channel/Pipe slope, s (ft./ft.)	
18. Manning's roughness coeff., n	
19. V = 1.486(r^0.667)(s^0.50)/n, Compute V	
20. Flow length, L	
21. Compute Tt in hr, Tt = L/3600V	
22. Subtotal	

Time of Concentration, hr. (summation of subtotals)

Hours	1.81
Minutes	108.9
Total	**108.9**

Notes:

† Values from Table 3-1 of Urban Hydrology for Small Watersheds, Technical Release of TR-55

†† The 2-year, 24-hour rainfall was used based on TR-55 Figure B-3.

††† This equation is derived from TR-55

PROJECT:	CFX Feasibility Study: I-4 / Poinciana Parkway Connector	**PREPARED:**	ALE	**DATE:**	12/18/17
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Table B.7 - Proposed Offsite Time of Concentration Calculations

EXISTING or DEVELOPED / UNDEVELOPED BASIN: CD-300A

Tc or Tt (through subarea)

L = 1,181 ft

Sheet flow (Applicable to Tc only)

Segment ID	AB
1. Surface description†	Grass
2. Mannings roughness coeff., n †	0.15
3. Flow length, L (total L ≤ 100 ft.)	100
4. 2-year, 24-hour rainfall (in.) ††	4.5
5. Land slope, s (ft./ft.)	0.021
6. Compute Tt in hr, Tt = $[0.007(nL)^{0.8}] / [P_{24hr}^{0.5} s^{0.4}]$ †††	0.135
Subtotal	**0.14**

Shallow Concentrated Flow

Segment ID	BC
7. Surface description (Paved or Unpaved)	Unpaved
8. Flow length, L (ft)	1,081
9. Watercourse slope, s (ft/ft)	0.017
10. Average velocity†††, V = kS^0.5 (fps)	2.08
11. Compute Tt in hr, Tt = L/3600V	0.14
Subtotal	**0.14**

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Channel & Pipe Flow

Segment ID	
12. Segment Type	
13. Pipe Diameter (in.)	
14. Cross sectional flow area, a (assumed d=0.5 ft)	
15. Wetted perimeter, Pw	
16. Hydraulic radius (ft), r = a/Pw, Compute r	
17. Channel/Pipe slope, s (ft./ft.)	
18. Manning's roughness coeff., n	
19. V = 1.486(r^0.667)(s^0.50)/n, Compute V	
20. Flow length, L	
21. Compute Tt in hr, Tt = L/3600V	
22. Subtotal	

Time of Concentration, hr. (summation of subtotals)		
	Hours	0.28
	Minutes	16.8
	Total	**16.8**

Notes:

† Values from Table 3-1 of Urban Hydrology for Small Watersheds, Technical Release of TR-55

†† The 2-year, 24-hour rainfall was used based on TR-55 Figure B-3.

††† This equation is derived from TR-55

PROJECT:	CFX Feasibility Study:	**PREPARED:**	ALE	**DATE:**	11/03/17
	I-4 / Poinciana Parkway Connector				
LOCATION:	Osceola County, Florida	**CHECKED:**	JAN	**DATE:**	02/15/18

Table B.7 - Proposed Offsite Time of Concentration Calculations

EXISTING or DEVELOPED / UNDEVELOPED BASIN: CD-302

Tc or Tt (through subarea)

L = 2,124 ft

Sheet flow (Applicable to Tc only)

Segment ID	AB
1. Surface description†	Woods
2. Mannings roughness coeff., n †	0.4
3. Flow length, L (total L ≤ 100 ft.)	100
4. 2-year, 24-hour rainfall (in.) ††	4.5
5. Land slope, s (ft./ft.)	0.004
6. Compute Tt in hr, Tt = $[0.007(nL)^{0.8}] / [P_{24hr}^{0.5} s^{0.4}]$ †††	0.575
Subtotal	**0.57**

Shallow Concentrated Flow

Segment ID	BC	BC
7. Surface description (Paved or Unpaved)	Unpaved	Unpaved
8. Flow length, L (ft)	570	1,454
9. Watercourse slope, s (ft/ft)	0.009	0.0007
10. Average velocity†††, V = kS^0.5 (fps)	1.51	0.42
11. Compute Tt in hr, Tt = L/3600V	0.10	0.95
Subtotal		**1.06**

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Channel & Pipe Flow

Segment ID	
12. Segment Type	
13. Pipe Diameter (in.)	
14. Cross sectional flow area, a (assumed d=0.5 ft)	
15. Wetted perimeter, Pw	
16. Hydraulic radius (ft), r = a/Pw, Compute r	
17. Channel/Pipe slope, s (ft./ft.)	
18. Manning's roughness coeff., n	
19. V = 1.486(r^0.667)(s^0.50)/n, Compute V	
20. Flow length, L	
21. Compute Tt in hr, Tt = L/3600V	
22. Subtotal	

Time of Concentration, hr. (summation of subtotals)

Hours	1.63
Minutes	98.0
Total	**98.0**

Notes:

† Values from Table 3-1 of Urban Hydrology for Small Watersheds, Technical Release of TR-55

†† The 2-year, 24-hour rainfall was used based on TR-55 Figure B-3.

††† This equation is derived from TR-55

PROJECT:	CFX Feasibility Study: I-4 / Poinciana Parkway Connector	**PREPARED:**	ALE	**DATE:**	11/03/17
LOCATION:	Osceola County, Florida	**CHECKED:**	JAN	**DATE:**	02/15/18

Table B.7 - Proposed Offsite Time of Concentration Calculations

EXISTING or DEVELOPED / UNDEVELOPED BASIN: CD-304

Tc or Tt (through subarea)

L = 1,537 ft

Sheet flow (Applicable to Tc only)

Segment ID	AB
1. Surface description†	Woods
2. Mannings roughness coeff., n †	0.4
3. Flow length, L (total L ≤ 100 ft.)	100
4. 2-year, 24-hour rainfall (in.) ††	4.5
5. Land slope, s (ft./ft.)	0.001
6. Compute Tt in hr, Tt = $[0.007(nL)^{0.8}] / [P_{24hr}^{0.5} s^{0.4}]$ †††	1.000
Subtotal	**1.00**

Shallow Concentrated Flow

Segment ID	BC
7. Surface description (Paved or Unpaved)	Unpaved
8. Flow length, L (ft)	1,437
9. Watercourse slope, s (ft/ft)	0.0003
10. Average velocity†††, V = kS^0.5 (fps)	0.30
11. Compute Tt in hr, Tt = L/3600V	1.33
Subtotal	**1.33**

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Channel & Pipe Flow

Segment ID	
12. Segment Type	
13. Pipe Diameter (in.)	
14. Cross sectional flow area, a (assumed d=0.5 ft)	
15. Wetted perimeter, Pw	
16. Hydraulic radius (ft), r = a/Pw, Compute r	
17. Channel/Pipe slope, s (ft./ft.)	
18. Manning's roughness coeff., n	
19. V = 1.486(r^0.667)(s^0.50)/n, Compute V	
20. Flow length, L	
21. Compute Tt in hr, Tt = L/3600V	
22. Subtotal	

Time of Concentration, hr. (summation of subtotals)		
	Hours	2.33
	Minutes	139.6
	Total	**139.6**

Notes:

† Values from Table 3-1 of Urban Hydrology for Small Watersheds, Technical Release of TR-55

†† The 2-year, 24-hour rainfall was used based on TR-55 Figure B-3.

††† This equation is derived from TR-55

PROJECT:	CFX Feasibility Study: I-4 / Poinciana Parkway Connector	**PREPARED:**	ALE	**DATE:**	11/03/17
LOCATION:	Osceola County, Florida	**CHECKED:**	JAN	**DATE:**	02/15/18

Table B.7 - Proposed Offsite Time of Concentration Calculations

EXISTING or DEVELOPED / UNDEVELOPED BASIN: CD-403B

Tc or Tt (through subarea)

L = 3,748 ft

Sheet flow (Applicable to Tc only)

Segment ID	AB
1. Surface description†	Woods
2. Mannings roughness coeff., n †	0.4
3. Flow length, L (total L ≤ 100 ft.)	100
4. 2-year, 24-hour rainfall (in.) ††	4.5
5. Land slope, s (ft./ft.)	0.003
6. Compute Tt in hr, Tt = $[0.007(nL)^{0.8}] / [P_{24hr}^{0.5} s^{0.4}]$ †††	0.645
Subtotal	**0.64**

Shallow Concentrated Flow

Segment ID	BC
7. Surface description (Paved or Unpaved)	Unpaved
8. Flow length, L (ft)	205
9. Watercourse slope, s (ft/ft)	0.005
10. Average velocity†††, V = kS^0.5 (fps)	1.13
11. Compute Tt in hr, Tt = L/3600V	0.05
Subtotal	**0.05**

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Channel & Pipe Flow

Segment ID	CD
12. Segment Type	Channel
13. Pipe Diameter (in.)	--
14. Cross sectional flow area, a (assumed d=0.5 ft)	3.5
15. Wetted perimeter, Pw	9.12
16. Hydraulic radius (ft), r = a/Pw, Compute r	0.38
17. Channel/Pipe slope, s (ft./ft.)	0.006
18. Manning's roughness coeff., n	0.08
19. V = 1.486(r^0.667)(s^0.50)/n, Compute V	0.77
20. Flow length, L	3,443
21. Compute Tt in hr, Tt = L/3600V	1.24
22. Subtotal	**1.24**

Time of Concentration, hr. (summation of subtotals)	
Hours	1.94
Minutes	116.3
Total	**116.3**

Notes:

† Values from Table 3-1 of Urban Hydrology for Small Watersheds, Technical Release of TR-55

†† The 2-year, 24-hour rainfall was used based on TR-55 Figure B-3.

††† This equation is derived from TR-55

PROJECT:	CFX Feasibility Study: I-4 / Poinciana Parkway Connector	**PREPARED:**	ALE	**DATE:**	11/03/17
LOCATION:	Osceola County, Florida	**CHECKED:**	JAN	**DATE:**	02/15/18

Table B.7 - Proposed Offsite Time of Concentration Calculations

EXISTING or DEVELOPED / UNDEVELOPED BASIN: CD-406B

Tc or Tt (through subarea)

L = 2,924 ft

Sheet flow (Applicable to Tc only)

Segment ID	AB
1. Surface description†	Grass
2. Mannings roughness coeff., n †	0.15
3. Flow length, L (total L ≤ 100 ft.)	100
4. 2-year, 24-hour rainfall (in.) ††	4.5
5. Land slope, s (ft./ft.)	0.002
6. Compute Tt in hr, Tt = $[0.007(nL)^{0.8}] / [P_{24hr}^{0.5} s^{0.4}]$ †††	0.346
Subtotal	**0.35**

Shallow Concentrated Flow

Segment ID	BC	BC
7. Surface description (Paved or Unpaved)	Unpaved	Unpaved
8. Flow length, L (ft)	900	2,824
9. Watercourse slope, s (ft/ft)	0.005	0.002
10. Average velocity†††, V = kS^0.5 (fps)	1.12	0.63
11. Compute Tt in hr, Tt = L/3600V	0.22	1.25
Subtotal		**1.47**

REFERENCE COPY

Channel & Pipe Flow

Segment ID	
12. Segment Type	
13. Pipe Diameter (in.)	
14. Cross sectional flow area, a (assumed d=0.5 ft)	
15. Wetted perimeter, Pw	
16. Hydraulic radius (ft), r = a/Pw, Compute r	
17. Channel/Pipe slope, s (ft./ft.)	
18. Manning's roughness coeff., n	
19. V = 1.486(r^0.667)(s^0.50)/n, Compute V	
20. Flow length, L	
21. Compute Tt in hr, Tt = L/3600V	
22. Subtotal	

Time of Concentration, hr. (summation of subtotals)

Hours	1.82
Minutes	109.0
Total	**109.0**

Notes:

† Values from Table 3-1 of Urban Hydrology for Small Watersheds, Technical Release of TR-55

†† The 2-year, 24-hour rainfall was used based on TR-55 Figure B-3.

††† This equation is derived from TR-55