



Kimley-Horn
and Associates, Inc.

March 25, 2014

Mr. Mark Marsh, AIA
Bridges, Marsh & Associates, Inc.
18 Via Mizner
Palm Beach, FL 33480

■
Suite 200
1920 Wekiva Way
West Palm Beach, Florida
33411
TEL 561 845 0665

Re: Turn Lane Statement
Legacy Project – KHA #144397011
Palm Beach, Florida

Dear Mr. Marsh:

Kimley-Horn and Associates, Inc. was retained to prepare an evaluation of the traffic utilizing the existing northbound right-turn lane at the unsignalized intersection of SR A1A (South County Road) & Brazilian Avenue, in the Town of Palm Beach, Florida. It is proposed to restripe SR A1A at this location to allow parallel parking on both sides of the road as part of a larger redevelopment of the Town Hall square. Subsequently, the right-turn lane from northbound SR A1A to Brazilian Avenue is proposed to be removed. A shorter, channelized right-turn lane will remain. *Figure 1* illustrates the proposed configuration of the intersection. This analysis was prepared to address the requirements of the Florida Department of Transportation (FDOT) and Town of Palm Beach Standards regarding the need for a right-turn lane at this location.

Data Collection

Turning movement counts were collected at the intersection of SR A1A & Brazilian Avenue during the AM (7:00 AM to 9:00 AM) and PM (4:00 PM to 6:00 PM) peak hours on Tuesday, February 18, 2014 by Traffic Survey Specialists, Inc. The data sheets are attached to this letter.

Existing Right Turns

Based on the observed conditions, the northbound right-turn lane experiences a maximum demand of 15 peak hour right turns during the AM peak hour and 22 peak hour right turns during the PM peak hour. Since the traffic counts were observed within peak season, no further adjustments were made. The speed limit along SR A1A is 30 miles per hour. The FDOT Driveway Handbook recommends exclusive right turn lanes to unsignalized driveways when there are more than 80 peak hour right turns when the posted speed limit is 45 mph or lower. Although Brazilian Avenue is not a driveway, this is a reasonable standard to apply at this location due to the low volumes on the street. Because the northbound right turns do not meet the volume threshold for warranting a right-turn lane, the existing right-turn lane is not necessary to accommodate demand at this intersection.

Conclusion

The foregoing analysis demonstrates that the proposed reconfiguration of the intersection of SR A1A & Brazilian Avenue resulting in the conversion of the dedicated right-turn lane into a channelized right-turn lane will not result in a significant degradation to vehicle operations at this intersection.

Elimination of the northbound right-turn lane at the intersection of SR A1A & Brazilian Avenue will meet the



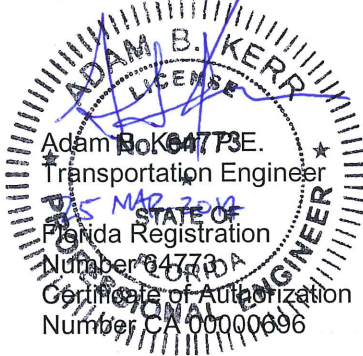
Mr. Mark Marsh, March 25, 2014, Page 2

Elimination of the northbound right-turn lane at the intersection of SR A1A & Brazilian Avenue will meet the requirements of the FDOT and Town of Palm Beach Standards.

We appreciate this opportunity to work with you on this project. Please contact me at 561-845-0665 if you have any questions.

Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.



ABK/

Attachments

K:\WPB_TPTO\Stephanie\Legacy Turn Lane\120313 Letter.doc

BRAZILIAN AVENUE & S COUNTY ROAD
PALM BEACH, FLORIDA
COUNTED BY: WAYNE ASSAM
NOT SIGNALIZED

Traffic Survey Specialists, Inc.
624 Gardenia Terrace
Delray Beach, Florida 33444
Phone (561) 272-3255

Site Code : 00140016
Start Date: 01/23/14
File I.D. : BRAZCOUN
Page : 1

ALL VEHICLES

Date	S COUNTY ROAD From North				BRAZILIAN AVENUE From East				S COUNTY ROAD From South				BRAZILIAN AVENUE From West				Total
	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	
01/23/14																	
07:00	0	2	21	2	0	1	1	1	1	1	16	0	0	0	0	0	46
07:15	0	0	25	0	0	1	3	0	2	6	15	1	0	2	0	0	55
07:30	0	0	38	2	0	2	2	2	6	5	29	0	0	0	0	3	89
07:45	0	4	50	5	0	1	1	1	9	8	52	0	0	1	2	5	139
Hr Total	0	6	134	9	0	5	7	4	18	20	112	1	0	3	2	8	329
08:00	0	4	68	2	0	1	3	4	5	12	38	2	0	0	2	9	150
08:15	0	8	62	2	0	0	3	3	3	6	52	2	0	4	2	8	155
08:30	1	5	80	2	0	2	6	4	8	17	44	7	0	0	3	10	189
08:45	0	13	74	12	0	4	9	8	8	6	57	4	0	3	6	11	215
Hr Total	1	30	284	18	0	7	21	19	24	41	191	15	0	7	13	38	709
* BREAK *																	
16:00	0	0	113	8	0	2	5	9	16	11	112	7	0	4	3	9	299
16:15	0	3	93	11	1	0	5	16	7	7	112	6	0	2	2	11	276
16:30	0	7	100	8	0	3	3	3	9	8	84	7	0	0	6	9	247
16:45	0	4	108	4	0	1	0	9	7	6	89	1	0	6	3	13	251
Hr Total	0	14	414	31	1	6	13	37	39	32	397	21	0	12	14	42	1073
17:00	0	8	91	5	0	2	5	10	11	7	108	3	0	3	4	9	266
17:15	0	5	97	5	0	0	3	9	12	7	79	2	0	3	3	11	236
17:30	0	1	96	4	0	2	4	7	11	7	83	3	0	4	2	11	235
17:45	0	8	87	5	0	0	4	10	5	8	78	5	0	5	0	6	221
Hr Total	0	22	371	19	0	4	16	36	39	29	348	13	0	15	9	37	958
TOTAL	1	72	1203	77	1	22	57	96	120	122	1048	50	0	37	38	125	3069

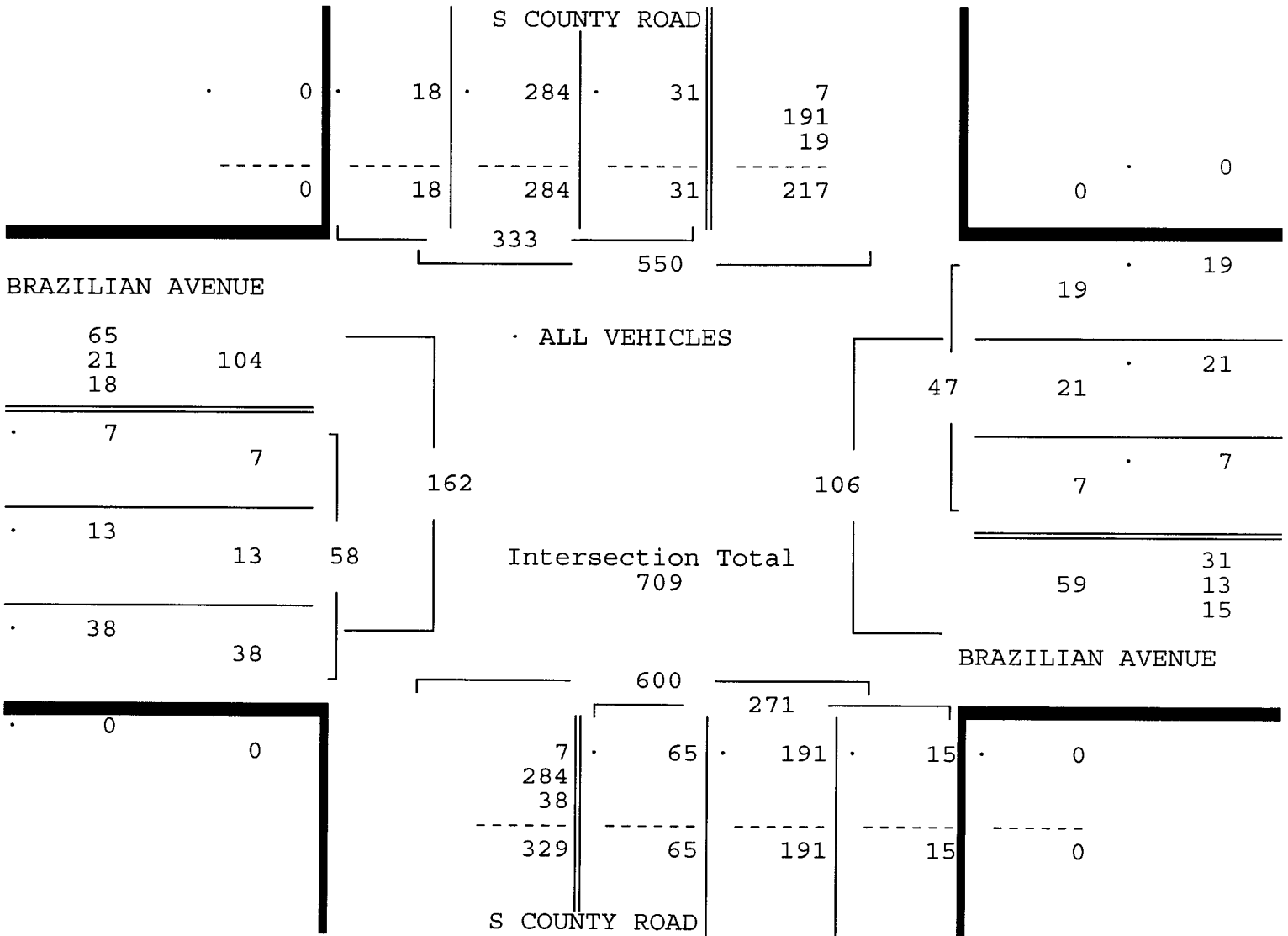
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PALM BEACH, FLORIDA
COUNTED BY: WAYNE ASSAM
NOT SIGNALIZED

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Delray Beach, Florida 33444
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ALL VEHICLES

S COUNTY ROAD					BRAZILIAN AVENUE					S COUNTY ROAD					BRAZILIAN AVENUE					Total
From North					From East					From South					From West					
UTurn	Left	Thru	Right		UTurn	Left	Thru	Right		UTurn	Left	Thru	Right		UTurn	Left	Thru	Right		
Date 01/23/14 -----																				
Peak Hour Analysis By Entire Intersection for the Period: 07:00 to 09:00 on 01/23/14																				
Peak start 08:00					08:00					08:00					08:00					
Volume	1	30	284	18	0	7	21	19		24	41	191	15		0	7	13	38		
Percent	0%	9%	85%	5%	0%	15%	45%	40%		9%	15%	70%	6%		0%	12%	22%	66%		
Pk total	333				47					271					58					
Highest	08:45				08:45					08:30					08:45					
Volume	0	13	74	12	0	4	9	8		8	17	44	7		0	3	6	11		
Hi total	99				21					76					20					
PHF	.84				.56					.89					.72					



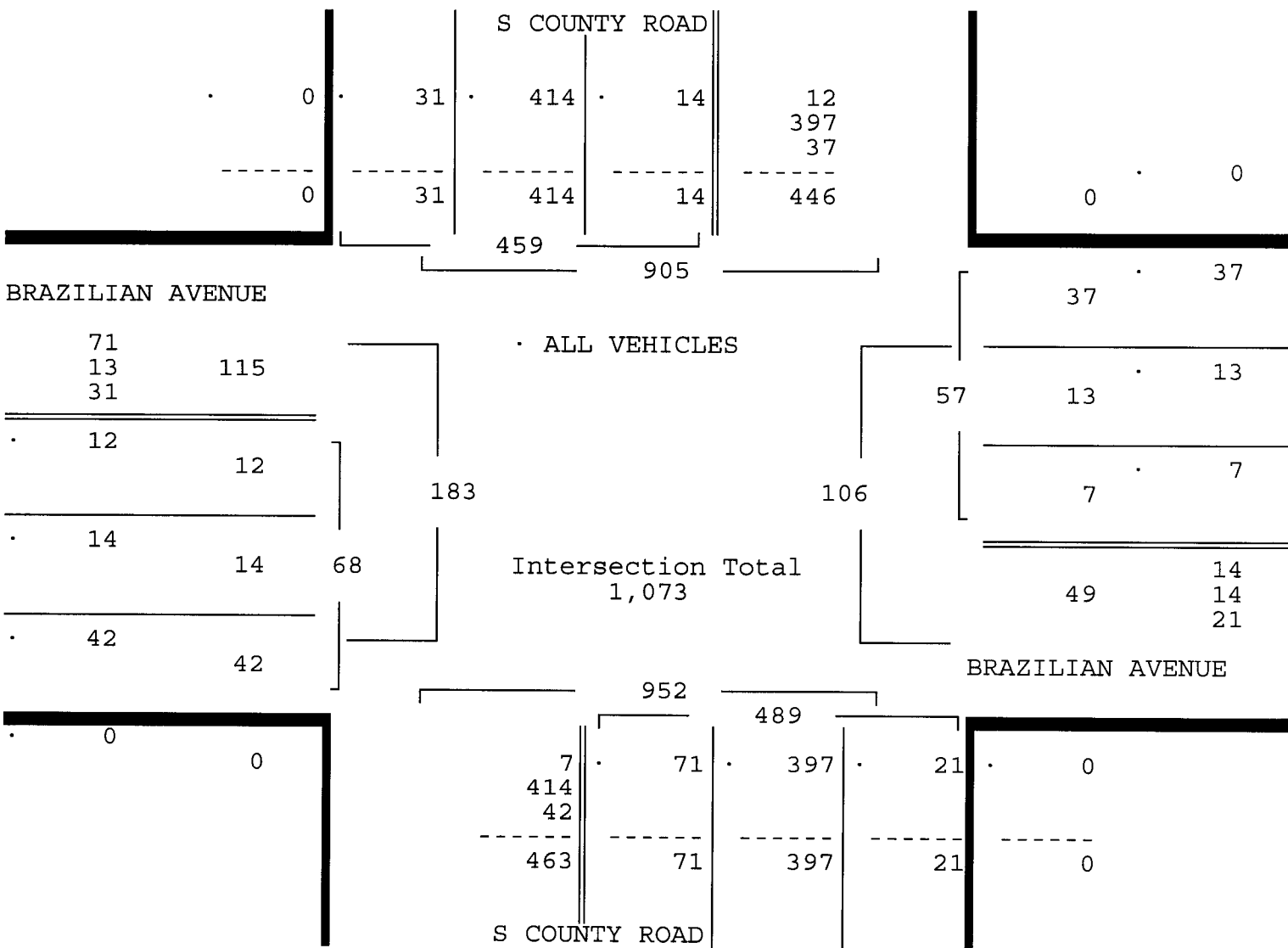
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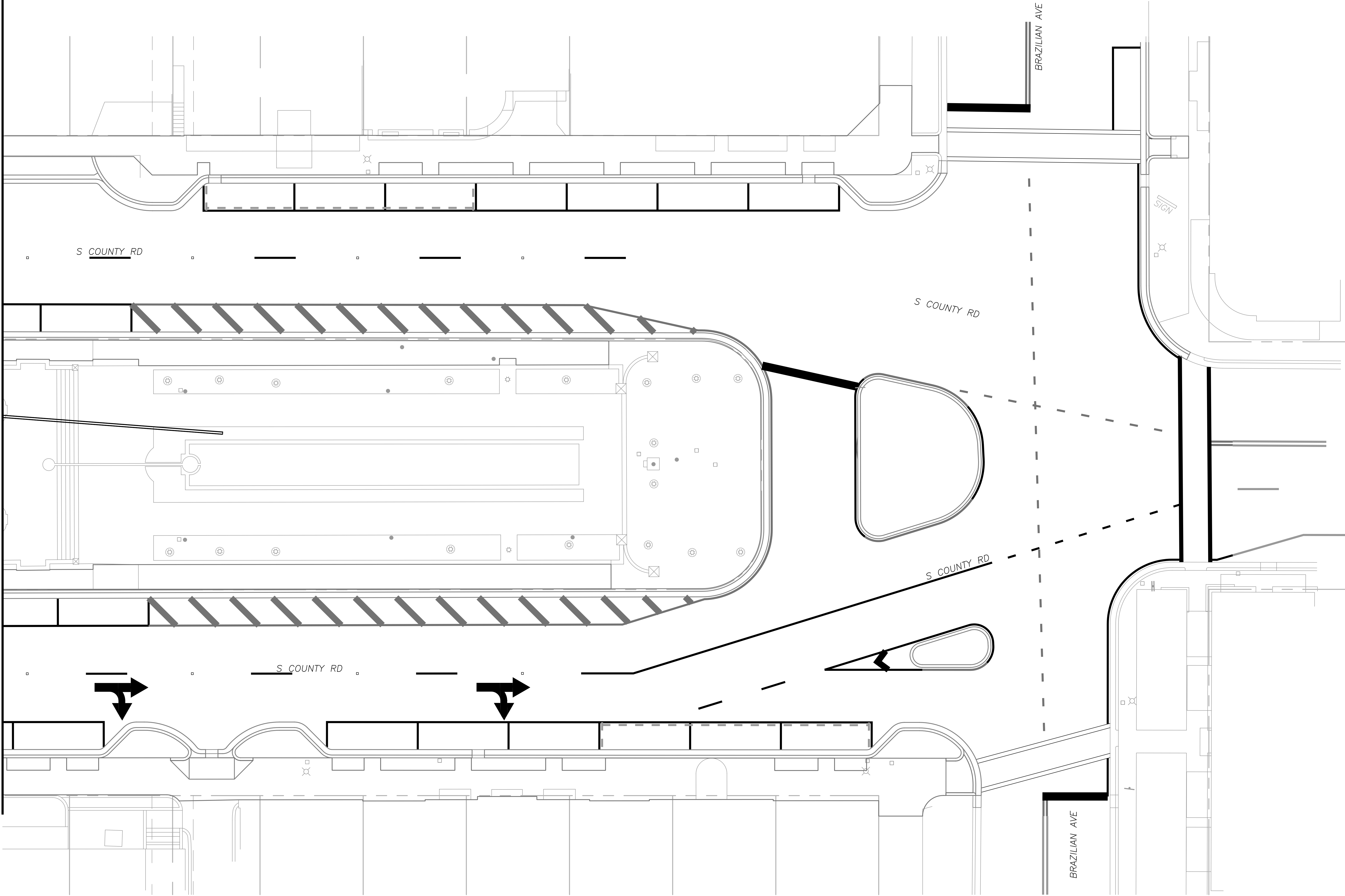
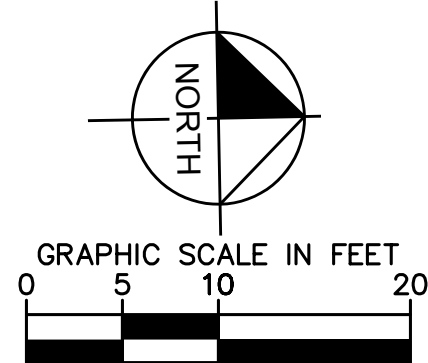
ALL VEHICLES

S COUNTY ROAD				BRAZILIAN AVENUE				S COUNTY ROAD				BRAZILIAN AVENUE				Total
From North				From East				From South				From West				
UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	
Date 01/23/14 -----																
Peak Hour Analysis By Entire Intersection for the Period: 16:00 to 18:00 on 01/23/14																
Peak start 16:00				16:00				16:00				16:00				
Volume	0	14	414	31	1	6	13	37	39	32	397	21	0	12	14	42
Percent	0%	3%	90%	7%	2%	11%	23%	65%	8%	7%	81%	4%	0%	18%	21%	62%
Pk total	459				57				489				68			
Highest	16:00				16:15				16:00				16:45			
Volume	0	0	113	8	1	0	5	16	16	11	112	7	0	6	3	13
Hi total	121				22				146				22			
PHF	.95				.65				.84				.77			



Plotted By: Johnson, Brett Sheet Set: LEGACY PROJECT Layout: C-7.3 SIGNING AND PAVEMENT MARKING PLAN April 08, 2014 08:57:19am K:\WPB-Civil\144397011 - South County Road Streetscape\CAD\PLANS\SHEETS\C-SN-144397011.dwg
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MATCHLINE STA 57+08.23 SEE SHEET C-4.2



LEGACY PROJECT
PREPARED FOR THE
TOWN OF PALM BEACH

PALM BEACH

FLORIDA

SIGNING AND PAVEMENT
MARKING PLAN

KHA PROJECT
144397011

DATE
03/17/2014

SCALE AS SHOWN

DESIGNED BY BAJ

DRAWN BY NOB

CHECKED BY KMS

LICENSED PROFESSIONAL

KEVIN W. SCHANEN, P.E.

FLORIDA LICENSE NUMBER
002371

DATE: _____

**Kimley-Horn
and Associates, Inc.**

© 2014 KIMLEY-HORN AND ASSOCIATES, INC.
1920 KENNA WAY, SUITE 200, WEST PALM BEACH, FL 33411
PH: 561.831.1000 FAX: 561.831.1001
WWW.KIMLEY-HORN.COM CA 0000696

No.

REVISIONS

DATE

BY

Ludwig, Lynda

From: Kerr, Adam
Sent: Friday, May 30, 2014 9:14 AM
To: Johnson, Brett; Schanen, Kevin
Subject: FW: Legacy Project (SR A1A & Brazilian - Town of Palm Beach)
Attachments: RE: Legacy Project (SR A1A & Brazilian - Town of Palm Beach)

From: Overton, Jonathan [<mailto:Jonathan.Overton@dot.state.fl.us>]
Sent: Friday, May 30, 2014 09:11
To: Kerr, Adam
Cc: Poe, Dima
Subject: RE: Legacy Project (SR A1A & Brazilian - Town of Palm Beach)

We are. See attached confirmation from my staff.

Jonathan M. Overton, PE
Assistant District Traffic Operations Engineer
District Four
Phone (954) 777-4376
Jonathan.overton@dot.state.fl.us



From: Adam.Kerr@kimley-horn.com [<mailto:Adam.Kerr@kimley-horn.com>]
Sent: Thursday, May 29, 2014 1:48 PM
To: Overton, Jonathan
Subject: RE: Legacy Project (SR A1A & Brazilian - Town of Palm Beach)

Jonathan-

We spoke a few weeks ago about this. To refresh my memory, can you confirm that you were amenable to the elimination of the subject right-turn lane? Thanks!

Kimley»Horn

Adam B. Kerr, P.E.

Kimley-Horn | 1920 Wekiva Way, Suite 200, West Palm Beach, FL 33411

Direct: 561 840 0874 | Main: 561 845 0665

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From: Overton, Jonathan [<mailto:Jonathan.Overton@dot.state.fl.us>]
Sent: Tuesday, April 15, 2014 08:15
To: Kerr, Adam

Cc: Johnson, Brett; Schanen, Kevin; Poe, Dima
Subject: RE: Legacy Project (SR A1A & Brazilian - Town of Palm Beach)

Adam,
Sorry for taking so long to respond. I expect to have a response to this by end of this week. Thank you for your patience.

Jonathan M. Overton, PE
Assistant District Traffic Operations Engineer
District Four
Phone (954) 777-4376
Jonathan.overton@dot.state.fl.us



From: Adam.Kerr@kimley-horn.com [<mailto:Adam.Kerr@kimley-horn.com>]
Sent: Wednesday, April 09, 2014 10:57 AM
To: Overton, Jonathan
Cc: brett.johnson@kimley-horn.com; Kevin.Schanen@kimley-horn.com
Subject: Legacy Project (SR A1A & Brazilian - Town of Palm Beach)

Jonathan-

As discussed, here is our analysis of the proposed modification to the northbound right-turn lane at SR A1A and Brazilian Avenue in the Town of Palm Beach. The graphic attached to the letter illustrates how the existing turn is proposed to be modified into a modified/channelized lane. At this point, we're seeking your concurrence that the full right-turn lane, as it currently exists, is not necessary based on the traffic volumes presented. If you have questions or comments, please feel free to contact me. Thanks!

Adam Kerr, P.E.
Kimley-Horn and Associates, Inc.
1920 Wekiva Way | Suite 200 | West Palm Beach, Florida 33411
P (561) 840-0874 | F (561) 863-8175 | adam.kerr@kimley-horn.com

Ludwig, Lynda

From: Poe, Dima <Dima.Poe@dot.state.fl.us>
Sent: Thursday, May 29, 2014 2:24 PM
To: Overton, Jonathan; Coe, Beth
Subject: RE: Legacy Project (SR A1A & Brazilian - Town of Palm Beach)

Jonathan,

We discussed the subject project (I believe you also talked with Beth about it). The only e-mail I was copied on in response to this project is the one in this thread.

At the end, due to the geometric alignment of the roadway, I believe we were okay with the new design (including the small channelized right turn) at the intersection to accommodate parallel parking on the left and right sides of both directions of the roadway.

Dima

From: Overton, Jonathan
Sent: Thursday, May 29, 2014 1:58 PM
To: Poe, Dima; Coe, Beth
Subject: FW: Legacy Project (SR A1A & Brazilian - Town of Palm Beach)

Dima,

Did you or I respond to Adam on this inquiry? I remember discussing with you...I think.

Maybe it was Beth I was talking to. Beth?

Jonathan M. Overton, PE
Assistant District Traffic Operations Engineer
District Four
Phone (954) 777-4376
Jonathan.overton@dot.state.fl.us



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Cc: Johnson, Brett; Schanen, Kevin; Poe, Dima
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Jonathan.overton@dot.state.fl.us



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Sent: Wednesday, April 09, 2014 10:57 AM
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