



**SANTA ROSA COUNTY
ENGINEERING DEPARTMENT**

ROGER BLAYLOCK, P.E.
County Engineer
rogerb@santarosa.fl.gov

6051 Old Bagdad Highway, Suite 300 | Milton, Florida 32583

MEMORANDUM

TO: Roger A. Blaylock, P.E., County Engineer

FROM: Marc Bonifay, P.E., Project Engineer MB

DATE: April 5, 2016

RE: Martinique Place

DISCUSSION

Discussion of Southern Site & Utility Design, Inc. request for a waiver to construct a right turn lane on Highway 98 onto Saroco Road for Martinique Place.

BACKGROUND

LDC 4.03.07-H requires a right turn lane for all subdivisions on 4-lane State roads regardless of the number of lots. If this subdivision were on a County road 50 lots would be required to trip the right turn lane requirement. This subdivision is only 28 lots and is approximately 700 feet north of Highway 98 on Saroco Road; therefore, a variance is requested.

ACTION TO BE CONSIDERED

Board approve or deny a variance for the right turn lane requirement for Martinique Place.

.....

6555 Caroline Street
Milton, Florida 32570
Phone: (850) 623-9493
Fax: (850) 626-7889
Email: ssudpaul@gmail.com

Southern Site & Utility Design, Inc.

March 28, 2016

Santa Rosa County Engineering
Attn: Mr. Marc Bonifay, P.E.
6051 Old Bagdad Highway
Milton, FL 32583

Re: Request for Variance to Allow Low Pressure Force Main Sanitary Sewer System
and Eliminate Turn Lane Requirement

Dear Mr. Bonifay:

Please find the following documentation to support this formal request for the Variance
referenced above:

- 1 copy of the Existing Conditions Survey
- 1 copy of an Aerial Photo
- 1 copy of a Vicinity Map

Sanitary Sewer:

As shown on the existing conditions survey, this property slopes toward the North. There is over 20 feet of elevation difference between the North end of the project and Highway 98. The available sewer connection is within the Highway 98 right-of-way. This topography results in a unique and difficult situation pertaining to gravity sanitary sewer systems. A gravity system would contain extreme design measures possibly including very deep manholes and / or a complex pumping system.

South Santa Rosa Utilities owns, operates, and maintains the sewer system that is available for this project. This project and the unique circumstances have been discussed with the utility company and they are in favor of allowing a Low Pressure System. A letter from them is attached.

We would like to request that Santa Rosa County grant a variance to allow this project to utilize a Low Pressure Sewer System in lieu of a gravity system.

.....



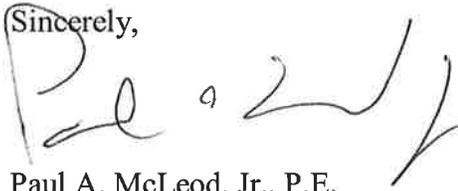
March 28, 2016

Page 2

Turn lane:

We would also like to request a variance to the turn lane requirement. This is such a small development with less than 30 lots, there is not a tremendous amount of traffic expected. Typically, Santa Rosa County requires turn lanes only for subdivisions with more than 50 lots. This development falls into a unique category since it is on a 4-lane roadway. Costs associated with construction of turn lanes are extreme and with so few lots, the cost effect per lot is greater than a larger development.

Sincerely,

A handwritten signature in black ink, appearing to read "Paul A. McLeod, Jr.", written over a circular stamp that contains the word "Sincerely,".

Paul A. McLeod, Jr., P.E.
Project Manager



HICKORY SHORES BLVD

KEYSTONE DR

EVERGREEN DR

BONITA AV

GALVEZ DR

TARPON AV

NATTIES CT

SAROCO RD

AQUA VISTA DR

KELL RD

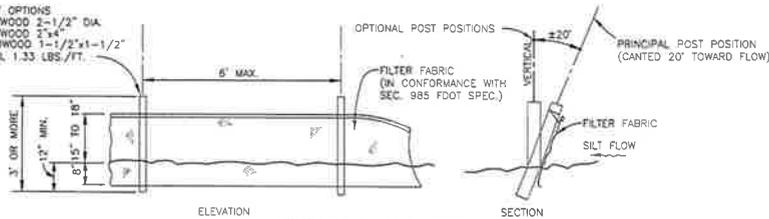
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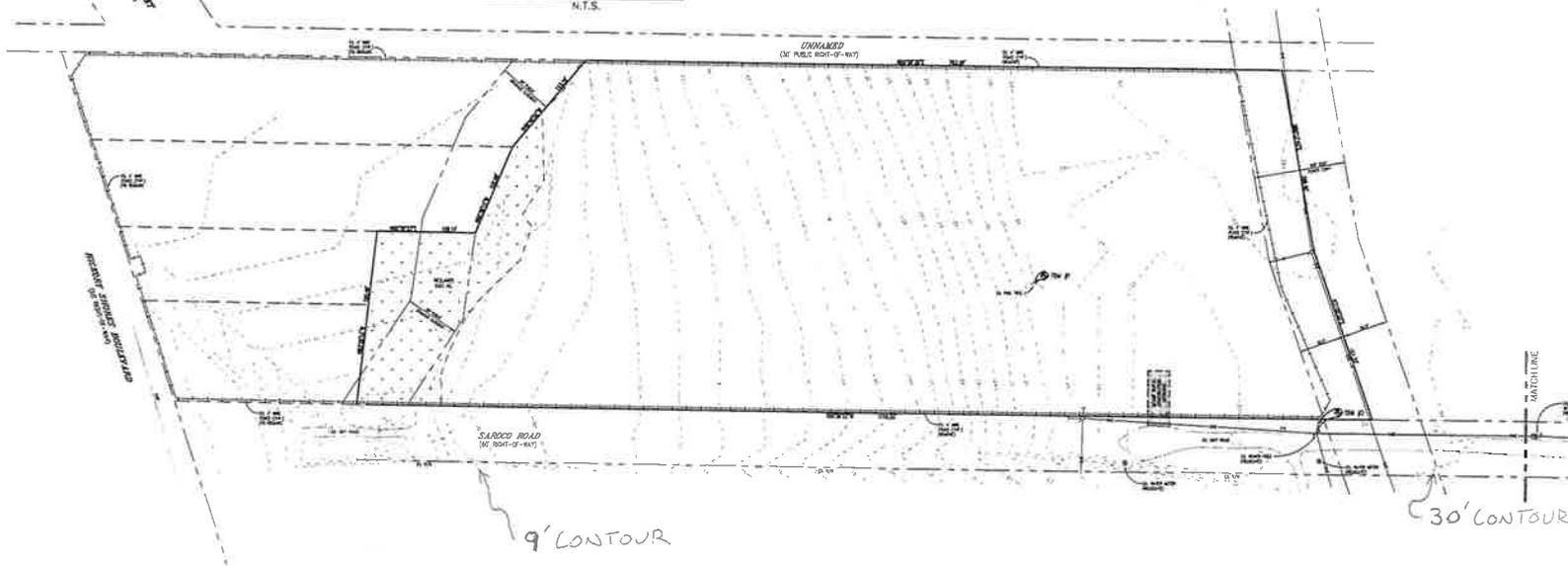


POST OPTIONS
 SOFTWOOD 2-1/2" DIA.
 SOFTWOOD 3-1/4"
 HARDWOOD 1-1/2"x1-1/2"
 STEEL 1.33 LBS./FT.



TYPE III SILT FENCE
 N.T.S.

GRAVEL DRIVE DETAIL
 N.T.S.



DEMOLITION NOTES

1. REMOVE PAVEMENT, BUILDINGS, BASE COURSE AND CURBING, IF APPLICABLE.
2. REMOVE EXISTING UTILITY SERVICES, COORDINATE WITH UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO COMMENCING WORK, IF APPLICABLE.
3. CONTRACTOR SHALL DISPOSE OF ALL DEBRIS OFF-SITE AND BE IN COMPLIANCE WITH FEDERAL, STATE AND COUNTY LAWS AND REGULATIONS.
4. CONTRACTOR SHALL RETAIN ALL SOIL EROSION SEDIMENTATION ON-SITE BY USING STAKED SILT FENCE.
5. THE EXISTING WATER SERVICES WITHIN THE PROPERTY MUST BE LOCATED, DISCONNECTED AND CAPPED AT THE MAIN LINE AND REMOVED FROM THE SITE, IF APPLICABLE.

BENCHMARKS

- BM #1
 SET RAILROAD SPIKE IN WEST SIDE OF PINE TREE
 ELEVATION = 29.76'
- BM #2
 SET RAILROAD SPIKE IN EAST SIDE OF POWER POLE
 ELEVATION = 30.66'

EASEMENT NOTE

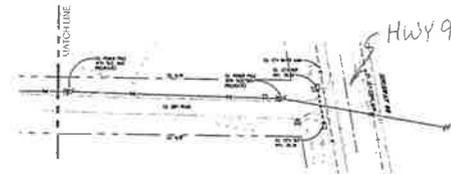
THE EXISTING 60' DRAINAGE EASEMENT WAS RECORDED IN O.R. BOOK 2272, PAGES 1770-1774, O.R. BOOK 2261, PAGES 1795-1789 & O.R. BOOK 2273, PAGES 369-372. THE PORTION IN O.R. BOOK 2273, PAGES 369-372 STILL REMAINS IN ORIGINAL OWNER'S NAME AND IS TO BE VACATED.

FLOOD ZONE NOTE

THIS PARCEL APPEARS TO LIE IN FLOOD ZONE X (NO MINIMUM FLOOD ELEVATION REQUIRED) AS DETERMINED BY SCALE FROM FEMA FLOOD INSURANCE RATE MAP COMMUNITY PANEL NUMBER 120274 0544 G, DATED DECEMBER 19, 2006.

SURVEY NOTE

BOUNDARY AND TOPOGRAPHIC SURVEY PROVIDED BY KJM SURVEYING, INC., 4227 N. DAVIS HIGHWAY, BUILDING A, PHONE 850.438.0202



JENKINS ENGINEERING, INC.
 1234 AIRPORT ROAD, SUITE 126
 DEBRIE, FLORIDA 32841
 850.837.2444 (PHONE) 850.837.2450 (FAX)
 JENKINS@JENKINS-INC.COM
 CERTIFICATE OF AUTHORIZATION NO. 0927

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Tuesday, April 12, 2016

Martinique Place Subdivision

Project Data: This project proposes construction of a 28 lot subdivision. Project site is located along Saroco Road in Navarre, Fl. Saroco road connects to Highway 98 (SR30). This analysis is being performed to determine if a right turn lane is warranted at the Saroco Road / Hwy 98 intersection.

Existing traffic data:

The nearest and most recent traffic count available at this time was taken from Site 0283 which is along SR 30 680' east of CR 191C.

AADT (both directions) = 31,000

AADT West Bound = 15,500

AADT East Bound = 15,500

Peak Hour West Bound = 1482 vph

Peak Hour East Bound = 1462 vph

Traffic created by proposed development: (taken from ITE Trip Generation Manual, 7th Edition):

Single Family Detached Housing:

Weekday P.M. Peak Hour of Generator, ITE 210, page 273

Average = 1.02 per Dwelling Unit (64% entering, 36% exiting)

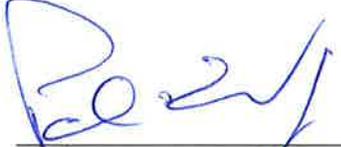
28 Dwelling Units Proposed = 28.56 total peak hour trips

28.56 x 64% = 18.27 vph entering site, both directions

Per FDOT, half of the total AADT is traveling east and half is traveling west, therefore to determine right turns the above value is multiplied by 50%.

18.27 x 50% = 9.14 vph making right hand turns into site.

Per FDOT Report 457, figure 2-6 (attached), for this particular project the limiting right turn volume that warrants a turn lane is 10 vph. As shown above, this project is expected to result in just over 9 vph. A turn lane is NOT warranted.



Paul A. Mcleod, Jr., P.E.

Date: 4-12-16

License Number 58697

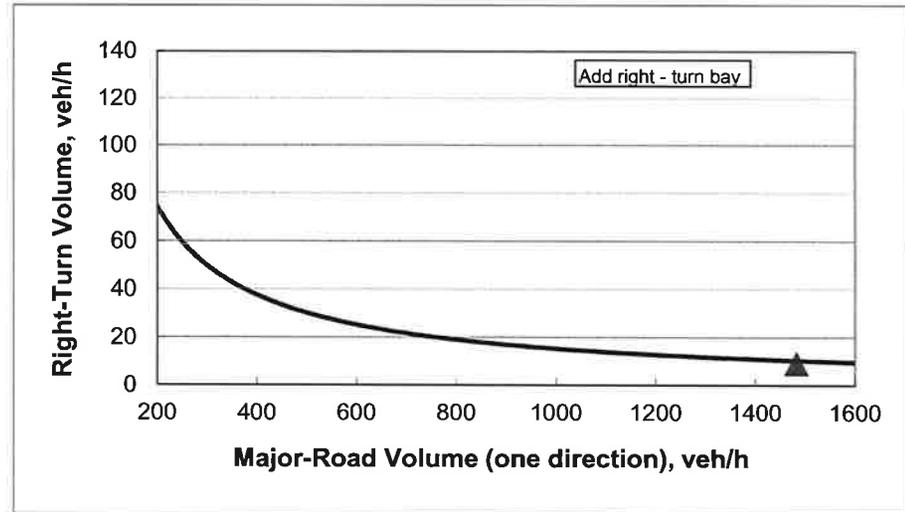
Figure 2 - 6. Guideline for determining the need for a major-road right-turn bay at a two-way stop-controlled intersection.

INPUT

Roadway geometry:	4-lane roadway
Variable	Value
Major-road speed, mph:	55
Major-road volume (one direction), veh/h:	1482
Right-turn volume, veh/h:	9.14

OUTPUT

Variable	Value
Limiting right-turn volume, veh/h:	10
Guidance for determining the need for a major-road right-turn bay for a 4-lane roadway:	
Do NOT add right-turn bay.	



COUNTY: 58
 STATION: 0283
 DESCRIPTION: SR 30 (US98) - 680' E OF CR 191C (NANTAHALA BEACH
 START DATE: 05/19/2014
 START TIME: 0600

TIME	DIRECTION: E					DIRECTION: W					COMBINED TOTAL
	1ST	2ND	3RD	4TH	TOTAL	1ST	2ND	3RD	4TH	TOTAL	
0000	33	21	31	18	103	17	11	13	16	57	160
0100	19	15	19	22	75	14	7	12	7	40	115
0200	12	15	10	9	46	4	12	9	7	32	78
0300	13	10	16	19	58	14	11	18	22	65	123
0400	21	16	16	31	84	28	33	47	51	159	243
0500	40	53	59	94	246	78	80	88	124	370	616
0600	112	126	166	175	579	156	227	276	302	961	1540
0700	151	175	207	213	746	374	359	387	362	1482	2228
0800	255	177	246	229	907	313	315	319	278	1225	2132
0900	184	224	224	227	859	289	300	312	279	1180	2039
1000	211	240	232	248	931	260	262	292	282	1096	2027
1100	269	283	280	258	1090	266	292	242	282	1082	2172
1200	273	292	319	290	1174	280	296	323	303	1202	2376
1300	301	285	285	294	1165	279	255	291	270	1095	2260
1400	320	326	315	281	1242	260	287	302	266	1115	2357
1500	351	323	325	345	1344	260	252	251	277	1040	2384
1600	361	374	308	283	1326	278	305	287	283	1153	2479
1700	359	384	352	335	1430	246	278	269	227	1020	2450
1800	391	309	242	200	1142	192	205	194	160	751	1893
1900	237	180	164	181	762	138	153	130	112	533	1295
2000	184	157	143	144	628	134	89	90	72	385	1013
2100	181	131	127	117	556	69	77	61	70	277	833
2200	87	113	84	71	355	42	34	41	41	158	513
2300	45	56	34	28	163	21	25	26	20	92	255
24-HOUR TOTALS:	17011					16570					33581

	DIRECTION: E		DIRECTION: W		COMBINED DIRECTIONS	
	HOUR	VOLUME	HOUR	VOLUME	HOUR	VOLUME
A.M.	800	907	700	1482	715	2271
P.M.	1715	1462	1200	1202	1545	2535
DAILY	1715	1462	700	1482	1545	2535

FLORIDA DEPARTMENT OF TRANSPORTATION
2014 ANNUAL AVERAGE DAILY TRAFFIC REPORT - REPORT TYPE: ALL

COUNTY: 58 SANTA ROSA

SITE	SITE TYPE	DESCRIPTION	DIRECTION 1	DIRECTION 2	AADT TWO-WAY	"K" FCTR	"D" FCTR	"T" FCTR	
0271		SR 87 - 525' S OF SR 8 (I-10)	N	4600	S 4500	9100 C	9.0	55.0F	9.6A
0276		SR 281 (AVALON BLVD) - 0.400 M S OF C191A (MULAT	N	8100	S 8700	16800 C	9.0	55.0F	6.7F
0277		CR 281B (CYANAMID RD) - 300' E OF CR 191A (MULAT	N		S	4400 C	9.0	55.0F	6.7F
0279		CR 191 (GARCON POINT RD) - 0.600 M S OF SR 8 (I-	N		S	1700 C	9.5	55.0F	6.7F
0280		SR 281 - 0.600 M S OF I-10 OVERPASS (N OF BAYOU)	N		S	6100 C	9.0	55.0F	6.7F
0281		C89 (WARD BASIN RD) - 0.700 M N OF I-10 OVERPASS	N		S	4200 C	9.0	55.0F	6.7F
0282		C89 (WARD BASIN RD) - 0.350 M S OF I-10 OVERPASS	N		S	3600 C	9.0	55.0F	6.7F
0283		SR 30 (US98) - 680' E OF CR 191C (NANTAHALA BEAC	E	15500	W 15500	31000 C	9.0	57.3F	4.8F
0285	T	SR-89,1270' SOUTH OF CR-164,SANTA ROSA CO.	N	713	S 741	1454 C	9.5	53.8A	10.5A
0286		DANIEL DR - 350' S OF US 98	N		S	5300 C	9.0	55.0F	6.7F
0330	T	SR-4,0.7 MI WEST OF CR-191,SANTA ROSA CO.	E	729	W 709	1438 C	9.5	56.5A	17.7A
1501		CR 191 - 0.820 MILE E OF SR 87 (MILTON C/L)	N	1800	S 1700	3500 C	9.0	55.0F	6.2A
1502		SR10 (US90) - 0.250 M E OF GLOVER LN	E	16500	W 16000	32500 C	9.0	55.0F	4.1A
1506		SR 89 (DOGWOOD DR) - 0.174 M N OF CR 191 (MAGNOL	N	6600	S 7000	13600 C	9.0	55.0F	3.7A
1507		SR 10 (US90) - 700' E OF BLACKWATER RIVER BRIDGE	E	8800	W 8700	17500 C	9.0	55.0F	5.2A
1508		SR 87 - 330' N OF RIDGE CREST DR (N OF SCHOOL)	N	5100	S 4000	9100 C	9.0	55.0F	6.9A

SITE TYPE : BLANK= PORTABLE; T= TELEMETERED
 "K" FACTOR : DEPARTMENT ADOPTED STANDARD K FACTOR BEGINING WITH COUNT YEAR 2011
 AADT FLAGS : C= COMPUTED; E= MANUAL EST; F= FIRST YEAR EST; S= SECOND YEAR EST; T= THIRD YEAR EST; X= UNKNOWN
 "D/T" FLAGS : A= ACTUAL; F= FACTOR CATG; D= DIST FUNCL; P= PRIOR YEAR; S= STATEWIDE DEFAULT; W= ONE-WAY ROAD; X= CROSS REF