

**CITY COUNCIL BUSINESS MEETING AGENDA
1705 MAIN STREET, DAPHNE, AL
MARCH 4, 2013
6:30 P.M.**

1. CALL TO ORDER

2. ROLL CALL / INVOCATION / Reverend Samford Turner / Executive Presbyter: Presbytery of South Alabama

PLEDGE OF ALLEGIANCE

SWEARING IN: Joe Davis, III / Judge James H. Reid

3. APPROVE MINUTES: Council meeting minutes / February 18, 2013
Special Called Council meeting minutes / February 25, 2013

4. REPORT STANDING COMMITTEES:

A. FINANCE COMMITTEE / Conaway

B. BUILDINGS & PROPERTY - Haygood

C. PUBLIC SAFETY - Rudicell
Review minutes / February 13th

D. CODE ENFORCEMENT/ORDINANCE COMMITTEE - Fry

Review amendment to Ordinance 2010-56 / Animal Control / Schedule of Fines / **Ordinance 2013-13**

E. PUBLIC WORKS COMMITTEE / SOLID WASTE AUTHORITY - LeJeune

Nomination for Environmental Advisory Board: R. Elliot Riser

5. REPORTS OF SPECIAL BOARDS & COMMISSIONS:

A. Board of Zoning Adjustments – Adrienne Jones

B. Downtown Redevelopment Authority - Conaway
Review minutes / January 19th

C. Industrial Development Board - Haygood

D. Library Board - Lake

E. Planning Commission – Scott

F. Recreation Board - LeJeune

G. Utility Board - Fry
Review minutes / January 30th

6. REPORTS OF OFFICERS:

A. Mayors Report

B. City Attorney's Report

C. Department Head Comments

7. PUBLIC PARTICIPATION:

8. RESOLUTIONS & ORDINANCES:

RESOLUTIONS:

- a.) **Declaring Certain Property Surplus / 22 60” Round Tables. /Resolution 2013-13**

ORDINANCES:

2ND READ

- a.) **Revisions to Zoning Map. /Ordinance 2013-11**
- b.) **Amend Land Use & Development Ordinance / Appendix O, Impact
Development & Green Infrastructure. /Ordinance 2013-12**

1ST READ

- c.) **Amend Ordinance 2010-56 Concerning Animal Control /
Schedule of Fines. /Ordinance 2013-13**

9. COUNCIL COMMENTS

10. ADJOURN

**CITY OF DAPHNE
CITY COUNCIL MEETING
ROLL CALL**

CITY COUNCIL:

COUNCILWOMAN CONAWAY	PRESENT __	ABSENT __
COUNCILMAN RUDICELL	PRESENT __	ABSENT __
COUNCILMAN LAKE	PRESENT __	ABSENT __
COUNCILMAN FRY	PRESENT __	ABSENT __
COUNCILMAN SCOTT	PRESENT __	ABSENT __
COUNCILMAN LEJEUNE	PRESENT __	ABSENT __
COUNCILMAN	PRESENT __	ABSENT __

MAYOR:

MAYOR HAYGOOD	PRESENT __	ABSENT __
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INTERIM CITY CLERK:

REBECCA HAYES	PRESENT __	ABSENT __
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CITY ATTORNEY:

JAY ROSS	PRESENT __	ABSENT __
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1. CALL TO ORDER

Council President Scott called the meeting to order at 6:32 p.m.

2. ROLL CALL/INVOCATION/PLEDGE OF ALLEGIANCE

MR. Willie Robison gave the invocation.

COUNCIL MEMBERS PRESENT: Tommie Conaway; Pat Rudicell; John Lake Randy Fry; Ron Scott; Robin LeJeune.

Also present: Mayor Dane Haygood; Rebecca Hayes, Interim City Clerk; Jay Ross, City Attorney; Michael Hoyt, Municipal Judge; Adrienne Jones, Planning Director; David Carpenter, Police Chief; James White, Fire Chief; Richard Johnson, Public Works Director; Vickie Hinman, Human Resource Director; Margaret Thigpen, Civic Center Director; Tonja Young, Library Director; David McKelroy, Recreation Director; Suzanne Henson, Senior Accountant; Rick Whitehead, IT Coordinator; Ashley Campbell, Environmental Programs Manager; Leah Henry, Court Magistrate; Larry Cooke, BZA; Bob Segalla, Utility Board; Willie Robison, BZA; Dorothy Morrison, Beautification Committee; Al Guarisco, Village Point Foundation.

Absent: Richard Merchant, Building Official; Kim Briley, Finance Director.

**3. APPROVE MINUTES: February 4, 2013 Council Meeting & February 11, 2013
Work Session Meeting Minutes**

There were no corrections to the February 4, 2013 council meeting minutes, and stand approved. Council President Scott asked that his comment regarding Resolution 2009-73 in the February 11th work session minutes be amended to say “will vote to approve or not approve resending Resolution 2009-73 naming Hutchinson, Moore & Rauch as sole engineer at a future council meeting”. The February 11, 2013 Work Session meeting minutes stand approved as amended.

SWEARING IN: Judge Michael Hoyt / By Judge Jody Bishop

Judge Bishop swore Michael Hoyt in as Municipal Judge as his wife, Laurie held the Bible.

PRESENTATION: Ruff Wilson Youth Organization / Starke Irvine / Tom Lott / Barbara Brown

Mr. Irvine and Mr. Lott update council regarding the progress and funding of the organization. They thanked council for their continued support.

PROCLAMATION: Arbor Day / February 23, 2013

Mayor Haygood read and presented the proclamation to Mrs. Dorothy Morrison of the Beautification Committee. Mrs. Morrison stated that there will be 3,000 trees to give away, and it will start at 7:00 a.m. at the Civic Center.

**FEBRUARY 18, 2013
CITY COUNCIL MEETING
BUSINESS MEETING
1705 MAIN STREET
DAPHNE, AL
6:30 P.M.**

PRESENTATION: Beautification Quarterly Award / Rebecca Trosclair

Mrs. Trosclair presented the award to Allen, Allen & Foster, LLC

PRESENTATION: Baldwin County Board of Education / David Tarwater / Jonathan Ellis Ellis – Daphne Elementary / Dana Horst Bottoms – W.J. Carroll Elementary / Mark Doherty – Daphne East Elementary / Tom Hartner – Daphne Middle School / Dr. Meredith Foster – Daphne High School / Denise D’Oliveira – S.E.E.D.S.

Mr. David Tarwater, Representative on the Baldwin County Board of Education School Board, introduced the principals of all the local schools.

All the principals listed above spoke inviting council to their respective schools for a visit.

Mrs. Denise D’Oliveira – S.E.E.D.S. – spoke regarding the S.E.E.D.S. grants that are presented each year to the schools, and thanked council for their support.

MOTION BY Councilman Lake to amend the agenda to allow consideration of Resolution 2013-09 be brought to the forefront. *Seconded by Councilman LeJeune.*

AYE ALL IN FAVOR NAY NONE OPPOSED MOTION CARRIED

Mayor Haygood read the Resolution.

MOTION BY Councilman Lake to adopt Resolution 2013-09. *Seconded by Councilwoman Conaway.*

AYE ALL IN FAVOR NAY NONE OPPOSED MOTION CARRIED

PUBLIC HEARINGS:

1. Revisions to Zoning Map
Recommendation: Unanimous Favorable / *Ordinance 2013-11*

Mrs. Adrienne Jones, Director of Community Development, gave the presentation for the Revisions to the Zoning Map.

Council President Scott opened the Public Hearing at 7:07 p.m.

No one spoke for or against the revisions to the zoning map.

Council President Scott closed the Public Hearing at 7:08 p.m.

**FEBRUARY 18, 2013
CITY COUNCIL MEETING
BUSINESS MEETING
1705 MAIN STREET
DAPHNE, AL
6:30 P.M.**

2. 5th Amendment to Ordinance 2011-54, Land Use & Development Ordinance / Appendix O, Low Impact Development & Green Infrastructure / **Ordinance 2013-12**

Mrs. Adrienne Jones, Director of Community Development, gave the presentation.

Council President Scott opened the Public Hearing at 7:11 p.m.

Mr. Kevin Spriggs – Business Owner in Daphne – spoke saying the ordinance does not seem overly burdensome.

Mrs. Ashley Campbell, Environmental Programs Manager, addressed the storm water problems in the city, and said these guidelines will help with that problem.

Mr. Richard Johnson, Public Works Director, said that when developers are constructing new businesses they are already instructed to use green technology.

Council President Scott closed the Public Hearing at 7:18 p.m.

MOTION: To Set a Special Called Council Meeting to Interview for District 7 Council Vacancy

MOTION BY Councilman Lake to call a Special Called Council meeting for February 25, 2013 6:30 p.m. to interview for the District 7 Vacancy. Seconded by Councilman Fry.

AYE ALL IN FAVOR NAY NONE OPPOSED MOTION CARRIED

Council President requested that the interviews be done alphabetically.

MOTION: To Elect Council President Pro tem

Councilman Lake nominated Councilwoman Conaway.

No other nominations were made.

Council President Scott closed the nominations.

<u>VOTE FOR COUNCIL PRESIDENT PRO TEM</u>			
Conaway	Abstain	LeJeune	Aye
Rudicell	Aye	Scott	Aye
Lake	Aye		
Fry	Aye		
AYE	Rudicell, Lake, Fry, LeJeune, Scott	ABSTAIN	Conaway
MOTION CARRIED			

Councilwoman Conaway is Council President Pro tem.

CITY CLERK POSITION CANDIDATES

Council will give their top four (4) candidates and the top six (6) will be interviewed

Conaway	1. Rebecca Hayes 2. Thkisha Sanoga	3. Candace Antinarella
Rudicell	1. Rebecca Hayes 2. Natalie Kent	3. Bruce Stone 4. Bobby Sutton
Lake	1. Candace Antinarella 2. Wany Dyess	3. Rebecca Hayes 4. Bruce Stone
Fry	1. Rebecca Hayes 2. Candace Antinarella	3. Brian Underwood 4. Wayne Dyess
LeJeune	1. Natalie Kent 2. Rebecca Hayes	3. Candace Antinarella
Scott	1. Wayne Dyess 2. Rebecca Hayes	3. Candace Antinarella 4. Brian Underwood

The following will be interviewed for the City Clerk Position:

1. Rebecca Hayes	6 Votes	Natalie Kent	2 Votes
2. Candace Antinarella	5 Votes	Bruce Stone	2 Votes
3. Wayne Dyess	3 Votes	Brian Underwood	2 Votes

MOTION: Set a Special Called Council Meeting to Interview for City Clerk Position

MOTION BY Councilman Lake to set Special Called Council Meeting to Interview for City Clerk Position for March 5, 2013 6:00 p.m. *Seconded by Councilwoman Conaway.*

AYE ALL IN FAVOR NAY NONE OPPOSED MOTION CARRIED

MOTION: Set Council Retreat Date for March 24, 2013 1:00 p.m. at the Bayfront Park Pavilion

MOTION BY Councilwoman Conaway to set the date of March 24, 2013 for a Council Retreat to be held at Bayfront Park Pavilion from 1:00 p.m. – 6:00 p.m. *Seconded by Councilman LeJeune.*

AYE ALL IN FAVOR NAY NONE OPPOSED MOTION CARRIED

4. REPORT OF STANDING COMMITTEES:

A. FINANCE COMMITTEE – Conaway

The next meeting will be March 11th at 4:00 p.m.

MOTION BY Councilman Lake to go out to Bid/Obtain quotes as required for roof repairs for City Hall (old part of building) and Nicholson Center. *Seconded by Councilman Fry.*

AYE ALL IN FAVOR NAY NONE OPPOSED MOTION CARRIED

MOTION BY Councilwoman Conaway to accept the Treasurers Report as of January 31, 2013 with a balance of \$19,663,309.54. *Seconded by Councilman Lake.*

AYE ALL IN FAVOR NAY NONE OPPOSED MOTION CARRIED

Sales & Use Tax Collections / December 31, 2012

Sales and Use Tax collections for December were \$1,266,051.50

Lodging Tax Collections / December 31, 2012

Lodging Tax Collections for December were \$40,495.14

B. Buildings and Property Committee – Lake

The January 7th minutes are in the packet.

C. PUBLIC SAFETY COMMITTEE – Rudicell

No report. The next meeting will be March 13th.

D. CODE ENFORCEMENT/ORDINANCE COMMITTEE – Fry

The committee reviewed the fee schedule for offenders of the noise ordinance and the Lighting Ordinance. There will be a motion later to extend the time for a band permit which is governed by the noise ordinance.

E. PUBLIC WORKS COMMITTEE/SOLID WASTE AUTHORITY – LeJeune

The committee met today, and the minutes will be in the next packet. Phase II of the Lake Forest project is on schedule.

MOTION BY Councilman LeJeune to Authorize the Mayor to approve the Change Order #1 (Attached), in the amount of \$61,150.00, to SJ&L, Inc., Civil Contractors, for Phase 1 of the Daphne Sports Complex Project expanding the scope of work to include the downstream channel and wetland restoration with the understanding that the change in scope of work is less than 10% of the project total and there is no conflict with public bid law. *Seconded by Councilman Lake.*

AYE ALL IN FAVOR NAY NONE OPPOSED MOTION CARRIED

The next meeting will be March 18th at 5:00 p.m.

5. REPORTS OF SPECIAL BOARDS & COMMISSIONS:

A. Board of Zoning Adjustments – Jones

No report.

B. Downtown Redevelopment Authority – Conaway

The next meeting will be February 27th at 5:30 p.m.

C. Industrial Development Board – Haygood

The next meeting will be February 25th at 6:00 p.m.

D. Library Board – Lake

The next meeting will be Wednesday. He mentioned that council needs to look at expanding the Library, because of growing usage. They had to turn away children from the Summer Reading Program, because of lack of space. 24,000 people a month come through the Library.

E. Planning Commission – Scott

The minutes for the December 20, 2012 meeting are in the packet.

MOTION BY Councilman Rudicell to Set a Public Hearing date for March 18, 2013 to consider:

Rezoning Amendment / Lynne R. Brown

Location: Northwest of the intersection of 6th Street and Dryer Avenue
Present Zoning: R-2, Medium Density Single Family Residential District
Requested Zoning: R-6, (G), Garden or Patio Home District
Recommendation: Favorable

Seconded by Councilman Fry.

AYE ALL IN FAVOR NAY NONE OPPOSED MOTION CARRIED

The Site Preview meeting is Wednesday at 10:00 a.m.

F. Recreation Board - LeJeune

The next meeting is Wednesday, February 27th.

G. Utility Board – Fry

The next meeting will be February 27th at 5:00 p.m.

6. REPORTS OF THE OFFICERS:

A. Mayor's Report

No report.

B. City Attorney's Report

No report.

City Clerk's Report

a.) Band Permit / Extend stop time for music one (1) hour / Beth Pierce / Wedding Reception / June 15, 2013

MOTION BY Councilman Fry to approve the Band Permit with a one (1) hour extension to the ending time for music from 10:00 p.m. to 11:00 p.m. *Seconded by Councilman LeJeune.*

AYE ALL IN FAVOR NAY NONE OPPOSED MOTION CARRIED

b.) Parade Permit / Daphne United Methodist Church / Annual 5K and Fun Run / March 30, 2013

MOTION BY Councilwoman Conaway to approve the Parade Permit for Daphne United Methodist Church / Annual 5K and Fun Run / March 30, 2013. *Seconded by Councilman LeJeune.*

AYE ALL IN FAVOR NAY NONE OPPOSED MOTION CARRIED

C. Department Head Comments

David Carpenter – Police Chief - reported that there was a conviction in the Community Bank robbery case where the suspect entered a guilty plea.

Margaret Thigpen – Civic Center Director - reported on the marketing brochure that she had given to council. She reported that the WWII series will be at the Civic Center at 10:00 a.m., Baldwin County Homebuilders will be at the Civic Center March 2-3, and the Baldwin County Economic Development Alliance has confirmed a Job Fair for April 16th.

David McKelroy – Recreation Director – reported the soccer tournament was successful with 28 teams from out of the area. This weekend is the youth soccer tournaments with 40 teams registered.

Richard Johnson – Public Works Director – reported that Arbor Day is February 23rd, tree give-a-way starts at 7:00 a.m., and he thanked the Beautification ladies for making the city more beautiful.

James White – Fire Chief – reported on an emergency fire of some storage buildings on North Main, and that took 10 units to help put it out.

Vickie Hinman – Human Resources Director – reported there was a police officer position open and will close March 4th.

Tonja Young – Library Director - reported on the success of the History Series, and would like to do it again next year. She thanked the Recreation Department and Civic Center staff for their help with the series.

7. PUBLIC PARTICIPATION

Mr. Kevin Spriggs – Business Owner in Daphne – spoke regarding Agenda 21 which he thinks denies people the right to use their property the way they want to.

Mr. Willie Robison – 560 Stuart Street – spoke regarding the City Clerk position, and he feels that council could not find a better qualified person to be City Clerk than the one who has been doing it for 12 years, Mrs. Rebecca Hayes.

Councilman Rudicell congratulated Mrs. Conaway, and stated that he has been to visit the schools.

Councilman Lake congratulated Mrs. Conaway, and complimented the S.E.E.D.S. program, and said that most do not realize what they do for the schools. He encouraged folks to get involved with S.E.E.D.S. He also was complimentary regarding the Civic Center brochure.

Councilman Fry congratulated Mrs. Conaway, and said the schools were doing a fine job. He commended Selena Vaughn, Richard Johnson and Ashley Campbell for getting the grant for the Wetland Restoration project off Main Street toward Bayfront Park, and said they do a great job for the city. He also thanked all the Department Heads.

Councilman LeJeune congratulated Mrs. Conaway.

Councilman President Scott congratulated Mrs. Conaway, and said he thinks she will do a great job. He said they are called upon from time to time by the schools, and council always does what it can to help out.

Mayor Haygood congratulated Mrs. Conaway, and said he is looking forward to the S.E.E.D.S. run, and invited council to join in.

10. ADJOURN

MOTION BY Councilman Fry to adjourn. *Seconded by Councilman LeJeune.*

AYE	ALL IN FAVOR	NAY	NONE OPPOSED	MOTION CARRIED
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THERE BEING NO FURTHER BUSINESS TO DISCUSS, THE MEETING ADJOURNED AT 8:11 P.M.

Respectfully submitted by,

Certification of Presiding Officer:

Rebecca A. Hayes,
Interim City Clerk

Ron Scott,
Council President

**FEBRUARY 25, 2013
SPECIAL CITY COUNCIL MEETING
1705 MAIN STREET
DAPHNE, AL
6:30 P.M.**

1. CALL TO ORDER

Council President Scott called the meeting to order at 6:30 p.m.

2. ROLL CALL

COUNCIL MEMBERS PRESENT: Tommie Conaway; Pat Rudicell; John Lake; Randy Fry; Ron Scott; Robin LeJeune; Dane Haygood.

Also present: Mayor Haygood; Rebecca Hayes, Interim City Clerk; Jay Ross, Attorney; Richard Johnson, Public Works Director; Bob Segalla, Utility Board; Willie Robison, BZA; Selena Vaughn, Beautification, Village Point Foundation; Douglas Dugat, Recreation Board.

3. INTERVIEWS FOR COUNCIL DISTRICT 7 SEAT

Council President Scott reported that Mr. Kirk Boothe could not be here tonight as he is out of the country on business. He asked council what their pleasure was to postpone voting tonight and interview Mr. Boothe at a later time or go ahead tonight with voting on the candidates here tonight.

MOTION BY Councilman Lake to postpone the interviews until March 4, 2013 so that Mr. Kirk Boothe could be interviewed. NO SECOND.

FAILS FOR LACK OF A SECOND

Consensus of the rest of the council was to proceed with the interviews and vote tonight to fill the vacant council seat.

Council interviewed as follows:

6:30 P.M.	Mr. Joseph Lee Davis, III
6:55 P.M.	Mrs. Margaret Jordan
7:20 P.M.	Mrs. Jada Sheppard Pierce
7:45 P.M.	Mr. Bolton "Bo" W. Tucker

**JANUARY 29, 2013
 SPECIAL CITY COUNCIL MEETING
 1705 MAIN STREET
 DAPHNE, AL
 6:30 P.M.**

2

**VOTING FOR DISTRICT 7 COUNCIL SEAT
 ROUND 1**

NAME	VOTES	TOTAL
Boothe, Kirk		0
Davis, Joseph Lee, III	Conaway, Lake, Fry, Scott	4
Jordan, Margaret	Conaway, Lake	2
Pierce, Jada Sheppard	Rudicell, Fry, LeJeune, Scott	4
Tucker, Bolton "Bo" W. Tucker	Rudicell, LeJeune	2

Joseph Lee Davis, III and Jada Sheppard Pierce are the top two (2).

**VOTING FOR DISTRICT 7 COUNCIL SEAT
 ROUND 2**

NAME	VOTES	TOTAL
Davis, Joseph Lee, III	Fry, Lake, Conaway, Scott	4
Pierce, Jada Sheppard	LeJeune, Rudicell	2

Mr. Joseph Lee Davis, III is the new District 7 Councilman.

Mr. Davis will be sworn in at the March 4, 2013 council meeting.

4. COUNCIL COMMENTS

Councilwoman Conaway congratulated Mr. Davis

Councilman Rudicell congratulated Mr. Davis.

**JANUARY 29, 2013
SPECIAL CITY COUNCIL MEETING
1705 MAIN STREET
DAPHNE, AL
6:30 P.M.**

3

Councilman Lake congratulated Mr. Davis, and said he hopes the other candidates will get involved with the city. He said this was the finest group of individuals he has ever interviewed.

Councilman Fry congratulated Mr. Davis, and looks forward to working with him.

Councilman LeJeune congratulated Mr. Davis, and looks forward to working with him.

Councilman Scott congratulated Mr. Davis, and he said he had his vote because of his community service.

Mayor Haygood congratulated Mr. Davis, and said that he has served with Mr. Davis, and he will be an asset to the city council.

MOTION BY Councilwoman Conaway to adjourn. *Seconded by Councilman Lake.*

AYE ALL IN FAVOR NAY NONE OPPOSED MOTION CARRIED

There being no further business to discuss the meeting adjourned at 8:30 p.m.

Respectfully submitted by,

Rebecca A. Hayes, Interim City Clerk

Certification of Presiding Officer:

Ron Scott, Council President

CITY COUNCIL MEETING
STANDING COMMITTEE RECOMMENDATIONS

FINANCE COMMITTEE REPORT

BUILDINGS & PROPERTY COMMITTEE REPORT

PUBLIC SAFETY COMMITTEE REPORT

CODE ENFORCEMENT / ORDINANCE COMMITTEE REPORT

PUBLIC WORKS/BEAUTIFICATION/MUSEUM COMMITTEES REPORT

Public Safety Committee

Wednesday, February 13, 2013

Councilman Pat Rudicell
Councilman Randy Fry
Councilman Robin LeJeune
Councilman Ron Scott
Fire Chief James White
Public Works, Melvin McCarley

Police Chief David Carpenter
Captain Scott Taylor
Captain Daniel Bell
Tracy Bishop - Secretary

Committee Members Attending:

Councilman Ron Scott, Councilman Pat Rudicell, Councilman Randy Fry, Councilman Robin LeJeune, Captain Daniel Bell, Chief James White, Melvin McCarley.

CALL TO ORDER

Councilman Rudicell convened the meeting at 4:30 p.m.

PUBLIC PARTICIPATION – None

APPROVAL OF MINUTES FROM PREVIOUS MEETING

Minutes from January 2013 – Councilman Fry made a motion to approve the minutes, Councilman LeJeune seconded. There was no discussion and the motion passed.

POLICE DEPARTMENT

- A. **New Business** – Captain Bell went over the stats. Councilman Rudicell asked if the B&E's that were in the newspaper had been resolved. Captain Bell responded that we maintain a detailed list of all B&E's and that many of our B&E's are from people not locking their vehicles. The police department did a press release last year on "Lock it or Lose it" encouraging people to lock their vehicles. People are still not locking their vehicles making it easy to get into and steal items. The PD has been working details in the affected areas trying to catch these suspects. Rudicell asked if the council could be briefed on Press Releases before the paper gets them so they will be aware of certain crimes before the citizens. Captain Bell agreed to send a copy of the Press Releases to the Mayor.

Captain Bell went over the stats. Bell stated that the B&E's were listed on the monthly report, and that several arrests had already been made. At the committee's request Captain Bell put together a 5 year Capital Vehicle Replacement Plan that was in this month's packet. He tried to even it out and spread the costs out so they don't all come due for replacement in the same year. Scott mentioned that raising the lodging tax would increase funding that could partially be used toward public safety vehicle replacement.

- B. **Old Business** – None

FIRE DEPARTMENT

- A. **New Business** – Chief White went over his stats. Chief received a new business agreement extension from the Alabama Fire College which will allow him to move forward with the Training Center. White included his end of calendar year totals.

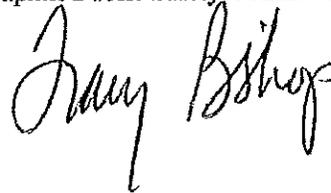
- B. **Old Business-** White was able to go ahead and order a fire truck. He will get a time frame from them on when he will receive it. Councilman Fry asked was it in the plan when another fire truck could be ordered? White responded that in the plan it states every two years. White also stated that a ladder truck will be needed for District 4. Chief White said that the agreement between the City and the Alabama Fire College would be a 70/30 split. The fire department would receive about \$1200-\$1300 per class and this could be put toward future training.

OTHER BUSINESS :

ADJOURN

There being no further business to discuss, Mr. LeJoune made a motion to adjourn the meeting at 5:10 p.m. Mr. Fry seconded. The next meeting will be Wednesday, March 13, 2013 at 4:30 p.m. at City Hall Council Chambers.

Respectfully submitted,
Daphne Public Safety Committee

A handwritten signature in cursive script, appearing to read "Jimmy Bishop".

CITY OF DAPHNE
FIRE DEPARTMENT MONTHLY REPORT
 Report Period: December 2012

	Current:	FY to Date:
Suppression:		
1-Fire/Explosion:	-	-
10-Fire, Other	1	3
11-Structure Fire/Commercial	0	9
11-Structure Fire/Residential	1	19
12-Fire in Mobile Property used as fixed structure	0	12
13-Mobile Property (vehicle) Fire	1	14
14-Natural Vegetation Fire	3	13
15-Outside Rubbish Fire	1	9
16-Special Outside Fire	0	3
17-Cultivated Vegetable Crop Fire	0	1
2-Overpressure Rupture:	0	1
3-Rescue Call and Emergency Medical Service Incidents:	159	1730
4-Hazardous Conditions (No fire):	3	41
5-Service Call:	20	174
6-Good Intent Call:	17	45
7-False Alarm & False Call:	17	247
8-Severe Weather & Natural Disaster:	0	5
9-Other Situation:	1	2
Total Emergency Calls:	217	2420
Monthly Total Calls:	224	2523
Miscellaneous Reports:		
Highest:	18:00	18:00
Lowest:	<1	<1:00
Average (Minutes/Seconds) :	5:38	5:38
Training Hours	99.64	7544.99
Property Loss - \$	540.00	\$872,140.00
Fire Personnel Injuries by Fire/Civillan Injuries by Fire	0	2
Advance Life Support Rescues	106	738
Number of Patients Treated	153	1009
Child Passenger Safety Seat Inspections/Installations	2	412
Pre-Plans	0	1441
Classes	0	46
Persons Attending	0	1753
Plan Reviews	3	69
Final/Certificate of Occupancy	0	1
General/Annual Inspections	5	209
General/Re-Inspections (Violation Follow-up - Annual)	0	296
Business Licenses	0	155
All Other/Misc. Activities	0	0
Total Activities:	8	733

Authorized by:

James White

Patrol Division	Detective Division:	JAIL:	Animal Control	Crimes Reported This Month:
(Capt. Bell/Lt. Hemphill)	(Capt. Bell/Lt. Beedy)	(Capt. Taylor/Lt. Yelding)	(Capt. Taylor/Lt. Yelding)	
# Complaints	1,165	Total Arrestees Received & Processed:	YTD	0
# Misd. Arrests	80	# New Cases Received:	555	Arson
# Felony Arrests	18	# Previous Unsolved Cases:		Burglary - Commercial
DUI Arrests	12	# Cases Solved:	335	Burglary - Residence
Alias Warrant Arrests	29	Resulting in Total Arrests:	33	Burglary - Vehicle
Citations	128	Felonies:	147	Criminal Mischief
Close Patrols	365	Misdemeanors:	32	Disorderly Conduct
Warnings	138	Houses Searched	8	Domestic Disturbance
Motorist Assists	250	Other Agencies	0	False Info to Police
Roadway Accidents	63	Warrants:		Felony Assault
Private Property Accidents	13	Served		Felony Theft
Traffic Homicide	0	Agency Assists	37	Harassment
		Recalls (Pd Fines)	20	Identity Theft
		Total Warrants Served		Indecent Exposure
DRUG REPORT				Kidnapping
ROUTINE PATROL/SPECIAL OPS				Menacing
# Misd. Marijuana Arrest	3	Sex Offender:	2,558	Misdemeanor Assault
# Felony Marijuana Arrest	0	New Registration:	\$1,568.26	Misdemeanor Theft
# Controlled Substance Arrest	4	Contact Verification	151	Murder
# Drug Paraphernalia Arrest	3	Total # registered in Daphne		Other Death Investigations
Vehicles Searched	20	DARE:		Public Intoxication
		# Hours Report Writing:		Public Lewdness
		# Students Instructed SRO		Receiving Stolen Property
Drugs Seized:	0	# Students Instructed DARE	180	Reckless Endangerment
Type:	0	# Police Reports by SRO	210	Resisting Arrest
Money Seized	0	# Arrest by SRO	4	Robbery
Vehicles Seized	0	CODE ENFORCEMENT:		Sex Crime Investigations
		Warnings:		Suicide
Commercial Vehicle Inspections	23	Citations		Suicide, attempted
		Warning Compliance		Theft of Services
		Follow-Up	15	Unauthorized Use of Services
			20	Weapon Offenses
				White Collar Crimes

David Carpenter

**R Elliott Riser
8 Lake Shore Drive
Daphne, Al. 36526**

Summary:

Retired as Engineering Manager in 2004 with background in Project Engineering and Process Engineering, including environmental projects. Longtime resident of Daphne.

Community Involvement:

President of Lake View Property Owners Association from 2005-2012.

Organized like-minded property owners in Lake Forest in support of the D'Olive/Lake Forest Watershed Group study led by the Mobile Bay National Estuary Program.

Career Background:

Plant Engineering Manager, 1998-2003, Kimberly-Clark Pulp & Tissue Mill, Everett, Wash. Led the development and implementation of the \$20MM/year capital upgrade program, including supervision of mill and contract engineering personnel. Served as Program Manager for the design, installation and commercialization of a \$60MM state-of-the-art Tissue Machine.

Pulp Mill Engineering Manager, 1984-1998, Scott Paper Co. Mobile Mill. Led the Pulp Mill capital program to improve reliability, productivity, costs and environmental compliance. Served as Engineering Leader for the strategic study to define Pulp Mill capacity and technology options to meet emerging EPA regulations.

Senior Project Engineer and Chief Process Engineer, 1977-1984, Scott Paper Co. Implemented capital projects and process improvements.

Education: B.S., Mech. Engineering, Georgia Institute of Technology

CITY COUNCIL MEETING
REPORT OF SPECIAL COMMITTEES

BOARD OF ZONING ADJUSTMENTS REPORT

DOWNTOWN REDEVELOPMENT AUTHORITY REPORT

INDUSTRIAL DEVELOPMENT BOARD REPORT

LIBRARY BOARD REPORT

PLANNING COMMISSION REPORT

RECREATION BOARD REPORT

UTILITY BOARD REPORT

**DOWNTOWN REDEVELOPMENT AUTHORITY
1705 MAIN STREET
DAPHNE, AL
JANUARY 19, 2013 9:00 A.M.**

1. CALL TO ORDER/ROLL CALL

Casey Zito called the meeting to order at 9:05 a.m..

Members Present: Casey Zito; Ken Balme; Dorothy Morrison; Dayna Oldham; Patricia Vanderpool; Doug Bailey; Ronald Nero.

Absent: Mary Beth Mantiplay.

Also Present: Rebecca Hayes, Recording Secretary.

2. CHANGE MEETING DAY

MOTION BY Patricia Vanderpool to change the meeting day from the 4th Monday of the month to the 4th Wednesday of the month. Seconded by Dorothy Morrison.

ALL IN FAVOR NONE OPPOSED MOTION CARRIED

The members discussed pending mini-grants due to the paving company leaving before they could make arrangements.

They have paid for two (2) mini-grants Youngblood and Southern Napa, and they have approved reimbursement to the Olde Town Daphne West for the map. Discussion was held on distribution of the map.

Rebecca will check with Mr. Ross to see if the DRA can join the Chamber of Commerce. Also, she will send the grant to Jay to make sure it is not discriminating against anyone..

The Beautification Committee will be meeting the first Wednesday of the month at 10:30 a.m. They are planning more plantings at the KFC site. Ashley Campbell is currently working on a grant for Gator Alley.

Members discussed the plaque. They will vote in February on the final expense for the plaque.

**DOWNTOWN REDEVELOPMENT AUTHORITY
1705 MAIN STREET
DAPHNE, AL
JANUARY 19, 2013 9:00 A.M.**

Discussion was held on the website. It is under construction, and will need to finalize everything to get it up and running. JMF will be donating the expense of hosting the site. It is complex because of the information they want to present to the public.

MOTION BY Ronald Nero to accept the quote from JMF, in the amount of \$2,4000, for construction and hosting of the website and changing the calendar. Seconded by Dayna Oldham.

AYE ALL IN FAVOR NAY NONE OPPOSED MOTION CARRIED

They will have logos to review in February for the website.

Treasures Report as of December 31, 2012 is \$86, 197.07.

Discussion was held on building planters for the Olde Towne District.

Discussed planting trees with grant money they received a while back.

MOTION BY Dorothy Morrison to approve the November 26, 2012 minutes. Seconded by Ronald Nero.

AYE ALL IN FAVOR NAY NONE OPPOSED MOTION CARRIED

The meeting adjourned at approximately 11:30 a.m.

Respectfully Submitted,
Downtown Redevelopment Authority

APPROVED 2/27/2013



Daphne Utilities

APPROVED MINUTES

Utilities Board Meeting

City of Daphne Council Chambers ♦ January 30, 2012 ♦ 5:00 p.m.

I. Call to Order

The regular January 2013, Board meeting for the Utilities Board of the City of Daphne was held on January 30, 2013 and called to order by Chairman Robert Segalla, at 5:00 p.m.

II. Roll Call

Members Present: Robert Segalla, Chairman
Lon Johnston
Randy Fry

Others Absent: Fenton E. Jenkins, Vice Chairman

Others Present: Jerry Speegle – Board Attorney

Danny Lyndall – Operations Manager
Teresa Logiotatos – Finance Manager
Drew Klumpp – Administrative Services Manager
Deloris Brown – HR Manager
Lori May-Wilson – Executive Assistant
Melinda Immel – Volkert & Associates
Ray Moore - HMR

Others Absent: Rob McElroy – General Manager

III. Pledge of Allegiance

The Chairman led the Board and meeting attendees in the Pledge of Allegiance.

IV. Approval of Minutes

A. Utilities Board Minutes from November 28, 2012:

The Chairman inquired if there were any corrections for the submitted Minutes from the November 28, 2012, Utilities Board meeting. No corrections were made.

MOTION BY Lon Johnston to approve the Minutes for November 28, 2012; Seconded by Randy Fry.

AYE: JOHNSTON, SEGALLA, FRY

ABSENT: JENKINS

ABSTAIN:

MOTION CARRIED

B. Utilities Board Minutes from December 17, 2012 Utilities Board Special Meeting:

The Chairman inquired if there were any corrections for the submitted Minutes from the December 17, 2012 Utilities Board Special Meeting. No corrections were made.

MOTION BY Lon Johnston to approve the Minutes for the December 17, 2012 Utilities Board Special Meeting; Seconded by Randy Fry.

AYE: JOHNSTON, SEGALLA, FRY

ABSENT: JENKINS

ABSTAIN:

MOTION CARRIED

No regular Utilities Board meeting was held for December 2012, therefore no minutes were submitted.

V. Old Business

A. Algae Systems at old Maintenance Facility – update

Danny Lyndall updated the Board regarding the Algae Systems project at the old Maintenance Facility.

B. Communications Site Lease with JMF Solutions - update

Jerry Speegle advised that the lease had been take care of and approved by the City of Daphne and that construction would begin very soon.

VI. New Business

No new business was addressed.

VII. BOARD ATTORNEY'S REPORT

Mr. Speegle advised that an approximate 30-minute executive session would be necessary to address impending litigation.

VIII. FINANCIAL REPORT

Teresa Logiotatos highlighted the financial reports for the Board stating that even with the warm winter, figures were developing normally. She advised that the audit is still underway and that the audit presentation would be in March or April. She and Danny Lyndall answered Mr. Johnston's question regarding "fire line availability" as well as his request for comment on the large variance for "Group Insurance". Mr. Johnston remarked that he was glad that the figures are showing Daphne Utilities closer to budget figures. Chairman Segalla asked about the return check fee, to which Drew Klumpp answered that Daphne Utilities charges \$25 which is industry standard.

IX. GENERAL MANAGER'S REPORT

A. GM Report

Chairman Segalla and Lon Johnston gave admirable and praiseworthy recognition to the late Mayor Bailey Yelding and the positive impact he made on the City of Daphne and a moment of silence was given in his honor. Mr. Johnston also recommended expediting the conclusion of sewerage of the City of Daphne as a tribute to Mayor Yelding's tireless efforts for this task.

Danny Lyndall had nothing further to add to the report for the General Manager or Operations Report. Drew Klumpp informed the Board of a policy he has prepared regarding bill payment and extensions policies for customers. Chairman Segalla inquired of Deloris Brown of the "train the trainer" program for heavy equipment. She informed him that previous training was on various equipment, but this was the first time offering the "train the trainer" program in house.

Code Enforcement Officer Rex Rentz gave the Board a presentation on cross-connection contamination prevention.

Melinda Immel advised the Board that the final inspection of the Bayview Lift Station project was complete; this station along with the by-pass pump is operational. Danny Lyndall answered Chairman Segalla's question regarding the project budget. He stated that Daphne Utilities was well under budget for the Bayview Lift Station. Melinda Immel additionally answered questions pertaining to upcoming lift-station projects priority.

Ray Moore had nothing to add to his report.

X. PUBLIC PARTICIPATION – Ruth Bolton addressed the Board to thank the Daphne Utility Board for the support of the family for Mayor Bailey Yelding.

XI. BOARD ACTION -

RESOLUTION 2013-01 – Easements for Jubilee Square Shopping Center

MOTION BY Lon Johnston approve Resolution 2013-01 Easements for Jubilee Square Shopping Center; Secoded by Randy Fry.

AYE: Johnston, Fry, Segalla,

ABSENT: Jenkins

ABSTAIN:

MOTION CARRIED

XII. BOARD COMMENTS – None

Jerry Speegle recommended executive session to 1) discuss the general reputation, character and possibly job-performance of certain non-public employees, 2) also for the possibility of pending or threaten litigation for approximately 30 minutes.

Chairman Segalla advised no additional business will be discussed after executive session.

MOTION BY Lon Johnston to adjourn for Executive Session for the purpose of discussing the general reputation, character and possibly job-performance of certain non-public employees, and also 2) for the possibility of pending or threaten litigation for approximately 30 minutes; Secoded by Randy Fry.

AYE: Johnston, Fry, Segalla,

ABSENT: Jenkins

ABSTAIN:

MOTION CARRIED

Executive session adjourned at 5:32 pm.

XIII. ADJOURNMENT –

MOTION BY Lon Johnston to adjourn the meeting; Secoded by Randy Fry.

AYE: Johnston, Fry, Segalla,

ABSENT: Jenkins

ABSTAIN:

MOTION CARRIED

The meeting adjourned at 5:15 pm.

CITY COUNCIL MEETING

MAYORS REPORT

CITY COUNCIL MEETING

CITY ATTORNEYS REPORT

DEPARTMENT HEAD COMMENTS

CITY COUNCIL MEETING

RESOLUTIONS, ORDINANCES ORDERS & OTHER BUSINESS

COUNCIL COMMENTS

RESOLUTION 2013 - 13

A RESOLUTION DECLARING CERTAIN PERSONAL PROPERTY SURPLUS AND AUTHORIZING THE MAYOR TO DISPOSE OF SUCH PROPERTY

WHEREAS, the Department Heads of the City of Daphne have determined that the items listed below are no longer required for public or municipal purposes; and

WHEREAS, the items listed below are recommended for disposal.

NOW, THEREFORE, BE IT RESOLVED, by the Mayor and City Council of the City of Daphne that

- 1- The property listed below is hereby declared to be surplus property, and

DEPT	DESCRIPTION
Civic Center	60" Round Tables (22)

- 2- The Mayor is authorized to advertise and accept bids through Govdeals.com as contracted for the sale of such personal property, and

- 3- The Mayor is authorized to sell said property to the highest bidder and deposit any and all proceeds to the General Fund. The Mayor is further authorized to direct the disposition of any property which is not claimed by any bidder.

ADOPTED AND APPROVED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF DAPHNE, ALABAMA, this _____ day of _____, 2012.

Dane Haygood, Mayor

ATTEST:

Rebecca A. Hayes, Interim City Clerk

**CITY OF DAPHNE, ALABAMA
ORDINANCE NO. 2013-11**

**Zoning District Map
Revision to the City of Daphne
Land Use and Development Ordinance**

WHEREAS, the Planning Commission of the City of Daphne, Alabama at their regular meeting held on December 20, 2012, favorably recommended to the City Council of the City of Daphne certain amendments to the Zoning District Map approved and adopted by the Daphne Land Use and Development Ordinance No. 2011-54 and amended by Ordinances No. 2011-73 and 2012-19 and 2012-54; and

WHEREAS, said amendments are necessary due to various rezoning and annexation requests which have been approved since the adoption of Ordinance 2011-54 and Ordinances 2011-73 and 2012-19 and 2012-54; and

WHEREAS, due notice of said proposed zoning map amendments has been provided to the public as required by law through publication and open display at the City of Daphne Public Library and City Hall; and

WHEREAS, a public hearing regarding the proposed Zoning District Map amendments was held by the City Council on February 18, 2013; and

WHEREAS, the City Council of the City of Daphne after due consideration and upon recommendation of the Planning Commission believe it in the best interest of the health, safety and welfare of the citizens of the City of Daphne to amend said Zoning District Map as recommended; and

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF DAPHNE, ALABAMA, as follows:

SECTION I: ZONING DISTRICT MAP

The Zoning District Map referenced hereto as Exhibit "A" shall be the official zoning map of the City of Daphne, Alabama and shall be further designated in Appendix H of Exhibit "A" of the City of Daphne Land Use and Development Ordinance, as set forth in Ordinance No. 2011-54 and its amendments.

SECTION II: REPEALER

Ordinance No. 2011-54, Appendix H "Exhibit A", Ordinances No. 2011-73 and 2012-19 and 2012-54 is hereby repealed and any Ordinance(s), parts of Ordinance(s) or Resolution(s) conflicting with the provisions of this Ordinance are hereby repealed insofar as they conflict.

SECTION III: EFFECTIVE DATE

This Ordinance shall take effect and be in force from and after the date of its approval by the City of Daphne City Council and publication as required by law.

ADOPTED AND APPROVED BY THE CITY COUNCIL OF THE CITY OF DAPHNE, ALABAMA ON THE _____ DAY OF _____, 2013.

DANE HAYGOOD.,
MAYOR

ATTEST:

REBECCA A. HAYES,
INTERIM CITY CLERK

**CITY OF DAPHNE, ALABAMA
ORDINANCE NO. 2013-12**

**Ordinance to Amend the City of Daphne
Land Use and Development Ordinance
Appendix O, Low Impact Development & Green Infrastructure**

WHEREAS, the Planning Commission of the City of Daphne, Alabama at its regular meeting held on December 20, 2012, considered certain proposed amendments to the City of Daphne Land Use and Development Ordinance, Ordinance No. 2011-54, and any amendments to the same; and,

WHEREAS, after such consideration the Planning Commission sent a favorable recommendation to the City Council of the City of Daphne for the approval of said amendments to the City of Daphne Land Use and Development Ordinance; and,

WHEREAS, due notice of said proposed amendment has been provided to the public as required by law through publication and open display at the Daphne Public Library and City Hall, a public hearing was held before the City Council on February 18, 2013; and,

WHEREAS, the City Council of the City of Daphne after due consideration and upon recommendation of the Planning Commission, deemed that said amendments to the City of Daphne Land Use and Development Ordinance are proper and in the best interest of the health, safety and welfare of the citizens of the City of Daphne, Alabama; and,

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF DAPHNE, ALABAMA, as follows:

SECTION I. AMENDMENT

- a. Table of Contents to said Ordinance shall be amended to include **Appendix O: Low Impact Development/Green Infrastructure (LID/GI) Project Application;**
- b. Article 18-1(A) shall be amended to read in its entirety as follows:

18-1 GENERAL

A. Purpose:

The purpose of this section is to provide a guide for development wherein the ecological impacts to the environment are minimized through appropriate design, landscaping, erosion control, stormwater management, and proper planning. The intent of the City of Daphne is to protect valuable natural resources, the natural environment and the quality of life for all its citizens. In order to preserve the integrity, stability and the value of land, the City encourages the use of innovative, LEED-certified (Leadership in Energy and Environmental Design) and/or other “green” practices in development design. Where such methods/practices are proposed for a development said practices shall be designed in accordance with Appendix O, The Low Impact Development and Green Infrastructure Project application and certified by a credentialed professional in his/her design field.

-
-
- c. Appendix O: Low Impact Development/Green Infrastructure (LID/GI) Project Application as attached to this Ordinance, shall be added to the Land Use Ordinance in its entirety.

All other sections, articles, and/or content of the City of Daphne Land Use and Development Ordinance shall remain the same and shall be unchanged by this Ordinance.

SECTION II: REPEALER.

All other City Ordinances or parts thereof in conflict with the provisions of this Ordinance, in so far as they conflict, are hereby repealed.

SECTION III: SEVERABILITY.

The provisions of this Ordinance are severable. If any provision, section, paragraph, sentence, or part thereof shall be held unconstitutional or invalid, such decision shall not affect or impair the remainder of said Ordinance, it being the legislative intent to ordain and enact each provision, section, paragraph, sentence, and part thereof separately and independently of each other.

SECTION IV: EFFECTIVE DATE.

This Ordinance shall take effect and be in force from and after the date of its approval by the City Council of the City of Daphne and after publication as required by law.

ADOPTED AND APPROVED BY THE CITY COUNCIL OF THE CITY OF DAPHNE, ALABAMA, THIS ____ day of _____, 2013.

**THE CITY OF DAPHNE,
AN ALABAMA MUNICIPAL CORPORATION**

DANE HAYGOOD, MAYOR

ATTEST:

**REBECCA A. HAYES,
INTERIM CITY CLERK**

Low Impact Development / Green Infrastructure (LID/GI)
Project Application

APPENDIX O

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1. Bioretention

Refer to Chapter 1 of Low Impact Development Guidebook, Phase I Edition V1.0, September 30, 2010.

2. Rainwater Harvesting

Refer to Chapter 2 of Low Impact Development Guidebook, Phase I Edition V1.0, September 30, 2010.

3. Constructed Stormwater Wetlands

Refer to Chapter 3 of Low Impact Development Guidebook, Phase I Edition V1.0, September 30, 2010.

4. Permeable / Porous Pavement

Refer to Chapter 4 of Low Impact Development Guidebook, Phase I Edition V1.0, September 30, 2010.

5. Riparian Buffers

5.1 Overview

Riparian buffer areas protect water quality by cooling water, stabilizing banks, mitigating flow rates, and providing for pollution and sediment removal by filtering overland sheet runoff before it enters the water. The Environmental Protection Agency defines buffer areas as, "areas of planted or preserved vegetation between developed land and surface water, [which] are effective at reducing sediment and nutrient loads." (SEMCOG, 2008)

5.2 Application and Limitations

Application		Considerations		Benefits	Limitations
Residential	Yes	Construction Cost	Low/Med	<ul style="list-style-type: none"> • Improves water quality; • Reduces runoff velocity and flow; • Enhances aesthetics, habitat; • Reduces shore/bank erosion; • Improves flood control; and • Reduces water temperature. 	<ul style="list-style-type: none"> • Limited in reducing total runoff volumes; and • Size of lot and/ or project may reduce ability to protect riparian buffers.
Commercial	Yes	Maintenance	Low		
Industrial	Yes	Soils	All		
Retrofit	Yes	Sun/Shade	Sun/p. shade		
Highway/Road	Limited	Stormwater Quantity Function	Low/ Med		
Recreational	Yes	Stormwater Quality Function	High/Med High		
Steep slopes	No	Habitat	Med/high		
Shallow Water Table	Yes	Drainage area	Small/med		
Poorly Drained Soils	Yes	Space required	med		

Source: SEMCOG, 2008.

5.3 Design Considerations

Applicant shall consider the following when protecting the proper riparian buffer area width and related specifications:

- Existing or potential value of the resource to be protected,
- Site, watershed, and buffer characteristics,
- Intensity of adjacent land use, and
- Specific water quality and/or habitat functions desired.

Riparian buffers shall be divided into different zones that include vegetation to enhance the quality of the body of water.

Zone 1

Also termed the "streamside zone," shall begin at the edge of the stream bank of the active channel and extend a minimum distance of 50 feet (*City of Daphne Land Use & Development Ordinance Article 18-3 C(3)*), measured horizontally on a line perpendicular to the water body. Undisturbed vegetated area shall protect the physical and ecological integrity of the stream ecosystem. The vegetative target for the streamside zone is undisturbed native woody species with native plants forming canopy, understory, and duff layer. Where such forest does not grow naturally, native vegetative cover appropriate for the area (such as grasses, forbs, or shrubs) shall be installed.

Zone 2

Also termed the "middle zone," shall extend immediately from the outer edge of Zone 1 for a minimum distance of 55 feet (ADEM 20-100'). This managed area of native vegetation shall protect key components of the stream ecosystem and provide distance between upland development and the streamside zone. The vegetative target for the middle zone is either undisturbed or managed native woody species or, in its absence, native vegetative cover of shrubs, grasses, or forbs. Undisturbed forest, as in Zone 1, is encouraged strongly to protect future water quality and the stream ecosystem. Otherwise, native vegetative cover appropriate for the area (such as grasses, forbs, or shrubs) shall be installed.

Zone 3

Also termed the "outer zone," shall extend a minimum of 20 feet immediately from the outer edge of Zone 2. This zone prevents encroachment into the riparian buffer area, filters runoff from adjacent land, and encourages sheet flow of runoff into the buffer. The vegetative target for the outer zone shall consist of native woody and herbaceous vegetation to increase the total width of the buffer; native grasses and forbs are acceptable.

5.4 Maintenance

The following maintenance activities are required with riparian buffers:

Task	Frequency/Notes
Irrigation	Twice per week for 6 weeks after planting; continued as needed during severe drought.
Dead vegetation removal and replacement	Annual.
Check for streambank erosion or gullies	Annual, repair as needed.
Mowing of turfgrass	As needed, more often in summer months. Minimum 3-5", max 12".
Check for invasive / nonnative plants	Annual, remove as needed.
Mowing of native grasses	Annual, before new growth in spring.
Correction of wildlife damage	As needed.
Repair damaged fencing	As needed (as applicable).
Tree thinning	As needed. Those with >2" diameter should not be removed. Thinning shall not occur until proper tree density or cover is present.

6. Level Spreaders

6.1 Overview

Level spreaders promote infiltration and improve water quality by evenly distributing flows over a stabilized, vegetated surface. This allows for better infiltration and treatment. There are two types of level spreaders:

Inflow

Inflow level spreaders are meant to evenly distribute flow entering into another structural BMP, such as a filter strip, infiltration basin, or vegetated swale. Examples of this type of level spreader include concrete sills and earthen berms.

Outflow

Outflow level spreaders are intended to reduce the erosive force of high flows while at the same time enhancing natural infiltration opportunities. Examples of this second type include earthen berms and a level, perforated pipe in a shallow aggregate trench and flow reaches the spreader via the solid pipe. (SEMCOG, 2008).

6.2 Application and Limitations

Application		Considerations		Benefits	Limitations
Residential	Yes	Construction Cost	Low	<ul style="list-style-type: none"> • Low cost; • Wide applicability; • Ability to work with other BMPs in a treatment train; and • Avoids concentrated discharges and their associated potential erosion. 	<ul style="list-style-type: none"> • Low stormwater benefits by itself; and • Careful construction and design required to function properly.
Commercial	Yes	Maintenance	Low		
Industrial	Yes	Soils	sandy		
Retrofit	Yes	Sun/Shade	Either		
Highway/Road	Yes	Stormwater Quantity Function	Low		
Recreational	Yes	Stormwater Quality Function	Low		
Steep slopes	No	Habitat	Med		
Shallow Water Table	No	Drainage area	Small		
Poorly Drained Soils	No	Space required	Large		

Source: SEMCOG, 2008.

6.3 Design Considerations

Level spreaders are considered a permanent part of a site's stormwater management system. Therefore, uphill development should be stabilized before any dispersing flow techniques are installed. If the level spreader is used as an erosion and sedimentation control measure, it must be reconfigured (flush perforated pipe, clean out all sediment) to its original state before use as a permanent stormwater feature. All contributing stormwater elements (infiltration beds, inlets, outlet control structures, pipes, etc) should be installed first. In addition, the following shall be implemented:

1. Provide as many outfalls as possible and avoid concentrating stormwater. This can reduce or eliminate the need for engineered devices to provide even distribution of flow.
2. Level spreaders are not applicable in areas with easily erodible soils and/or little vegetation. The slope below the level spreader shall be at a maximum eight percent in the direction of flow to discourage channelization. More gentle slopes (e.g., as low as one percent) are also acceptable.
3. The minimum length of flow after the level spreader (of the receiving area) shall be 15 feet.

4. Level spreaders shall not be constructed in uncompacted fill. Undisturbed virgin soil and compacted fill is much more resistant to erosion and settlement than uncompacted fill.
5. Most variations of level spreaders should not be used alone for sediment removal. Significant sediment deposits in a level spreader will render it ineffective. A level spreader may be protected by adding a forebay to remove sediment from the influent. This can also make sediment cleanout easier.
6. Perforated pipe used in a level spreader may range in size from 4-12 inches in diameter. The pipe is typically laid in an aggregate envelope, the thickness of which is left to the discretion of the engineer. A deeper trench will provide additional volume reduction and shall be included in such calculations. A layer of nonwoven geotextile filter fabric shall separate the aggregate from the adjacent soil layers, preventing migration of fines into the trench.
7. The length of level spreaders is primarily a function of the calculated influent flow rate. The level spreader shall be long enough to freely discharge the desired flow rate. At a minimum, the desired flow rate shall be that resulting from a 10-year design storm. This flow rate shall be safely diffused without the threat of failure (i.e., creation of erosion, gullies, or rills). Diffusion of the storms greater than the 10-year storm is possible only if space permits. Generally, level spreaders should have a minimum length of 10 feet and a maximum length of 200 feet.
8. Conventional level spreaders designed to diffuse all flow rates shall be sized based on the following:
 - o For grass or thick ground cover vegetation:
 - o 13 linear feet of level spreader for every one cubic feet per second (cfs)
 - o Slopes of eight percent or less from level spreader to toe of slope
 - o For forested areas with little or no ground cover vegetation:
 - o 100 linear feet of level spreader for every one cfs flow
 - o Slopes of six percent or less from level spreader to toe of slope

For slopes up to 15 percent for forested areas and grass or thick ground cover, level spreaders may be installed in series. The above recommended lengths should be followed.
9. The length of a perforated pipe level spreader may be further refined by determining the discharge per linear foot of pipe. A level spreader pipe should safely discharge in a distributed manner at the same rate of inflow, or less. If the number of perforations per linear foot (based on pipe diameter) and average head above the perforations are known, then the flow can be determined by the following equation:

Where: $L = Q_P / Q_L$

L = length of level spreader pipe (ft.)

Q_P = design inflow for level spreader (cfs)

Q_L = level spreader discharge per length (cfs/ft.)

AND $Q_L = Q_o \times N$

Where:

Q_L = level spreader discharge per length (cfs/ft.)

Q_o = perforation discharge rate (cfs.)

N = number of perforations per length of pipe, provided by manufacturer based on pipe diameter (#/ft)

AND $Q_o = C \times A \times \sqrt{2gH}$

Where:

Q_o = perforation discharge rate (cfs)

Cd = Coefficient of discharge (typically 0.60)

A = Cross sectional area of one perforation (ft²)

g = acceleration due to gravity, 32.2 ft./sec²

H = head, average height of water above perforation (ft.) (provided by manufacturer)

10. Flows may bypass a level spreader in a variety of ways, including an overflow structure or upturned ends of pipe. Cleanouts/overflow structures with open grates can also be installed along longer lengths of perforated pipe. Bypass may be used to protect the level spreader from flows above a particular design storm.
11. Erosion control matting, compost blanketing, or riprap on top of filter fabric shall be implemented immediately downhill and along the entire length of the level spreader, particularly in areas that are unstable or have been recently disturbed by construction activities. Generally, low flows that are diffused by a level spreader do not require additional stabilization on an already stabilized and vegetated slope.

6.4 Maintenance

The following maintenance activities are required with level spreaders:

Task	Frequency/Notes
Inspect diverter box, clean and make repairs	Monthly and after rainfall >2". Look for clogged inlet/outlet pipes and trash/debris in box.
Inspect forebay and level spreader, clean and make repairs	Monthly and after rainfall >2". Look for: <ul style="list-style-type: none"> • Sediment in forebay and along level spreader lip; • Trash and/or leaf buildup; • Scour, undercutting; • Settlement of structure (see silt downhill below spreader) • Fallen trees; and • Stone from below the spreader lip washing downhill.
Inspect the filter strip and the bypass swale and make repairs as needed	Monthly and after rainfall >2". Look for: <ul style="list-style-type: none"> • Damaged turf reinforcement or riprap rolling downhill; • Erosion within the buffer or swale; and • Gullies or sediment flows from concentrated flows downhill of level spreader.
Remove any weeds or shrubs growing on level spreader or in swale	Annual.

7. Maximize Native Plants / Minimize Sod

7.1 Overview

The goal of utilizing and maximizing native plants while minimizing sod area in the landscape is set forth to:

- Improve developed green space as habitat
- Improve water quality
- Lessen water consumption, and
- Reduce long-term maintenance costs.

This goal is applicable to all landscape/green space requirements set forth currently by the Zoning Ordinance of the City of Daphne. This allows for space that is already allocated as green space to achieve additional performance benefits through the use of LID techniques.

7.2 Application and Limitations

Application		Considerations		Benefits	Limitations
Residential	Yes	Construction Cost	Low/Med	<ul style="list-style-type: none"> • Improves water quality; • Reduces runoff velocity and flow; • Enhances aesthetics, habitat; • Lessens fertilizer usage and subsequent runoff; and • Reduces maintenance requirements over time, thereby reducing pollution, etc. 	<ul style="list-style-type: none"> • Limited where open field recreation and/or land uses are required; and • Projects with phased construction or large lots that would normally employ turfgrass will incur higher front end costs.
Commercial	Yes	Maintenance	Low		
Industrial	Yes	Soils	All		
Retrofit	Yes	Sun/Shade	All		
Highway/Road	Yes	Stormwater Quantity Function	Med/High		
Recreational	Yes	Stormwater Quality Function	Med/High		
Steep slopes	Yes	Habitat	High		
Shallow Water Table	Yes	Drainage area	All		
Poorly Drained Soils	Yes	Space required	N/A		

7.3 Design Considerations

When utilizing this method, a sequence of performance criteria shall be met as follows:

- First, the required landscape/green space area for the project shall be a maximum of 20% turfgrass. This satisfies the "Minimize Sod" goal of the credit.
- Second, the 80% balance of the landscape/green space area for the project shall be planting area. Planting area is defined as a planting space that has trees, shrubs, groundcover, and other plants that are located within a bed area that has a reasonable continuous organic mulch layer throughout.
- Finally, within the planting area, 70% of the area shall utilize native plant species. The native species shall be designated as such in the plant schedule on the required landscape planting plan for the project. The City reserves the right to reject a species submitted as "native" at its discretion.

A landscape plan implementing this method shall include a landscape area diagram that shows sod area vs. native species planting area vs. ornamental species planting area for the site with percentage calculations included. Note: include prohibition on invasive species? References list source.

7.4 Maintenance

The following maintenance activities are required when this technique is employed:

Task	Frequency/Notes
Irrigation	Deep, frequent irrigation to supplement inadequate rainfall is needed in the first year of planting. After this, irrigation should only be needed during extended drought periods if at all.
Dead vegetation removal and replacement	Periodic, as needed for aesthetics.
Mowing of turfgrass	As needed, more often in summer months.
Check for invasive / nonnative plants	Remove as needed.
Correction of wildlife damage	As needed.

8. Swales / Dry Swales

8.1 Overview

A swale is a narrow, gently sloping landscaped depression that collects and conveys stormwater runoff. The densely planted swale filters stormwater as it flows the length of the structure and allows infiltration of water into the ground. The swale discharges to a storm sewer or other approved discharge point. Compared to vegetated swales, LID/GI swales may be shorter and narrower, but require deeper levels of amended soil and a subsurface drain rock layer to compensate for the smaller size and to function effectively (Clean Water Services, et. al, 2009).

8.2 Application and Limitations

Application		Considerations		Benefits	Limitations
Residential	Yes	Construction Cost	Low	<ul style="list-style-type: none"> • Can replace curb and gutter for site drainage and provide significant cost savings; • Water quality; and • Peak and volume control with infiltration. 	<ul style="list-style-type: none"> • Limited application in areas where space is a concern; and • Unless designed for infiltration, there is limited peak and volume control.
Commercial	Yes	Maintenance	Low		
Industrial	Yes	Soils	Any		
Retrofit	Limited	Sun/Shade	Any		
Highway/Road	Yes	Stormwater Quantity Function	Low/med		
Recreational	Yes	Stormwater Quality Function	Medium		
Steep slopes	Yes	Habitat	Low		
Shallow Water Table	Yes	Drainage area	Small		
Poorly Drained Soils	Yes	Space required	Low		

Source: Clean Water Services, et. al, 2009 and SEMCOG, 2008.

8.3 Design Considerations

The following design factors shall be considered when implementing this methodology:

Sizing

The size of the swale shall depend upon the infiltration rate of existing soils. A sizing factor of 0.06 assumes the site infiltration rate is less than 2 in/hr. For example, the size of a swale managing 1,500 square feet of total impervious area would be 90 square feet (1,500 x 0.06). Size may be decreased if:

- Demonstrated infiltration rate is greater than 2 in/hr using ASTM D3395-09 method; or
- Amended soil depth is increased.

Geometry/Slopes

A swale's slope end to end shall be at least 0.5% and no more than 6%. For sites with steeper slopes, check dams may be incorporated into the design. Side slopes from the bottom to the top of the swale shall be 3:1 or less. The minimum bottom width shall be 2 feet with a minimum depth of 1 foot.

Piping for LIDA Swales

If needed, stormwater may be directed from impervious surfaces to swales by piping per plumbing code requirements, or may flow directly into the swale via curb openings. A LID/GI swale shall have no underdrain. An overflow drain shall allow no more 6 inches of water depth to collect in the swale. The overflow drain and piping must meet plumbing code requirements and direct excess stormwater to an approved disposal point.

Setbacks

The City of Daphne Land Use & Development Ordinance site-specific setback requirements shall apply.

Soil Amendment/Mulch

Amended soils with appropriate compost serve numerous benefits: infiltration; detention, retention; better plant establishment and growth; reduced summer irrigation needs; reduced fertilizer need; increased physical/chemical/microbial pollution reduction; and reduced erosion potential. Primary treatment shall occur in the top 18 inches of the swale. Amended soil in the treatment area shall be composed of imported soil, mix of one part organic compost, one part gravelly sand, and one part top soil. Compost shall be weed-free, decomposed, non-woody plant material; animal waste is not allowed. Water velocities and potential erosion shall be reduced by providing energy dissipaters such as river rock at entrances to the swale. Check with the District or local jurisdiction for Seal of Testing Approval Program (STA) Compost provider – Chad checking into this. To avoid erosion, appropriate erosion control BMPs shall be implemented.

Vegetation

The entire swale area including side slopes and treatment areas shall be planted with vegetation appropriate for the soil conditions. Planting conditions vary from wet to relatively dry within the swale. The flat bottom will be inundated frequently and shall be planted with species such as rushes, sedges, perennials, ferns, and shrubs well-suited to wet-to-moist soil conditions. The side slope moisture gradient varies from wet at the bottom to relatively dry near the top where inundation rarely occurs. The moisture gradient will vary depending upon the designed water depth, the swale depth, and side slope steepness. The transition zone from the bottom of the swale to the designed high water line or top of freeboard shall be planted with sedges, rushes, perennials, ferns, and shrubs that can tolerate occasional standing water and wet-to-moist planting conditions. The areas above the designed high water line and immediately adjacent to the swale will not be regularly inundated and shall be planted with self-sustaining, low maintenance grasses, perennials, and shrubs suitable for the local climate and site.

Native plants are encouraged, but appropriate, noninvasive ornamentals are acceptable for aesthetic and functional value. All vegetation should be densely and evenly planted to ensure proper hydrological function of the swale.

Quantities:

Bottom of the swale (wet-to-moist zone, per 100 sf) shall include at a minimum:

- 115 herbaceous plants, 1' on center spacing, ½-gal container size; or
- 100 herbaceous plants, 1' on center, and 4 shrubs, 1-gal container size, 2' on center

Side slopes and top of the swale (wet-to-moist transition zone and dry zone) shall include at a minimum:

- 1 tree per 300 sq. ft, minimum 2-gal container size by 2 ft-tall and
- 10 shrubs (1-gal) and 70 groundcovers (½-gal) per 100 sf

Side slope trees shall be selected by adaptability to wet-to-moist conditions and size at maturity. An area twice the width of the tree rootball and the depth of the rootball plus 12" (or total depth of 30", whichever is greater) shall be backfilled with amended soil for optimal growth, with no sub-surface rock layer (Clean Water Services, et. al, 2009.)

8.4 Maintenance

The following maintenance activities are required with swales:

Task	Frequency/Notes
Irrigation	As needed, water efficient irrigation shall be applied for the first two years after construction of the facility, particularly during the dry summer months, while plantings become established. Irrigation after two years is at the discretion of the owner.
Landscape maintenance (replanting and nonnative species removal).	At least twice annually, in spring and fall, evaluate and replant as necessary to ensure a minimum of 80% survival rate of the required vegetation and 90% facility coverage. Remove nonnative, invasive plant species when found in the facility. Design swales so that they do not require mowing.
Debris removal	At least twice annually, in spring and fall, remove garbage, landscaping debris and other material that may impede water flow and clog the system.
Structural inspection and maintenance	At least twice annually, in spring and fall, check inlet pipes and outlet structure for damage or missing pieces. Inlet pipes and outlet structures shall be free of obstructions and heavy vegetation.

Note: If public, the permittee is responsible for the maintenance of the swale for a minimum of two years following construction and acceptance of the facility. All publicly maintained facilities not located in the public right-of-way must have a public easement. If private, the property owner is responsible for ongoing maintenance per a recorded maintenance agreement (Clean Water Services, et. al, 2009).

9. Sand Filter/Oil and Grit Separation

9.1 Overview

Constructed filters are structures or excavated areas containing a layer of sand, compost, organic material, peat, or other media that reduce pollutant levels in stormwater runoff by filtering sediments, metals, hydrocarbons, and other pollutants. Constructed filters are suitable for sites without sufficient surface area available for bioretention.

9.2 Application and Limitations

Application		Considerations		Benefits	Limitations
Residential	Limited	Construction Cost	Med/high		
Commercial	Yes	Maintenance	High		
Industrial	Yes	Soils	n/a		
Retrofit	Yes	Sun/Shade	n/a		
Highway/Road	Yes	Stormwater Quantity Function	Low/high*		
Recreational	Yes	Stormwater Quality Function	High/med flow (temp)		
Steep slopes	n/a	Habitat	n/a		
Shallow Water Table	n/a	Drainage area	Max 5 acre		
Poorly Drained Soils	n/a	Space required	low		

*Function is low without infiltration and increases when infiltration is provided. Source: SEMCOG, 2008.

9.3 Design Considerations

The following design factors shall be considered when implementing this methodology:

1. All constructed filters shall be designed so that larger storms may safely overflow or bypass the filters. Flow splitters, multi-stage chambers, or other devices may be used. A flow splitter may be necessary to allow only a portion of the runoff to enter the filter. This would create an "off-line" filter, where the volume and velocity of runoff entering the filter is controlled. If the filter is "on-line", excess flow shall be designed to bypass the filter and continue to another water quality BMP.
2. Entering velocity shall be controlled. A level spreader may be used to spread flow evenly across the filter surface during all storms without eroding the filter material. Level spreaders for this purpose should use a concrete lip or other non soil material to avoid clogging as a result of failure of the level spreader lip. Parking lots may be designed to sheet flow into filters. Small rip-rap or landscaped riverstone edges may be used to reduce velocity and distribute flows more evenly.
3. Contributing areas shall be stabilized with vegetation or other permanent soil cover before runoff enters filters. Permanent filters shall not be installed until the site is stabilized. Excessive sediment generated during construction can clog the filter and prevent or reduce the anticipated post construction water quality benefits.
4. Pretreatment may be necessary in areas with especially high levels of debris, large settled particulates, etc. Pretreatment may include a forebay, oil/grit separators, vegetated filter strips, or grass swales. These measures will settle out the large particles and reduce velocity of the runoff before it enters the filter. Regular maintenance of the pretreatment is critical to avoid wastes being flushed through and causing the filter to fail.
5. There shall be sufficient space (head) between the top of the filtering bed and the overflow of the filter to allow for the maximum head designed to be stored before filtration.

6. The filter media may be a variety of materials (sand, peat, GAC, leaf compost, pea gravel, etc.) and in most cases should have a minimum depth of 18 inches and a maximum depth of 30 inches, although variations on these guidelines are acceptable if justified by the designer. Coarser materials allow for greater hydraulic conductivity, but finer media filter particles of a smaller size.

Sand has been found to provide a good balance between these two criteria, but different types of media remove different pollutants.

The filter media shall have a minimum hydraulic conductivity (k) as follows:

- Sand 3.5 feet/day;
- Peat 2.5 feet/day; and
- Leaf compost 8.7 feet/day.

Depending on the characteristics of the stormwater runoff, a combination of filter materials will provide the best quality results. In addition to determining the degree of filtration, media particle size determines the travel time in the filter and plays a role in meeting release rate requirements.

7. A gravel layer at least six inches deep is required beneath the filter media.
8. Underdrain piping shall be four-inch minimum (diameter) perforated pipes, with a lateral spacing of no more than 10 feet. A collector pipe can be used, (running perpendicular to laterals) with a slope of one percent. All underground pipes shall have clean-outs accessible from the surface. Underdrain design must minimize the chance of clogging by including a pea gravel filter of at least three inches of gravel under the pipe and six inches above the pipe.
9. Infiltration filters shall be underlain by a layer of permeable nonwoven geotextile.
10. A total drawdown time of not more than 72 hours is recommended for constructed filters, though the surface should drawdown between 24 and 48 hours. The drawdown time can be estimated using the filter surface area and the saturated vertical infiltration rate of the filter media. If the storage does not drawdown in the time allowed, adjust pretreatment depth, filter media depth, and surface area. Adjust the design until the volume (if applicable) and drainage time constraints are met.
11. The filter surface area may be estimated initially using Darcy's Law, assuming the soil media is saturated:

$$A = V \times d_f / [k \times (h_r + d_f) \times t_d], \text{ where:}$$

A = Surface area of filter (square feet)

V = Water volume (cubic feet)

d_f = Depth of filter media (min 1.5 ft; max 2.5 ft)

t_d = Drawdown time (days), not to exceed 3 days

h_r = Head (average head in ft; typically $\frac{1}{2}$ the maximum head on the filter media, which is typically \leq to 6 ft)

k = Hydraulic conductivity (ft/day)

12. For vegetated filters, a layer of nonwoven geotextile between non-organic filter media and planting media shall be required.

9.4 Maintenance

The following maintenance activities are required with sand filter/oil and grit separation:

Task	Frequency/Notes
Filter media inspection and maintenance, replacement as necessary	Four times per year. Check for accumulated sediment in pore space, and reduced hydraulic conductivity. Symptoms include: <ul style="list-style-type: none"> • Standing water -- any water left in a surface filter after the design drain down time indicates the filter is not functioning according to design criteria. • Film or discoloration of any surface filter material -- this indicates organics or debris have clogged the filter surface.
Remove trash and debris	Four times per year
Rake scrape silt if collected on top of the filter	Four times per year
Till and aerate filter area	Four times per year
Replenish filtering medium	Four times per year, if scraping/removal has reduced depth of filtering media
Repair leaks from the sedimentation chamber or deterioration of structural components	Four times per year
Clean out accumulated sediment from filter bed chamber and/or sedimentation chamber	Four times per year
Clean out accumulated sediment from underdrains	Four times per year

Note: In areas where the potential exists for the discharge and accumulation of toxic pollutants (such as metals), filter media removed from filters must be handled and disposed of in accordance with all state and federal regulations.

10. Green Roofs

10.1 Overview

A green roof (or ecoroof) is a lightweight vegetated roof system with waterproofing material, drainage, growing medium, and specially selected plants. A green roof can reduce site impervious area and manage stormwater runoff. Green roofs reduce peak runoff to near predevelopment rates and reduce annual runoff volume by at least 50% (Cost Benefit Evaluation of Ecoroofs, Portland Bureau of Environmental Services, 2008). Green roofs also help mitigate runoff temperatures by keeping roofs cool and retaining most of the runoff in dry seasons. Green roofs typically have thin layers of lightweight growing medium (4 to 8 inches) and low growing succulent vegetation. Alternatively, roof gardens that are designed to be walked on have deeper soils (8+ inches) and are more heavily planted. Professional design consultation is necessary to ensure the structural requirements of building codes are met. Green roofs must be low maintenance and use irrigation only to sustain the health of vegetation.

10.2 Application and Limitations

Application		Considerations		Benefits	Limitations
Residential	Yes	Construction Cost	Varies	<ul style="list-style-type: none"> • Increased energy efficiency; • Improved air quality; • Reduced temperatures in urban areas; • Noise reduction; • Improved aesthetics; • Extended roof life; and • Improved stormwater management. 	<ul style="list-style-type: none"> • Complex engineering and design factors, • Higher initial cost than conventional; • Climate limitations; and • Potentially costly repairs.
Commercial	Yes	Maintenance	Moderate/high		
Industrial	Yes	Soils	n/a		
Retrofit	No	Sun/Shade	Sun		
Highway/Road	n/a	Stormwater Quantity Function	Varies		
Recreational	n/a	Stormwater Quality Function	Good		
Steep slopes	n/a	Habitat	Good		
Shallow Water Table	n/a	Drainage area	Roof Size		
Poorly Drained Soils	n/a	Space required	Small		

Source: Clean Water Services, et. al, 2009 and SEMCOG, 2008.

10.3 Design Considerations

Sizing

Green roofs replace impervious area at a 1:1 ratio. They shall not receive water from other impervious areas such as an adjacent conventional roof.

Slope

Maximum roof pitch is 4:12 (3H:1V slope) unless the applicant provides documentation of runoff retention and erosion control on steeper slopes.

Waterproofing

On the roof surface a waterproofing material such as modified asphalt, synthetic rubber, or reinforced thermal plastics is required. Waterproofing materials also may act as a root barrier. Waterproof membranes shall be thoroughly tested to identify and remedy potential defects and leaks prior to installation of any green roof components.

Protection boards or materials (recommended)

These materials protect the waterproof membrane from damage and are usually made of soft fibrous materials. They may be required to maintain the waterproofing warranty, depending on the membrane used. Consult with roofing manufacturer for requirements.

Ballast (optional)

Gravel ballast may be placed along the roof perimeter and at air vents or other vertical elements to separate roofing elements and vegetation. The need for ballast depends on the type of roof and rooftop flashing details. Ballast or rooftop pavers may be used to provide access, especially to vertical elements that require maintenance.

Header/separation board (optional)

If needed, a header or separation board may be placed between gravel ballast and soil or drains.

Root barrier

A root barrier may be required, depending on the waterproofing material, warranty requirements, and the types of vegetation proposed. Root barriers impregnated with pesticides, metals, or other chemicals that could leach into stormwater shall not be applied unless documentation that leaching does not occur is provided. If a root barrier is used it must extend under any gravel ballast and the growing medium, and up the side of any vertical elements.

Drainage

A method of drainage shall allow excess water to flow into drains when soils are saturated. A manufactured drain mat, filter fabric, aggregate or gravel layers, or the growing medium itself may be used if water drains when soils are saturated. The green roof shall have an approved discharge location and drain or drains.

Growing medium

The growing medium depth is 3 to 4 inches or more, depending on the project. This material shall be lightweight and provide a good base for plant growth. Mixes range from 5% organic/95% inorganic to 30% organic/70% inorganic, depending on specific vegetation needs. Growing media shall be stable over time and not break down into fine particles that might increase compaction and clog drainage layers. Components include pumice, perlite, paper pulp, digested organic fiber, and water retention components such as expanded slate, diatomaceous earth, or polymers. For growing media specification, include all constituent elements and their percent composition, and a saturated weight per cubic foot (pcf) that has been tested by a third party lab.

Vegetation and coverage

Green roof vegetation traits:

- Adapted to seasonal drought, excess heat, cold and high winds and other harsh conditions;
- Fire resistant;
- Requires little or no irrigation once established;
- Predominately self-sustaining, low maintenance, with minimal fertilizer;
- Perennial or self-sowing annuals that are dense and mat-forming; and
- Diverse palette to increase survivability and good coverage.

Examples of appropriate species: Sedum, ice plant, blue fescue, sempervivum and creeping thyme. Other herbs, forbs, grasses, and low groundcovers can provide additional benefits and aesthetics, but may need more watering and maintenance to survive and may be prone to additional fire risk if allowed to dry out. Planting lists shall be City-approved and based on reliable sources from this region including local growers and plant suppliers.

Species shall achieve 90% plant coverage within the 2 year maintenance period. At least 70% of the green roof should be evergreen species. No more than 10% of the green roof may be non-vegetated components such as gravel ballast or pavers for maintenance access. Mechanical units may protrude through the green roof, but are not considered elements of the green roof and may be removed from square foot totals.

Exposed areas during establishment periods shall be mulched with an approved, biodegradable mesh blanket, straw, gravel, and pebbles or pumice to protect exposed soil from erosion.

10.4 Maintenance

The following maintenance activities are required with sand filter/oil and grit separation:

Task	Frequency*/Notes
Remove drain debris	Monthly during rainy season.
Remove dead plants and replant	As needed in spring and fall to maintain the required 90% plant coverage.
Remove weeds and undesirable plant growth	During first growing season monthly, and in late spring and early fall in subsequent years.
Fertilization	As needed, non-chemical, organic and slow release as approved by the City of Daphne.
Weed/pest abatement	Pesticides and herbicides of any kind are prohibited, unless approved by the City of Daphne to contain a detrimental outbreak of weeds or other pests.
Irrigation	As needed, minimal irrigation may be necessary to maintain vegetation health and ecological function of green roofs. Harvested rainwater is highly recommended for irrigation. Green roofs larger than 1,000 square feet should have an automatic irrigation system for more efficient coverage and to eliminate the need for hand watering. Those larger than 5,000 square feet also should have an irrigation flow meter to monitor water usage.

*The level of maintenance will vary depending on soil depth, vegetation type, and location.

References:

Branley, Eve (Auburn University) Dylewski, Katie (Auburn University), Roberts, Jess (Auburn University), Shelton, Michael (Weeks Bay National Estuarine Research Reserve). September 30, 2010. *Low Impact Development Guidebook, Phase I Edition V1.0*.

SEMCOG (Southeast Michigan Council of Governments Information Center. www.semcoq.org) and Michigan Department of Environmental Quality. *Low Impact Development Manual For Michigan. A Design Guide for the Implementers and Reviewers*. 2008.

Clean Water Services, Tualatin Basin Natural Resources Coordinating Committee's Public Education and Outreach Committee, and Oregon Department of Environmental Quality (DEQ). July 2009. *Low Impact Development Approaches Handbook*.

**Low Impact Development / Green Infrastructure (LID/GI)
Project Application**

Applicant: _____ Project Name: _____

____ LID/GI Techniques have been considered for this project but are not being implemented for the following reason(s) _____

____ LID/GI Techniques and have been considered and are being implemented in exchange for incentives as requested below. Plans illustrating proposed technique are included in submittal package.

Selected ✓	LID/GI Technique*	Point Value	Applicant's Description of Technique (including scale/ extent of use in project)	Reference Plan Sheet	Points Requested
	Bioretention	7			
	Constructed Stormwater Wetlands	7			
	Permeable / Porous Pavement	4			
	Riparian Buffers	7			
	Level Spreaders	5			
	Maximize Native Plants / Minimize Sod	5			
	Swales / Dry Swales	3			
	Rainwater Harvesting	4			
	Sand Filter / Oil and Grit Separation	4			
	Green Roofs	1			

*Refer to Appendix O for LID/GI technique requirements.

Total Technique Points: _____

**Low Impact Development / Green Infrastructure (LID/GI)
Project Application (Continued)**

Selected (✓)	Incentive Description	Final Point Value	Points Used
	Reduced parking requirements Option A _____		
	Reduced parking requirements Option B _____		
	Waived permit fees		
	Reduced permit fees		

Total Technique Points: _____

Note: Total technique points must be greater than or equal to total incentive points.

____ I certify that all of the LID/GI techniques and incentives have been analyzed and selected, as applicable, for the design of this project as indicated above. I also certify that the techniques selected, as applicable, will be implemented for this project as referenced on Plan Sheets provided in the application package.

Signature of Applicant/Authorized Agent _____

Date _____

**CITY OF DAPHNE
ORDINANCE NO. 2013-13**

**AN ORDINANCE TO AMEND ORDINANCE NO. 2010-56 CONCERNING
ANIMAL CONTROL WITHIN THE CITY OF DAPHNE / SCHEDULE OF
FINES**

WHEREAS the City Council of the City of Daphne has determined that certain amendments to the animal control ordinance currently in effect are necessary to effectuate and implement more efficient means of animal control within the City of Daphne; and

WHEREAS the City Council of the City of Daphne has determined that such amendments are in the interest of the public health, safety and welfare of the citizens of the City of Daphne.

NOW, THEREFORE, BE IT HEREBY ORDAINED BY THE CITY COUNCIL OF THE CITY OF DAPHNE, ALABAMA as follows:

SECTION 1: That Section III entitled “Minimum Penalties” (B), entitled “Schedule of Fines”, of Ordinance 2010-56 is hereby amended as follows:

a.) That these provisions related to fines for Noisy Animals is deleted in its entirety and replaced as follows:

<u>B. Infraction</u>	<u>Fine</u>	
Noisy Animals	1 st Offense within a twelve month period	\$100
	2 nd Offense within a twelve month period	\$250
	3 rd Offense within a twelve month period	\$500/and Court Appearance

SECTION II: CONFLICT WITH OTHER ORDINANCES

Any Ordinance heretofore adopted by the City Council of the City of Daphne, Alabama which is in conflict with this Ordinance is hereby repealed to the extent of such conflict.

SECTION III: SEVERABILITY

The provisions of this Ordinance are severable. If any provision, section, paragraph, sentence, or part thereof shall be held unconstitutional or invalid, such decision shall not affect or impair the remainder of the Ordinance, it being the legislative

intent to ordain and enact each provision, section, paragraph, sentence, and part thereof separately and independently of each other.

SECTION IV: EFFECTIVE DATE

This Ordinance shall take effect and be in full force from and after its adoption by the City Council of the City of Daphne and publication as required by law.

ADOPTED AND APPROVED BY THE CITY COUNCIL OF THE CITY OF DAPHNE, ALABAMA ON THIS THE ____ day of _____, 2013.

**THE CITY OF DAPHNE,
AN ALABAMA MUNICIPAL CORPORATION**

**DANE HAYGOOD,
MAYOR**

ATTEST:

**REBECCA A. HAYES,
INTERIM CITY CLERK**