



Southwest Florida Water Management District

2379 Broad Street, Brooksville, Florida 34604-6899
(352) 796-7211 or 1-800-423-1476 (FL only)
TDD only 1-800-231-6103 (FL only)
On the Internet at: WaterMatters.org

Bartow Service Office
170 Century Boulevard
Bartow, Florida 33830-7700
(863) 534-1448 or
1-800-492-7862 (FL only)

Lecanto Service Office
Suite 226
3600 West Sovereign Path
Lecanto, Florida 34461-8070
(352) 527-8131

Sarasota Service Office
6750 Fruitville Road
Sarasota, Florida 34240-9711
(941) 377-3722 or
1-800-320-3503 (FL only)

Tampa Service Office
7601 Highway 301 North
Tampa, Florida 33637-6759
(813) 985-7481 or
1-800-836-0797 (FL only)

2008-04
3.9 ✓

August 6, 2008

received
8/7/08

CC: YA ✓
RD ✓
NL ✓
SG ✓

Yancey B. Abuton, P.E.
Spring Engineering, Inc.
3014 U.S. Highway 19
Holiday, FL 34691

Subject: **Request for Additional Information**
Project Name: Aldi Food Store
Application No.: 44032832.001
County: Pasco
Sec/Twp/Rge: 31/26S/16E

References: Chapters 40D-1, 4, 40 and 400, Florida Administrative Code (F.A.C.)
Sections 373.4141 and 120.60, Florida Statutes (F.S.)

Dear Mr. Abuton:

Before the District can complete its review of the permit application referenced above, the information itemized on the enclosed checklist must be received.

Please ensure that your response to the checklist, including checks,

- is received in this office within 30 days from the date of this request;
- references the permit application number; and
- includes three copies of **all** requested information.

Failure to provide this information within 30 days will delay the processing of the permit application, and may result in the permit application being denied. If the additional information cannot be provided within that time period, the Applicant may make a written request for a time extension in accordance with Rule 40D-1.1020, F.A.C., provided that an acceptable justification for the time extension accompanies the request. If needed, the time extension request should be received from the Applicant within 30 days from the date of this letter.

Pursuant to Subsection 373.4141(1), F.S., if you believe this request for additional information is not authorized by law or rule, you may request a hearing pursuant to Sections 120.569, 120.57, F.S., and Chapter 28-106, F.A.C., of the Uniform Rules of Procedure. A request for hearing must: (1) explain how the substantial interests of each person requesting the hearing will be affected by the District's action, or proposed action, (2) state all material facts disputed by the person requesting the hearing or state that there are no disputed facts, and (3) otherwise comply with Chapter 28-106, F.A.C. Copies of Sections 28-106.201 and 28-106.301, F.A.C. are enclosed for your reference. A request for hearing must be filed with (received by) the Agency Clerk of the District at the District's Brooksville address within 21 days of receipt of this notice. Receipt is deemed to be the fifth day after the date on which this notice is deposited in the United States mail. Failure to file a request for hearing within this time period shall constitute a waiver of any right you or such person may have to request a hearing under Sections 120.569 and 120.57, F.S. Mediation pursuant to Section 120.573, F.S., to settle an administrative dispute regarding the District's action in this matter is not available.

Neil Combee
Chair, Polk

Todd Pressman
Vice Chair, Pinellas

Jennifer E. Closshey
Secretary, Hillsborough

Ronald E. Oakley
Treasurer, Pasco

Bryan K. Beswick
DeSoto

Patricia M. Glass
Manatee

Hugh M. Gramling
Hillsborough

Albert G. Joerger
Sarasota

Sallie Parks
Pinellas

Maritza Rovira-Forino
Hillsborough

H. Paul Senft, Jr.
Polk

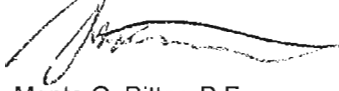
Judith C. Whitehead
Hernando

David L. Moore
Executive Director

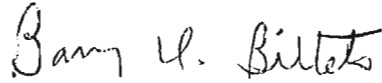
William S. Bilenky
General Counsel

If you have questions regarding the information requested or the District's procedures, please contact me at the Brooksville Service Office, extension 4351. For assistance with environmental concerns, please contact Barry D. Billets, extension 4371.

Sincerely,



Monte G. Ritter, P.E.
Brooksville Regulation Department



Barry D. Billets
Brooksville Regulation Department

MGR:BDB:snr

Enclosures: Checklist

Sections 28-106.201 and 28-106.301, F.A.C.

cc/enc: File of Record 44032832.001

Wylie Klyce, Aldi, Inc.

US Army Corps of Engineers

**PROJECT INFORMATION REVIEW LIST
ENVIRONMENTAL RESOURCE PERMIT APPLICATION
GENERAL CONSTRUCTION**

DATE: August 6, 2008
PROJECT NAME: Aldi Food Store
APPLICATION NUMBER: 44032832.001
DATE APPL. RECEIVED: July 7, 2008
APPLICATION REVIEWER/S:
ENGINEERING: Monte G. Ritter, P.E.
ENVIRONMENTAL: Barry D. Billets

In order to provide that reasonable assurance is given for those "Conditions for Issuance of General Permits" found in Rule 40D-40.302, Florida Administrative Code, (F.A.C.), the following additional information is required as indicated. The items requested are extracted from Rule 40D-40.112, F.A.C., "Content of Application for General Permits," 40D-1.607, F.A.C. "Permit Processing Fee," and 40D-1.659, F.A.C. "Forms and Instructions."

APPLICATION AND APPLICATION CERTIFICATION:

1. The type of Environmental Resource Permit (ERP) you requested does not appear to qualify for a Standard General Permit, as the total area of work in, on or over wetlands or other surface waters exceeds one acre. The proposed project appears to qualify for an Individual ERP. Please provide an amended copy of Section A of the ERP application forms, indicating you are applying for the required Individual ERP. Reference Subsection 40D-40.302(2)(b), F.A.C.
2. A \$1600.00 permit processing fee was received. The required permit processing fee for an Individual ERP is \$2500.00. Please provide an additional \$900.00 to cover the required permit processing fee. Reference Subsection 40D-1.607(1)(a)3, F.A.C.

ENVIRONMENTAL CONSIDERATION:

3. **This project, as submitted, involves more than one acre of wetland impact that is not exempt from habitat mitigation requirements. A preliminary review of the plans submitted by Spring Engineering, Inc. reveals a lack of sufficient environmental information. It appears that the project submitted by Spring Engineering, Inc. was submitted prematurely, and fails to meet the ERP Conditions of Issuance identified in Subsections 3.1.1 a, b and g, ERP Basis of Review (B.O.R.) and Subsections 40D-4.301(1)(d) and 40D-4.302(1)(b), F.A.C. The absence of a reasonably complete application should be a concern for the applicant and the applicant's consultants. To continue with the environmental review of this project, please provide the requested information that is indicated below in a timely manner that will allow District staff to complete the review of the project for issuance, not for denial. If providing sufficient environmental information will be a problem, please consider temporarily withdrawing the application and resubmitting it when a reasonably complete package can be provided. Reference Chapter 3.0 and Subsections 3.1.1 a, b, g, ERP Basis of Review (B.O.R.) and Subsections 40D-4.091(1), 40D-4.101(1)(e), 40D-4.301(1)(d) and 40D-4.302(1)(b), F.A.C.**
4. It appears that no attempt was made to implement practicable design modifications to reduce or eliminate impacts to the wetland. How are the impacts justified? The District will not require the applicant to consider practicable design modifications to reduce or eliminate wetland impacts if the ecological value of the functions of the wetland area proposed to be impacted is low, based on a site-specific analysis of the factors identified in Subsection 3.2.2.3, B.O.R., and the proposed mitigation will provide greater long term ecological value than the area proposed to be impacted. Since it appears that the applicant is planning to use mitigation credits in an off-site mitigation

- bank, this is not considered to be all or part of a plan that provides regional ecological value. Unless the ecological value of the functions of the wetland impact area is low, show the design alternatives that were considered to reduce or eliminate wetland impacts. Provide an economic evaluation of each scenario. If further clarification is needed, please call Barry Billets at extension 4371. Reference Subsections 3.2.1, 3.2.1.1 and 3.2.1.2(b), B.O.R. and Subsections 40D-4.091(1) and 40D-4.101(1), F.A.C.
5. Provide the results of any wildlife surveys that have been conducted on the site and any comments pertaining to the project from the Florida Fish and Wildlife Conservation Commission or the US Fish and Wildlife Service. Reference Subsection 3.2.2, B.O.R. and Subsections 40D-4.091(1) and 40D-4.101(1), F.A.C.
 6. The project involves wetland impacts. Since it is unclear whether or not the mitigation is appropriate and will offset the proposed wetland impacts, please address the Public Interest Test criteria discussed in Subsection 3.2.3, ERP B.O.R. Reference Subsection 40D-4.091(1) and 40D-4.101(1), F.A.C.
 7. On Part 4D of Section A of the application the size of the project is indicated to be 3.10 acres, but on Sheet C1.2 reference is made to a 3.90-acre project area. The applicant needs to explicitly delineate and label the correct project area on the application and on the plans. Reference Subsection 40D-4.101(1)(e), F.A.C.
 8. The aerial photograph of the site that is depicted on the cover sheet of the construction plans is not legible for photo interpretation. As requested in Section E, provide recent aerials legible for photo interpretation with a scale of 1" = 400 feet or more detailed, with project boundaries for this submittal delineated on the aerial. Reference Subsection 40D-4.101(1)(e), F.A.C.
 9. It is suggested that the applicant refer to previously approved Formal Wetland Determination, ERP No. 42032832.000. As approved, the site contained 2.55 acres of wetland and 0.09 acre of surface water. This environmental information and the approved wetland and surface water boundaries from the Formal Determination need to be explicitly delineated, labeled and presented on the construction plans. Provide a construction drawing that clearly shows the requested information. Reference Subsection 40D-4.101(1)(e), F.A.C.
 10. Provide a completed Table One (Project Wetland and Other Surface Water Summary) of Section E. Note that the District uses a Uniform Mitigation Assessment Method (UMAM) database as part of the construction of the environmental portions of the permit. Please identify the three-digit Florida Land Use, Cover and Forms Classification System (FLUCCS) code to describe each wetland, surface water, and wetland and surface water impact area in Table One. Reference Subsection 40D-4.101(1)(e), F.A.C.
 11. The finalized total acreage of wetland impact and surface water impact needs to be consistent in Part 4F of Section A and on the Demolition Key Notes on Sheet C1.2. Clarify/revise. Reference Subsection 40D-4.101(1)(e), F.A.C.
 12. On Sheet C1, it appears that the same line type is used for wetlands within the property as for those off site. An additional wetland line is shown to extend off site in the vicinity of Auto Towing/Storage. Either remove this off-site wetland line, or use a different line symbol to indicate that this additional line was not verified by Southwest Florida Water Management District (SWFWMD) staff. Reference Subsection 40D-4.101(1)(e), F.A.C.
 13. Is Sheet 1.2 intended to be a Wetland and Surface Water Impact Sheet? No wetland or surface water lines are shown on the Site Plan, or the Paving, Grading and Drainage Plan. All of the proposed wetland and surface water impact area(s) need to be explicitly delineated and labeled on these plans. The applicant needs to provide a construction plan sheet that clearly depicts the District verified wetland and surface water boundaries in relation to the proposed footprint of

- construction. What are the size(s) of any remaining wetland areas not proposed to be impacted by the project? Any wetland area(s) not impacted also need to be explicitly delineated and labeled on the plans. Please be advised that any wetland fragments left over from the construction may require a UMAM evaluation and mitigation to offset the loss of wetland functions associated with the project. Reference Subsection 40D-4.101(1)(e), F.A.C.
14. As a way to unclutter the construction plans and emphasize environmental information needed by the District, applicant should remove the county tree survey data and tree removal data from the Demolition Plan, Sheet C1.2, and depict the tree data for the county on a separate sheet. Emphasize the previously approved wetland and surface water boundaries, and the proposed impact areas. Reference Subsection 40D-4.101(1)(e), F.A.C.
 15. For SWFWMD Wetland Line "A" shown on Sheet C1.2, how will the wetland area adjacent to Line Segment L2, and the turbidity and erosion control not be impacted? The additional impact needs to be properly presented and accounted for. Clarify/revise. Reference Subsection 40D-4.101(1)(e), F.A.C.
 16. The location of the turbidity and erosion control adjacent to the wetlands is a source of concern. It appears that there will be additional secondary impacts to the wetland due to the location of the turbidity and erosion control. How will secondary impacts be avoided? Additional mitigation may be necessary if the applicant can not avoid additional secondary wetland impacts resulting from the proposed construction. Clarify/revise. Reference Subsection 3.2.7, B.O.R. and Subsections 40D-4.091(1) and 40D-4.101(1), F.A.C.
 17. For the wetland impact area(s) and work adjacent to wetland area(s), provide a sufficient number of cross-sections for the retaining wall, parking areas and the wet detention pond, and discharge structure. The details should include, but not be limited to, existing and proposed elevations, wetland line, and turbidity and erosion control. Show details of any proposed excavations into the wetland to connect discharge structures or drainage easements. Reference Subsection 40D-4.101(1)(e), F.A.C.
 18. Provide a certified survey, signed and sealed by a Land Surveyor licensed in the State of Florida, of the District verified wetland seasonal high water levels for the site. The verification can be accomplished during the August 26, 2008, site visit to verify the UMAM scores. Depict this information on the construction plans.
 19. Are any temporary wetland impacts proposed for this project? Reference Subsection 40D-4.101(1)(e), F.A.C.
 20. Will any work in, or adjacent to, the wetland for the 36-foot wide proposed Florida Department of Transportation (FDOT) drainage easement be necessary? Reference Subsection 40D-4.101(1)(e), F.A.C.
 21. As required by Subsection 62-345.300(1), F.A.C., please provide the necessary supporting documentation relative to the UMAM for the wetland impact area(s). A site visit is scheduled with Dr. Martin Armstrong, Armstrong Environmental Services, Inc., for August 26, 2008, at 10:00 a.m. to verify the UMAM scores. Please be advised that any wetland fragments left over from the construction may require a UMAM evaluation and mitigation to offset the loss of wetland functions associated with the project. Further questions may be provided, once additional environmental information is received. Reference Subsection 40D-4.101(1) and Chapters 62-345.500 and 62-345.600, F.A.C.
 22. In the application it is indicated that Aldi, Inc. will purchase mitigation bank credits, but no details are provided. Exactly which mitigation bank is the applicant planning to use? Show that the mitigation bank has appropriate mitigation and a sufficient amount of credits. Provide the details of a mitigation plan designed to offset the loss of wetland functions associated with the project.

23. For the proposed wetland impact, if the credits in the potential area are inappropriate or insufficient to offset the loss of wetland functions, provide the details of a mitigation plan designed to offset the loss of functions. Reference Subsections 3.3.3.2, 3.3.7, 3.3.7.2 and 3.3.7.6, B.O.R. and Subsections 40D-4.091(1) and 40D-4.101(1)(e), F.A.C.
24. If off-site mitigation is being planned, provide a completed Table Three (Project Off-Site Mitigation Summary) of Section E. Reference Subsection 40D-4.101(1)(e), F.A.C.
25. If the applicant intends to utilize mitigation credits from an appropriate mitigation bank, provide a Letter of Reservation of Credits from the mitigation bank, or other satisfactory documentation from the mitigation bank that demonstrates the proper amount of credits have been reserved for the permit applicant for the wetland impacts proposed as part of this permit application. The credits must be available when the permit is issued. If the impact(s) are to forested wetlands, show that there are sufficient forested credits available to offset the loss of wetland functions associated with the project. For non-forested impacts show that there are sufficient non-forested mitigation credits available. Reference Appendix IV, Part 6 (g)(1), District B.O.R.

PLANS:

26. Review of permit documentation for the nearby Weston Oaks Apartments (ERP Nos. 44021374.000-003) indicates Lake Nash, the receiving water body for the proposed project, does not have unrestricted discharge to the Gulf of Mexico below elevation 8.5-feet, National Geodetic Vertical Datum (NGVD). Therefore, elevation 8.5-feet, NGVD should be the effective floodplain elevation for establishing encroachment and compensation volumes within the proposed project area. Please revise the plans to clearly delineate and label this effective floodplain boundary, and provide revised plans and calculations, which show any loss in storage below this elevation will be equivalently replaced. Reference Subsections 40D-4.101(1)(b), 40D-4.301(1)(b) and (c), and 40D-4.301(3), F.A.C.; Section E, Part C.4, ERP application; and Sections 4.4 and 4.7, B.O.R.
27. Review of Sheet No. 31-26-16 of the District's Aerial Photography with Contours map and the FDOT Drainage Map provided in Appendix B, appears to show the contributing off-site watersheds to the Manton Lane west and east interceptor swales are larger than the respective 0.57-acre and 0.19-acre areas stated in the Stormwater Management Report. Please provide copies of a drainage map, which clearly identifies the limits and acreage of these off-site contributing areas. Also revise the drainage calculations to account for the larger off-site areas. Reference Subsection 40D-4.101(1)(b), F.A.C. and Section E, Part C.9, ERP application.
28. Please revise Plan Sheet C3 to clearly label the apparent interceptor swales along the western, northern, northeastern, and southeastern property boundaries. Also, revise the plans to include typical cross-sections for these proposed swales, and revise the Section C and Section D details on Plan Sheet C3.3 accordingly. Reference Subsection 40D-4.101(1)(b), F.A.C. and Section E, Part C.10, ERP application.

DRAINAGE INFORMATION:

29. For reliability and accountability, please provide copies of the Geotechnical Engineering Report, which include the original signature and raised seal of the Professional Engineer. Reference Subsection 40D-4.301(3), F.A.C., and Section 1.5, B.O.R.
30. Please provide revised calculations and plans, which show the proposed FDOT By-pass Culvert and Manton Lane west and east interceptor swales are adequately sized to convey floodwater discharges, resulting from the 100-year event without causing increased flooding on off-site property. Note that the discharges should be computed using the District's 24-hour, 100-year rainfall map, Antecedent Moisture Condition (AMC) II, and the Soil Conservation Service (SCS) Type II Florida Modified rainfall distribution. Also note that the pre-development, 100-year peak

stage in the existing ditch downstream of the existing FDOT Special U-Type Endwall must be computed to establish an allowable 100-year headwater elevation for the proposed FDOT By-pass Culvert. Reference Subsections 40D-4.301(1)(b) and 40D-4.301(3), F.A.C. and Sections 4.4, 4.8, 7.1, 7.2 and 7.3, B.O.R.

31. Please provide calculations, which establish the elevation of the treatment volume after 36 hours of drawdown. If necessary, revise the post-development ICPR input for Node Pond to use an initial stage, which is no lower than the elevation of the treatment volume after 36 hours of drawdown. Reference Subsections 40D-4.301(1)(a) and 40D-4.301(3), F.A.C. and Subsection 5.2.a.5, B.O.R.

OPERATION AND MAINTENANCE AND LEGAL DOCUMENTATION:

32. Please provide a copy of the deed or other evidence of ownership or control by the applicant. Reference Subsections 40D-4.101(1)(b) and 40D-4.301(1)(j), F.A.C. and Section E, Part F.6, ERP application.
33. Please provide concurrence documentation from the FDOT authorizing the proposed vacation of the existing drainage easements, as depicted on Plan Sheet C1.2. Reference Subsection 40D-4.301(1)(j), F.A.C.

The following comment(s), although not required by District rule, is (are) provided for your consideration and information:

34. Unless alternative and mutually agreeable wording is provided, the following language, presented here in draft form, will be included as a specific condition of this permit. Reference Subsection 40D-4.101(1)(e), F.A.C.:

Prior to construction of wetland impacts, the authorized agent for the *specify Mitigation Bank* shall submit a letter modification request to withdraw (*specify acres*) acres of (*specify*) forested/non-forested credits from the *specify Mitigation Bank*, (*specify ERP No.*).

35. Unless alternative and mutually agreeable wording is provided, the following language will be included as specific conditions of this permit. Reference Subsection 40D-4.101(1)(e), F.A.C.:

- a. The following boundaries, as shown on the approved construction drawings, shall be clearly delineated on the site prior to initial clearing or grading activities:

- (x) wetland and surface water areas
- (x) limits of approved wetland and surface water impacts

The delineation shall endure throughout the construction period and be readily discernible to construction and District personnel.

- b. Wetland and surface water boundaries shown on the approved construction drawings shall be binding upon the Permittee and the District.
- c. The removal of littoral shelf vegetation (including cattails) from wet detention ponds is prohibited, unless otherwise approved by the District. Removal includes dredging, the application of herbicide, cutting, and the introduction of grass carp. Any questions regarding authorized activities within the wet detention ponds shall be addressed to the District Surface Water Regulation Manager, Brooksville Service Office.

MGR:BDB:snr

**PART II HEARINGS INVOLVING
DISPUTED ISSUES OF MATERIAL FACT**

28-106.201 Initiation of Proceedings.

(1) Unless otherwise provided by statute, initiation of proceedings shall be made by written petition to the agency responsible for rendering final agency action. The term "petition" includes any document that requests an evidentiary proceeding and asserts the existence of a disputed issue of material fact. Each petition shall be legible and on 8 ½ by 11 inch white paper. Unless printed, the impression shall be on one side of the paper only and lines shall be double-spaced.

(2) All petitions filed under these rules shall contain:

(a) The name and address of each agency affected and each agency's file or identification number, if known;

(b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;

(c) A statement of when and how the petitioner received notice of the agency decision;

(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;

(e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action;

(f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and

(g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

(3) Upon receipt of a petition involving disputed issues of material fact, the agency shall grant or deny the petition, and if granted shall, unless otherwise provided by law, refer the matter to the Division of Administrative Hearings with a request that an administrative law judge be assigned to conduct the hearing. The request shall be accompanied by a copy of the petition and a copy of the notice of agency action.

(4) A petition shall be dismissed if it is not in substantial compliance with subsection (2) of this rule or it has been untimely filed. Dismissal of a petition shall, at least once, be without prejudice to petitioner's filing a timely amended petition curing the defect, unless it conclusively appears from the face of the petition that the defect cannot be cured.

(5) The agency shall promptly give written notice to all parties of the action taken on the petition, shall state with particularity its reasons if the petition is not granted, and shall state the deadline for filing an amended petition if applicable.

Specific Authority 120.54(3), (5) F.S. Law Implemented 120.54(5), 120.569, 120.57 F.S. History—New 4-1-97, Amended 9-17-98.

**PART III PROCEEDINGS AND HEARINGS
NOT INVOLVING DISPUTED ISSUES OF
MATERIAL FACT**

28-106.301 Initiation of Proceedings

(1) Initiation of a proceeding shall be made by written petition to the agency responsible for rendering final agency action. The term "petition" includes any document which requests a proceeding. Each petition shall be legible and on 8 ½ by 11 inch white paper or on a form provided by the agency. Unless printed, the impression shall be on one side of the paper only and lines shall be double-spaced.

(2) All petitions filed under these rules shall contain:

(a) The name and address of each agency affected and each agency's file or identification number, if known;

(b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;

(c) A statement of when and how the petitioner received notice of the agency decision;

(d) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action;

(e) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and

(f) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

(3) If the petition does not set forth disputed issues of material fact, the agency shall refer the matter to the presiding officer designated by the agency with a request that the matter be scheduled for a proceeding not involving disputed issues of material fact. The request shall be accompanied by a copy of the petition and a copy of the notice of agency action.

(4) A petition shall be dismissed if it is not in substantial compliance with subsection (2) of this Rule or it has been untimely filed. Dismissal of a petition shall, at least once, be without prejudice to petitioner's filing a timely amended petition curing the defect, unless it conclusively appears from the face of the petition that the defect cannot be cured.

(5) The agency shall promptly give written notice to all parties of the action taken on the petition, shall state with particularity its reasons if the petition is not granted, and shall state the deadline for filing an amended petition if applicable.

Specific Authority 120.54(5) F.S. Law Implemented 120.54(5), 120.569, 120.57 F.S. History—New 4-1-97, Amended 9-17-98.

FHWA Urban Drainage Design Program, HY-22
HYDRAULIC PARAMETERS OF OPEN CHANNELS

Trapezoidal, Rectangular, or Triangular X-Section
Date: 08/07/2009

Project No. :2008-04
Project Name.:Aldi - Holiday
Computed by :Yancey Abuton

Project Description
Manton Lane West Interceptor Swale Capacity

INPUT PARAMETERS

| | |
|---------------------------------------|--------|
| 1. Channel Slope (ft/ft) | 0.0025 |
| 2. Channel Bottom Width (ft) | 5.00 |
| 3. Left Side Slope (Horizontal to 1) | 4.00 |
| 4. Right Side Slope (Horizontal to 1) | 4.00 |
| 5. Manning's Coefficient | 0.040 |
| 6. Discharge (cfs) | 20.28 |
| 7. Depth of Flow (ft) | 1.25 |

OUTPUT RESULTS

| | |
|---------------------------|-------|
| Cross Section Area (Sqft) | 12.50 |
| Average Velocity (ft/sec) | 1.62 |
| Top Width (ft) | 15.00 |
| Hydraulic Radius (ft) | 0.82 |
| Froude Number | 0.31 |

FHWA Urban Drainage Design Program, HY-22
HYDRAULIC PARAMETERS OF OPEN CHANNELS

Trapezoidal, Rectangular, or Triangular X-Section
Date: 08/07/2009

Project No. :2008-04
Project Name.:Aldi - Holiday
Computed by :Yancey Abuton

Project Description
Manton Lane East Interceptor Swale Capacity

INPUT PARAMETERS

| | |
|---------------------------------------|--------|
| 1. Channel Slope (ft/ft) | 0.0032 |
| 2. Channel Bottom Width (ft) | 5.00 |
| 3. Left Side Slope (Horizontal to 1) | 4.00 |
| 4. Right Side Slope (Horizontal to 1) | 4.00 |
| 5. Manning's Coefficient | 0.040 |
| 6. Discharge (cfs) | 22.95 |
| 7. Depth of Flow (ft) | 1.25 |

OUTPUT RESULTS

| | |
|---------------------------|-------|
| Cross Section Area (Sqft) | 12.50 |
| Average Velocity (ft/sec) | 1.84 |
| Top Width (ft) | 15.00 |
| Hydraulic Radius (ft) | 0.82 |
| Froude Number | 0.35 |

Pamela Shaw

From: Spring Engineering, Inc. [sei2@verizon.net]
Sent: Thursday, January 14, 2010 5:12 PM
To: Pamela Shaw
Cc: Wylie Klyce
Subject: 2008-04 ALDI - Holiday
Attachments: DOC011410-011.pdf; 2008-04 Aldi - Holiday Manton West Interceptor Capacity 080709.pdf; 2008-04 Aldi - Holiday Manton East Interceptor Capacity 080709.pdf

Pam,

Pursuant to our telephone conversation, attached herewith are the swale calculations and SWFWMD Letter (Please refer to comment #30) for the above referenced project.

Please contact our office if you have any questions or require additional information.

Sincerely,

Nick

Nick Lingle
Project Manager

Spring Engineering, Inc.

Architecture
Engineering
Land Planning
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Information from ESET NOD32 Antivirus, version of virus signature database 3832
(20090206)

The message was checked by ESET NOD32 Antivirus.

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