

RESOLUTION NO. 2017-124

A RESOLUTION OF THE MAYOR AND VILLAGE COUNCIL OF THE VILLAGE OF PALMETTO BAY, FLORIDA, RELATING TO VILLAGE WIDE DRAINAGE IMPROVEMENTS; APPROVING THE SELECTION CIVIL WORKS, INC. TO PROVIDE LIMITED CONSTRUCTION ENGINEERING INSPECTION SERVICES FOR SEVEN (7) PRIORITY AREAS (AREA 1 - SW 87TH AV FROM SW 142ND ST TO SOUTH OF SW 143RD ST, AREA 2 - SW 80TH AV FROM SW 166TH ST TO NORTH OF SW 168TH ST, AREA 3 - SW 155TH ST FROM EAST OF SW 81ST AV TO END OF CUL DE SAC (SW 79TH AV), AREA 4 - SW 80TH AV FROM SW 148TH ST TO SW 152ND ST, AREA 5 - SW 84TH COURT FROM SW 147TH ST TO SW 147TH TERRACE, AREA 6 - SW 88TH COURT FROM SW 156TH TERRACE UP TO AND INCLUDING SW 159TH ST, AND AREA 7 - SW 145TH TERRACE FROM SW 73RD AV TO SW 74TH AV) UNDER PHASE VI LOCALIZED DRAINAGE IMPROVEMENTS; AUTHORIZING THE VILLAGE MANAGER TO ISSUE A PURCHASE ORDER AND APPROVE EXPENDITURE OF FUNDS IN AN AMOUNT NOT TO EXCEED \$38,580; AND PROVIDING FOR AN EFFECTIVE DATE. (Sponsored by Administration)

WHEREAS, Village administration contracted with Civil Works, Inc. to provide drainage engineering and planning for the preparation of drainage improvements in the area of Area 1 - SW 87th AV from SW 142nd ST to south of SW 143rd ST, Area 2 - SW 80th AV from SW 166th ST to north of SW 168th ST, Area 3 - SW 155th ST from east of SW 81st AV to end of Cul de Sac (SW 79th AV), Area 4 - SW 80th AV from SW 148th ST to SW 152nd ST, Area 5 - SW 84th Court from SW 147th ST to SW 147th Terrace, Area 6 - SW 88th Court from SW 156th Terrace up to and including SW 159th ST, and Area 7 - SW 145th Terrace from SW 73rd AV to SW 74th AV in accordance with the established guidelines and procedures utilized by Miami-Dade County Public Works Department, Florida Department of Transportation and the Department of Environmental Resource Management; and

1
2 **WHEREAS**, Civil Works, Inc. designed drainage improvements
3 that consist of swale enhancements and new drainage exfiltration
4 trenches sized to provide sufficient capacity to discharge the volume of
5 runoff during severe storm events in the area mentioned above; and
6

7 **WHEREAS**, Civil Works has provided the Village of Palmetto Bay
8 with design, permitting and bidding support on other drainage
9 improvement projects; and
10

11 **WHEREAS**, Village Administration has determined that Civil
12 Works, Inc. would be the best suited to provide construction
13 engineering and inspection services as they designed the
14 improvements recommended to adequately address the stormwater
15 drainage deficiencies identified under the scope of Phase VI Localized
16 Drainage Improvement project; and
17

18 **WHEREAS**, Civil Works, Inc. has provided a proposal for
19 construction engineering inspection services to the Village in an amount
20 of \$38,580.00; and
21

22 **WHEREAS**, Civil Works, Inc. has demonstrated their experience
23 with similar drainage improvements projects in Palmetto Bay, and
24 within both Miami-Dade County and Broward Counties; and
25

26 **WHEREAS**, this Resolution if approved, will promote the health,
27 safety and welfare of the Village; and
28

29 **WHEREAS**, Administration is requesting authorization from the
30 Village Council to enter into an agreement with Civil Works, Inc. to
31 provide construction engineering inspection for Phase VI Localized
32 Drainage Improvement project in accordance with the term and
33 conditions of the project agreement attached hereto as “Exhibit A”; and
34

35 **WHEREAS**, Funding is available and budgeted for this item under
36 “Special Revenue Funds – Stormwater Utility” in an amount up to
37 \$38,580.
38
39

NOW, THEREFORE, BE IT RESOLVED BY THE VILLAGE OF PALMETTO BAY, FLORIDA, THAT:

Section 1. The Village Council approves the selection of Civil Works, Inc. to provide limited construction engineering inspection for seven (7) priority areas; Area 1 - SW 87th AV from SW 142nd ST to south of SW 143rd ST, Area 2 - SW 80th AV from SW 166th ST to north of SW 168th ST, Area 3 - SW 155th ST from east of SW 81st AV to end of Cul de Sac (SW 79th AV), Area 4 - SW 80th AV from SW 148th ST to SW 152nd ST, Area 5 - SW 84th Court from SW 147th ST to SW 147th Terrace, Area 6 - SW 88th Court from SW 156th Terrace up to and including SW 159th ST, and Area 7 - SW 145th Terrace from SW 73rd AV to SW 74th AV.

Section 2. The Village Council further authorizes the Village Manager to execute an agreement in substantially the form attached hereto as "Exhibit A" and issue a purchase order approving expenditure of funds in an amount up to \$38,580.

Section 3. This Resolution shall take effect immediately upon its adoption.

PASSED and ADOPTED this 6th day of November, 2017.

Attest:

DocuSigned by:
Missy Arocha
6EDC211E5E8C48C
Missy Arocha
Village Clerk

DocuSigned by:
Eugene Flinn
3B8854AD569F494...
Eugene Flinn
Mayor

APPROVED AS TO FORM AND LEGAL SUFFICIENCY FOR THE USE AND RELIANCE OF THE VILLAGE OF PALMETTO BAY, FLORIDA ONLY:

DocuSigned by:
Dexter W. Lehtinen
1B1D06E71321445...
Dexter W. Lehtinen
Village Attorney

1 FINAL VOTE AT ADOPTION:
2
3 Council Member Karyn Cunningham YES
4
5 Council Member David Singer YES
6
7 Council Member Larissa Siegel Lara YES
8
9 Vice-Mayor John DuBois YES
10
11 Mayor Eugene Flinn YES

PROJECT AGREEMENT
Between

THE VILLAGE OF PALMETTO BAY, FLORIDA

And

[Insert Company Name]

For

Work Authorization No. _____

[INSERT NAME OF PROJECT]

Pursuant to the provisions contained in the "continuing services agreement" between the VILLAGE OF PALMETTO BAY, FLORIDA, 9705 E Hibiscus Street, Palmetto Bay, Florida 33157 (the "village") and [Insert Company Name], _____ ("consultant") dated _____, this project agreement authorizes the consultant to provide the services as set forth below:

The village and consultant agree as follows:

SECTION 1. SCOPE OF SERVICES

1.1 The consultant shall provide engineering services to the village for the project as described in the "Project Description" attached as Exhibit "1."

1.2 The "Scope of Services and Project Schedule" and tasks to be provided by the consultant for this project are those services and tasks as listed in Exhibit "2."

1.3 The village may request changes that would increase, decrease, or otherwise modify the Scope of Services. The changes must be contained in a written change order executed by the parties in accordance with the provisions of the continuing services agreement, prior to any deviation from the terms of the project agreement, including the initiation of any extra work.

SECTION 2. DELIVERABLES

As part of the Scope of Services and Project Schedule, the consultant shall provide to the village the following Deliverables:

SECTION 3. TERM/TIME OF PERFORMANCE/DAMAGE

3.1 **Term.** This project agreement shall commence on the date this instrument is fully executed by all parties and shall continue in full force and effect _____, unless otherwise terminated pursuant to section 6 or other applicable provisions of this project agreement. The village manager, in his sole discretion, may extend the term of this agreement through written notification to the consultant. The extension shall not exceed 30 days. No further extensions of this agreement shall be effective unless authorized by the village council.

3.2 **Commencement.** The consultant’s services under this project agreement and the time frames applicable to this project agreement shall commence upon the date provided in a written Notification of Commencement (“Commencement Date”) provided to the consultant from the village. The consultant shall not incur any expenses or obligations for payment to third parties prior to the issuance of the Notification of Commencement. Consultant must receive written notice from the village manager or his designee prior to the beginning the performance of services.

3.3 **Contract Time.** Upon receipt of the Notification of Commencement, the consultant shall commence services to the village on the Commencement Date, and shall continuously perform services to the village, without interruption, in accordance with the time frames set forth in the “Project Schedule,” a copy of which is attached and incorporated into this agreement as Exhibit “2”. The number of calendar days from the Commencement Date, through the date set forth in the Project Schedule for completion of the project or the date of actual completion of the project, whichever shall last occur, shall constitute the Contract Time.

3.4 **Liquidated Damages.** Unless otherwise excused by the village in writing, in the event that the consultant fails to meet to the contract time for completion of services as determined by the Project Schedule, the consultant shall pay to the village the sum of dollars identified below per day for each and every calendar day unexcused delay beyond the completion date, plus approved time extensions, until completion of the project: \$0 per day. The consultant may claim extension if the factors involved are not under their direct control.

Any sums due and payable hereunder by the consultant shall be payable, not as a penalty, but as liquidated damages representing and estimate at or before the time of executing this agreement. When the village reasonably believes that completion will be inexcusably delayed, the village shall be entitled, but not required, to withhold from any amounts otherwise due the consultant an amount then believed by the village to be adequate to recover liquidated damages applicable to the delays. If and when the consultant overcomes the delay in achieving completion, or any part thereof, for which the village has withheld payment, the village shall promptly release to the consultant those funds withheld, but no longer applicable, as liquidated damages.

3.5 All limitations of time set forth in this agreement are of the essence.

SECTION 4. AMOUNT, BASIS AND METHOD OF COMPENSATION

4.1 **Lump Sum Compensation.** Village agrees to pay consultant as compensation for performance of all services described in Exhibit "2" \$_____. [OR, IF HOURLY, "VILLAGE AGREES TO PAY CONSULTANT COMPENSATION AT CONSULTANT'S HOURLY RATES, UP TO A MAXIMUM AMOUNT NOT TO EXCEED \$_____.]

4.2 **Reimbursable Expenses.** The following expenses are reimbursable at their actual cost: travel and accommodations, long distance telephone calls, facsimile, courier services, mileage (at a rate approved by the village), photo and reproduction services. All document reproductions are also reimbursable, at a rate approved by the village.

SECTION 5. BILLING AND PAYMENTS TO THE CONSULTANT

5.1 Invoices

5.1.1 **Lump Sum Compensation and Reimbursable Expenses.** Consultant shall submit invoices which are identified by the specific project number on a monthly basis in a timely manner. These invoices shall identify the nature of the work performed, the phase of work, and the estimated percent of work accomplished in accordance with the Payment Schedule set forth in Exhibit "3", to this project agreement. Invoices for each phase shall not exceed amounts allocated to each phase of the Project plus reimbursable expenses accrued during each phase. The statement shall show a summary of fees with accrual of the total and credits for portions previously paid by the village. The village shall pay consultant within 30 days of approval by the village manager of any invoices submitted by consultant to the village.

5.2 **Disputed Invoices.** In the event that all or a portion of an invoice submitted to the village for payment to the consultant is disputed, or additional backup documentation is required, the village shall notify the consultant within 15 working days of receipt of the invoice of the objection, modification or additional documentation request. The consultant shall provide the

village with additional backup documentation within five working days of the date of the village's notice. The village may request additional information, including but not limited to, all invoices, time records, expense records, accounting records, and payment records of the consultant. The village, at its sole discretion, may pay to the consultant the undisputed portion of the invoice. The parties shall endeavor to resolve the dispute in a mutually agreeable fashion.

5.3 **Suspension of Payment.** In the event that the village becomes credibly informed that any representations of the consultant, provided pursuant to subparagraph 5.1, are wholly or partially inaccurate, or in the event that the consultant is not in compliance with any term or condition of this project agreement, the village may withhold payment of sums then or in the future otherwise due to the consultant until the inaccuracy, or other breach of project agreement, and the cause thereof, is corrected to the village's reasonable satisfaction.

5.4 **Retainage.** The village reserves the right to withhold retainage in the amount of 10 percent of any payment due to the consultant until the project is completed. Said retainage may be withheld at the sole discretion of the village manager and as security for the successful completion of the consultant's duties and responsibilities under the project agreement.

5.5 **Final Payment.** Submission of the consultant's invoice for final payment and reimbursement shall constitute the consultant's representation to the village that, upon receipt from the village of the amount invoiced, all obligations of the consultant to others, including its consultants, incurred in connection with the project, shall be paid in full. The consultant shall deliver to the village all documents requested by the village evidencing payments to any and all subcontractors, and all final specifications, plans, or other documents as dictated in the Scope of Services and Deliverable. Acceptance of final payment shall constitute a waiver of any and all claims against the village by the consultant.

SECTION 6. TERMINATION/SUSPENSION

6.1 **For Cause.** This project agreement may be terminated by either party upon five calendar days written notice to the other party should the other party fail substantially to perform in accordance with its material terms through no fault of the party initiating the termination. In the event that consultant abandons this project agreement or causes it to be terminated by the village, the consultant shall indemnify the village against any loss pertaining to this termination. In the event that the consultant is terminated by the village for cause and it is subsequently determined by a court of competent jurisdiction that the termination was without cause, the termination shall thereupon be deemed a termination for convenience under section 6.2 of this project agreement and the provision of section 6.2 shall apply.

6.2 **For Convenience.** This project agreement may be terminated by the village for convenience upon 14 days' written notice to the consultant. In the event of termination, the consultant shall incur no further obligations in connection with the project and shall, to the extent possible, terminate any outstanding subconsultant obligations. The consultant shall be

compensated for all services performed to the satisfaction of the village and for reimbursable expenses incurred prior to the date of termination. The consultant shall promptly submit its invoice for final payment and reimbursement and the invoice shall comply with the provisions of paragraph 5.1 of this project agreement. Under no circumstances shall the village make any payment to the consultant for services which have not been performed.

6.3 **Assignment upon Termination.** Upon termination of this project agreement, a copy of all of the consultant's work product shall become the property of the village and the consultant shall, within 10 working days of receipt of written direction from the village, transfer to either the village or its authorized designee, a copy of all work product in its possession, including but not limited to designs, specifications, drawings, studies, reports and all other documents and data in the possession of the consultant pertaining to this project agreement. Further, upon the village's request, the consultant shall assign its rights, title and interest under any subcontractor's agreements to the village.

6.4 **Suspension for Convenience.** The village shall have the right at any time to direct the consultant to suspend its performance, or any designated part thereof, for any reason whatsoever or without reason, for a cumulative period of up to 30 calendar days. If the suspension is directed by the village, the consultant shall immediately comply with same. In the event the village directs a suspension of performance as provided for herein through no fault of the consultant, the village shall pay to the consultant its reasonable costs, actually incurred and paid, of demobilization and remobilization, as full compensation for the suspension.

SECTION 7. INCORPORATION OF TERMS AND CONDITIONS OF CONTINUING SERVICE AGREEMENT

7.1 This project agreement incorporates the terms and conditions set forth in the continuing services agreement dated _____ between the parties as though fully set forth herein. In the event that any terms or conditions of this project agreement conflict with the continuing services agreement, the provisions of this specific project agreement shall prevail and apply.

[THE REST OF THIS PAGE INTENTIONALLY LEFT BLANK.]

ATTEST:

VILLAGE OF PALMETTO BAY

Village Clerk

By: _____
Ron E. Williams, Village Manager

Date: _____

APPROVED AS TO FORM:

Village Attorney

ATTEST:

[Insert Company Name]

By: _____
[Insert Name]
[Insert Job Title]

Date: _____

WITNESSES:

Print Name: _____

Print Name: _____

Exhibit "1"

Project Description

[TO BE INSERTED]

Exhibit “2”

Scope of Services and Project Schedule

[TO BE INSERTED]

EXHIBIT "3"

Payment Schedule

[TO BE INSERTED]

EXHIBIT "B"

PAGE 1 OF 2

CONSULTANT'S BILLING RATE

[TO BE INSERTED]

EXHIBIT "B"

PAGE 2 OF 2

GENERAL DESCRIPTION OF EMPLOYEE CATEGORIES

Principal - Senior level managers of the firm.

Project Manager – Registered Engineer that assumes project responsibility. Coordinates and communicates project issues to identify, establish, and maintain the project goals, scopes, budgets, and schedule.

Senior Engineer – Registered Engineer that assumes technical responsibility. Plans and develops projects or phases of projects with unique or complex problems. Also included in this category are senior level individuals with experience in specific areas of disciplines.

Engineer - Degreed professional individuals responsible for production of Engineering, Planning, Landscape, Architectural, and Environmental.

Construction Manager – Individual responsible for coordinating construction administration and onsite observations.

Construction Observation– Technical personnel responsible for observing construction projects.

Senior Draftsman/Technical/CADD Operators - CADD Operators and Designers responsible for CADD technical support and design.

Draftsman - Manual drafters, designers, and technicians responsible for providing production support.

Data Processing/Clerical/Administrative - Staff members responsible for providing clerical and secretarial support to the organization.

EXHIBIT "C"

**PROFESSIONAL SERVICES
REQUEST FOR QUALIFICATIONS DOCUMENT
NO. 2013-PW-100**

[THE REST OF THIS PAGE INTENTIONALLY LEFT BLANK.]

ATTACHMENT B:

Cost Proposal



Civil Works, Inc.

Miami - Ft. Lauderdale - Orlando

A WBE/DBE firm

305-591-4323 954-344-6568 407-339-0040

www.civilworks.com

cwi@civilworks.com

June 22, 2017

Ms. Corrice Patterson, Public Works Director
Village of Palmetto Bay
9705 East Hibiscus Street
Palmetto Bay, FL 33157

**Re: Construction Administration Services for
Phase VI Localized Drainage Improvements,
CWI Project No. 17107.00**

Dear Ms. Patterson:

Civil Works, Inc. (CWI) is pleased to submit this revised proposal to the Village of Palmetto Bay (Village) for Construction Administration Services for the Phase VI localized Drainage Improvements. The Improvement Plans were prepared by CWI in 2016. There are seven (7) distinct locations, each designed with a permitted set of plans and Drainage Report. This letter and our Professional Services Agreement will serve as the agreement for the services described below.

Task 1 - Construction Administration Services

This Task includes services during the construction of the drainage improvements. We understand that the Village staff will provide on-site inspections. CWI will provide the Engineer of Record duties in order to meet the Miami Dade permit requirements for final certification, including:

- ◆ Shop Drawing review,
- ◆ Responses to Requests for Information (RFI's) from the contractor,
- ◆ Periodic on-site review of the drainage improvement construction,
- ◆ Review of Village Staff reports and documentation,
- ◆ Report Logs and documentation of CWI field construction activities
- ◆ Review of Contractor pay requests (4 months)
- ◆ Minor revisions to the plans due to field changes.

Task 2.0 - Additional Services/ Project Representation (if needed)

This task will include additional meetings over the above listed meetings with technical staff, team meetings, agency meetings and any follow-up that your organization may request. Any work performed under this task will be billed at our hourly rates shown below.

SCHEDULE

CWI is ready to begin the project immediately. We will comply with any reasonable design schedule that you require for the completion of this project.

**Village of Palmetto Bay.
Construction Administration Services for
Phase VI Localized Drainage Improvements,
June 22, 2017, Page 2**

COMPENSATION

The fees for providing these Tasks are listed as Lump Sums for each area, based on an estimated time of construction per area. Any task not specifically listed above will be covered as an additional service.

Task 1 Area	Area Description	Structures + trench LF	Est. Const. Days	Est. Hours	Lump Sum	Budget
	General Administration			10	\$1,550	N/A
1	SW 87 Ave, from SW 142 St to SW 143 St	6 + 80	30d	51h	\$5,870	N/A
2	SW 80 Ave, in front of #16625	2 + 40	21d	35h	\$4,020	N/A
3	SW 155 St, in front of #7990	1 + 20	14d	28h	\$3,220	N/A
4	SW 80 Ave, from SW 152 St to SW 148 St (Coral Reef Park)	6 + 65	60d	64h	\$7,360	N/A
5	SW 84 Ct, between SW 147 St and SW 147 Terr	3 + 40	30d	51h	\$5,870	N/A
6	SW 88 Ct, between SW 156 St. and SW 159 St.	13 + 160	60d	64h	\$7,360	N/A
7	SW 145 Terr, in front of 7330	2+40	14d	29h	\$3,330	N/A
	Subtotal				\$38,580	
Task 2	Additional Services/ Project Representation (if needed)				N/A	\$1,000

This Agreement includes up to \$200.00 in travel, reproductions, printing and telecommunications costs. Costs over this amount will be invoiced separately. Any services not specifically mentioned in the tasks above will be additional services. If any additional services are requested, a new task order will be provided based upon the rates listed below.

HOURLY RATES

<u>Category</u>	<u>Hourly Rates</u>
Principal/Project Manager	\$195.00
Senior Engineer (PE)	\$175.00
Project Engineer	\$145.00
Designer	\$125.00
Senior Engineering Tech	\$ 85.00
CADD Technician	\$ 75.00
Administrative	\$ 63.00
Clerical	\$ 52.00

All fees and reimbursable expenses for these services must be paid in full before any final products are released. Any items which are not specifically mentioned are not part of this agreement.

CLIENT'S RESPONSIBILITIES

You will furnish CWI with an executed Task Order for this project and the following:

- ◆ Review, Permit and Application Fees.
- ◆ Bidding and Construction Phases Services will be provided under a separate work order.

It is understood that any environmental issues identified with the soil and/or water contamination on this site will be resolved by others. Therefore, no environmental testing, engineering services nor processing are included in the CWI services. Receipt of the executed Task Order will constitute our Notice to Proceed. Please call me at (305) 591-4323 if you have any questions. We look forward to working with you on this exciting project.

Accepted by

Sincerely,

Signature

Civil Works, Inc.


Linda Bell, P.E.
President

Printed Name

Date

Palmetto-prp2drainage-admin.wpd

Civil Works, Inc.
Consulting Engineers

Plametto Bay Drainage Improvements
June 22, 2017

Const Admin Fees

type	units	hours	totals	
General Administration				
Kickoff Meeting		1	2	2
Pay requests (4 mo)	4		2	8
				10
<hr/>				
area 1				
Shop Dwgs & coord	7	1		7
rfl	2	1		2
site visit	6	6		36
final certs	1	6		6
meetings	0	0		0
				51
<hr/>				
area 2				
Shop Dwgs & coord	3	1		3
rfl	2	1		2
site visit	4	6		24
final certs	1	6		6
meetings	0	0		0
				35
<hr/>				
area 3				
Shop Dwgs & coord	2	1		2
rfl	2	1		2
site visit	3	6		18
final certs	1	6		6
meetings	0	0		0
				28
<hr/>				
area 4				
Shop Dwgs & coord	8	1		8
rfl	2	1		2
site visit	8	6		48
final certs	1	6		6
meetings	0	0		0
				64
<hr/>				
area 5				
Shop Dwgs & coord	7	1		7
rfl	2	1		2
site visit	6	6		36
final certs	1	6		6
meetings	0	0		0
				51
<hr/>				
area 6				
Shop Dwgs & coord	14	1		14
rfl	2	1		2
site visit	7	6		42
final certs	1	6		6
meetings	0	0		0
				64
<hr/>				
area 7				
Shop Dwgs & coord	3	1		3
rfl	2	1		2
site visit	3	6		18
final certs	1	6		6
meetings	0	0		0
				29

VILLAGE OF PALMETTO BAY SW 87 AVE (AREA 1) DRAINAGE IMPROVEMENTS

LIST OF SHEETS:

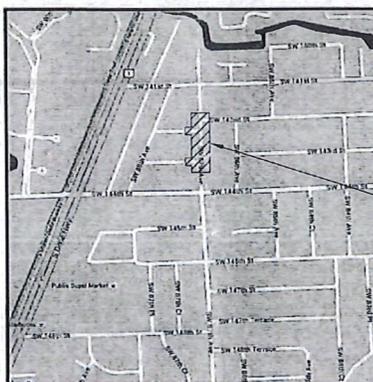
SHT. No.	DESCRIPTION
C-1	COVER SHEET
C-2	GENERAL NOTES
C-3-4	DRAINAGE PLAN
C-5	DRAINAGE DETAILS



ID: 2016-DTM-MISC-00064

Contact Name: RAMON ALVAREZ
 Contact Phone: 3055068477
 Fax: 33-5022-005-0030
 App. Name: PAVING & DRAINAGE REVIEW
 Date: 08/02/2016
 Reviewer:

ENGINEER OF RECORD: LUELL BELL, P.E.
 P.E. #15562



LOCATION SKETCH



PREPARED FOR:
 VILLAGE OF PALMETTO BAY-PUBLIC WORKS DEPT.
 5105 EAST INDIAN STREET
 PALMETTO BAY, FL 33197
 PH: (305)259-1204
 FAX: (305)259-1200
 www.palmetto.fl.gov

PREPARED BY:
CWI Civil Works, Inc.

CONSULTING ENGINEERS
 8491 N.W. 17 ST, Suite 100
 DORAL, FL 33126
 (305) 591-4323
 CA 07520
 Miami • Coral Springs • Orlando

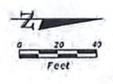
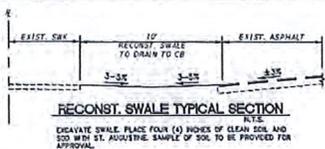
Village of Palmetto Bay
 Department of Public Services
 Plan Reviewed By:
 Signature: *[Signature]* Date: _____

PROJECT LOCATION

DERM
 PLAN REVIEW
 FINAL
 APPROVAL

DATE: 8-31-2016
 6/8/16 90% PROGRESS SET





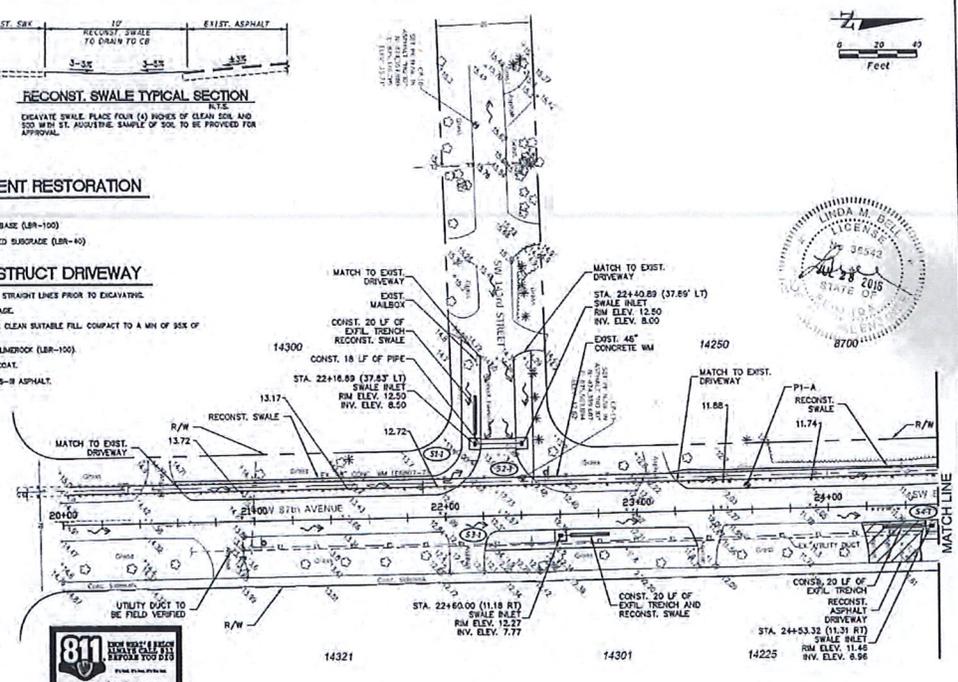
PAVEMENT RESTORATION

- 1" ASPHALT
- 6" UNDERCOAT BASE (UBR-100)
- 12" COMPACTED SUBGRADE (UBR-40)

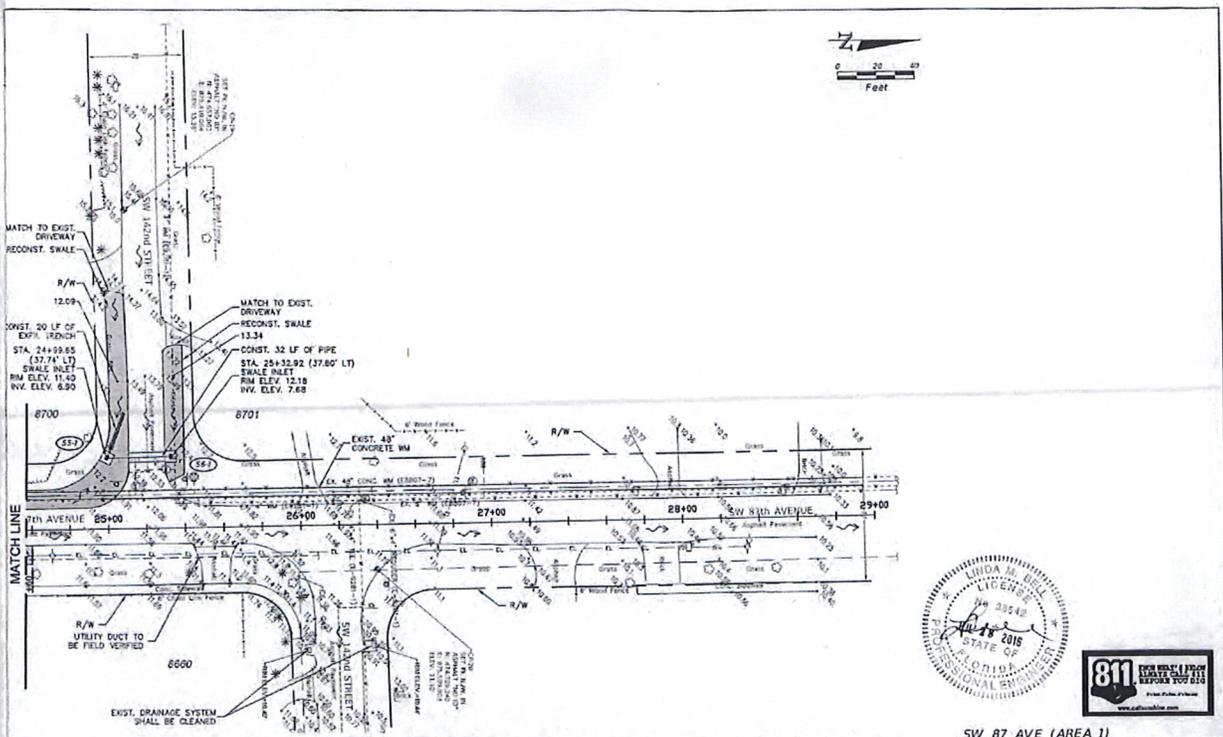
RECONSTRUCT DRIVEWAY

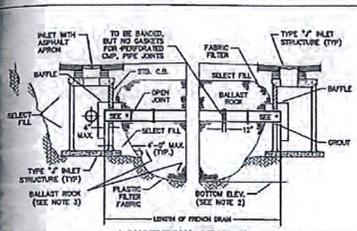
1. SAWCUT NEAR STRAIGHT LINES PRIOR TO EXCAVATING.
2. CONVEY DRAINAGE.
3. BACKFILL WITH CLEAN SUITABLE FILL COMPACT TO A MIN OF 95% OF MAX DENSITY.
4. PLACE 6" OF UNDERCOAT (UBR-100).
5. PLACE TACK COAT.
6. PLACE 1" OF 5-8 ASPHALT.

- LEGEND:**
- SEWER MANHOLE
 - STORM MANHOLE
 - UNKNOWN MANHOLE
 - WATER VALVE
 - WATER METER
 - CONTROL POINT
 - CATCH BASIN
 - FIRE HYDRANT
 - POWER POLE (CONCRETE)
 - BOX
 - WIND PULL BOX
 - SERVICE CABINET
 - GUARD POST
 - TREE
 - TREE PALM
 - ORNAMENTAL PLANT
 - RAY ANCHOR
 - LIGHT POLE
 - MAIL BOX
 - SPOT ELEVATION
 - MATERIAL SIGN
 - ELECTRIC GALET
 - FLOOD LIGHT
 - SWALE
 - FENCE TEST
- LINES TYPE:**
- OVERHEAD UTILITY LINE
 - FENCE
 - RIGHT OF WAY LINE
 - PAVEMENT MARKS
 - VEGETATION LINE



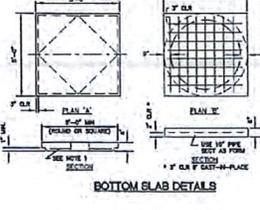
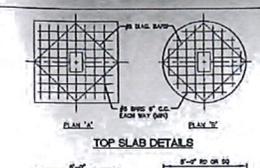
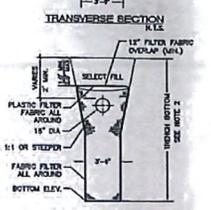
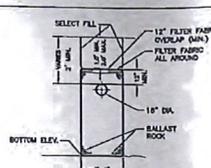
DATE: 08/20/2015		DRAWN BY: J.P.		CHECKED BY: J.P.		APPROVED BY: J.P.		PROJECT: SW 87 AVE (AREA 1)		SHEET: 1 OF 1	
PUBLIC WORKS FOR THE RECORD ONLY THIS PLAN IS NOT TO BE USED FOR CONSTRUCTION WITHOUT THE APPROVAL OF THE CITY ENGINEER.				CWI Civil Works, Inc. 1100 N. W. 11th St., Suite 101 Fort Lauderdale, FL 33304		UNION BELL		DRAINAGE PLAN		C-3	



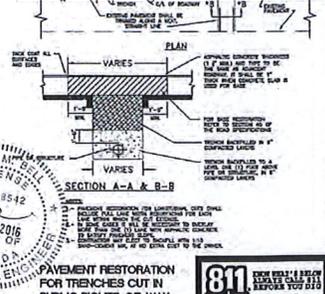
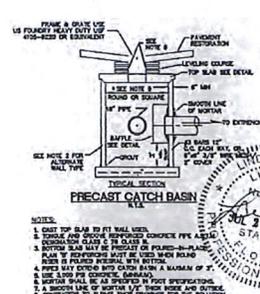
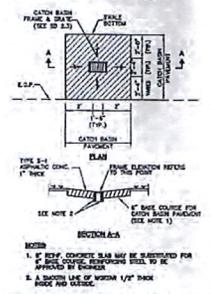
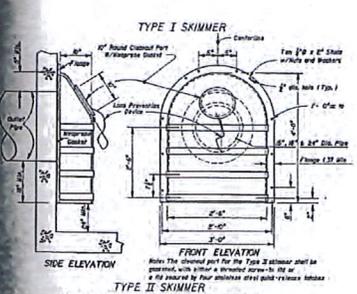


LONGITUDINAL SECTION

NOTES:
 1. PLASTIC FILTER FABRIC (AT EA. SIDE, TOP, AND BOTTOM) SHALL BE USED AS NOTED ON PLANS AND/OR AS DIRECTED BY THE ENGINEER.
 2. THE BOTTOM OF THE EXFILTRATION TROUGH SHALL BE 1/2\"/>



NOTES:
 1. ALL DIMENSIONS OF SLABS SHALL COMPLY WITH THE MANUFACTURER'S SPECIFICATIONS FOR STRENGTH, DURABILITY AND PERFORMANCE FOR STREET AND HIGHWAY USE. THE CONTRACTOR SHALL VERIFY THE QUALITY OF ALL MATERIALS AND WORKMANSHIP BEFORE PROCEEDING WITH CONSTRUCTION.
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF ALL UTILITIES AND UNDERGROUND STRUCTURES FROM THE EFFECTS OF CONSTRUCTION.
 3. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING CURBS AND SIDEWALKS IN PLACE AND IN GOOD REPAIR THROUGHOUT THE CONSTRUCTION PERIOD.
 4. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRIVEWAYS AND SIDEWALKS IN PLACE AND IN GOOD REPAIR THROUGHOUT THE CONSTRUCTION PERIOD.
 5. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRIVEWAYS AND SIDEWALKS IN PLACE AND IN GOOD REPAIR THROUGHOUT THE CONSTRUCTION PERIOD.
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 10. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRIVEWAYS AND SIDEWALKS IN PLACE AND IN GOOD REPAIR THROUGHOUT THE CONSTRUCTION PERIOD.



NO.	DESCRIPTION	DATE	BY	REVISIONS	DATE	BY	REVISIONS
1	ISSUED FOR PERMITS	08/28/2016	LD				
2	ISSUED FOR CONSTRUCTION	08/28/2016	LD				

PUBLIC WORKS **Civil Works, Inc.**
 801 N. W. 17th, Suite 100, Fort Lauderdale, FL 33311
 (954) 571-1111

SW 87 AVE (AREA 1)
DRAINAGE DETAILS



GENERAL NOTES

1. ALL ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM (NGVD) 1929.
2. ALL DRAINAGE CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE VILLAGE OF PALMETTO BAY, MIAMI-DADE COUNTY REGULATORY AND ECONOMIC RESOURCES (REER) (O.L.E.R.M.), THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT (MOPW), AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT).
3. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
4. CATCH BASINS, EXFILTRATION TRENCHES, PAVEMENT RESTORATION AND PAVEMENT AROUND CATCH BASINS, AND SWALE TO BE ACCORDING TO THE DETAILS, MOPW, AND APPLICABLE REQUIREMENTS OF THE VILLAGE OF PALMETTO BAY.
5. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT SAWCUT STRAIGHT LINE AND FLUSH WITH EXISTING PAVEMENT. NO ASPHALT "FEATHERING" SHALL BE ALLOWED.
6. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES, AND UTILITIES WHICH MAY NOT BE SHOWN ON PLANS. ANY EXISTING STRUCTURE, PAVEMENT, TREES OR OTHER EXISTING APPURTENANCES NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARILY DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THIS CONTRACT, SHALL BE REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
7. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES. PRIOR TO CONSTRUCTING THE PROPOSED IMPROVEMENTS, ALL CONDUITS MUST BE RECOVERED AND THE FIELD REPRESENTATIVE OF THE OWNER, THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
8. CONTRACTOR SHALL CONTACT THE SUNSHINE CO. AT 1 (800) 432-4770 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES. THE CONTRACTOR OR CONTRACTOR'S REPRESENTATIVE WILL BE PRESENT DURING ALL UTILITY LOCATES.
9. ALL TREES ARE TO REMAIN AND SHALL BE PROTECTED IN PLACE. ANY TREE TRIMMING SHALL BE DISCUSSED WITH THE OWNER AND SHALL BE CONDUCTED BY A CERTIFIED ARBORIST, AND INCLUDED IN COST OF PIPE.
10. EXISTING GRADES WERE TAKEN FROM THE BEST AVAILABLE DATA AND MAY NOT ACCURATELY REFLECT PRESENT CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH CURRENT SITE CONDITIONS, AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING WORK.
11. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL ITEMS LISTED IN THE PROJECT SPECIFICATIONS, FOR APPROVAL BY THE VILLAGE/ENGINEER PRIOR TO ORDERING/ FABRICATING SAID ITEMS.
12. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR LEAVE EXCAVATED TRENCHES, OR PARTS OF, EXPOSED OR OPEN AT THE END OF THE WORKING DAY, WEEKENDS, HOLIDAYS OR OTHER TIMES, WHEN THE CONTRACTOR IS NOT WORKING, UNLESS OTHERWISE APPROVED BY THE OWNER. ANY TRENCH SHALL BE COVERED, FIRMLY SECURED AND MARKED ACCORDINGLY TO ALLOW SAFE PEDESTRIAN TRAFFIC. ALL COSTS ASSOCIATED WITH THIS ITEM ARE INCIDENTAL TO THE CONTRACT.
13. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
14. ALL EXCAVATED MATERIAL REMOVED FROM THIS PROJECT SHALL BE DISPOSED OF LEGALLY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. THIS COST SHALL BE INCIDENTAL TO CONSTRUCT AND AT NO ADDITIONAL COST TO THE OWNER.
15. CAST IRON PRODUCTS: HEAVY DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC LOADS, OR 16,000 LB. WHEEL LOADS.
16. STEEL GRATING AND MANHOLE COVERS: TRAFFIC CLASSIFICATION H-20 AASHTO H20.
17. ALL STRUCTURES AND COVERS MUST BE CAPABLE OF SUSTAINING HEAVY TRAFFIC LOADS.
18. ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RESTORED AND RE-SOODED WITH ST. AUGUSTINE GRASS AT NO ADDITIONAL COST TO THE OWNER.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH THE MUTCD (LATEST EDITION) AND FOOT INDEX 600. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR THE RESETING OF ALL TRAFFIC CONTROL AND INFORMATION SIGNS REMOVED DURING CONSTRUCTION PERIOD. THE COST SHALL BE INCLUDED IN THE COST FOR MAINTENANCE OF TRAFFIC.
20. EXCAVATED OR OTHER MATERIAL TEMPORARILY STORED ADJACENT TO OR PARTIALLY UPON A ROADWAY PAVEMENT SHALL BE ADEQUATELY MARKED FOR TRAFFIC SAFETY AT ALL TIMES.
21. TEMPORARY ASPHALT PATCH MATERIAL MUST BE ON THE JOB SITE WHENEVER PAVEMENT IS OUT, OR THE INSPECTOR WILL SHUT THE JOB DOWN.
22. CONTRACTOR SHALL MAINTAIN TRAFFIC ACCORDING TO CORRESPONDING TYPICAL CONTROL DETAIL AS OUTLINED IN THE MOPW MANUAL, OR PER THE PERTINENT TYPICAL APPLICATION IN THE MUTCD (LATEST EDITION).
23. CONTRACTOR SHALL MAINTAIN AT LEAST THE FOLLOWING NUMBER OF TRAFFIC LANES FOR CORRESPONDING TIME PERIODS: MONDAY-FRIDAY 7-9 A.M. AND 4-6 P.M.: MAINTAIN ONE LANE FOR TWO-WAY OPERATION WITH FLAGMEN.
24. CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT AND FIRE PROTECTION SERVICES TWENTY-FOUR (24) HOURS IN ADVANCE OF ANY DETOUR IN ACCORDANCE WITH FLORIDA STATUTES.
25. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO MAINTAIN ALL UTILITIES IN OPERATION AT ALL TIMES. THE COST ASSOCIATED WITH MAINTENANCE OF UTILITIES INCLUDING SHOWING, SUPPORTING, SHEET PILING OR ANY OTHER FORM OF SUPPORT REQUIRED TO KEEP UTILITIES IN OPERATION SHALL BE INCLUDED IN THE COST OF THE PIPE.
26. CONTRACTOR TO EXCAVATE FOR STRUCTURES OR PIPE TRENCH AS SHOWN IN THE PLANS AND DETAILS. ALL UNSUITABLE MATERIAL EXCAVATED SHALL BE DISPOSED LEGALLY AND AT A LOCATION SUPPLIED BY THE CONTRACTOR. ALL UNSUITABLE MATERIAL BENEATH PROPOSED STRUCTURES OR PIPES SHALL BE REMOVED AND BACKFILLED WITH CLEAN SUITABLE SOIL, APPROVED BY ENGINEER, TO THE PROPER ELEVATION.
27. SWPPP - PRIOR TO CONSTRUCTION, CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL DEVICES PER FDOT 2010, INDEX 102.
28. EXISTING DRAINAGE IS TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO USE BEST MANAGEMENT PRACTICES IN MAINTAINING ALL EXISTING DRAINAGE CLEAN AND FREE FROM SOIL, EROSION, MILLINGS, AND ANY CONSTRUCTION DEBRIS.

DRAINAGE NOTES

1. WHEN PROPOSED DRAINAGE STRUCTURES ARE TO BE CONNECTED TO EXISTING DRAINAGE PIPE, CONTRACTOR SHALL PROVIDE 5 LF OF PROPOSED PIPE MATCHING THE SIZE OF THE EXISTING PIPE. THE PIPES SHALL BE CONNECTED WITH A CONCRETE COLLAR PER FDOT INDEX 280.
2. COST OF ASPH. APRON TO BE INCLUDED IN THE COST OF THE CATCH BASINS.
3. PROVIDE AND INSTALL A BAFFLE IN FRONT OF PIPING THAT CONNECT DIRECTLY TO EXFILTRATION TRENCHES. (STRUCTURES S1-2, AND S2-2, 2 TOTAL). SEE DETAIL. COST TO BE INCLUDED IN THE COST OF THE STRUCTURE.



SW 80 AVE (AREA 2)

DATE	REVISION	BY	FOR	DATE	BY	FOR

PUBLIC WORKS
 800 345 0000
 1000 N.W. 11th St., Suite 100
 Ft. Lauderdale, FL 33304
 www.civilworks.com

CWI Civil Works, Inc.
 800 345 0000
 1000 N.W. 11th St., Suite 100
 Ft. Lauderdale, FL 33304
 www.civilworks.com

GENERAL NOTES

PAVEMENT RESTORATION

- 1. 2" ASPHALT
- 2. 4" LIME ROCK BASE COMPACTED (LBR-100)
- 3. 12" GRANITE COMPACTED (LBR-45)

RECONSTRUCT DRIVEWAY

- 1. SAWCUT NEAR STRAIGHT LINES PRIOR TO EXCAVATION.
- 2. CONST. DRAINAGE.
- 3. BACKFILL WITH CLEAN SUITABLE FILL, COMPACT TO A MIN OF 95% OF MAX DENSITY.
- 4. PLACE 6" OF LIME ROCK BASE COMPACTED (LBR-100).
- 5. PLACE TACK COAT.
- 6. PLACE 1" OF 5-8 ASPHALT.

RECONSTRUCT SIDEWALK

- 1. SAWCUT NEAREST JOINT.
- 2. CONST. DRAINAGE.
- 3. BACKFILL PER MANI-O-RACK COUNTY SPECIFICATIONS SPEC.
- 4. PLACE SIX (6) INCHES OF CLEAN SUITABLE FILL COMPACTED TO A MIN OF 95% MAX DENSITY.
- 5. CONST. 5 FT. WIDE CONC. SIDEWALK PER MANI-O-RACK COUNTY STANDARDS AND SPEC.

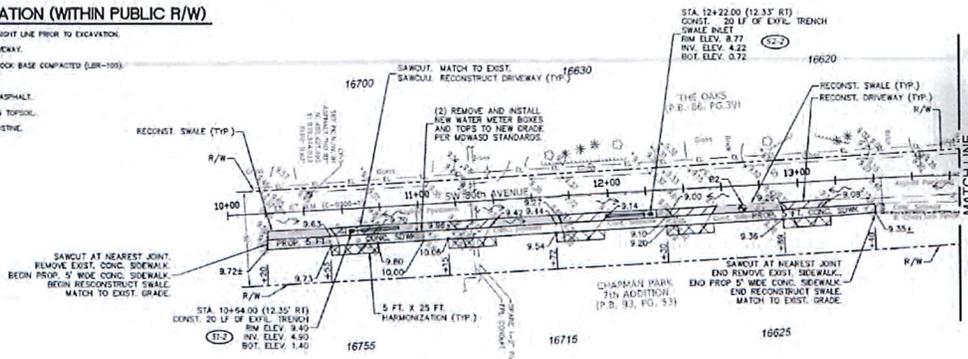


LEGEND:

- SEWER MANHOLE
- STORM MANHOLE
- UNKNOWN MANHOLE
- WATER VALVE
- WATER METER
- CONTROL POINT
- CATCH BASIN
- FIRE HYDRANT
- POWER POLE/CONCRETE
- SOIL
- MINING FULL BOX
- SERVICE CABINET
- GUARD POST
- TREE
- TREE PALM
- ORNAMENTAL PLANT
- GUY ANCHOR
- LIGHT POLE
- MAIL BOX
- SPOT ELEVATION
- MULTICOLORED SIGN
- ELECTRIC OUTLET
- FLOOD LIGHT
- SWALE
- DRIVEWAY RECONSTRUCTION
- HARMONIZATION (WITHIN PUBLIC R/W)
- FLOW DIRECTION
- PERCOLATION TEST LOCATION

HARMONIZATION (WITHIN PUBLIC R/W)

- 1. SAWCUT NEAR STRAIGHT LINE PRIOR TO EXCAVATION.
- 2. REMOVE EXIST. DRIVEWAY.
- 3. PLACE 6" OF LIME ROCK BASE COMPACTED (LBR-100).
- 4. PLACE TACK COAT.
- 5. PLACE 1" OF 5-8 ASPHALT.
- 6. PLACE 1" OF CLEAN TOPSOIL.
- 7. 500 W/TH ST. AUGUSTINE.



RECONST. SWALE TYPICAL SECTION

EXCAVATE SWALE, PLACE FOUR (4) INCHES OF CLEAN SOIL AND 500 W/TH ST. AUGUSTINE. SAMPLE OF SOIL TO BE PROVIDED FOR APPROVAL.



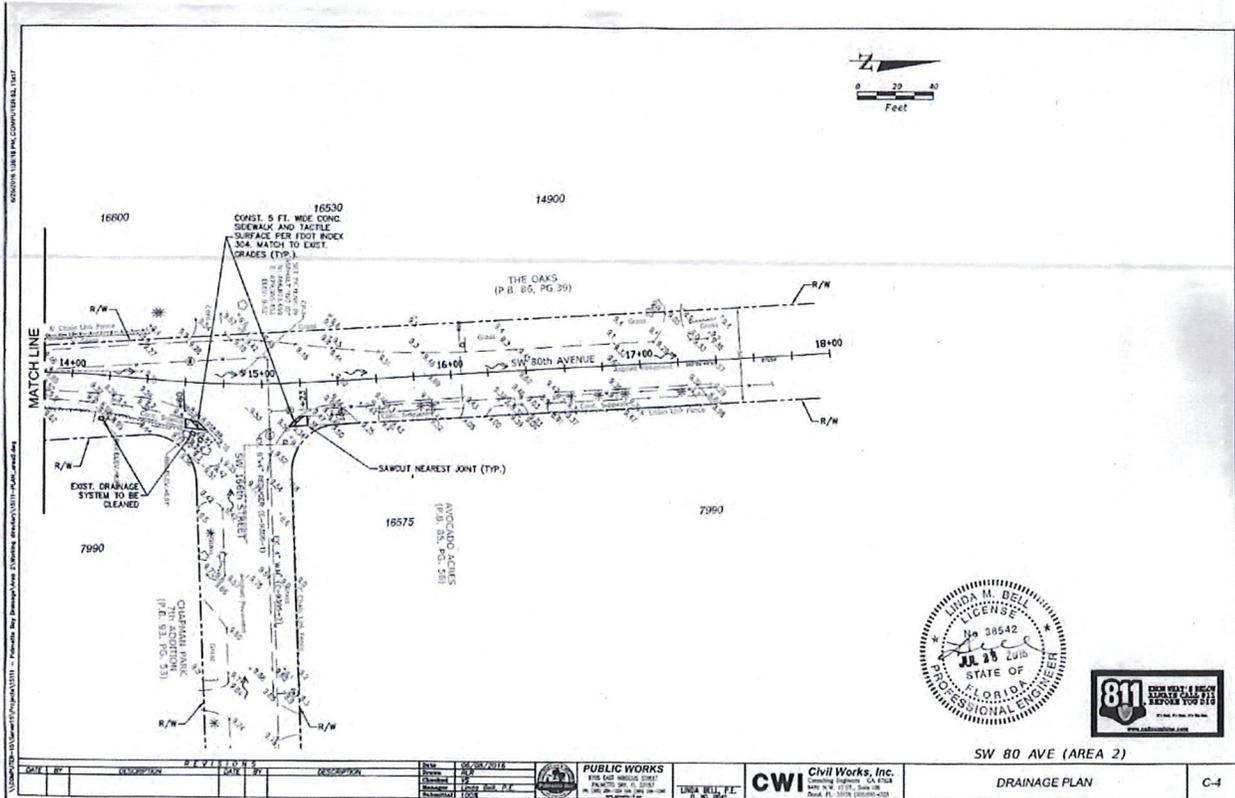
SW 80 AVE (AREA 2)

DATE	DESCRIPTION	BY	DATE	REVISION

Civil Works, Inc.
 Consulting Engineers, CA #1728
 1401 N.W. 27TH, Suite 108
 Fort Lauderdale, FL 33309-4411

DRAINAGE PLAN

C-3



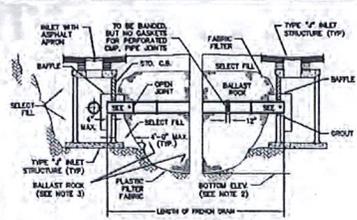
SW 80 AVE (AREA 2)

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PUBLIC WORKS
 PLAN NO. 2018-0011
 DATE: 07/27/2018
 PROJECT: SW 80 AVE, P.E.

CWI Civil Works, Inc.
 Consulting Engineers, P.A.
 1000 N.W. 11th Street, Suite 100
 Fort Lauderdale, FL 33304-4000
 Phone: 954.578.1100
 Fax: 954.578.1101
 Email: info@cwi.com

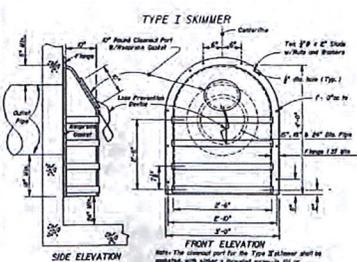
DRAINAGE PLAN



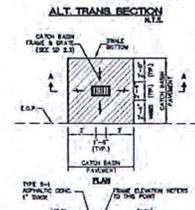
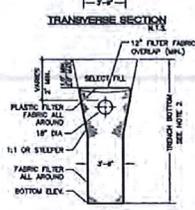
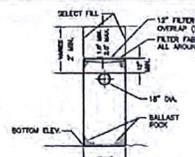
NOTES:

1. PLASTIC FILTER FABRIC (AT EA. SIDE, TOP, AND BOTTOM) SHALL BE USED AS NOTED ON PLANS AND/OR AS SPECIFIED BY THE ENGINEER.
2. THE BOTTOM OF THE EXFILTRATION TRENCH SHALL BE 18.00' BELOW EXIST. GROUND ELEVATION, UNLESS FIELD CONDITIONS DEMAND OTHERWISE.
3. IF THE BALLAST ROCK HAS BEEN PLACED TO THE PROPER ELEVATION, IT SHALL BE CAREFULLY RASPED DOWN WITH CLEAN WATER IN ORDER TO ALLOW FOR INITIAL SETTLEMENT THAT MAY OCCUR. IF IT DOES TAKE PLACE, ADDITIONAL BALLAST ROCK WILL BE ADDED TO RESTORE THE BALLAST ROCK TO THE PROPER ELEVATION SO THAT THE EXFILTRATION TRENCH CAN BE COMPLETED IN ACCORDANCE WITH THE DETAILS.
4. INVERT ELEVATION TO BE AS SHOWN IN PLAN.
5. NO SLEETS OR PERFORATIONS ON THIS LENGTH OF PIPE.

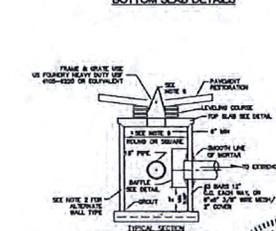
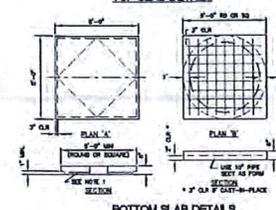
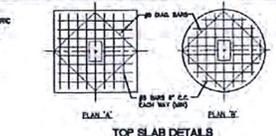
EXFILTRATION DETAIL, OADPW SD 10
K.L.S.



TYPE II SKIMMER
SKIMMER DETAILS PER FOOT INDEX 241
K.L.S.

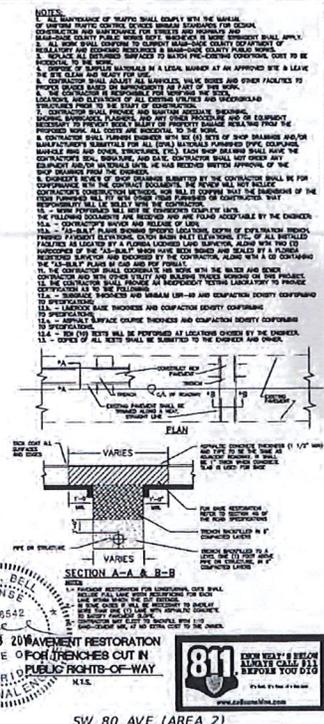


CATCH BASIN ASPHALT APRON DETAIL
K.L.S.



NOTES:

1. CURB FOR SLAB SHALL BE 18\"/>
- 2. CURB AND SLOPE REINFORCED CONCRETE PIPE SHALL BE 18\"/>
- 3. BOTTOM SLAB SHALL BE PRECAST OR FORMED-IN-PLACE. FORMS FOR REINFORCED CONCRETE SHALL BE USED WITH FORMS 1\"/>
- 4. REINFORCING SHALL BE USED WITH FORMS 1\"/>
- 5. ALL REINFORCING SHALL BE PLACED IN ACCORDANCE WITH THE DETAILS.
- 6. CONTRACTOR TO VERIFY SLOPE DRAINAGE FOR THE FOLLOWING:
 - 1. A SMOOTH LINE OF SLOPE 1/4\"/>
 - 2. SLOPE SHALL BE AS SPECIFIED IN PIPE SPECIFICATIONS.
 - 3. CONTRACTOR TO VERIFY SLOPE DRAINAGE FOR THE FOLLOWING:
 - 1. A SMOOTH LINE OF SLOPE 1/4\"/>
 - 2. SLOPE SHALL BE AS SPECIFIED IN PIPE SPECIFICATIONS.
- 7. TYPE P OR J SLOPE SHALL BE USED FOR SLOPE TO 2.5% FOR DISTANCES UP TO 100 FEET. SEE SHALL BE 24\"/>
- 8. FOR DISTANCES UP TO 100 FEET, SEE SHALL BE 24\"/>



SECTION A-A, B-B
K.L.S.

DATE	DESCRIPTION	SCALE	BY	CHECKED	DATE	PROJECT	NO.	DATE	BY	DATE	BY

PUBLIC WORKS
LINDA M. BELL
L.S. 36542
JUL 28 2016
RENOVATION RESTORATION
STATE OF FLORIDA
FOR THE RIGHTS CUT IN
PUBLIC RIGHTS-OF-WAY
K.L.S.

Civil Works, Inc.
Consulting Engineers
1801 N.W. 17TH AVE., SUITE 100
DADE COUNTY, FL 33128 (305) 437-1111

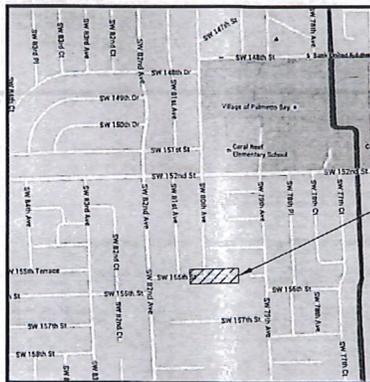
811
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www.811.com

DRAINAGE DETAILS C-5

VILLAGE OF PALMETTO BAY SW 155 ST (AREA 3) DRAINAGE IMPROVEMENTS

LIST OF SHEETS:

SHT. No.	DESCRIPTION
C-1	COVER SHEET
C-2	GENERAL NOTES
C-3-4	DRAINAGE PLAN
C-5	DRAINAGE DETAILS



LOCATION SKETCH



PREPARED FOR:
VILLAGE OF PALMETTO BAY-PUBLIC WORKS DEPT.
9765 EAST NEIBOUS STREET
PALMETTO BAY, FL 33157
PH: (954) 558-1234
FAX: (954) 558-1250
www.palmetto-bay.gov

ENGINEER OF RECORD: LINDA BELL, P.E.
P.E. #38542

PREPARED BY:
CWI Civil Works, Inc.
CONSULTING ENGINEERS
8491 N.W. 17 ST., Suite 108
DORAL, FL 33126
(305) 591-4313
CA 07133
Miami • Coral Springs • Orlando

DERM
PLAN REVIEW
PROJECT LOCATION FINAL
APPROVAL
THOMAS J. HARTMAN
DERM PLAN MANAGER
DATE: 10-31-2016

6/29/16 PERMIT SET



GENERAL NOTES

1. ALL ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM (NGVD) 1929.
2. ALL DRAINAGE CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE VILLAGE OF PALMETTO BAY, MIAMI-DADE COUNTY REGULATORY AND ECONOMIC RESOURCES (RR) (D.C.R.W.), THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT (MOPW), AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT).
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10. EXISTING GRADES WERE TAKEN FROM THE BEST AVAILABLE DATA AND MAY NOT ACCURATELY REFLECT PRESENT CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH CURRENT SITE CONDITIONS, AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING WORK.
11. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL ITEMS LISTED IN THE PROJECT SPECIFICATIONS, FOR APPROVAL BY THE VILLAGE/ENGINEER PRIOR TO ORDERING/FABRICATING SAID ITEMS.
12. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR LEAVE EXCAVATED TRENCHES, OR PARTS OF, EXPOSED OR OPEN AT THE END OF THE WORKING DAY, WEEKENDS, HOLIDAYS OR OTHER TIMES. WHEN THE CONTRACTOR IS NOT WORKING, UNLESS OTHERWISE APPROVED BY THE OWNER, ANY TRENCH SHALL BE COVERED, FIRMLY SECURED AND MARKED ACCORDINGLY TO ALLOW SAFE PEDESTRIAN TRAFFIC. ALL COSTS ASSOCIATED WITH THIS ITEM ARE INCIDENTAL TO THE CONTRACT.
13. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
14. ALL EXCAVATED MATERIAL REMOVED FROM THIS PROJECT SHALL BE DISPOSED LEGALLY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. THIS COST SHALL BE INCIDENTAL TO CONSTRUCT AND AT NO ADDITIONAL COST TO THE OWNER.
15. CAST IRON PRODUCTS: HEAVY DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC LOADS, OR 16,000 LB. WHEEL LOADS.
16. STEEL GRATING AND MANHOLE COVERS: TRAFFIC CLASSIFICATION H-20 ASHTO H20.
17. ALL STRUCTURES AND COVERS MUST BE CAPABLE OF SUSTAINING HEAVY TRAFFIC LOADS.
18. ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RESTORED AND RE-SOODED WITH ST. AUGUSTINE GRASS AT NO ADDITIONAL COST TO THE OWNER.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH THE MUTCD (LATEST EDITION) AND FDOT INDEX 600. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR THE RESETTLE OF ALL TRAFFIC CONTROL AND INFORMATION SIGNING REMOVED DURING CONSTRUCTION PERIOD. THE COST SHALL BE INCLUDED IN THE COST FOR MAINTENANCE OF TRAFFIC.
20. EXCAVATED OR OTHER MATERIAL TEMPORARILY STORED ADJACENT TO OR PARTIALLY UPON A ROADWAY PAVEMENT SHALL BE ADEQUATELY MARKED FOR TRAFFIC SAFETY AT ALL TIMES.
21. TEMPORARY ASPHALT PATCH MATERIAL MUST BE ON THE JOB SITE WHENEVER PAVEMENT IS CUT, OR THE INSPECTOR WILL SHUT THE JOB DOWN.
22. CONTRACTOR SHALL MAINTAIN TRAFFIC ACCORDING TO CORRESPONDING TYPICAL CONTROL DETAIL AS OUTLINED IN THE MOPW MANUAL, OR PER THE PERTINENT TYPICAL APPLICATION IN THE MUTCD (LATEST EDITION).
23. CONTRACTOR SHALL MAINTAIN AT LEAST THE FOLLOWING NUMBER OF TRAFFIC LANES FOR CORRESPONDING TIME PERIODS: MONDAY-FRIDAY 7-9 A.M. AND 4-8 P.M. MAINTAIN ONE LANE FOR TWO-WAY OPERATION WITH FLAGMEN.
24. CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT AND FIRE PROTECTION SERVICES TWENTY-FOUR (24) HOURS IN ADVANCE OF ANY DETOUR IN ACCORDANCE WITH FLORIDA STATUTES.
25. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO MAINTAIN ALL UTILITIES IN OPERATION AT ALL TIMES. THE COST ASSOCIATED WITH MAINTENANCE OF UTILITIES INCLUDING SHORING, SUPPORTING, SHEET PILING OR ANY OTHER FORM OF SUPPORT REQUIRED TO KEEP UTILITIES IN OPERATION SHALL BE INCLUDED IN THE COST OF THE PIPE.
26. CONTRACTOR TO EXCAVATE FOR STRUCTURES OR PIPE TRENCH AS SHOWN IN THE PLANS AND DETAILS. ALL UNSUITABLE MATERIAL EXCAVATED SHALL BE DISPOSED LEGALLY AND AT A LOCATION SUPPLIED BY THE CONTRACTOR. ALL UNSUITABLE MATERIAL BENEATH PROPOSED STRUCTURES OR PIPES SHALL BE REMOVED AND BACKFILLED WITH CLEAN SUITABLE SOIL, APPROVED BY ENGINEER, TO THE PROPER ELEVATION.
27. SWPPP - PRIOR TO CONSTRUCTION, CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL DEVICES PER FDOT 2010, INDEX 102.
28. EXISTING DRAINAGE IS TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO USE BEST MANAGEMENT PRACTICES IN MAINTAINING ALL EXISTING DRAINAGE CLEAN AND FREE FROM SOIL EROSION, MILLINGS, AND ANY CONSTRUCTION DEBRIS.

DRAINAGE NOTES

1. WHEN PROPOSED DRAINAGE STRUCTURES ARE TO BE CONNECTED TO EXISTING DRAINAGE PIPE, CONTRACTOR SHALL PROVIDE 5 LF OF PROPOSED PIPE MATCHING THE SIZE OF THE EXISTING PIPE. THE PIPES SHALL BE CONNECTED WITH A CONCRETE COLLAR PER FDOT INDEX 250.
2. COST OF ASPH. APRON TO BE INCLUDED IN THE COST OF THE CATCH BASINS.
3. PROVIDE AND INSTALL A Baffle IN FRONT OF PIPING THAT CONNECT DIRECTLY TO EXFILTRATION TRENCHES. (STRUCTURE 31-3, 1 TOTAL). SEE DETAIL. COST TO BE INCLUDED IN THE COST OF THE STRUCTURE.



SW 155 ST (AREA 3)

DATE	DESCRIPTION	BY	REVISION	DATE	DESCRIPTION



PUBLIC WORKS
 1100 SW 155 ST, SUITE 100
 PALMETTO BAY, FL 33157
 (305) 988-2200

2/15/11
 LARGE LETTER
 11x17

CWI Civil Works, Inc.
 Lantana, Florida 33462
 888.946.2722, Suite 108
 (407) 882.0000 ext 100

GENERAL NOTES

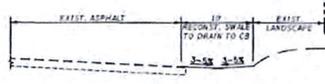
C-2

LEGEND:

- SEWER MANHOLE
- STORM MANHOLE
- UNKNOWN MANHOLE
- WATER VALVE
- WATER METER
- CONTROL POINT
- CATCH BASIN
- FIRE HYDRANT
- POWER POLE(CONCRETE)
- SIGN
- WIRING PULL BOX
- SERVICE CABINET
- GUARD POST
- TREE
- TREE PALM
- ORNAMENTAL PLANT
- OUT ANCHOR
- LIGHT POLE
- MAIL BOX
- SPOT ELEVATION
- MAXIMUM SIGN
- ELECTRIC GALET
- FLOOD LIGHT
- SWALE
- FLOW DIRECTION
- PERCOLATION TEST LOCATION

LINES TYPE:

- OVERHEAD UTILITY LINE
- FENCE
- RIGHT OF WAY LINE
- PAVEMENT MARKS
- VEGETATION LINE
- EXISTING WATERMAIN



RECONSTRUCT SWALE TYPICAL SECTION

EXCAVATE SWALE, PLACE FOUR (4) INCHES OF CLEAN SOIL AND SOO WITH ST. AUGUSTINE SAMPLE OF SOIL TO BE PROVIDED FOR APPROVAL.

NO.	DATE	DESCRIPTION	BY	CHECKED BY
1	07/28/2015	ISSUED FOR PERMITS
2	08/04/2015	REVISED PER PERMITS
3	08/04/2015	REVISED PER PERMITS

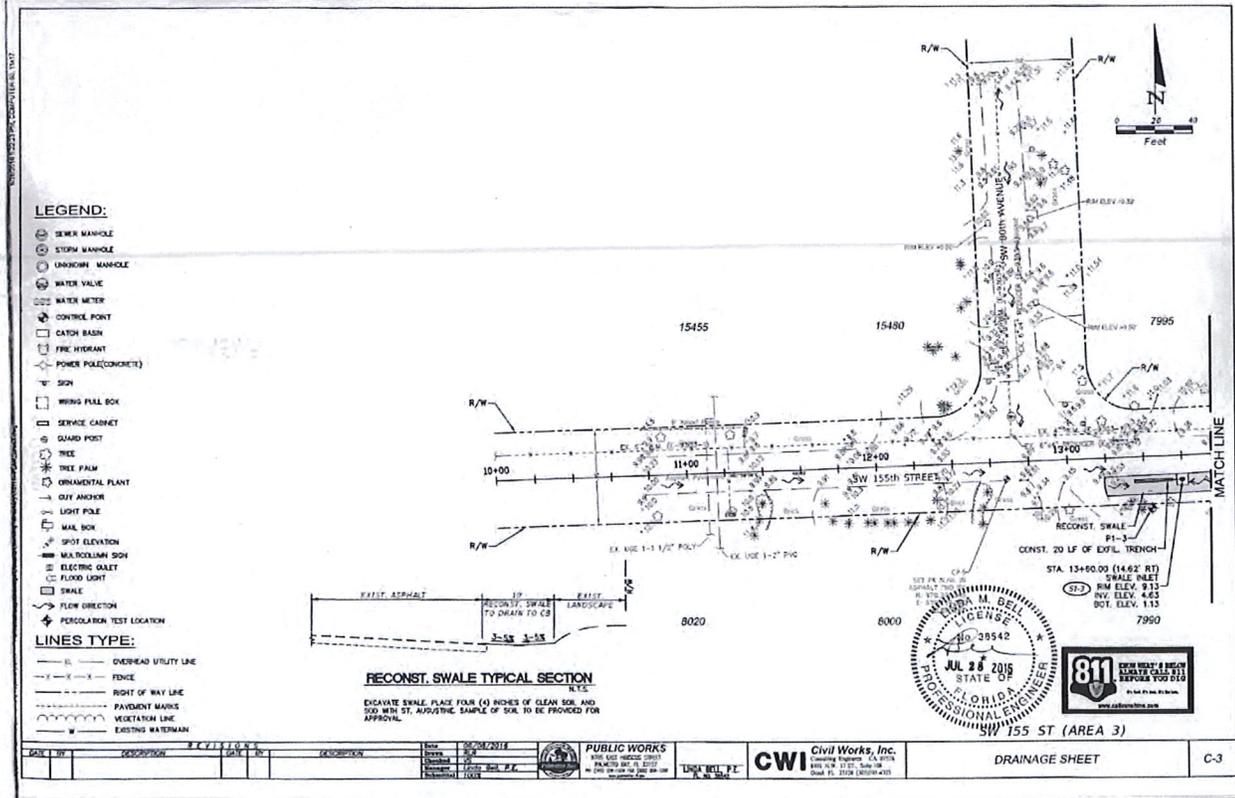
DATE: 07/28/2015
 TIME: 10:00 AM
 PROJECT: SW 155th STREET
 SHEET: 3 OF 3

PUBLIC WORKS
 CIVIL WORKS, INC.
 8000 WEST WINDYBROOK DRIVE
 PALM BEACH, FL 33410
 PHONE: 561-833-1200
 FAX: 561-833-1201
 WWW.CIVILWORKS.COM

CWI Civil Works, Inc.
 Creating Engineers, P.L.L.C.
 8000 WEST WINDYBROOK DRIVE
 PALM BEACH, FL 33410
 PHONE: 561-833-1200
 FAX: 561-833-1201
 WWW.CIVILWORKS.COM

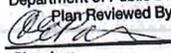


SW 155 ST (AREA 3)
 DRAINAGE SHEET
 C-3



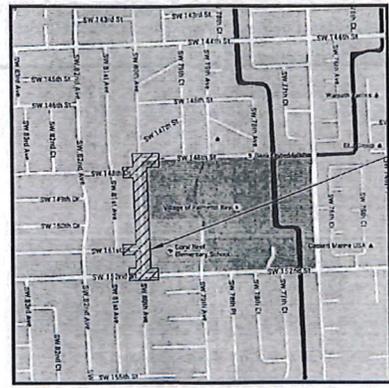
VILLAGE OF PALMETTO BAY SW 80 AVE (AREA 4) DRAINAGE IMPROVEMENTS


 ID: 2016-DTM-MISC-00067
 Contact Name: RAMON ALVAREZ
 Contact Phone: 3055058477
 Folio: 33-5022-008-0150
 Ass. Name: PAVING & DRAINAGE REVIEW
 Date: 08/02/2016
 Reviewer:

Village of Palmetto Bay
 Department of Public Services
 Plan Reviewed By: 
 Signature _____ Date _____

LIST OF SHEETS:

SHT. No.	DESCRIPTION
C-1	COVER SHEET
C-2	GENERAL NOTES
C-3-6	DRAINAGE PLAN
C-7	DRAINAGE DETAILS



LOCATION SKETCH

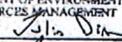


PREPARED FOR:
 VILLAGE OF PALMETTO BAY PUBLIC WORKS DEPT.
 9700 EAST HIBISCUS STREET
 PALMETTO BAY, FL 33157
 Ph: (305)298-1234
 Fax: (305)298-1200
 www.palmetto-bay.gov

ENGINEER OF RECORD: LINDA BELL, P.E.
 P.E. #33842

PROJECT LOCATION

DERM
PLAN REVIEW
FINAL
APPROVAL

DEPARTMENT OF ENVIRONMENTAL
 RESOURCES MANAGEMENT
 CORE REVIEWER (PRINT) 
 SIGNATURE _____ DATE 8/10/16

6/8/16 90% PROGRESS SET

PREPARED BY:
CWI Civil Works, Inc.
 CONSULTING ENGINEERS
 8495 N.W. 17th St., Suite 100
 CORAL GABLES, FL 33126
 (305) 551-4333
 CA 07528
 Miami • Coral Springs • Orlando



PAVEMENT RESTORATION

1. 2" ASPHALT
- 8" LIMEKOK BASE (LBR-100)
- 12" COMPACTED SUBGRADE (LBR-40)

RECONSTRUCT DRIVEWAY

1. SAWCUT NEAR STRAIGHT LINES PRIOR TO EXCAVATING.
2. CONDT. DRAINAGE.
3. BACKFILL WITH CLEAN SUITABLE FILL. COMPACT TO A MIN OF 93% OF MAX DENSITY.
4. PLACE 8" OF LIMEKOK (LBR-100).
5. PLACE TACK COAT.
6. PLACE 1" OF 5-B ASPHALT.

RECONSTRUCT SIDEWALK

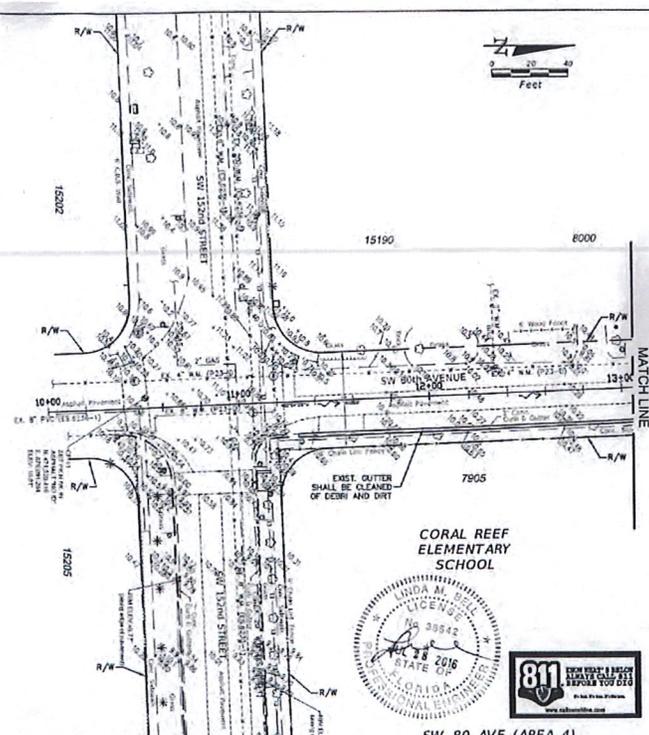
1. SAWCUT NEAREST JOINT.
2. CONDT. DRAINAGE.
3. BACKFILL FOR MAIM-D&C SPEC.
4. PLACE SIX (6) INCHES OF CLOTH SUITABLE FILL COMPACTED TO A MIN OF 93% MAX DENSITY.
5. CONDT. CONC. SIDEWALK PER MAIM-D&C COUNTY STANDARDS AND SPEC.

LEGEND:

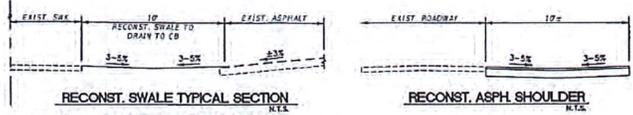
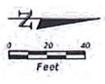
- SEWER MANHOLE
- STORM MANHOLE
- UNKNOWN MANHOLE
- WATER VALVE
- WATER METER
- CONTROL POINT
- CATCH BASIN
- FIRE HYDRANT
- POWER POLE (CONCRETE)
- "T" SIGN
- WINDY PULL BOX
- SERVICE CABINET
- GUARD POST
- TREE
- TREE PALM
- ORNAMENTAL PLANT
- GUY ANCHOR
- LIGHT POLE
- MAIL BOX
- SPOT ELEVATION
- MULTICOLUMN SIGN
- ELECTRIC OUTLET
- FLOOD LIGHT
- SHALE
- PERCOLATION TEST LOCATION

LINES TYPE:

- O — OVERHEAD UTILITY LINE
- X — X — FENCE

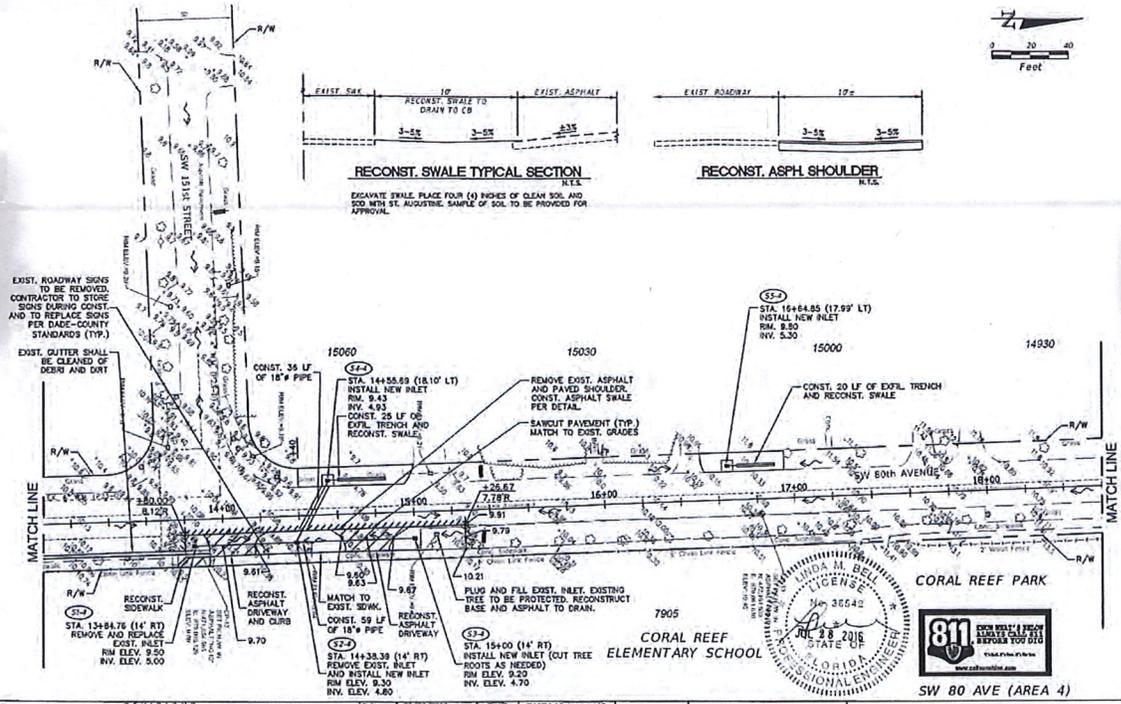


DATE BY: _____		DESIGNER: _____		CHECKED BY: _____		DATE: 02/08/2016		PUBLIC WORKS 800 368-2211 1000 SW 15th St., 3rd Fl. Miami, FL 33135	CWI Civil Works, Inc. 10000 SW 15th St., Suite 108 Miami, FL 33186	SW 80 AVE (AREA 4) DRAINAGE SHEET	C-3
DATE BY: _____	DESIGNER: _____	CHECKED BY: _____	DATE: _____								



RECONST. SWALE TYPICAL SECTION
 R.E.L.
 EXCAVATE SWALE, PLACE FOUR (4) INCHES OF CLEAN SOIL AND
 500 WITH ST. AUGUSTINE. SAMPLE OF SOIL TO BE PROVIDED FOR
 APPROVAL.

RECONST. ASPH SHOULDER
 R.E.L.



EXIST. ROADWAY SIGNS
 TO BE REMOVED.
 CONTRACTOR TO STORE
 SIGNS DURING CONST.
 AND TO REPLACE SIGNS
 PER DADE-COUNTY
 STANDARDS (TYP.)

EXIST. CUTTER SHALL
 BE CLEARED OF
 DEBRIS AND DIRT

RECONST.
 SIDEWALK
 STA. 13484.76 (14' RT)
 REMOVE AND REPLACE
 EXIST. INLET
 RM. ELEV. 9.50
 INV. ELEV. 9.00

RECONST.
 ASPHALT
 DRIVEWAY
 AND CURB
 STA. 14338.39 (14' RT)
 REMOVE EXIST. INLET
 AND INSTALL NEW INLET
 RM. ELEV. 9.30
 INV. ELEV. 4.80

PLUG AND FILL EXIST. INLET, EXISTING
 TREE TO BE PROTECTED, RECONSTRUCT
 BASE AND ASPHALT TO DRAIN.

STA. 15400 (14' RT)
 INSTALL NEW INLET (CUT TREE
 ROOTS AS NEEDED)
 RM. ELEV. 9.20
 INV. ELEV. 4.70



CORAL REEF PARK

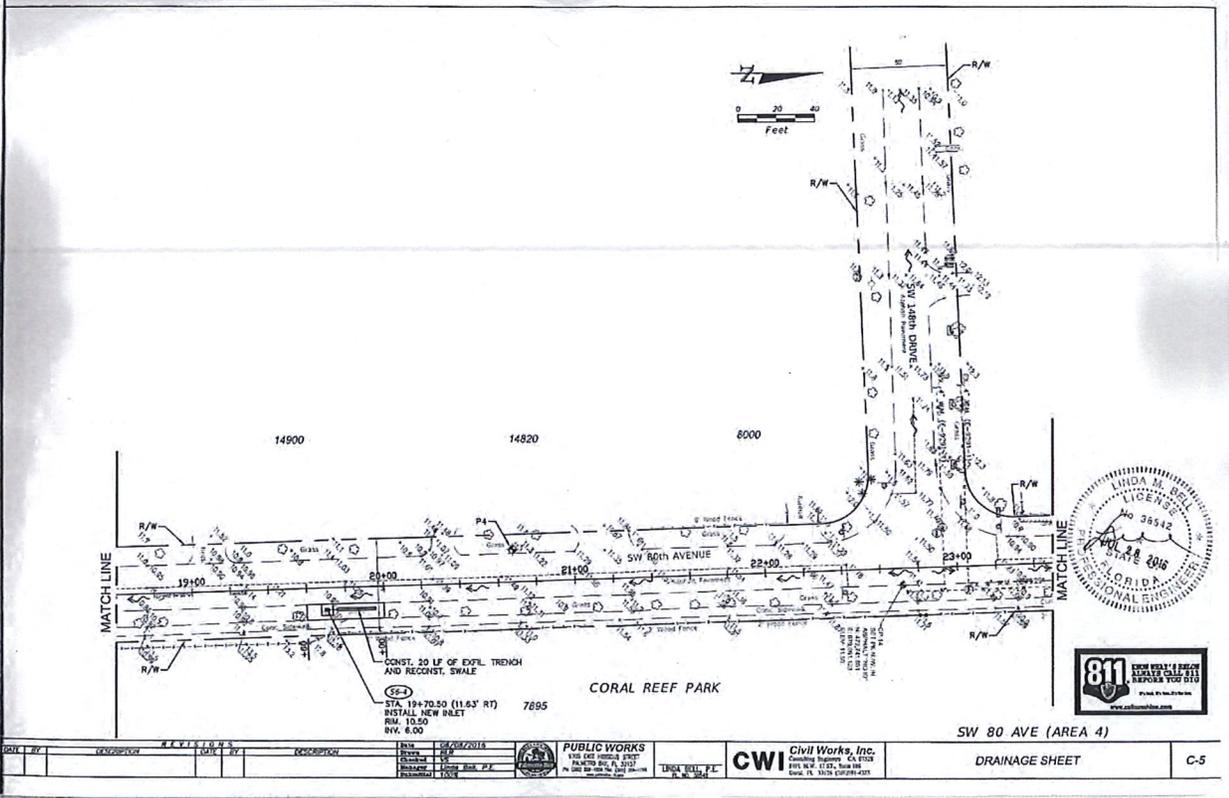


SW 80 AVE (AREA 4)

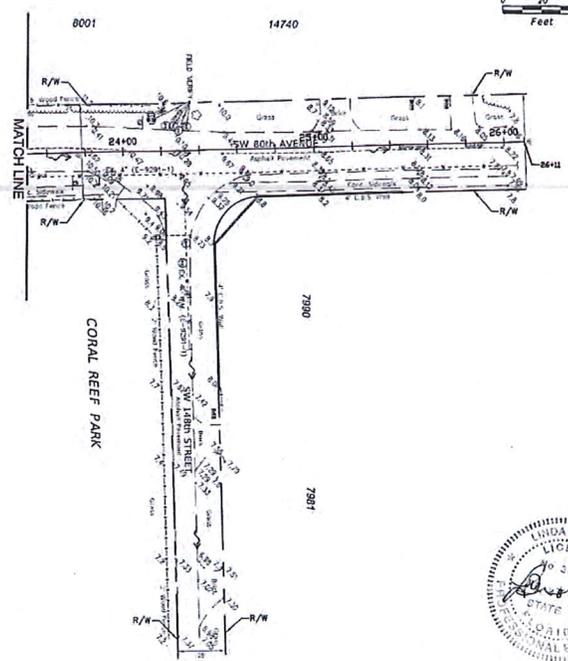
DATE	REVISION	BY	CHK	APP	DESCRIPTION

PUBLIC WORKS
 CIVIL WORKS, INC.
 3000 S.W. 11th Street, Suite 100
 Miami, FL 33135
 Phone: 305.224.1111
 Fax: 305.224.1112
 www.civilworksinc.com

CWI Civil Works, Inc.
 3000 S.W. 11th Street, Suite 100
 Miami, FL 33135
 Phone: 305.224.1111
 Fax: 305.224.1112
 www.civilworksinc.com



DATE: 11/19/2015	REVISION: 1	DESCRIPTION: 1. CORRECT	DATE: 11/19/2015	BY: [Signature]	CHECKED: [Signature]	APPROVED: [Signature]	PUBLIC WORKS 1400 THE COMMONS CENTER PALM BEACH, FL 33411 PH: 561-838-3600 FAX: 561-838-3601	LINDA BELL, P.E. P.E. No. 36542	CWI Civil Works, Inc. Consulting Engineers, CA 6702 111 W. 115th St., Suite 100 Overland Park, KS 66204-2201	SW 80 AVE (AREA 4) DRAINAGE SHEET	C-5
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SW 80 AVE (AREA 4)

DATE BY	DESCRIPTION	DATE BY	DESCRIPTION	DATE	DESCRIPTION	DATE	DESCRIPTION	DATE	DESCRIPTION	DATE	DESCRIPTION
				10/02/2017	REVISION						

PUBLIC WORKS
 1000 1st St. N. Suite 200
 Palm Beach Gardens, FL 33418
 Phone: 561-353-1111
 Fax: 561-353-1112
 www.civilworks.com

LINDA M. HILL, P.E.
 P.E. No. 38842

CWI Civil Works, Inc.
 Consulting Engineers & Architects
 1000 1st St. N. Suite 200
 Palm Beach Gardens, FL 33418
 Phone: 561-353-1111

DRAINAGE SHEET

C-6

VILLAGE OF PALMETTO BAY SW 80 AVE (AREA 4) DRAINAGE IMPROVEMENTS

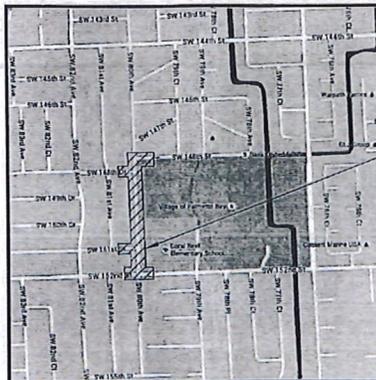


ID: 2016-DTM-MISC-00067
 Contact Name: RAMON ALVAREZ
 Contact Phone: 3055058477
 Folio: 33-5022-008-0150
 App. Name: PAVING & DRAINAGE REVIEW
 Date: 08/02/2016
 Reviewer:

Village of Palmetto Bay
 Department of Public Services
 Plan Reviewed By: *[Signature]*
 Signature _____ Date _____

LIST OF SHEETS:

SHT. No.	DESCRIPTION
C-1	COVER SHEET
C-2	GENERAL NOTES
C-3-6	DRAINAGE PLAN
C-7	DRAINAGE DETAILS



LOCATION SKETCH

PROJECT LOCATION

**DERM
 PLAN REVIEW
 FINAL
 APPROVAL**

DEPARTMENT OF ENVIRONMENTAL
 RESOURCES MANAGEMENT

CORE REVIEWER (PRINT) *[Signature]*
 SIGNATURE _____ DATE 8/10/16

6/8/16 90% PROGRESS SET



PREPARED FOR:
 VILLAGE OF PALMETTO BAY PUBLIC WORKS DEPT.
 9705 EAST HIBISCUS STREET
 PALMETTO BAY, FL 33157
 PH: (305) 928-1234
 FAX: (305) 928-1200
 www.palmetto-bay.gov

ENGINEER OF RECORD: LINDA BELL, P.E.
 P.E. #35512

PREPARED BY:
CWI Civil Works, Inc.

CONSULTING ENGINEERS
 8491 N.W. 17 ST., Suite 100
 OSRAY, FL 33326
 (305) 501-4333
 CA 07532
 Miami • Coral Springs • Orlando



GENERAL NOTES

1. ALL ELEVATIONS REFER TO NATIONAL GEODEIC VERTICAL DATUM (NGVD) 1929.
2. ALL DRAINAGE CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE VILLAGE OF PALMETTO BAY, MIAMI-DADE COUNTY REGULATORY AND ECONOMIC RESOURCES (RER) (D.E.R.M.), THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT (MOPW), AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT).
3. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
4. CATCH BASINS, EXFILTRATION TRENCHES, PAVEMENT RESTORATION AND PAVEMENT AROUND CATCH BASINS, AND SWALE TO BE ACCORDING TO THE DETAILS, MOPW, AND APPLICABLE REQUIREMENTS OF THE VILLAGE OF PALMETTO BAY.
5. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A HEAT SAWCUT STRAIGHT LINE AND FLUSH WITH EXISTING PAVEMENT. NO ASPHALT FEATHERING SHALL BE ALLOWED.
6. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES, AND UTILITIES WHICH MAY NOT BE SHOWN ON PLANS. ANY EXISTING STRUCTURE, PAVEMENT, TREES OR OTHER EXISTING APPURTENANCES NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARILY DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THIS CONTRACT, SHALL BE REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
7. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES. PRIOR TO CONSTRUCTING THE PROPOSED IMPROVEMENTS, ALL CONFLICTS MUST BE RESOLVED BY THE CONTRACTOR AND THE FIELD REPRESENTATIVE OF THE OWNER. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
8. CONTRACTOR SHALL CONTACT THE SUNSHINE CO. AT 1 (800) 432-4770 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES. THE CONTRACTOR OR CONTRACTOR'S REPRESENTATIVE WILL BE PRESENT DURING ALL UTILITY LOCATES.
9. ALL TREES ARE TO REMAIN AND SHALL BE PROTECTED IN PLACE. ANY TREE TRIMMING SHALL BE DISCUSSED WITH THE OWNER AND SHALL BE CONDUCTED BY A CERTIFIED ARBORIST, AND INCLUDED IN COST OF PIPE.
10. EXISTING GRADES WERE TAKEN FROM THE BEST AVAILABLE DATA AND MAY NOT ACCURATELY REFLECT PRESENT CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH CURRENT SITE CONDITIONS, AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING WORK.
11. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL ITEMS LISTED IN THE PROJECT SPECIFICATIONS, FOR APPROVAL BY THE VILLAGE/ENGINEER PRIOR TO ORDERING/FABRICATING SAID ITEMS.
12. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR LEAVE EXCAVATED TRENCHES, OR PARTS OF, EXPOSED OR OPEN AT THE END OF THE WORKING DAY, WEEKENDS, HOLIDAYS OR OTHER TIMES, WHEN THE CONTRACTOR IS NOT WORKING, UNLESS OTHERWISE APPROVED BY THE OWNER. ANY TRENCH SHALL BE COVERED, FIRMLY SECURED AND MARKED ACCORDINGLY TO ALLOW SAFE PEDESTRIAN TRAFFIC. ALL COSTS ASSOCIATED WITH THIS ITEM ARE INCIDENTAL TO THE CONTRACT.
13. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
14. ALL EXCAVATED MATERIAL REMOVED FROM THIS PROJECT SHALL BE DISPOSED OF LEGALLY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. THIS COST SHALL BE INCIDENTAL TO CONSTRUCT AND AT NO ADDITIONAL COST TO THE OWNER.
15. CAST IRON PRODUCTS: HEAVY DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC LOADS, OR 16,000 LB. WHEEL LOADS.
16. STEEL GRATING AND MANHOLE COVERS: TRAFFIC CLASSIFICATION H-20 ASHTO H20.
17. ALL STRUCTURES AND COVERS MUST BE CAPABLE OF SUSTAINING HEAVY TRAFFIC LOADS.
18. ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RESTORED AND RE-SEEDDED WITH ST. AUGUSTINE GRASS AT NO ADDITIONAL COST TO THE OWNER.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH THE MUTCD (LATEST EDITION) AND FDOT INDEX 800. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR THE RESETTling OF ALL TRAFFIC CONTROL AND INFORMATION SIGNS REMOVED DURING CONSTRUCTION PERIOD. THE COST SHALL BE INCLUDED IN THE COST FOR MAINTENANCE OF TRAFFIC.
20. EXCAVATED OR OTHER MATERIAL TEMPORARILY STORED ADJACENT TO OR PARTIALLY UPON A ROADWAY PAVEMENT SHALL BE ADEQUATELY MARKED FOR TRAFFIC SAFETY AT ALL TIMES.
21. TEMPORARY ASPHALT PATCH MATERIAL MUST BE ON THE JOB SITE WHENEVER PAVEMENT IS OUT, OR THE INSPECTOR WILL SHUT THE JOB DOWN.
22. CONTRACTOR SHALL MAINTAIN TRAFFIC ACCORDING TO CORRESPONDING TYPICAL CONTROL DETAIL AS OUTLINED IN THE MOPW MANUAL, OR PER THE PERTINENT TYPICAL APPLICATION IN THE MUTCD (LATEST EDITION).
23. CONTRACTOR SHALL MAINTAIN AT LEAST THE FOLLOWING NUMBER OF TRAFFIC LANES FOR CORRESPONDING TIME PERIODS: MONDAY-FRIDAY 7-9 A.M. AND 4-8 P.M.: MAINTAIN ONE LANE FOR TWO-WAY OPERATION WITH FLAGMEN.
24. CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT AND FIRE PROTECTION SERVICES TWENTY-FOUR (24) HOURS IN ADVANCE OF ANY DETOUR IN ACCORDANCE WITH FLORIDA STATUTES.
25. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO MAINTAIN ALL UTILITIES IN OPERATION AT ALL TIMES. THE COST ASSOCIATED WITH MAINTENANCE OF UTILITIES INCLUDING SHORING, SUPPORTING, SHEET PILING OR ANY OTHER FORM OF SUPPORT REQUIRED TO KEEP UTILITIES IN OPERATION SHALL BE INCLUDED IN THE COST OF THE PIPE.
26. CONTRACTOR TO EXCAVATE FOR STRUCTURES OR PIPE TRENCH AS SHOWN IN THE PLANS AND DETAILS. ALL UNSUITABLE MATERIAL EXCAVATED SHALL BE DISPOSED LEGALLY AND AT A LOCATION SUPPLIED BY THE CONTRACTOR. ALL UNSUITABLE MATERIAL, ESPECIALLY PROPOSED STRUCTURES OR PIPES SHALL BE REMOVED AND BACKFILLED WITH CLEAN SUITABLE SOIL, APPROVED BY ENGINEER, TO THE PROPER ELEVATION.
27. SWPPP - PRIOR TO CONSTRUCTION, CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL DEVICES PER FDOT 2010, INDEX 102.
28. EXISTING DRAINAGE IS TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO USE BEST MANAGEMENT PRACTICES IN MAINTAINING ALL EXISTING DRAINAGE CLEAN AND FREE FROM SOIL EROSION, MULLINGS, AND ANY CONSTRUCTION DEBRIS.

DRAINAGE NOTES

1. WHEN PROPOSED DRAINAGE STRUCTURES ARE TO BE CONNECTED TO EXISTING DRAINAGE PIPE, CONTRACTOR SHALL PROVIDE 3 LF OF PROPOSED PIPE MATCHING THE SIZE OF THE EXISTING PIPE. THE PIPES SHALL BE CONNECTED WITH A CONCRETE COLLAR PER FDOT INDEX 280.
2. COST OF ASPH. APRON TO BE INCLUDED IN THE COST OF THE CATCH BASIN.
3. PROVIDE AND INSTALL A BATTLE IN FRONT OF PIPING THAT CONNECT DIRECTLY TO EXFILTRATION TRENCHES. (STRUCTURES 52-4, 54-4, 55-4, AND 58-4, 4 TOTAL). SEE DETAIL. COST TO BE INCLUDED IN THE COST OF THE STRUCTURE.



DATE BY	EXPIRES	REVISED BY	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION



PUBLIC WORKS
 1750 SW 80th Avenue, Suite 100
 Miami, FL 33155
 Tel: 305.442.1100
 Fax: 305.442.1101
 www.miamipublicworks.com

CWI Civil Works, Inc.
 1750 SW 80th Avenue, Suite 100
 Miami, FL 33155
 Tel: 305.442.1100
 Fax: 305.442.1101
 www.cwiinc.com

SW 80 AVE (AREA 4)

GENERAL NOTES

C-2

PAVEMENT RESTORATION

- 1. 2" ASPHALT
- 2. 6" LIMEROCK BASE (LSR-100)
- 3. 12" COMPACTED SUBGRADE (LSR-40)

RECONSTRUCT DRIVEWAY

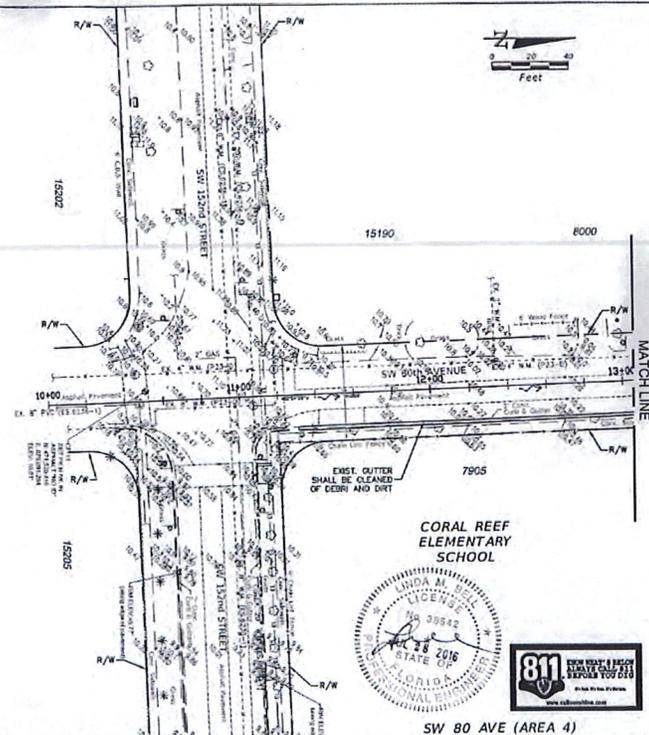
- 1. SAWCUT HEAT STRAIGHT LINES PRIOR TO EXCAVATING.
- 2. CONST. DRAINAGE.
- 3. BACKFILL WITH CLEAN SUITABLE FILL. COMPACT TO A MIN. OF 95% OF MAX. DENSITY.
- 4. PLACE 6" OF LIMEROCK (LSR-100).
- 5. PLACE TACK COAT.
- 6. PLACE 1" OF 5-B ASPHALT.

RECONSTRUCT SIDEWALK

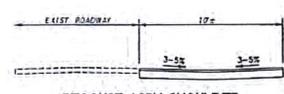
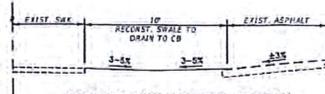
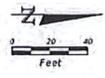
- 1. SAWCUT NEAREST JOINT.
- 2. CONST. DRAINAGE.
- 3. BACKFILL PER MIAM-DADE SPEC.
- 4. PLACE SIX (6) INCHES OF CLOTH SUITABLE FILL. COMPACTED TO A MIN. OF 95% MAX. DENSITY.
- 5. CONST. CONC. SIDEWALK PER MIAM-DADE COUNTY STANDARDS AND SPEC.

LEGEND:

- ⊕ SEWER MANHOLE
 - ⊕ STORM MANHOLE
 - ⊕ UNKNOWN MANHOLE
 - ⊕ WATER VALVE
 - ⊕ WATER METER
 - ⊕ CONTROL POINT
 - ⊕ CATCH BASIN
 - ⊕ FIRE HYDRANT
 - ⊕ POWER POLE (CONCRETE)
 - ⊕ "B" SIGN
 - ⊕ WITHDRAW BOX
 - ⊕ SERVICE CABINET
 - ⊕ GUARD POST
 - ⊕ TREE
 - ⊕ TREE PALM
 - ⊕ ORNAMENTAL PLANT
 - ⊕ GUY ANCHOR
 - ⊕ LIGHT POLE
 - ⊕ MAIL BOX
 - ⊕ SPOT ELEVATION
 - ⊕ MULTICOLOUR SIGN
 - ⊕ ELECTRIC OUTLET
 - ⊕ FLOOD LIGHT
 - ⊕ SIGN
 - ⊕ PERCOLATION TEST LOCATION
- LINES TYPE:**
- D — OVERHEAD UTILITY LINE
 - X — FENCE

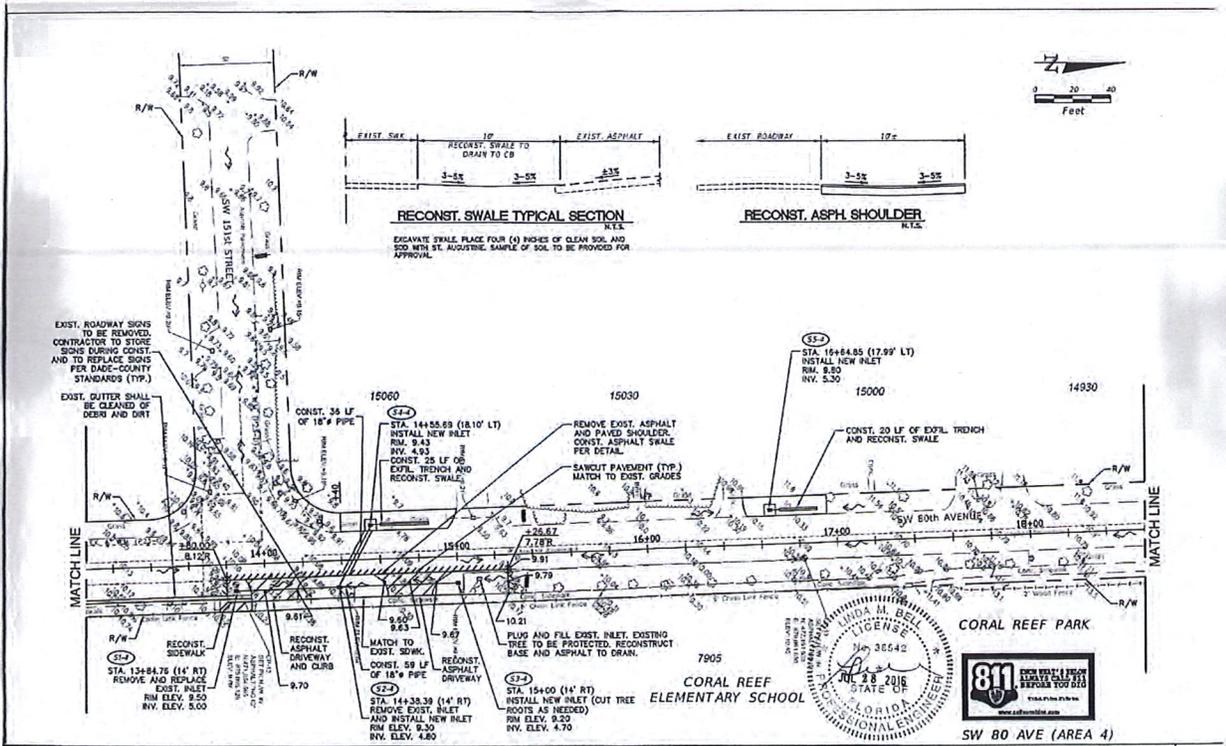


DATE: 02/28/2011	PROJECT: PUBLIC WORKS	SCALE: 1" = 40'	CWI Civil Works, Inc.	SW 80 AVE (AREA 4)	DRAINAGE SHEET	C-3
DESIGNED BY: [Signature]	CHECKED BY: [Signature]	APPROVED BY: [Signature]	1000 N.W. 17th St., Suite 108 Fort Lauderdale, FL 33311 Phone: 754.366.1111 www.civilworks.com	SW 80 AVE (AREA 4)		



RECONST. SWALE TYPICAL SECTION
 EXCAVATE SWALE, PLACE FOUR (4) INCHES OF CLEAN SOIL AND SOIL WITH ST. ADJUSTING. SAMPLE OF SOIL TO BE PROVIDED FOR APPROVAL.

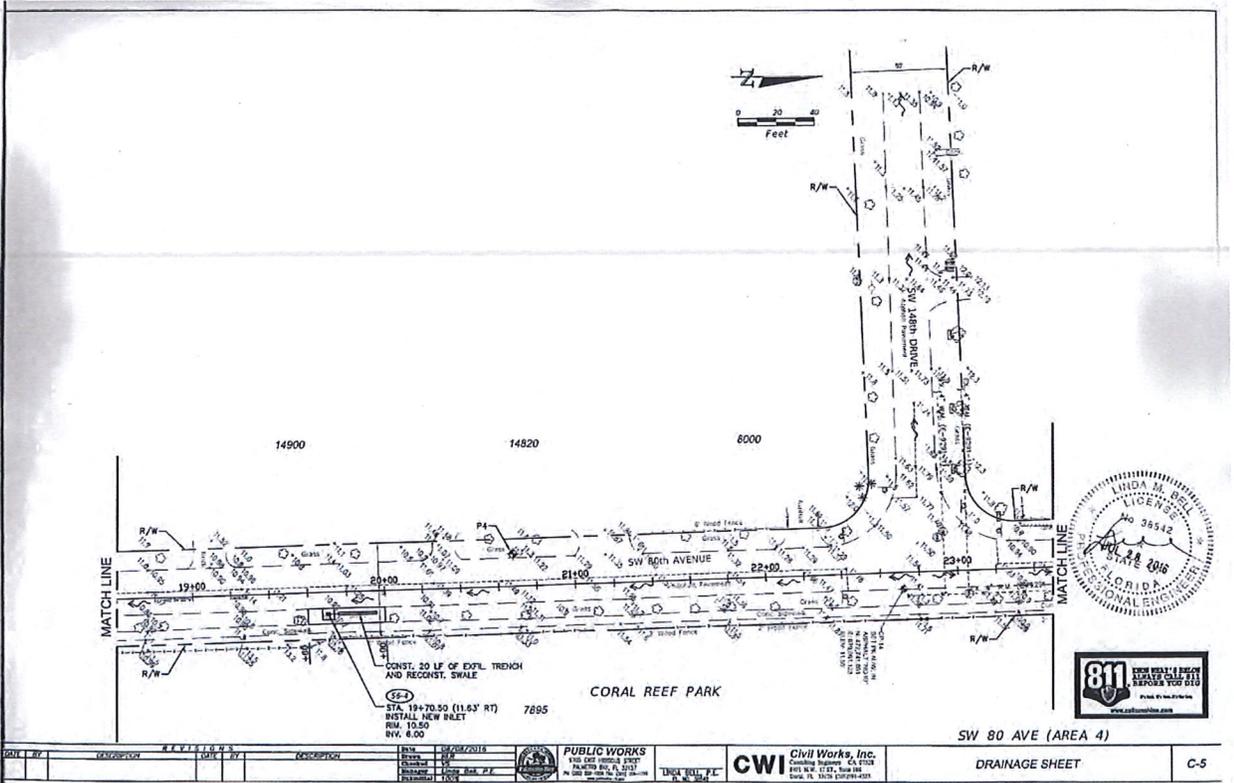
RECONST. ASPH. SHOULDER



NO.	BY	DESCRIPTION	DATE
1
2
3



Civil Works, Inc.
 Consulting Engineers & Architects
 1401 N.W. 17th Street, Suite 100
 Fort Lauderdale, FL 33304-4402



CONST. 20 LF OF EXPL. TRENCH
AND RECONST. SWALE

SE-1
STA. 19+70.55 (11.63' RT)
INSTALL NEW INLET
RW. 10.50
INV. 4.00

CORAL REEF PARK

SW 80 AVE (AREA 4)

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PUBLIC WORKS

1400 S.W. 10TH STREET
PENSACOLA, FL 32504

CWI Civil Works, Inc.

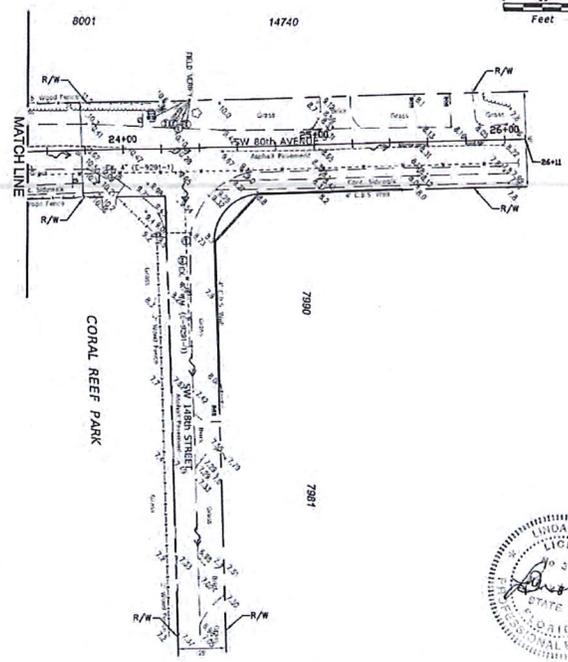
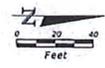
1015 W. 11TH ST., SUITE 101
PENSACOLA, FL 32504

811 THE PUBLIC WORKS
SERVICES TRUST FUND

www.811.com

DRAINAGE SHEET

C-5



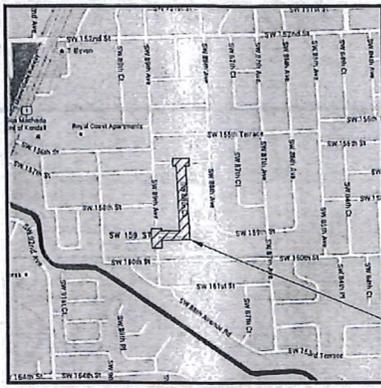
DATE BY: CONSTRUCTION DATE: 12/11/11		EXPIRES:	DATE: 12/25/2011 SCALE: AS SHOWN DRAWN: LDG/RF/PA CHECKED: LDG	PUBLIC WORKS 800 SW 80th STREET MIAMI, FL 33149	Civil Works, Inc. Consulting Engineers, P.A. 800 SW 80th Street, Suite 100 Miami, FL 33149-4111	SW 80 AVE (AREA 4) DRAINAGE SHEET	C-6
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VILLAGE OF PALMETTO BAY SW 88 CT (AREA 6) DRAINAGE IMPROVEMENTS

TRUE
ID: 2016-DTM-MISC-00069
Contact Name: RAMON ALVAREZ
Contact Phone: 3055556477
Folio: 33-5028-005-2010
App. Name: PAVING & DRAINAGE REVIEW
Date: 08/02/2016
Reviewer:

LIST OF SHEETS:

SHT. No.	DESCRIPTION
C-1	COVER SHEET
C-2	GENERAL NOTES
C-3-5	DRAINAGE PLAN
C-7	DRAINAGE DETAILS



LOCATION SKETCH



PREPARED FOR:
VILLAGE OF PALMETTO BAY-PUBLIC WORKS DEPT.
2705 EAST HEBISCUS STREET
PALMETTO BAY, FL 33127
PH: (305)258-1234
FAX: (305)258-1299
www.palmetto-bay.gov

PREPARED BY:
CWI Civil Works, Inc.
CONSULTING ENGINEERS
6491 NW 17 ST, Suite 108
OCALA, FL 33126
(305) 591-4323
CA 07230
Miami • Coral Springs • Orlando

Village of Palmetto Bay
Department of Public Service:
Plan Reviewed By:
[Signature]
Signature Date
DERM
PLAN REVIEW
FINAL
APPROVAL
DEPARTMENT OF ENVIRONMENTAL
RESOURCES MANAGEMENT

CORE REVIEWER (PRINT): *[Signature]*
SIGNATURE: *[Signature]* DATE: 8.10.16

PROJECT LOCATION

6/8/16 90% PROGRESS SET



Village of Palmetto Bay - Palmetto Bay Drainage Area - Working drawing/16161-C-1-2016

GENERAL NOTES

1. ALL ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM (NGVD) 1929.
2. ALL DRAINAGE CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE VILLAGE OF PALMETTO BAY, MIAMI-DADE COUNTY REGULATORY AND ECONOMIC RESOURCES (RER) (O.E.R.M.), THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT (MOPW), AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT).
3. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
4. CATCH BASINS, EXFILTRATION TRENCHES, PAVEMENT RESTORATION AND PAVEMENT AROUND CATCH BASINS, AND SHALE TO BE ACCORDING TO THE DETAILS, MOPW, AND APPLICABLE REQUIREMENTS OF THE VILLAGE OF PALMETTO BAY.
5. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT SAWCUT STRAIGHT LINE AND FLUSH WITH EXISTING PAVEMENT; NO ASPHALT "FEATHERING" SHALL BE ALLOWED.
6. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES, AND UTILITIES WHICH MAY NOT BE SHOWN ON PLANS. ANY EXISTING STRUCTURE, PAVEMENT, TREES OR OTHER EXISTING APPURTENANCES NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARILY DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THIS CONTRACT, SHALL BE REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
7. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE. ADDITIONAL UTILITIES MAY EXIST WHEN ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES. PRIOR TO CONSTRUCTING THE PROPOSED IMPROVEMENTS, ALL CONFLICTS MUST BE RESOLVED BY THE CONTRACTOR AND THE FIELD REPRESENTATIVE OF THE OWNER. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
8. CONTRACTOR SHALL CONTACT THE SUNSHINE CO. AT 1 (800) 432-4770 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES. THE CONTRACTOR OR CONTRACTOR'S REPRESENTATIVE WILL BE PRESENT DURING ALL UTILITY LOCATES.
9. ALL TREES ARE TO REMAIN AND SHALL BE PROTECTED IN PLACE. ANY TREE TRIMMING SHALL BE DISCUSSED WITH THE OWNER AND SHALL BE CONDUCTED BY A CERTIFIED ARBORIST, AND INCLUDED IN COST OF PIPE.
10. EXISTING GRADES WERE TAKEN FROM THE BEST AVAILABLE DATA AND MAY NOT ACCURATELY REFLECT PRESENT CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH CURRENT SITE CONDITIONS, AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING WORK.
11. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL ITEMS LISTED IN THE PROJECT SPECIFICATIONS, FOR APPROVAL BY THE VILLAGE/ ENGINEER PRIOR TO ORDERING/ FABRICATING SAID ITEMS.
12. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR LEAVE EXCAVATED TRENCHES, OR PARTS OF, EXPOSED OR OPEN AT THE END OF THE WORKING DAY, WEEKENDS, HOLIDAYS OR OTHER TIMES, WHEN THE CONTRACTOR IS NOT WORKING, UNLESS OTHERWISE APPROVED BY THE OWNER. ANY TRENCH SHALL BE COVERED, FIRMLY SECURED AND MARKED ACCORDINGLY TO ALLOW SAFE PEDESTRIAN TRAFFIC. ALL COSTS ASSOCIATED WITH THIS ITEM ARE INCIDENTAL TO THE CONTRACT.
13. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
14. ALL EXCAVATED MATERIAL REMOVED FROM THIS PROJECT SHALL BE DISPOSED OF LEGALLY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. THIS COST SHALL BE INCIDENTAL TO CONSTRUCT AND AT NO ADDITIONAL COST TO THE OWNER.
15. CAST IRON PRODUCTS: HEAVY DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC LOADS, OR 16,000 LB. WHEEL LOADS.
16. STEEL GRATING AND MANHOLE COVERS: TRAFFIC CLASSIFICATION M-20 AASHTO H20.
17. ALL STRUCTURES AND COVERS MUST BE CAPABLE OF SUSTAINING HEAVY TRAFFIC LOADS.
18. ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RESTORED AND RE-SOODED WITH ST. AUGUSTINE GRASS AT NO ADDITIONAL COST TO THE OWNER.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES IN ACCORDANCE WITH THE MUTCD (LATEST EDITION) AND FDOT INDEX 600. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR THE RESTORING OF ALL TRAFFIC CONTROL AND INFORMATION SIGNING REMOVED DURING CONSTRUCTION PERIOD. THE COST SHALL BE INCLUDED IN THE COST FOR MAINTENANCE OF TRAFFIC.
20. EXCAVATED OR OTHER MATERIAL TEMPORARILY STORED ADJACENT TO OR PARTIALLY UPON A ROADWAY PAVEMENT SHALL BE ADEQUATELY MARKED FOR TRAFFIC SAFETY AT ALL TIMES.
21. TEMPORARY ASPHALT PATCH MATERIAL MUST BE ON THE JOB SITE WHENEVER PAVEMENT IS OUT, OR THE INSPECTOR WILL SHUT THE JOB DOWN.
22. CONTRACTOR SHALL MAINTAIN TRAFFIC ACCORDING TO CORRESPONDING TYPICAL CONTROL DETAIL AS OUTLINED IN THE MOPW MANUAL, OR PER THE PERTINENT TYPICAL APPLICATION IN THE MUTCD (LATEST EDITION).
23. CONTRACTOR SHALL MAINTAIN AT LEAST THE FOLLOWING NUMBER OF TRAFFIC LANES FOR CORRESPONDING PERIODS: MONDAY-FRIDAY 7-9 A.M. AND 4-6 P.M.; MAINTAIN ONE LANE FOR TWO-WAY OPERATION WITH FLAGMEN.
24. CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT AND FIRE PROTECTION SERVICES TWENTY-FOUR (24) HOURS IN ADVANCE OF ANY DETOUR IN ACCORDANCE WITH FLORIDA STATUTES.
25. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO MAINTAIN ALL UTILITIES IN OPERATION AT ALL TIMES. THE COST ASSOCIATED WITH MAINTENANCE OF UTILITIES INCLUDING SHORING, SUPPORTING, SHEET PILING OR ANY OTHER FORM OF SUPPORT REQUIRED TO KEEP UTILITIES IN OPERATION SHALL BE INCLUDED IN THE COST OF THE PIPE.
26. CONTRACTOR TO EXCAVATE FOR STRUCTURES OR PIPE TRENCH AS SHOWN IN THE PLANS AND DETAILS. ALL UNSUITABLE MATERIAL EXCAVATED SHALL BE DISPOSED LEGALLY AND AT A LOCATION SUPPLIED BY THE CONTRACTOR. ALL UNSUITABLE MATERIAL BENEATH PROPOSED STRUCTURES OR PIPES SHALL BE REMOVED AND BACKFILLED WITH CLEAN SUITABLE SOIL, APPROVED BY ENGINEER, TO THE PROPER ELEVATION.
27. SWPPP - PRIOR TO CONSTRUCTION, CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL DEVICES PER FDOT 2010, INDEX 102.
28. EXISTING DRAINAGE IS TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO USE BEST MANAGEMENT PRACTICES IN MAINTAINING ALL EXISTING DRAINAGE CLEAN AND FREE FROM SOIL EROSION, MUDINGS, AND ANY CONSTRUCTION DEBRIS.

DRAINAGE NOTES

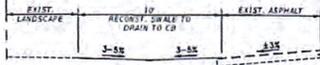
1. WHEN PROPOSED DRAINAGE STRUCTURES ARE TO BE CONNECTED TO EXISTING DRAINAGE PIPE, CONTRACTOR SHALL PROVIDE 8 LF OF PROPOSED PIPE MATCHING THE SIZE OF THE EXISTING PIPE. THE PIPES SHALL BE CONNECTED WITH A CONCRETE COLLAR PER FDOT INDEX 200.
2. COST OF ASPH. APRON TO BE INCLUDED IN THE COST OF THE CATCH BASIN.
3. PROVIDE AND INSTALL A Baffle IN FRONT OF FIFTH THAT CONNECT DIRECTLY TO EXFILTRATION TRENCHES. (STRUCTURES S1-6, S3-6, S5-6, S7-6, S9-6, S10-6, AND S13-6, 6 TOTAL). SEE DETAIL. COST TO BE INCLUDED IN THE COST OF THE STRUCTURE.



SW 88 CT (AREA 6)

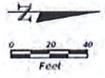
REV. NO.	DESCRIPTION	DATE	BY	APP. BY

PUBLIC WORKS
 CIVIL WORKS, INC.
 1115 S.W. 11th St., Suite 100
 Fort Lauderdale, FL 33315
 Phone: 954-575-1115
 Fax: 954-575-1116
 www.civilworksinc.com



RECONST. SWALE TYPICAL SECTION

DESIGNATE SWALE. PLACE FOUR (4) INCHES OF CLEAN SOIL AND 500 MPH ST. AUGUSTINE. SAMPLE OF SOIL TO BE PROVIDED FOR APPROVAL.

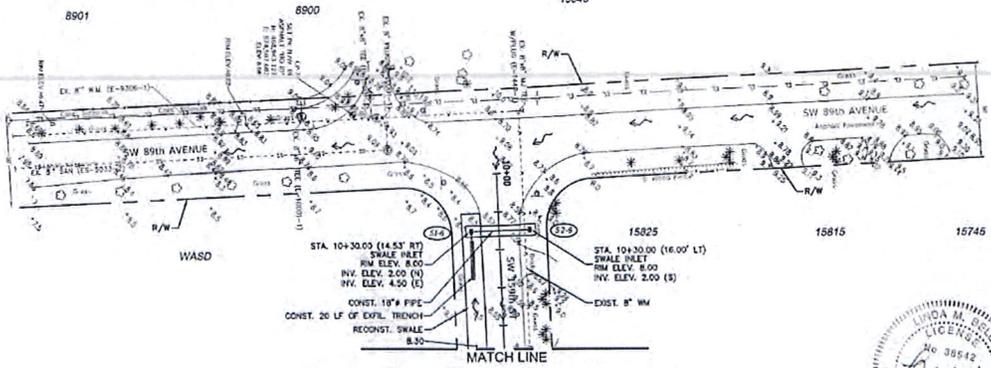


LEGEND:

- ⊙ SEWER MANHOLE
- ⊙ STORM MANHOLE
- ⊙ UNKNOWN MANHOLE
- ⊙ WATER VALVE
- ⊙ WATER METER
- ⊙ CONTROL POINT
- ⊙ CATCH BASIN
- ⊙ FIRE HYDRANT
- ⊙ POWER POLE (CONCRETE)
- ⊙ SIGN
- ⊙ WIRING PULL BOX
- ⊙ SERVICE CABINET
- ⊙ GUANO POST
- ⊙ TREE
- ⊙ TREE PALM
- ⊙ ORNAMENTAL PLANT
- ⊙ CITY ANCHOR
- ⊙ LIGHT POLE
- ⊙ MAIL BOX
- ⊙ SPOT ELEVATION
- ⊙ MULTICAMMIN SIGN
- ⊙ ELECTRIC OUTLET
- ⊙ FLOOD LIGHT
- ⊙ SWALE
- FLOW DIRECTION
- ⊙ PERCOLATION TEST LOCATION

LINE TYPE:

- OVERHEAD UTILITY LINE
- - - FENCE
- RIGHT OF WAY LINE
- - - PAVEMENT MARKS
- ⊙ VEGETATION LINE



PAVEMENT RESTORATION

1. 1" ASPHALT
2. 6" LIME ROCK BASE (LRR-100)
3. 12" COMPACTED SUBGRADE (LRR-40)

RECONSTRUCT DRIVEWAY

1. SAWCUT NEAR STRAIGHT LINES PRIOR TO EXCAVATING
2. CONST. DRAINAGE
3. BACKFILL WITH CLEAN SATABLE FILL, COMPACT TO A MIN OF 85% OF MAX DENSITY.
4. PLACE 6" OF LIME ROCK (LRR-100)
5. PLACE TACK COAT.
6. PLACE 1" OF 2-S ASPHALT.

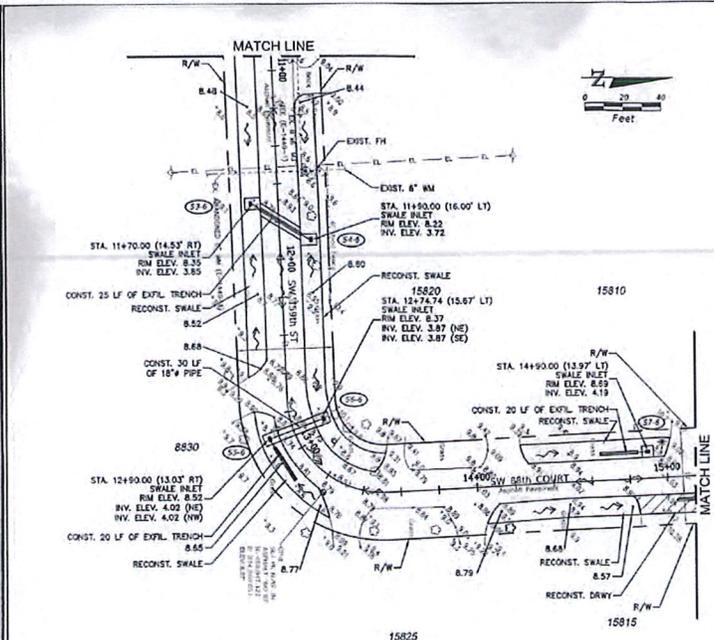


DATE	DESCRIPTION	BY	CHECKED	DATE	PROJECT	SCALE	DATE	PROJECT

PUBLIC WORKS
 1705 100 FEDERAL STREET
 PALM BEACH, FL 33480
 PHONE: 561.832.1100
 FAX: 561.832.1101

CWI Civil Works, Inc.
 10000 Highway 1, Suite 100
 Palm Beach Gardens, FL 33418
 Phone: 561.328.4400

SW 88 CT (AREA 6)
DRAINAGE SHEET
 C-3



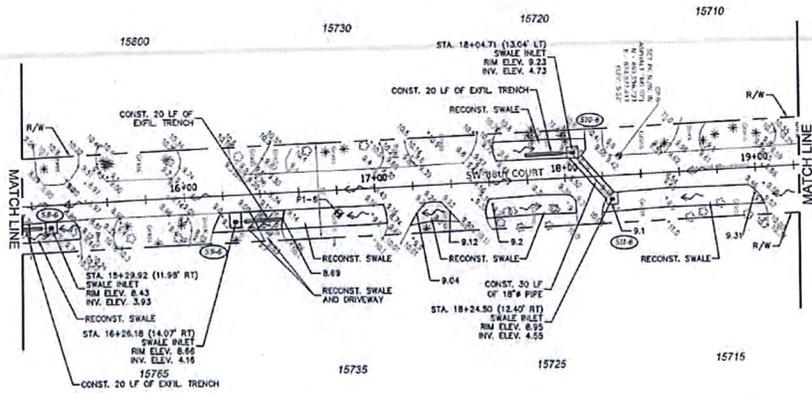
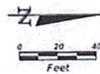
SW 88 CT (AREA 6)

DATE	BY	REVISIONS	DESCRIPTION	DATE	BY	DESCRIPTION

PUBLIC WORKS
 4745 EAGLE HARBOR DRIVE
 PALM BEACH, FL 33412
 PHONE: 561-833-3333 FAX: 561-833-3334
 WWW.PUBLICWORKSFL.COM

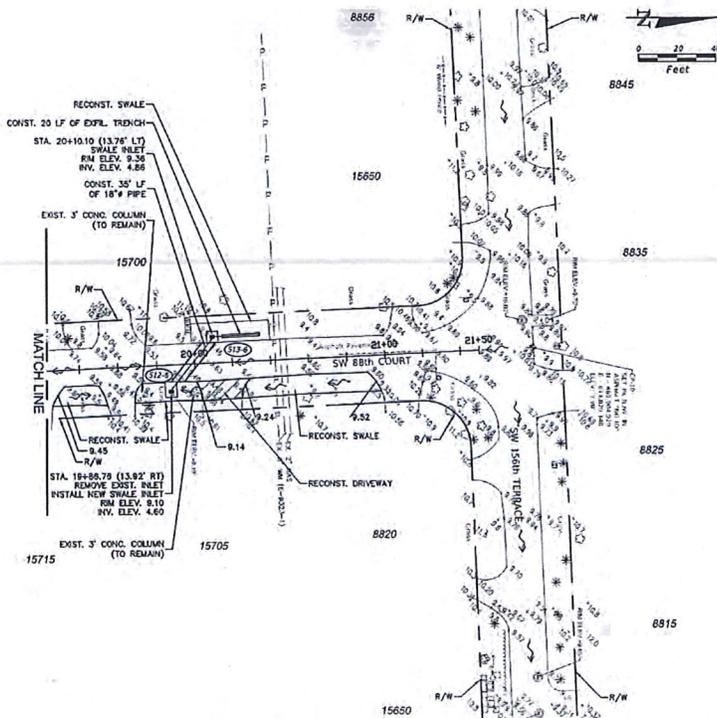
CWI Civil Works, Inc.
 Consulting Engineers, P.A. 15115
 5401 N.W. 117th, Suite 108
 Doral, FL 33126 (305) 851-4000

DRAINAGE SHEET C-4



SW 88 CT (AREA 6)

<table border="1"> <thead> <tr> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		DATE	BY	DESCRIPTION				<table border="1"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DESCRIPTION			<p>PUBLIC WORKS 3700 EAST HUNTERS STREET PENSACOLA, FL 32507 TEL: 904.786.4444 FAX: 904.786.4445</p>	<p>CWI Civil Works, Inc. CANTONMENT BLVD., SUITE 100 PENSACOLA, FL 32504 TEL: 904.786.4444 FAX: 904.786.4445</p>	<p>DRAINAGE SHEET</p>	<p>C-5</p>
DATE	BY	DESCRIPTION														
NO.	DESCRIPTION															



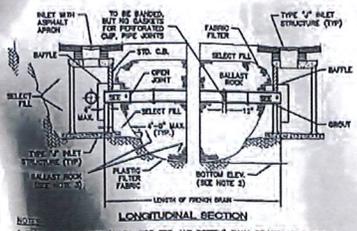
SW 88 CT (AREA 6)

NO.	REVISION	DATE	BY	DESCRIPTION

PUBLIC WORKS
 8705 14th Street
 Ft. Lauderdale, FL 33322
 Phone: 754.346.8888
 Fax: 754.346.8888

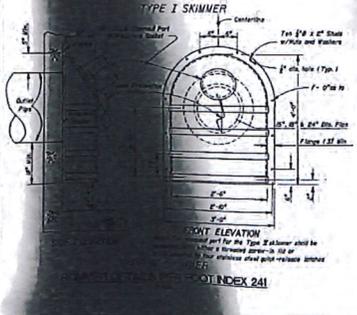
CWI Civil Works, Inc.
 Consulting Engineers, P.A.
 880 N.W. 17th, Suite 100
 Fort Lauderdale, FL 33311
 Phone: 754.346.8888

DRAINAGE SHEET C-6



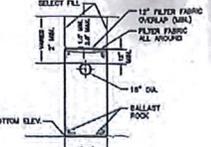
LONGITUDINAL SECTION

NOTE:
 1. FILTER FABRIC (AT EX. SOLE, TOP, AND BOTTOM) SHALL BE USED AS NOTED ON PLANS AND SPECIFICATIONS BY THE ENGINEER.
 2. THE EXTERIOR OF THE EXFILTRATION TRENCH SHALL BE 12" BELOW EXIST. GROUND ELEVATION. FILL CONDITIONS VARYING TO THE PROPER ELEVATION, IT SHALL BE CAPABLE OF SUPPORTING THE FULL LOADS OF TRAFFIC.
 3. ALL EXISTING BALLAST ROADS HAVE BEEN PLACED TO THE PROPER ELEVATION. IT SHALL BE CAPABLE OF SUPPORTING THE FULL LOADS OF TRAFFIC.
 4. ALL EXISTING BALLAST ROADS HAVE BEEN PLACED TO THE PROPER ELEVATION. IT SHALL BE CAPABLE OF SUPPORTING THE FULL LOADS OF TRAFFIC.
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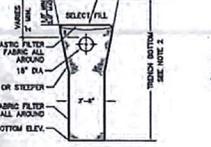
TYPE I SKIMMER

NOTE:
 1. ALL CONCRETE SHALL BE 2800 PSI STRENGTH CONCRETE.
 2. ALL REINFORCEMENT SHALL BE #4 BARS.
 3. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE NOTED.
 4. ALL SURFACES SHALL BE FINISHED TO THE PROPER ELEVATION.
 5. ALL EXISTING BALLAST ROADS HAVE BEEN PLACED TO THE PROPER ELEVATION. IT SHALL BE CAPABLE OF SUPPORTING THE FULL LOADS OF TRAFFIC.



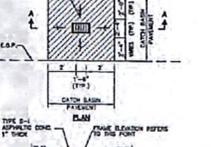
TOP SLAB DETAILS

NOTE:
 1. ALL CONCRETE SHALL BE 2800 PSI STRENGTH CONCRETE.
 2. ALL REINFORCEMENT SHALL BE #4 BARS.
 3. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE NOTED.
 4. ALL SURFACES SHALL BE FINISHED TO THE PROPER ELEVATION.
 5. ALL EXISTING BALLAST ROADS HAVE BEEN PLACED TO THE PROPER ELEVATION. IT SHALL BE CAPABLE OF SUPPORTING THE FULL LOADS OF TRAFFIC.



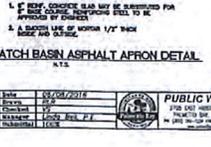
TRANSVERSE SECTION

NOTE:
 1. ALL CONCRETE SHALL BE 2800 PSI STRENGTH CONCRETE.
 2. ALL REINFORCEMENT SHALL BE #4 BARS.
 3. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE NOTED.
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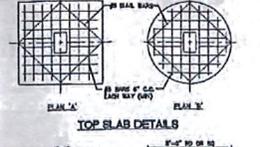
ALT. TRANS. SECTION

NOTE:
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 2. ALL REINFORCEMENT SHALL BE #4 BARS.
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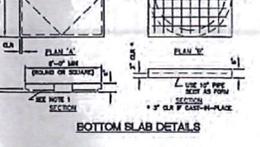
CATCH BASIN ASPHALT APRON DETAIL

NOTE:
 1. ALL CONCRETE SHALL BE 2800 PSI STRENGTH CONCRETE.
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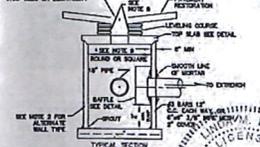
TOP SLAB DETAILS

NOTE:
 1. ALL CONCRETE SHALL BE 2800 PSI STRENGTH CONCRETE.
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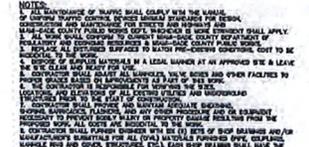
BOTTOM SLAB DETAILS

NOTE:
 1. ALL CONCRETE SHALL BE 2800 PSI STRENGTH CONCRETE.
 2. ALL REINFORCEMENT SHALL BE #4 BARS.
 3. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE NOTED.
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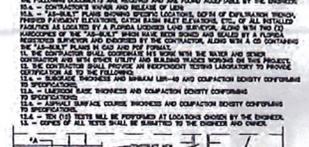
PRECAST CATCH BASIN

NOTE:
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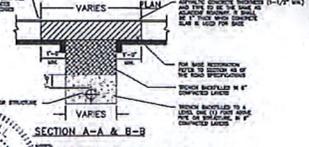
SECTION A-A & B-B

NOTE:
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 2. ALL REINFORCEMENT SHALL BE #4 BARS.
 3. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE NOTED.
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SECTION A-A & B-B

NOTE:
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SECTION A-A & B-B

NOTE:
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PAYMENT RESTORATION FOR TRENCHES CUT IN PUBLIC RIGHTS-OF-WAY

NOTE:
 1. ALL CONCRETE SHALL BE 2800 PSI STRENGTH CONCRETE.
 2. ALL REINFORCEMENT SHALL BE #4 BARS.
 3. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE NOTED.
 4. ALL SURFACES SHALL BE FINISHED TO THE PROPER ELEVATION.
 5. ALL EXISTING BALLAST ROADS HAVE BEEN PLACED TO THE PROPER ELEVATION. IT SHALL BE CAPABLE OF SUPPORTING THE FULL LOADS OF TRAFFIC.

GENERAL NOTES

1. ALL ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM (NGVD) 1929.
2. ALL DRAINAGE CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE VILLAGE OF PALMETTO BAY, MIAMI-DADE COUNTY REGULATORY AND ECONOMIC RESOURCES (RER) (D.E.R.M.), THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT (MOPW), AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT).
3. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
4. CATCH BASINS, EXFILTRATION TRENCHES, PAVEMENT RESTORATION AND PAVEMENT AROUND CATCH BASINS, AND SWALE TO BE ACCORDING TO THE DETAILS, MOPW, AND APPLICABLE REQUIREMENTS OF THE VILLAGE OF PALMETTO BAY.
5. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT SAWCUT STRAIGHT LINE AND FLUSH WITH EXISTING PAVEMENT. NO ASPHALT "FEATHERING" SHALL BE ALLOWED.
6. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES, AND UTILITIES WHICH MAY NOT BE SHOWN ON PLANS. ANY EXISTING STRUCTURE, PAVEMENT, TREES OR OTHER EXISTING APPURTENANCES NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARILY DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THIS CONTRACT, SHALL BE REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
7. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES. PRIOR TO CONSTRUCTING THE PROPOSED IMPROVEMENTS, ALL CONFLICTS MUST BE RESOLVED BY THE CONTRACTOR AND THE FIELD REPRESENTATIVE OF THE OWNER. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
8. CONTRACTOR SHALL CONTACT THE SUNSHINE CO. AT 1 (800) 432-4770 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES. THE CONTRACTOR OR CONTRACTOR'S REPRESENTATIVE WILL BE PRESENT DURING ALL UTILITY LOCATES.
9. ALL TREES ARE TO REMAIN AND SHALL BE PROTECTED IN PLACE. ANY TREE TRIMMING SHALL BE DISCUSSED WITH THE OWNER AND SHALL BE CONDUCTED BY A CERTIFIED ARBORIST, AND INCLUDED IN COST OF PIPE.
10. EXISTING GRADES WERE TAKEN FROM THE BEST AVAILABLE DATA AND MAY NOT ACCURATELY REFLECT PRESENT CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH CURRENT SITE CONDITIONS, AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING WORK.
11. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL ITEMS LISTED IN THE PROJECT SPECIFICATIONS, FOR APPROVAL BY THE VILLAGE/ENGINEER PRIOR TO ORDERING/FABRICATING SAID ITEMS.
12. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR LEAVE EXCAVATED TRENCHES, OR PARTS OF, EXPOSED OR OPEN AT THE END OF THE WORKING DAY, WEEKENDS, HOLIDAYS OR OTHER TIMES. WHEN THE CONTRACTOR IS NOT WORKING, UNLESS OTHERWISE APPROVED BY THE OWNER, ANY TRENCH SHALL BE COVERED, FINELY SECURED AND MARKED ACCORDINGLY TO ALLOW SAFE PEDESTRIAN TRAFFIC. ALL COSTS ASSOCIATED WITH THIS ITEM ARE INCIDENTAL TO THE CONTRACT.
13. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
14. ALL EXCAVATED MATERIAL REMOVED FROM THIS PROJECT SHALL BE DISPOSED OF LEGALLY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. THIS COST SHALL BE INCIDENTAL TO CONSTRUCT AND AT NO ADDITIONAL COST TO THE OWNER.
15. CAST IRON PRODUCTS: HEAVY DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC LOADS, OR 16,000 LB. WHEEL LOADS.
16. STEEL GRATING AND MANHOLE COVERS: TRAFFIC CLASSIFICATION H-20 AASHTO H20.
17. ALL STRUCTURES AND COVERS MUST BE CAPABLE OF SUSTAINING HEAVY TRAFFIC LOADS.
18. ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RESTORED AND RE-Seeded WITH ST. AUGUSTINE GRASS AT NO ADDITIONAL COST TO THE OWNER.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH THE LATEST (LATEST EDITION) AND FDOT INDEX 600. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR THE RESETTING OF ALL TRAFFIC CONTROL AND INFORMATION SIGNING REMOVED DURING CONSTRUCTION PERIOD. THE COST SHALL BE INCLUDED IN THE COST FOR MAINTENANCE OF TRAFFIC.
20. EXCAVATED OR OTHER MATERIAL TEMPORARILY STORED ADJACENT TO OR PARTIALLY UPON A ROADWAY PAVEMENT SHALL BE ADEQUATELY MARKED FOR TRAFFIC SAFETY AT ALL TIMES.
21. TEMPORARY ASPHALT PATCH MATERIAL MUST BE ON THE JOB SITE WHENEVER PAVEMENT IS CUT, OR THE INSPECTOR WILL SHUT THE JOB DOWN.
22. CONTRACTOR SHALL MAINTAIN TRAFFIC ACCORDING TO CORRESPONDING TYPICAL CONTROL DETAIL AS OUTLINED IN THE MOPW MANUAL, OR PER THE PERTINENT TYPICAL APPLICATION IN THE MUTCD (LATEST EDITION).
23. CONTRACTOR SHALL MAINTAIN AT LEAST THE FOLLOWING NUMBER OF TRAFFIC LANES FOR CORRESPONDING TIME PERIODS: MONDAY-FRIDAY 7-9 A.M. AND 4-6 P.M.: MAINTAIN ONE LANE FOR TWO-WAY OPERATION WITH FLAGMEN.
24. CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT AND FIRE PROTECTION SERVICES TWENTY-FOUR (24) HOURS IN ADVANCE OF ANY DETOUR IN ACCORDANCE WITH FLORIDA STATUTES.
25. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO MAINTAIN ALL UTILITIES IN OPERATION AT ALL TIMES. THE COST ASSOCIATED WITH MAINTENANCE OF UTILITIES INCLUDING SHOWING, SUPPORTING, SHEET PILING OR ANY OTHER FORM OF SUPPORT REQUIRED TO KEEP UTILITIES IN OPERATION SHALL BE INCLUDED IN THE COST OF THE PIPE.
26. CONTRACTOR TO EXCAVATE FOR STRUCTURES OR PIPE TRENCH AS SHOWN IN THE PLANS AND DETAILS. ALL UNSUITABLE MATERIAL EXCAVATED SHALL BE EXPOSED LEGALLY AND AT A LOCATION SUPPLIED BY THE CONTRACTOR. ALL UNSUITABLE MATERIAL BENEATH PROPOSED STRUCTURES OR PIPES SHALL BE REMOVED AND BACKFILLED WITH CLEAN SUITABLE SOIL, APPROVED BY ENGINEER, TO THE PROPER ELEVATION.
27. SWPPP -- PRIOR TO CONSTRUCTION, CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL DEVICES PER FDOT 2010, INDEX 102.
28. EXISTING DRAINAGE IS TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO USE BEST MANAGEMENT PRACTICES IN MAINTAINING ALL EXISTING DRAINAGE CLEAN AND FREE FROM SOIL EROSION, MILLINGS, AND ANY CONSTRUCTION DEBRIS.

DRAINAGE NOTES

1. WHEN PROPOSED DRAINAGE STRUCTURES ARE TO BE CONNECTED TO EXISTING DRAINAGE PIPE, CONTRACTOR SHALL PROVIDE 5 LF OF PROPOSED PIPE MATCHING THE SIZE OF THE EXISTING PIPE. THE PIPES SHALL BE CONNECTED WITH A CONCRETE COLLAR PER FDOT INDEX 280.
2. COST OF ASPH. APRON TO BE INCLUDED IN THE COST OF THE CATCH BASINS.
3. PROVIDE AND INSTALL A Baffle IN FRONT OF PIPING THAT CONNECT DIRECTLY TO EXFILTRATION TRENCHES. (STRUCTURES S1-7, AND S2-7, 2 TOTAL). SEE DETAIL. COST TO BE INCLUDED IN THE COST OF THE STRUCTURE.



SW 145 TERR (AREA 7)

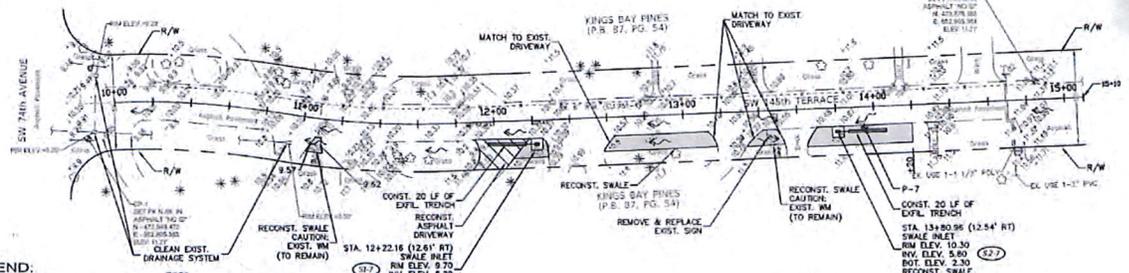
						SW 145 TERR (AREA 7)	GENERAL NOTES



RECONSTRUCT SWALE TYPICAL SECTION
 1. EXCAVATE SWALE, PLACE FOUR (4) BODIES OF CLEAN SOIL, AND 300 W/M ST. AUGUSTINE. SAMPLE OF SOIL TO BE PROVIDED FOR APPROVAL.

RECONSTRUCT DRIVEWAY

1. SAWCUT NEAT STRAIGHT LINES PRIOR TO EXCAVATING.
2. CONCRETE DRAINAGE.
3. BACKFILL WITH CLEAN OUTSIDE FILL, COMPACT TO A MIN OF 95% OF MAX DENSITY.
4. PLACE 8" OF LIME ROCK BASE COMPACTED (LBR-100).
5. PLACE TACK COAT.
6. PLACE 1" OF 5-8 ASPHALT.



- LEGEND:**
- SEWER MANHOLE
 - STORM MANHOLE
 - UNKNOWN MANHOLE
 - WATER VALVE
 - WATER METER
 - CONTROL POINT
 - CATCH BASIN
 - FIRE HYDRANT
 - POWER POLE (CONCRETE)
 - POLE
 - WIRING PULL BOX
 - SEWER CABINET
 - BOARD POST
 - UNDERGROUND ELECTRIC
 - WIRE
 - WIRE PALM
 - ORNAMENTAL PLANT
 - OUT ANCHOR
 - LIGHT POLE
 - MAIL BOX
 - SPOT ELEVATION
 - WATER COLUMN SIGN
 - ELECTRIC GUY
 - FLOOR LIGHT
 - SWALE
 - DRIVEWAY RECONSTRUCTION
 - UNDERGROUND ELECTRIC
 - FLOW DIRECTION
 - FLOW TEST
 - OVERHEAD UTILITY LINE
 - FENCE
 - RIGHT OF WAY LINE
 - PAVEMENT MARKS
 - VEGETATION LINE

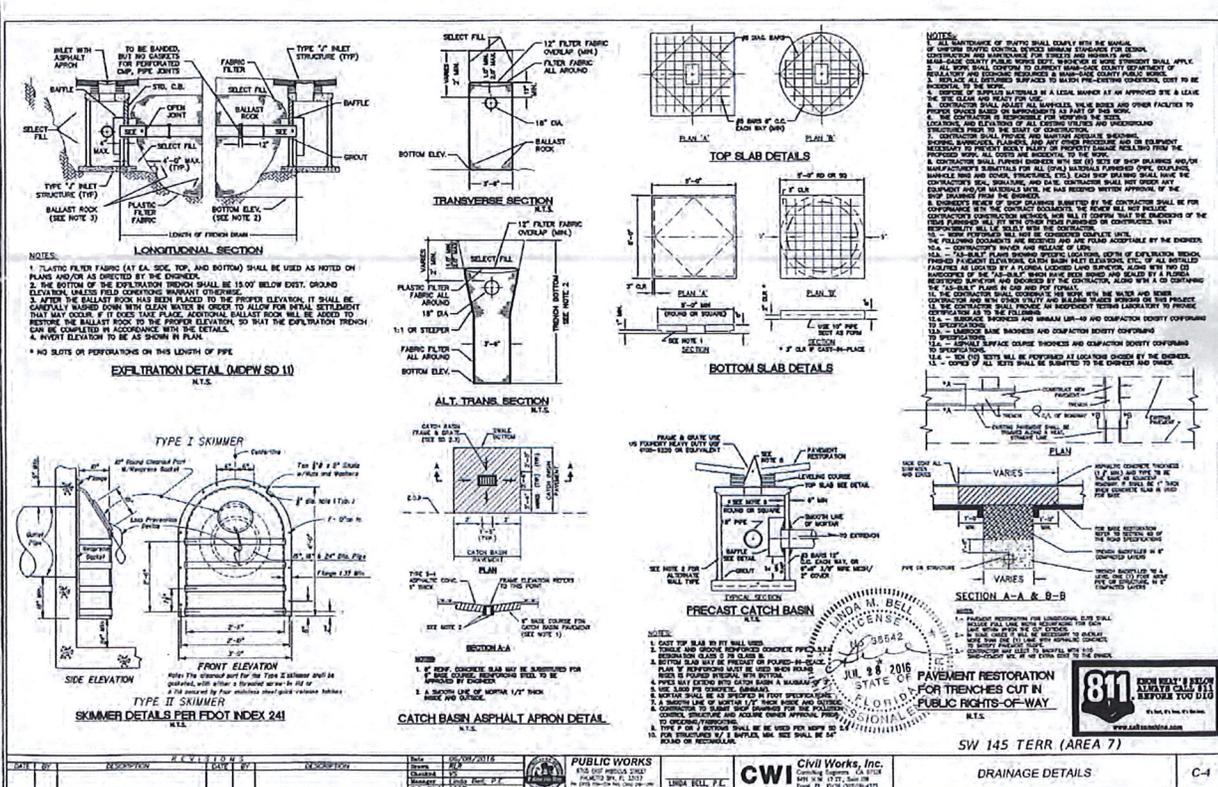


DATE	BY	REVISION									

PUBLIC WORKS
 870 EAST ANCHOR STREET
 PLAINFIELD, NJ 07068
 PH: 908 766 1000 FAX: 908 766 1001
 WWW.PUBLICWORKSINC.COM

Civil Works, Inc.
 Consulting Engineers - CA #1724
 895 N.W. 17th St., Suite 100
 Deerfield Beach, FL 33442-4128

SW 145 TERR (AREA 7)
DRAINAGE PLAN
 C-3



DATE	DESCRIPTION	BY	DATE	DESCRIPTION	BY

	PUBLIC WORKS 810 EAST WINDY HILL PALM BEACH, FL 33411 TEL: 561-832-1100		Civil Works, Inc. 810 EAST WINDY HILL PALM BEACH, FL 33411 TEL: 561-832-1100	DRAINAGE DETAILS	C-4
	DATE: 06/20/2016 DRAWN BY: JLD CHECKED BY: JLD PROJECT: SW 145 TERR, AREA 7		DATE: 06/20/2016 DRAWN BY: JLD CHECKED BY: JLD PROJECT: SW 145 TERR, AREA 7		

