

**KEY LARGO FIRE RESCUE & EMERGENCY MEDICAL SERVICES DISTRICT
P.O. Box 371023
KEY LARGO, FLORIDA 33037**

Invitation to Bid No. 21-001

FIRE HYDRANT INSTALLATION

Submissions must be in an envelope separate from any express mail or courier envelopes.

Be sure to include the name of the company submitting the proposal where requested.

Cut along the outer border and affix this label to your sealed envelope to identify it as a “Sealed Proposal”.

**SEALED PROPOSAL •
DO NOT OPEN**

SOLICITATION NO.: 21-001

SOLICITATION TITLE: FIRE HYDRANT INSTALLATION

SUBMISSION DUE DATE: October 30, 2020 by 4:00 p.m.

SUBMITTED BY:

(Name of Company)

DELIVER TO:

Vicky Fay, KLFR&EMS District Clerk c/o
Vernis & Bowling of the Florida Keys, P.A.
Islamorada Professional Center, 3rd Floor
81990 Overseas Highway
Islamorada, Florida 33036

INVITATION TO BID

NOTICE IS HEREBY GIVEN TO PROSPECTIVE PROPOSERS that on MONDAY, NOVEMBER 2, 2020 at 9:00 a.m. the Key Largo Fire Rescue & Emergency Medical Services District will open sealed proposals for the following:

INVITATION TO BID NO. 21-001 FIRE HYDRANT INSTALLATION

Sealed proposals for the installation of Fire Hydrants in various locations in Key Largo, Florida will be received by the Key Largo Fire Rescue & Emergency Medical Services District ("District") by Vicky Fay, District Clerk, care of Vernis and Bowling of the Florida Keys, Islamorada Professional Center, 3rd Floor, 81990 Overseas Highway, Islamorada, Florida 33036, until 4:00 p.m. local time on the 30th day of October, 2020, at 4:00 p.m. Any bids received after the time and date specified will not be considered, remain unopened, and become the property of the District.

The District seeks a Contractor to install 14 fire hydrants in Key Largo, Florida. The locations for the installation of the fire hydrants are set forth in the attached Appendices A and B. The installation of additional fire hydrants may be requested at a later date but it should not be included in the bid proposal.

In order to perform public work, the successful bidder shall hold or obtain such Contractors and Business Licenses as required by State Statutes.

The Governing Board of Commissioners of the Key Largo Fire Rescue & Emergency Medical Services District reserves the right to reject any and all bids, in whole or in part, to waive any irregularities or informalities in any bid, and to award to any party considered in the best interest of the District.

REQUESTING AGENCY:

Key Largo Fire Rescue & Emergency Medical Services District
P.O. Box 371023, Key Largo, FL 33037

I. Instructions for Bids

Submit an original and at least three copies of the bid in a sealed envelope separate from any express mail or courier envelopes. The proposal should be mailed or delivered to the following address to be received no later than OCTOBER 30, 2020 4:00 pm (EST):

Vicky Fay, District Clerk c/o
VERNIS & BOWLING OF THE FLORIDA KEYS, P.A.
(SEALED BID – DO NOT OPEN)
Islamorada Professional Center, 3rd Floor
81990 Overseas Highway
Islamorada, Florida 33036

Any questions regarding the ITB proposal or requirements should be directed to Gaelan Jones or Dirk Smits no later than OCTOBER 21, 2020 by 4:00 p.m. All questions must be submitted in writing, via email to: gjones@florida-law.com or dsmits@florida-law.com.

Answers to all questions received will be posted on the District website for the benefit of all interested parties by OCTOBER 26, 2020 at 6:00 p.m. No phone calls will be accepted. Bidders may not communicate with the District Board Commissioners regarding their bids, and are cautioned against non-written communication with District staff or Key Largo Fire Department personnel during the 'quiet period'.

II. Evaluation Procedure

The District Selection Committee will evaluate and rank the proposals. Any and all questions should be made through Gaelan Jones or Dirk Smits at Vernis & Bowling of the Florida Keys. Any attempts to lobby or persuade through other channels may result in disqualification. Among the factors to be considered by the committee in evaluating the proposals are:

1. Fire hydrant installation experience;
2. Experience and physical presence in Monroe County, FL;
3. Ability and experience of personnel to be assigned to the services;
4. Credibility and response of client references;
5. Availability for advice and guidance;
6. Suitability of proposal to meet the needs of the District.

Additional criteria which may be used by the District include; size of company, the District's past experience with company, financial status of company, capabilities of management and employees, labor relations, bonding capacity, reputation of company among its peers, location of company, professional credentials, service after sale, customer references, and the existence of a Drug Free Workplace Program.

III. Statement of Purpose / Scope

The District is seeking proposals from contractors capable of installing 14 fire hydrants in Key Largo, Florida at the locations identified in **attached Appendix A**.

The contract term is anticipated to begin on or before DECEMBER 15, 2020.

The work to be performed under the contract comprises of the general construction and installation of 14 fire hydrants. General Notes and Specifications for the construction and installation of the fire hydrants can be found on the document titled Fire Hydrant Details Key Largo Fire District that is included in attached Appendix A. All hydrants are numbered and shall be installed in the order of priority according to the District. The contractor shall provide and pay for all labor, material, tools, construction equipment, machinery and other facilities and services necessary for the proper execution and completion of the work.

IV. Minimum Qualifications

The prospective bidders must meet the statutorily prescribed requirements before the Contract will be awarded by the District.

The District reserves the right before awarding the Contract to require a Bidder to submit such evidence of their qualifications as it may deem necessary, and may consider any evidence available to the District of the financial, technical, and other qualifications and abilities of a Bidder. The Bidder must submit in letter form, with the Proposal, a statement of their qualifications to perform in a satisfactory manner, and within the time specified, and in fulfillment of all applicable provisions of the Contract Documents, all of the work to which their bid pertain. Bidder must submit information as to the following Qualification Requirements:

- A. The Bidder has the authorization to conduct business and holds at a minimum, an Underground Utility Contractor's license for the installation of water distribution systems, water main extensions or similar type work or a General Contractor's license for construction of building structures, and valid certifications of competency of

qualifications, (issued by the public agencies having jurisdiction of the area where the project is located) required to perform the work proposed by these Contract Documents.

- B. The Bidder has the financial resources deemed necessary to permit the project to proceed without interruption and complete as specified herein.
- C. The Bidder has a well-trained and competent organization which has done work of similar character and magnitude. An organizational structure as intended, including total manpower, to complete the project will be submitted with the Bidder's proposal.
- D. The Bidder will have adequate equipment available to do the work at the proper time. A complete list of all equipment intended for use on this project will be submitted with the Bidder's proposal.
- E. The Bidder has ample repair parts and supplies to maintain all District facilities properly, and with a minimum of delay.

The Contract will be awarded only to a Bidder who, in the opinion of the District, is fully qualified to perform the work proposed by these Contract Documents.

At the request of a Bidding Contractor, the District may accept evidence of qualification with other agencies of the State of Florida in lieu of all or a portion of the above Qualification Requirements.

V. Bidder's Understanding

Each Bidder must inform itself of the conditions relating to the execution of the work, and it is assumed that Bidder will inspect the site and make himself thoroughly familiar with all of the Contract Documents. Failure to do so will not relieve the successful Bidder of Bidder's obligation to enter into a Contract and complete the contemplated work in strict accordance with the Contract Documents. It shall be the Bidder's obligation to verify for itself and to Bidder's complete satisfaction all information concerning site and subsurface conditions. Each Bidder shall inform himself of, and the Bidder awarded a Contract shall comply with all Federal, State, and local laws, statues, and ordinances relative to the execution of the work. This requirement includes, but is not

limited to, applicable regulations concerning minimum wage rates, nondiscrimination in the employment of labor, protection of public and employee safety and health, environmental protection, the protection of natural resources, fire protection, burning and nonburning requirements, permits, fees, maintenance of traffic and similar subjects.

VI. Bid Security

Proposals must be accompanied by, a certified check, or cashier's check drawn on any State or National Bank, or a bid bond issued by a Surety authorized to issue such bonds in the State where the work is located, in the amount of 5 percent of the total amount of the proposal submitted. This bid security shall be given as a guarantee that the Bidder will execute the attached Contract and furnish properly executed Performance and Payment Bonds (If Applicable), each in the full amount of the Contract price within the time specified.

The Attorney-in-Fact who executes this bond in behalf of the Surety must attach a notarized copy of his/her power-of-attorney as evidence of his authority to bind the Surety on the date of execution of the bond. Where State Statute requires, certification by a resident agent shall also be provided.

If the Bidder elects to furnish a Bid Bond, Bidder shall use the Bid Bond form bound herewith, or one conforming substantially thereto in form and content.

VII. Return of Bid Security

Within 45 days after the award of the Contract, the District will return the bid securities to all Bidders whose Proposals are not to be further considered in awarding the Contract. Retained bid securities will be held until the Contract has been finally executed, after which all bid securities, other than Bidders' bonds and any guarantees which have been forfeited, will be returned to the respective Bidders whose Proposals they accompanied.

VIII. General Requirements

1.1 WORK COVERED BY CONTRACT DOCUMENTS

- A. The work of this contract comprises of the construction and installation of 14 fire hydrants. The location of the work is in Key Largo, Florida. The specific locations of the 14 fire hydrants are located in attached Appendix A. **All hydrants**

are numbered and shall be installed in the order of priority set forth in Appendix A. Installation and priority will be followed based on available funds.

- B. Except as specifically noted, the Contractor shall provide and pay for:
 - 1. Labor, materials, tools, construction equipment, and machinery.
 - 2. Other facilities and services necessary for proper execution and completion of the work.
- C. The Contractor shall comply with all codes, ordinances, rules, regulations, orders, and other legal requirements of the District, Monroe County, FDOT, DEP, and the Army Corps of Engineers.

1.2 LOCATIONS OF UTILITIES

- A. Information shown on the drawings as to the location of existing utilities has been prepared from the most reliable data available to the District; however, this information is not guaranteed and it shall be the Contractor's responsibility to determine the location, character, and depth of any existing utilities. Extreme caution shall be exercised to eliminate any possibility of any damage to utilities resulting from Contractor's activities. The Contractor shall be fully responsible for any damage to utilities resulting from Contractor's operation.
- B. The Contractor shall determine any conflicts between existing utilities, or other structures or facilities, with the alignment or gradient of the proposed work, and report such conflicts to the District, sufficiently in advance of Contractor's construction operations so that proper adjustments in the alignment or gradient of the proposed work may be planned by the District to avoid such conflicts. The District shall not be liable for any cost or added expenses to the Contractor for delays, or for the necessary adjustment of previously installed work to avoid such conflicts, due to the Contractor's failure to advise the District of such conflicts adequately in advance of Contractor's construction operations.

- C. The Contractor shall excavate and uncover all existing water mains to determine the exact elevations, locations, type, and size of the mains and service lines sufficiently in advance of Contractor's work, and prior to submittal of applicable shop drawings, to ensure that all required materials are available when connections to the existing mains and services are to be made.
- D. The Contractor shall be responsible for furnishing such fittings, couplings, adaptors, and specials as required to make connections to the existing water mains, services, and meters in accordance with the details shown on the drawings. No claims for delay or extra cost will be allowed due to changes in the location, elevation, type, or size of the main or service line from those shown on the Drawings.

1.3 CONSTRUCTION SEQUENCE

- A. All work is to be performed in such a manner and sequence that interruptions of service to the existing customers shall be kept at a minimum. The Contractor shall fully coordinate and obtain the approval of the District and the Florida Keys Aqueduct Authority of Contractor's proposed sequence of operations for making connections to the existing water mains and services.
- B. All existing water mains and services shall remain in service until the new pipe and services have been satisfactorily installed, including flushing, pigging, pressure testing, disinfection, and obtaining bacteriological clearances. The Contractor may flush, pig, test, and disinfect portions of the work prior to completion of all the proposed new construction. The new water lines and meter services will be pressure tested and disinfected together as one system or unit up to and including the lockable curb or meter stop. The Contractor shall provide the customer with a written notice 48 hours prior to the interruption of service in a method approved by the District.
- C. The Contractor shall coordinate with the Florida Keys Aqueduct Authority to ensure temporary service to customers if the integrity of the existing mains cannot be

maintained. Temporary mains shall be considered incidental and costs for such must be included in the bid price for new water main work.

- D. In the event that any unforeseen circumstances require an alteration to the work, the contractor shall immediately notify the District and submit a formal Change Order to be approved by the District before undertaking such work. The District must authorize any Change Orders prior to the commencement of any additional work. Quotations for alterations to work shall include substantiating documentation with an itemized breakdown of Contractor and Subcontractor costs, including labor, material, rentals, approved services, overhead and profit. The District may require detailed data in order to substantiate the reasonableness of the proposed costs.

Any compensation paid in conjunction with the terms of the Change Order shall comprise total compensation due the Contractor for the work or alteration defined in the Change Order. By signing the Change Order, the Contractor acknowledges that the stipulated compensation includes payment for the interruption of schedules, extended overhead, delay, disruption, inefficiency, or any other impact claim or ripple effect, and by such signing specifically waives any reservation or claim for additional compensation in respect to the subject Change Order.

- E. Prior to the commencement of any work on private property, the Contractor shall contact the occupants of the home or establishment to inform them of the work which must be done, and provide them with at least 48 hours of advance notice of any interruption of water service. The Contractor shall inform the occupants as to when and approximately how long the water will be shut off. Every effort shall be made to minimize the inconvenience to the customers, and in no event shall the time of interruption of water service be in excess of two hours.

1.4 PROPERTY OWNER'S APPROVAL

If not previously acquired by District, the Contractor shall be

responsible for obtaining the written authorization from each property owner to perform work on their property. The District will assist the Contractor in obtaining written authorization from the property owner in the event the Contractor is unable to obtain the written authorization. Work shall not commence on any private property until the owner's authorization for that property is obtained.

1.5 SILTATION AND BANK EROSION

The Contractor shall take adequate precautions as directed by District or regulatory agencies to minimize siltation and bank erosion in the vicinity of wetlands or coastline, in discharging well point systems, or during other construction activities (including flushing and disinfection of mains).

1.6 STORAGE OF MATERIALS

- A. Suitable storage facilities shall be furnished by the Contractor. All materials, supplies and equipment intended for use in the work shall be suitably stored by the Contractor to prevent damage from exposure, admixture with foreign substances, or vandalism or other cause. The District will refuse to accept, or sample for testing, materials, supplies or equipment that have been improperly stored, as determined by the District. Materials found unfit for use shall not be incorporated in the work and shall immediately be removed from the construction or storage site. Delivered materials shall be stored in a manner acceptable to the District before any payment for same will be made. Materials may be strung out along the line of construction as approved by the FDOT, the District, or Monroe County.
- B. When storing materials on private property, the Contractor shall submit in writing the property owner's authorization to do so and provide any and all permits that may be required at no expense to the District.

1.7 PRESERVATION OF PROPERTY

The Contractor shall preserve from damage all property along the line of the work, or which is in the vicinity of or is in any way

affected by the work, the removal or destruction of which is not called for by the drawings. Wherever such property is damaged due to the activities of the Contractor, it shall be immediately restored to its original condition by the Contractor at no cost to the District.

1.8 CLEAN UP

- A. The Contractor shall keep the construction site free of rubbish and other materials and restore to their original conditions those portions of the site not designated for the alteration by the Contract Documents. Clean up and restoration shall be accomplished daily throughout the contract period and in such a manner as to maintain a minimum of nuisance and interference to the general public and residents in the vicinity of the work. The Contractor shall also remove, when no longer needed, all temporary structures and equipment used in Contractor's operation. It is the intent of this Specification that the construction areas and those other areas not designated for alteration by the Contract Documents shall be immediately restored to original condition. All clean-up is subject to approval by the District and FDOT, and/or Monroe County.
- B. When water service has been restored through new service lines, there shall be no delay in removal of old meter boxes and service pipe, and the restoration of grounds. As soon as possible, the premises and grounds shall be restored to conditions existing prior to the pipe installation, as far as practicable. Any holes or depressions, caused by the Contractor's work, shall be filled with sand or other suitable fill material, and all surfaces shall be left smooth. Any damage to buildings, shrubs, trees, plantings or paving shall be repaired, and any damaged areas of lawn shall be re-sodded. The Contractor shall answer to any complaints of occupants or property owners. All new or existing meter boxes will be installed or reinstalled such that the top is flush with existing grade. On-site customer service pipe shall be buried appropriately.

1.9 PUBLIC SAFETY AND CONVENIENCE

The Contractor shall at all times so conduct work as to ensure the

least possible obstruction to traffic, or inconvenience to the general public and residents in the vicinity of the work. No road or street shall be closed to the public, except with the permission of the District, Monroe County, FDOT, Police, and Fire Department. Fire hydrants on or adjacent to the work shall be kept accessible. Provisions shall be made by the Contractor to ensure public access to sidewalks, and the proper functioning of all gutters, sewer inlets, drainage ditches, and irrigation ditches. No open excavation shall be left overnight. All open excavation within the roadway shall be backfilled and a temporary asphalt patch applied prior to darkness each day. A temporary cold asphalt patch is acceptable.

1.10 SAFETY AND OSHA COMPLIANCE

- A. The Contractor shall comply in all respects with all Federal, State and Local safety and health regulations. Copies of the Federal regulations may be obtained from the U.S. Department of Labor, Occupation Safety and Health Administration (OSHA), Washington, DC 20210 or their regional offices.
- B. The Contractor shall comply in all respects with the applicable Workman's Compensation Law.

1.11 CONTRACTOR'S USE OF PREMISES

- A. Coordinate use of premises under direction of the District.
- B. Assume full responsibility for the protection and safe keeping of equipment and materials stored on the site.
- C. Move any stored products, under Contractor's control, which interfere with operations of the District or separate Contractor.

1.12 SALVABLE MATERIALS

All salvable pipe fittings, valve boxes, or other miscellaneous materials removed during construction and not used in the work shall be cleaned and delivered to the District, at the Contractor's expense, and shall remain the property of the District. All other materials shall be disposed of by the Contractor at Contractor's own expense. No

separate payment for this work shall be allowed.

1.13 PRE-OPERATIONAL TESTING

After each hydrant is installed, the Contractor shall inform the District. The District will test each hydrant to verify that it is fully operational and meets with the District's approval.

IX. Proposal Format & Proposer Information

In order to simplify the review process and to obtain the maximum degree of comparability, proposers should present their proposals in essentially the following manner. The following outline suggests how a proposal is to be organized to include all the information called for in the RFP. Proposers are encouraged to submit suggestions on methods not included in the proposal requirements and/or specifications that meet or exceed the needs of the District.

- 1) **Title Page:** Show the RFP subject, the name of the proposer's company, local address, telephone number, name of the contact person, e-mail address, and date.
- 2) **Letter of Transmittal:** Please limit to no more than two pages.
 - a) Briefly state the proposer's understanding of the work to be done and make a positive commitment to perform the work.
 - b) Give the names of the persons who will be authorized to make representations for the proposers, their titles, addresses and telephone numbers.
- 3) **Profile of the Proposer:**
 - a) State whether the company is local, national or international.
 - b) Give the location of the office(s) from which the work is to be done and the number of partners, managers, supervisors, seniors, and other professional staff employed at that office(s).
- 4) **Summary of the Proposer's Qualifications:**
 - a) Identify the personnel who will be providing the services requested. Provide a brief summary or resume for each supervisory person, employee and/or staff, to be assigned to provide the services. (Additional resumes may be included as an appendix.)
 - b) Describe recent experience regarding the provision of services to governmental entities and/or organizations, citing specific engagements.
 - c) The Proposer should supply corporate background information such as a brief corporate history, and a list of corporate references (Dunn & Bradstreet listing, et al).

- d) Any certificates, certifications, licenses or other qualifications.
- 5) **Cost of Services and Materials:** Include in this section the detailed breakdown of the cost of services and materials. Proposers are encouraged to provide hourly rates for contractors, employees, and subcontractors as may be applicable to the Contractor's Company. If items are 'flat fee' or fixed please specify such services.
- 6) **Subcontracting:** The Proposer must describe in their proposal, all responsibilities that the Proposer anticipates assigning or subcontracting, identify all the subcontractors and also describe how the Proposer will manage these subcontractors. The Proposer will be held directly responsible and liable for the actions of all of its subcontractors and the actions of its subcontractors' employees.

| Proposal Details: Provide information and the ability and method of the proposer's method of delivery of the services, include as applicable any accounting or financial systems, innovative techniques or technology used in the provision of services. Schedule of Events – services. ITB FY 2020 - 2021 | | |
|--|-------------|---|
| Date | Time | Action |
| 09/30/2020 | | Release of Solicitation/Legal Notice |
| 10/21/2020 | 4:00 PM | Last Day for Submission of Written Questions |
| 10/26/2020 | 6:00 PM | Post Answers to Written Questions |
| 10/30/2020 | 4:00 PM | Proposals Due |
| 11/02/2020 | 9:00 AM | Bid Opening - KLVFD Station 24, Key Largo, FL |
| 11/16/2020 | 9:00 AM | Bid Committee Review & Ranking |
| 12/05/2020 | | Notice of Intent |
| 12/14/2020 | | Board Meeting (Award Recommendation) |
| 12/15/2020 | | Contract Effective Date |

- 7) **Additional Data:** Include in this section any additional data which the proposer feels will assist the District Selection Committee in the selection process.

X. Additional Information

Evaluation & Selection Process: Following the opening of the RFP package, the contents will be reviewed for compliance of eligibility requirements, completeness of submission in terms of the specification set forth in this document. This evaluation will be scored based on the Selection Criteria/Score Sheet labeled as Appendix .B.

Contract: Proposers will be required to enter into a written contract as supplied by the District. If a contract for delivery of the service or goods is unable to be completed within a reasonable amount of time the District may enter into contract negotiation with the Proposer ranked second. This process may continue until an agreement is reached. The District may also enter into a contract with one (1) or more Proposers.

XI. Conditions and Limitations

1. The District reserves the right to reject any and all proposals, to waive any irregularities or informality, and to accept or reject any items or combination of items.
2. The District may consider all proposals and reserves the right to award the contract(s) in the best interest of the District Board.
3. The District will not reimburse proposers for any costs associated with the preparation and submittal of any proposal, or for any travel and per diem costs incurred.
4. Proposer acknowledges that all information contained within their proposal is part of the public domain as defined by the State of Florida Public Records Law.
5. Proposers, their agents and/or associates shall refrain from contacting or soliciting any official of the Key Largo Fire Rescue & Emergency Medical Services District or District Board member regarding this proposal during the selection process. Failure to comply with this provision may result in disqualification of the proposer.
6. The proposal and the related responses of the selected proposer will by reference become part of the formal agreement between the selected proposer and the District Board.
7. The District and the selected proposer(s) will negotiate a contract or contracts as to terms and conditions. In the event an agreement cannot be reached with the selected proposer in a timely manner, the District reserves the right to select an alternative proposer.

8. The District reserves the right to terminate any contract resulting from this proposal at any time for convenience, upon giving thirty (30) days prior written notice to the other party.
9. The Key Largo Fire Rescue & Emergency Medical Services District is an independent special taxing district. As such, the Consultants' Competitive Negotiation Act (CCNA) and Chapter 287 concerning competitive solicitation of construction projects apply to the District. Absent legislative requirements, other statutes, such as 287.057 regarding procurement of commodities or contractual services and Ch. 120, F.S., the Administrative Procedures Act may not apply. As such, the District Board may waive statutory requirements that do not apply to the District if the District Board finds the procurement was made in a fair and open process and that all bidders had an equal opportunity to present bids.
10. Non-Discrimination: There shall be no discrimination as to race, sex, color creed, or national origin in operations conducted under this contract.
11. Selling, Transferring or Assigning Contract: No contract awarded under these terms, conditions and specification shall be sold, transferred or assigned without the written consent of the District.
12. Drug Free Workplace: Pursuant to §287.087, F.S., whenever two or more bids, proposals or replies are equal with respect to price, quality, and service, a bid or proposal received from a business that certifies that it has implemented a drug-free workplace program may be given preference in the award process.

Appendix A – FIRE HYDRANT PRIORITY & LOCATIONS

ITB 21-001 Phase 9 Fire Hydrant Location List - September 30, 2020

| FY 20-21 | | | Phase 9 Hydrant location | Priority | Comments | |
|-----------------|--|--|--|-----------------|--|--|
| 20-01 | | | Kay Drive & West Avenue A | 1 | | |
| 20-02 | | | Samson Road | 2 | (Entrance next to KMART) | |
| 20-03 | | | South Diamond Ave. & South Ruby Dr. | 7 | | |
| 20-04 | | | South Diamond Ave. & South Jade Dr. | 8 | | |
| 20-05 | | | Tropical Dr. | 10 | (By the clubhouse) | |
| 20-06 | | | Sunset Rd. & Sunset Ct. MM95 | 9 | (Middle) | |
| 20-07 | | | Sunset Rd. & North Bay Harbor Dr. | 11 | (Middle) | |
| 20-08 | | | Sunset Rd. & South Bay Harbor Dr. | 12 | (Middle) | |
| 20-09 | | | Sunset Rd & North Bay Harbor | 13 | (Corner of Sunset Point Park) | |
| 20-10 | | | 105700 Overseas Highway | 4 | (In front of Suburban Propane) | |
| 20-11 | | | East Shore Dr. | 6 | (Entrance of Sanctuary Key Largo MM100) | |
| 20-12 | | | Oz Moody CCOP MM106 | 5 | (Ocean Bay (Entrance of Bayside Inn) | |
| 20-13 | | | 99600 Overseas Highway Southbound | 3 | | |
| 20-14 | | | Palm Dr. & Buttonwood Shores Dr. MM 99 | 14 | | |

Appendix A

(Appendix A Drawings follow Appendix B)

Appendix B

***Selection Criteria
RFP No. 21-001
FIRE HYDRANT INSTALLATION
(Bid Review Committee Use Only)***

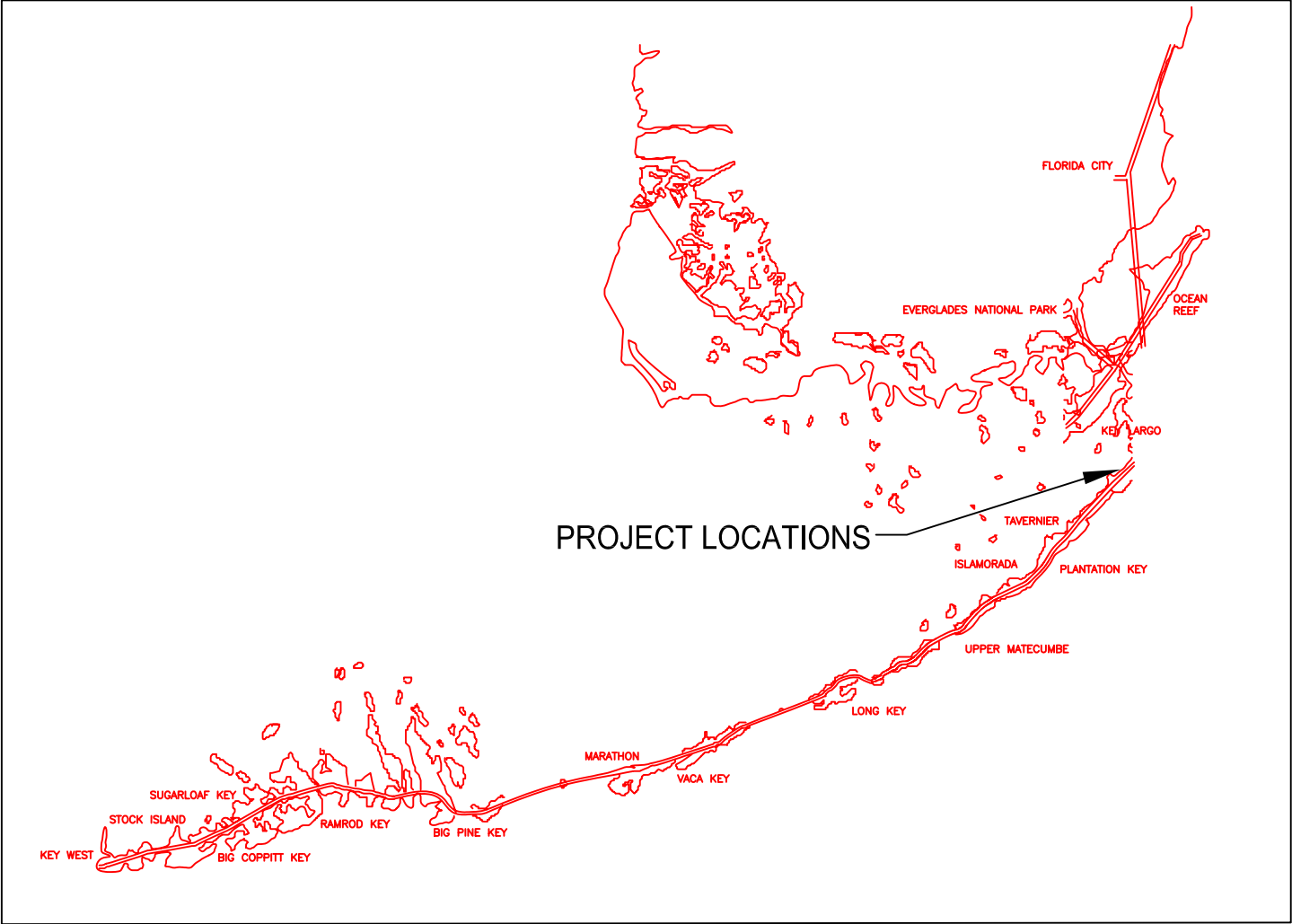
Proposer: _____

Date: _____

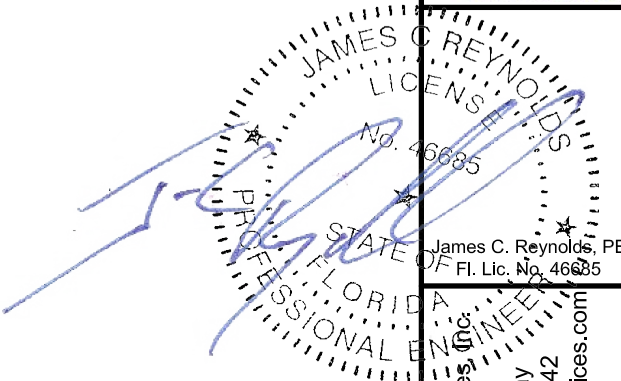
| Selection Criteria Value Awarded | Point Value Max. | Point |
|--|-------------------------|--------------|
| 1. Cost of Services | 30 | _____ |
| 2. Ability and suitability of proposal to meet the needs of the District | 25 | _____ |
| 3. Fire hydrant installation experience | 15 | _____ |
| 4. Company background, experience and location. | 10 | _____ |
| 5. Professional credentials, references and qualifications | 10 | _____ |
| 6. Services that exceed specification and add quality to proposal | 10 | _____ |

Total: _____

Key Largo Fire Hydrants Installation Key Largo, Florida Various Subdivisions



LOCATION MAP



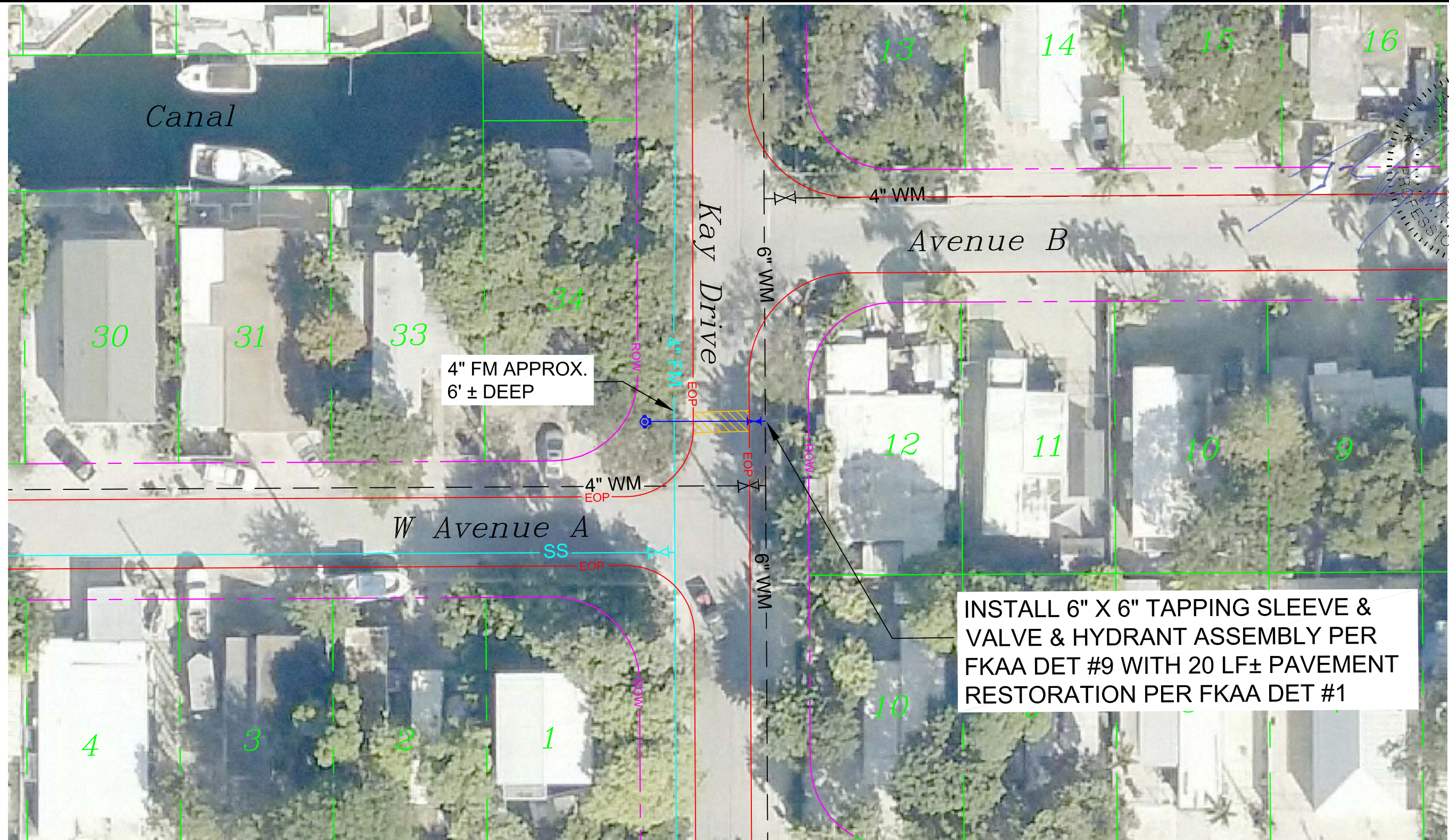
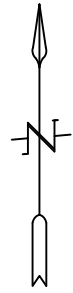
Reynolds Engineering Services, Inc.
Fl. C.A. No. 26597
24478 Overseas Highway
Summerland Key, Fl. 33042
Jim@ReynoldsEngineeringServices.com
305-394-5987

Revisions:
No.
Date:
Comments:

Title:
**Key Largo Fire Hydrants
Phase 9
Key Largo, Florida**

Date:
9/12/2020

Page:
Cover



INSTALL 6" X 6" TAPPING SLEEVE & VALVE & HYDRANT ASSEMBLY PER FKAA DET #9 WITH 20 LF± PAVEMENT RESTORATION PER FKAA DET #1

Scale: 1:30



NOTE:
ALL WORK MUST CONFORM TO FKAA MINIMUM DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS.

James C. Reynolds
Professional Engineer
FL Lic. No. 46685

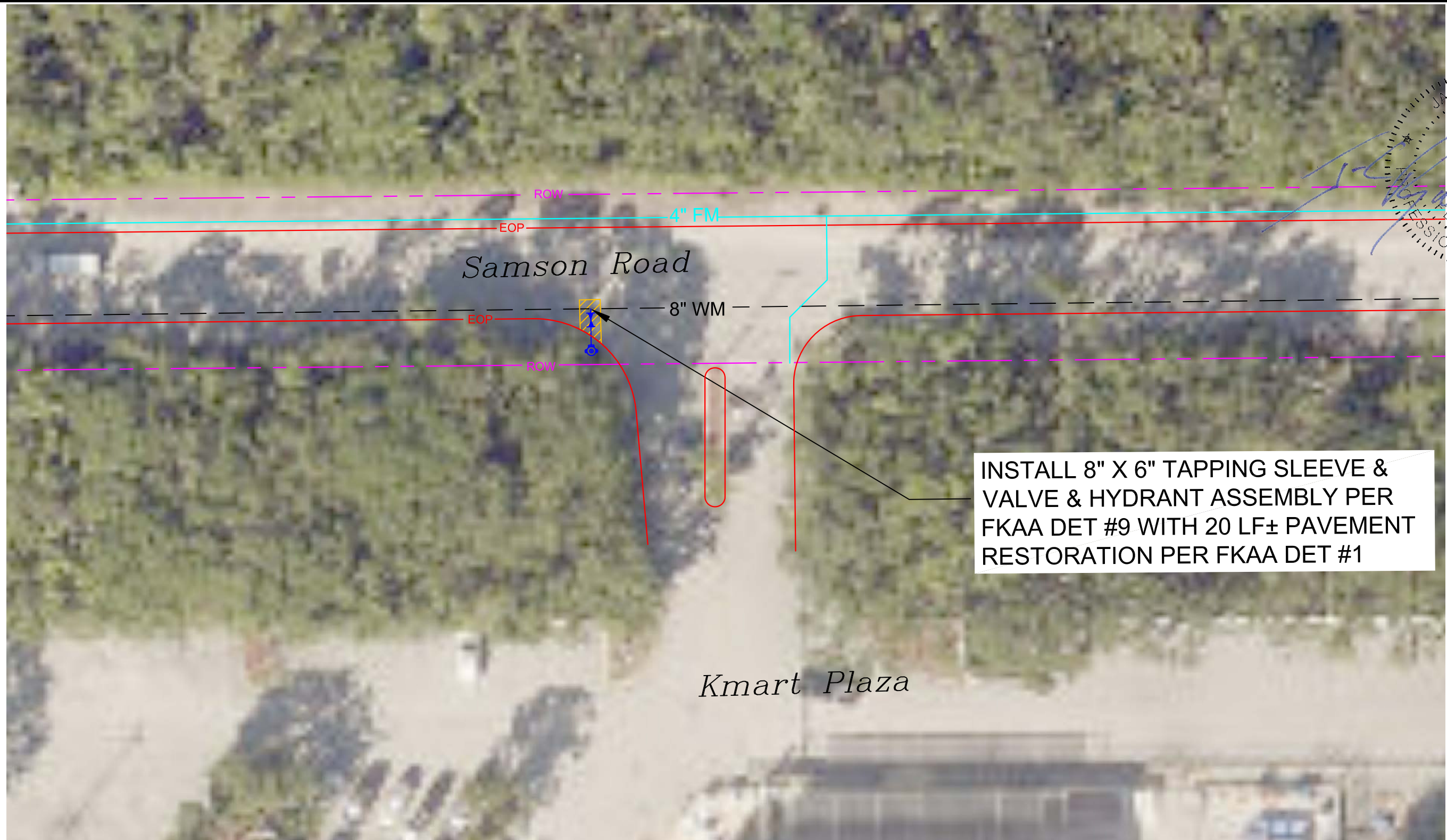
Reynolds Engineering Services, Inc.
Fl. C.A. No. 26597
24478 Overseas Highway
Summerland Key, Fl. 33042
Jim@ReynoldsEngineeringServices.com
305-394-5987

Revisions:
Date: 2/3/20
Comments: FDOT Revisions.

Title:
Fire Hydrant-#20-01
Kay Drive & W Avenue A
Key Largo, Florida

Date:
9/12/2020

Page:
1 of 13

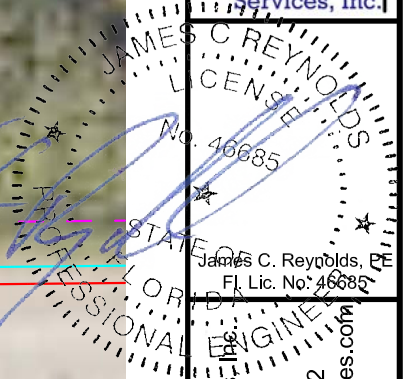


INSTALL 8" X 6" TAPPING SLEEVE & VALVE & HYDRANT ASSEMBLY PER FCAA DET #9 WITH 20 LF± PAVEMENT RESTORATION PER FCAA DET #1

Scale: 1:30



NOTE:
ALL WORK MUST CONFORM TO FCAA MINIMUM DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS.



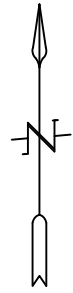
Reynolds Engineering Services, Inc.
Fl. C.A. No. 26597
24478 Overseas Highway
Summerland Key, Fl. 33042
Jim@ReynoldsEngineeringServices.com
305-394-5987

Revisions:
Date: 07/18/20
Comments: New location

Title:
Fire Hydrant-#20-02
Samson Road(Kmart)
Key Largo, Florida

Date:
9/12/2020

Page:
2 of 13

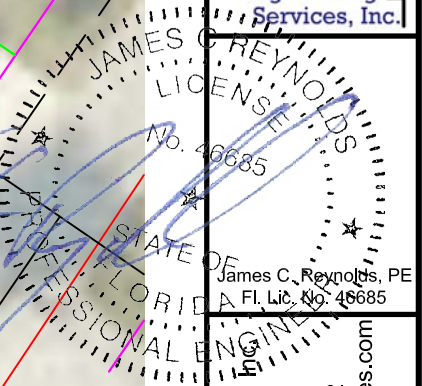


Scale: 1:30



NOTE:
ALL WORK MUST CONFORM TO FKA MINIMUM DESIGN AND
CONSTRUCTION STANDARDS AND SPECIFICATIONS.

WASTEWATER IS PRIVATE IN THIS SUBDIVISION.
LOCATIONS UNKNOWN AND MUST BE FIELD VERIFIED.



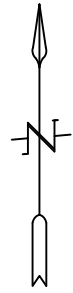
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Fl. C.A. No. 26597
24478 Overseas Highway
Summerland Key, Fl. 33042
Jim@ReynoldsEngineeringServices.com
305-394-5987

Revisions:
No.
Date:
Comments:

Title:
Fire Hydrants-#20-03 & #20-04
S. Diamond Ave & S. Ruby Dr
S. Diamond Ave & S. Jade Dr
Key Largo, Florida

Date:
9/12/2020

Page:
3 of 13

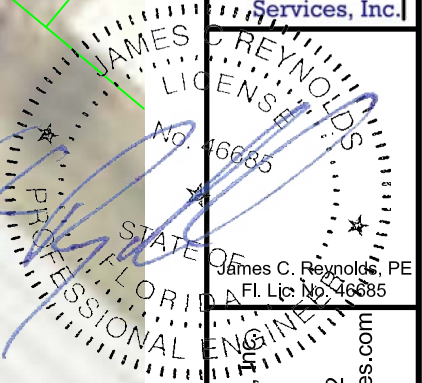


Scale: 1:40



NOTE:
ALL WORK MUST CONFORM TO FKA A MINIMUM DESIGN AND
CONSTRUCTION STANDARDS AND SPECIFICATIONS.

WASTEWATER IS PRIVATE IN THIS SUBDIVISION.
LOCATIONS UNKNOWN AND MUST BE FIELD VERIFIED.



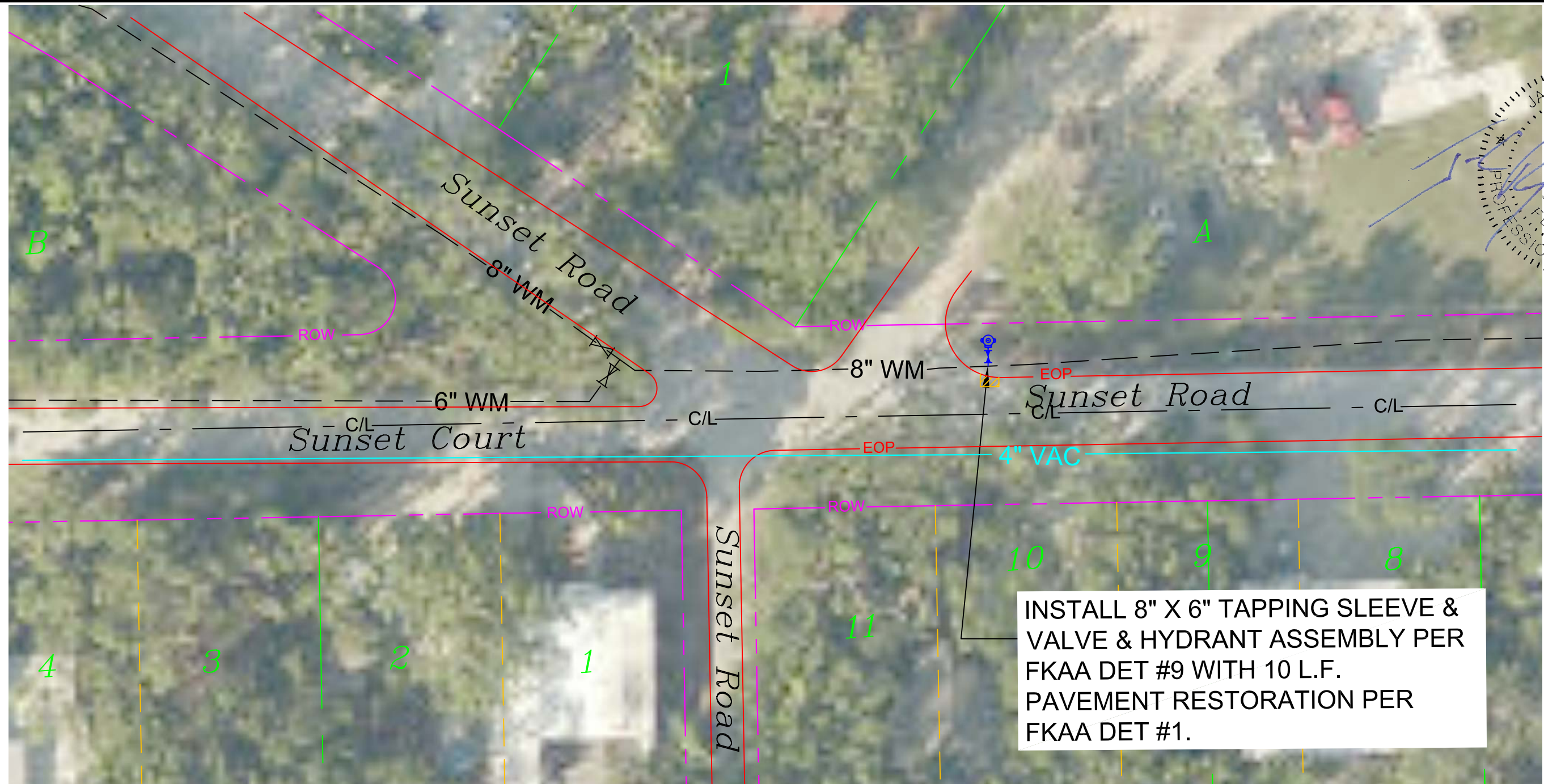
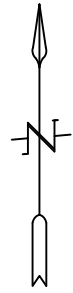
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Fl. C.A. No. 26597
24478 Overseas Highway
Summerland Key, Fl. 33042
Jim@ReynoldsEngineeringServices.com
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Revisions:
No.
Date:
Comments:

Title: Fire Hydrant-#20-05(Clubhouse)
Tropical Drive
Key Largo, Florida

Date:
9/12/2020

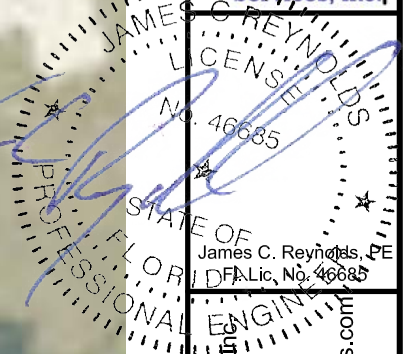
Page:
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Scale: 1:30



NOTE:
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Jim@ReynoldsEngineeringServices.com
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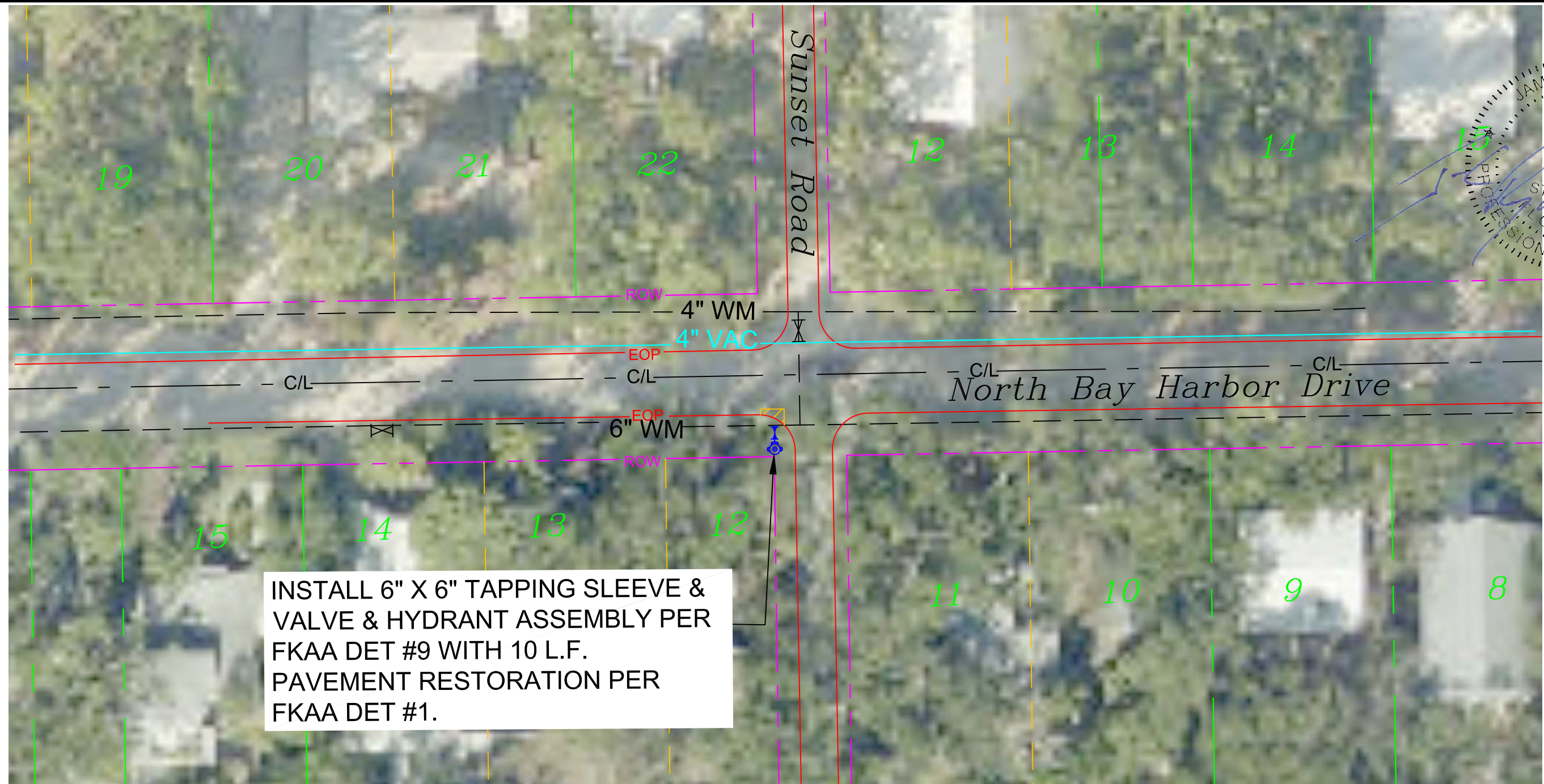
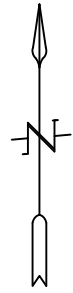
Revisions:
No.
Date:
Comments:

Title:
Date:
Page:

Fire Hydrant-#20-06(Middle)
Sunset Rd & Sunset Ct
Key Largo, Florida

Date:
Page:

9/12/2020
5 of 13



Scale: 1:30



NOTE:
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CONSTRUCTION STANDARDS AND SPECIFICATIONS.



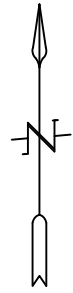
Reynolds Engineering Services, Inc.
Fl. C.A. No. 26597
24478 Overseas Highway
Summerland Key, Fl. 33042
Jim@ReynoldsEngineeringServices.com
305-394-5987

Revisions:
No.
Date:
Comments:

Title:
Fire Hydrant-#20-07(Middle)
Sunset Rd & N. Bay Harbor Dr
Key Largo, Florida

Date:
9/12/2020

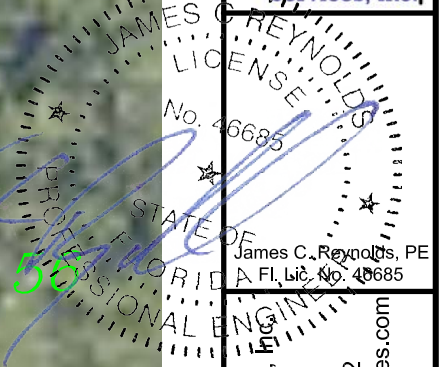
Page:
6 of 13



Scale: 1:30



NOTE:
ALL WORK MUST CONFORM TO FKA A MINIMUM DESIGN AND
CONSTRUCTION STANDARDS AND SPECIFICATIONS.



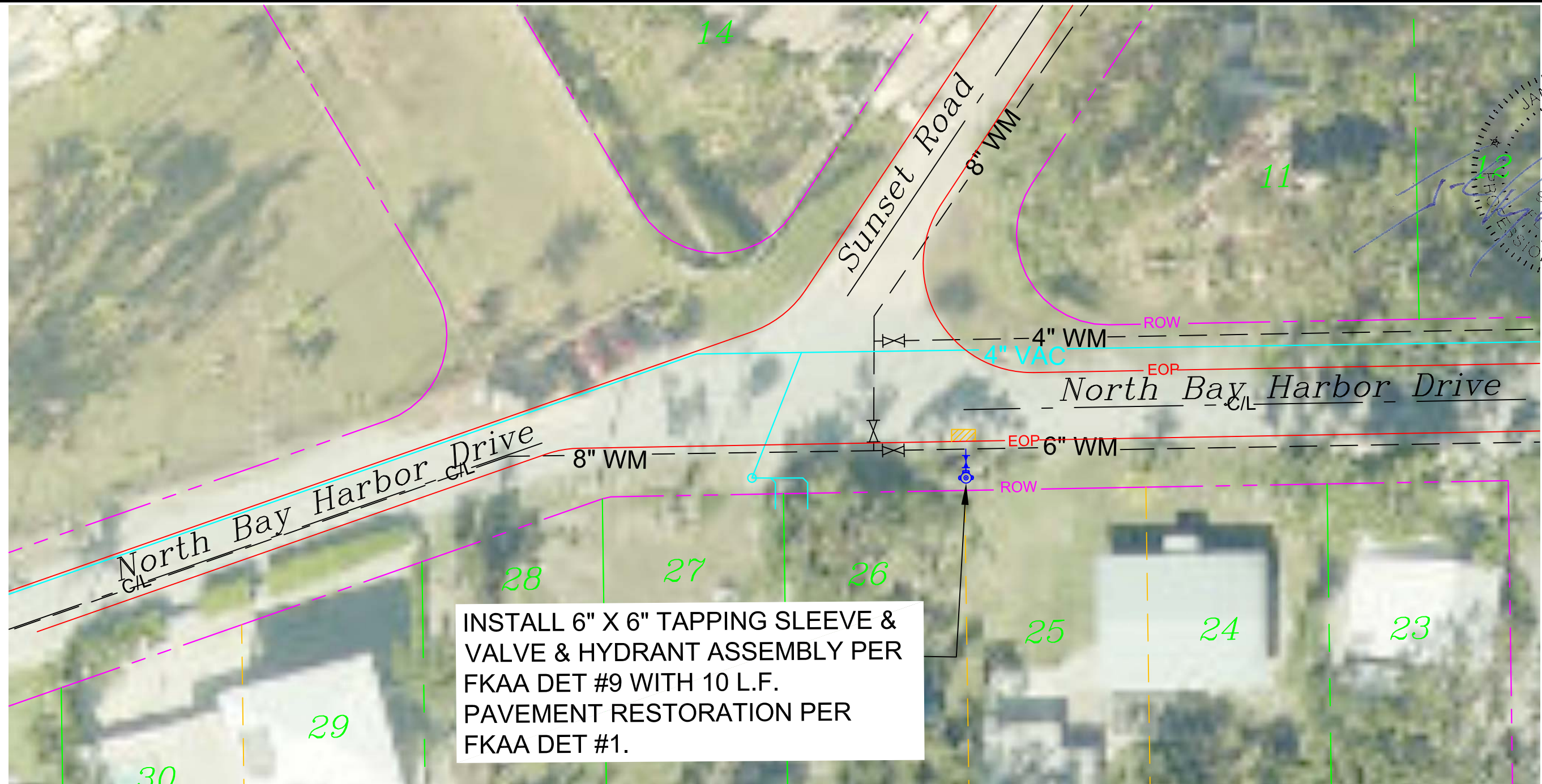
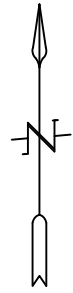
Reynolds Engineering Services, Inc.
Fl. C.A. No. 26597
24478 Overseas Highway
Summerland Key, Fl. 33042
Jim@ReynoldsEngineeringServices.com
305-394-5987

Revisions:
No.
Date:
Comments:

Title:
Fire Hydrant-#20-08(Middle)
Sunset Rd & S. Bay Harbor Dr
Key Largo, Florida

Date:
9/12/2020

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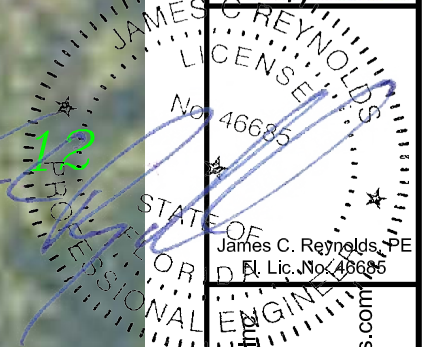


INSTALL 6" X 6" TAPPING SLEEVE & VALVE & HYDRANT ASSEMBLY PER FKAA DET #9 WITH 10 L.F. PAVEMENT RESTORATION PER FKAA DET #1.

Scale: 1:30



NOTE:
ALL WORK MUST CONFORM TO FKAA MINIMUM DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS.



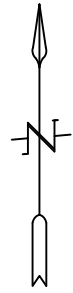
Reynolds Engineering Services, Inc.
Fl. C.A. No. 26597
24478 Overseas Highway
Summerland Key, Fl. 33042
Jim@ReynoldsEngineeringServices.com
305-394-5987

Revisions:
No.
Date:
Comments:

Title:
Fire Hydrant #20-09
(Corner of Sunset Point Park)
Sunset Rd & N. Bay Harbor Dr
Key Largo, Florida

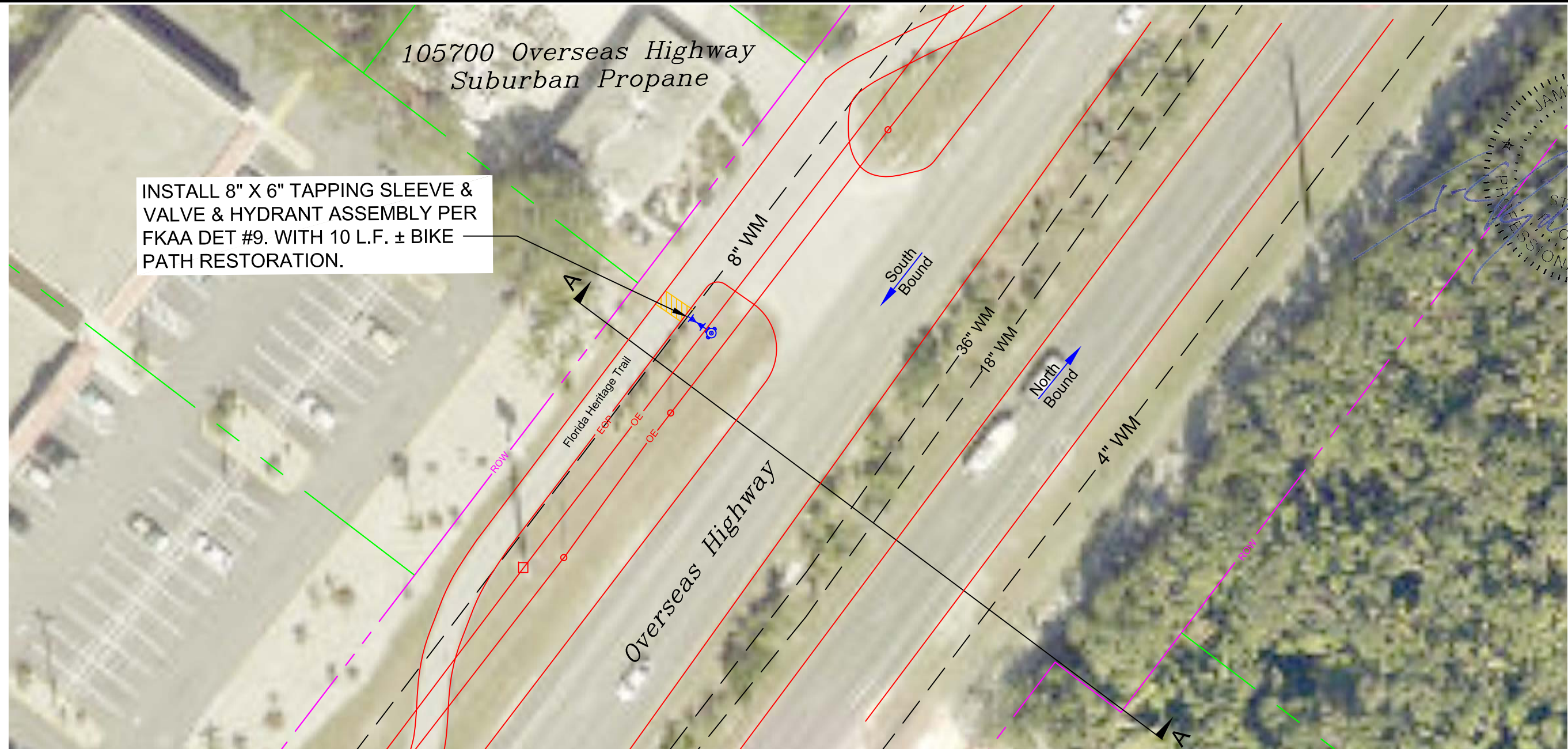
Date:
9/12/2020

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105700 Overseas Highway
Suburban Propane

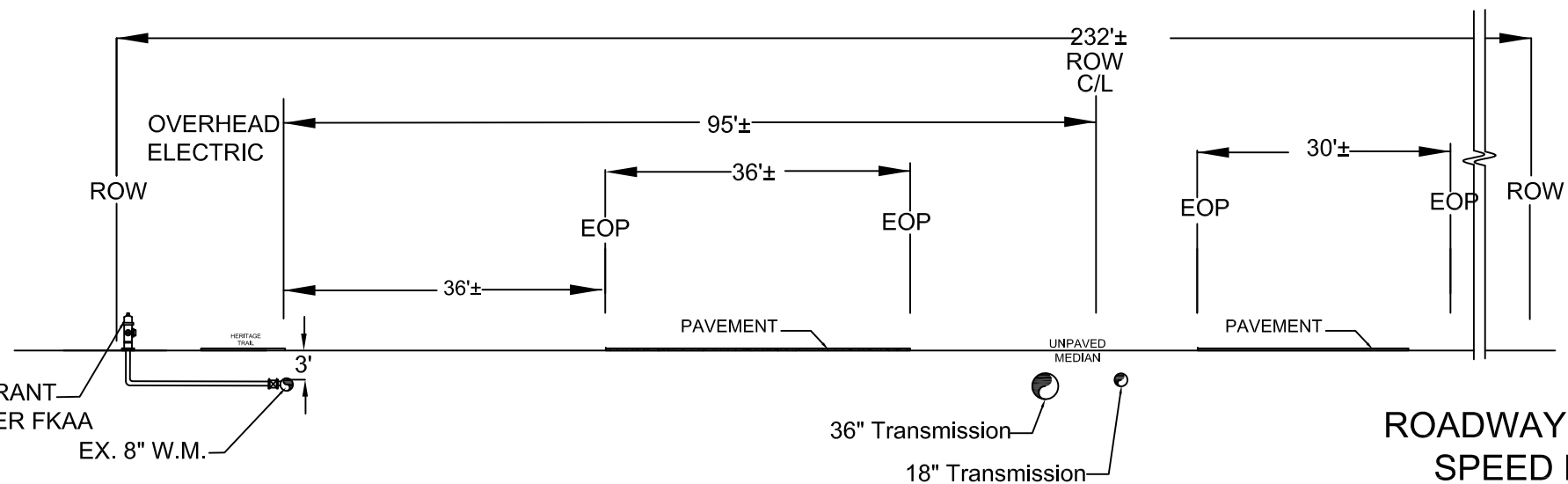
INSTALL 8" X 6" TAPPING SLEEVE &
VALVE & HYDRANT ASSEMBLY PER
FKAA DET #9. WITH 10 L.F. ± BIKE
PATH RESTORATION.



Scale: 1:40

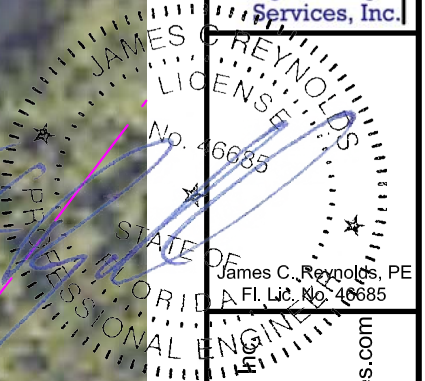


INSTALL HYDRANT
ASSEMBLY PER FKAA
DETAIL #9.



SECTION A
SCALE: 1"=20' 0"

ROADWAY SECTION 90060
SPEED LIMIT-45 MPH
MP 31.91-MM 105.7
D.O.T. STATION 1120+65(SB)



Reynolds Engineering Services, Inc.
Fl. C.A. No. 26597
24478 Overseas Highway
Summerland Key, Fl. 33042
Jim@ReynoldsEngineeringServices.com
305-394-5987

Revisions:
Date: 2/15/20
Comments: FDOT
Revisions

Title: Fire Hydrant-#20-10(Suburban Propane)
105700 Overseas Hwy
Key Largo, Florida

Date: 9/12/2020

Page: 9 of 13

NOTE:
ALL WORK MUST CONFORM TO FKAA MINIMUM DESIGN AND
CONSTRUCTION STANDARDS AND SPECIFICATIONS.

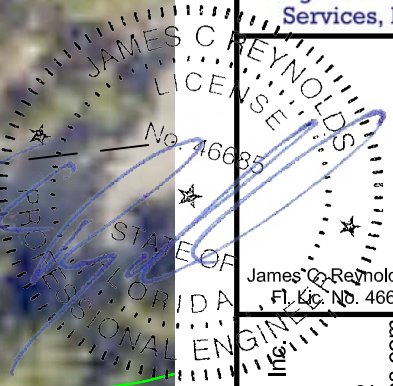


INSTALL 6" X 6" TAPPING SLEEVE & VALVE & HYDRANT ASSEMBLY PER FCAA DET #9 WITH 10 L.F. OF PAVEMENT RESTORATION PER FCAA DET #1.

Scale: 1:40



NOTE:
ALL WORK MUST CONFORM TO FCAA MINIMUM DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS.



James C. Reynolds, PE
Fl. Lic. No. 46685

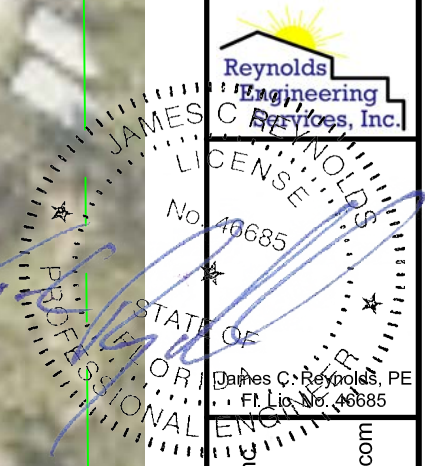
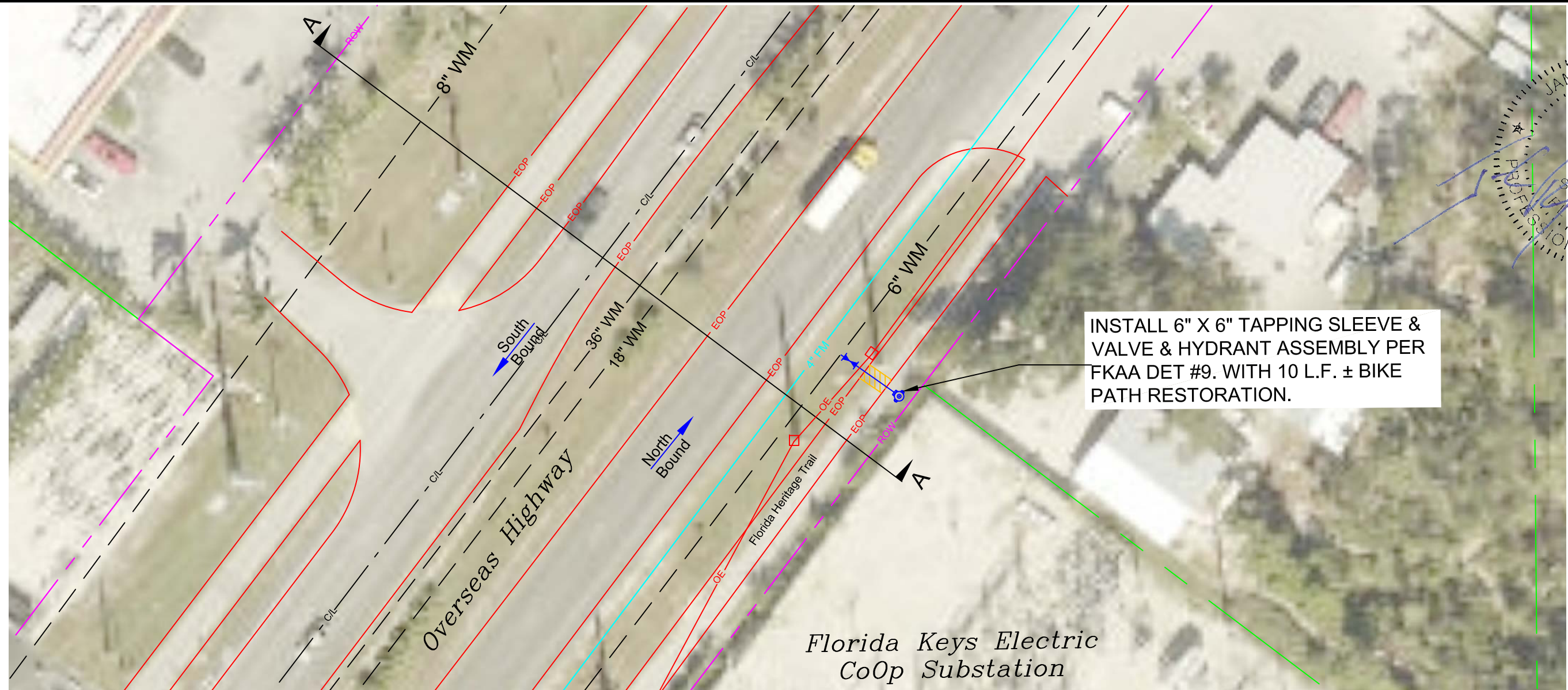
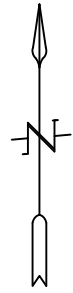
Reynolds Engineering Services, Inc.
Fl. C.A. No. 26597
24478 Overseas Highway
Summerland Key, Fl. 33042
Jim@ReynoldsEngineeringServices.com
305-394-5987

Revisions:
No.
Date:
Comments:

Title: Fire Hydrant-#20-11(Entrance to Sanctuary)
East Shore Drive
Key Largo, Florida

Date:
9/12/2020

Page:
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James C. Reynolds, PE
FL Lic. No. 46685

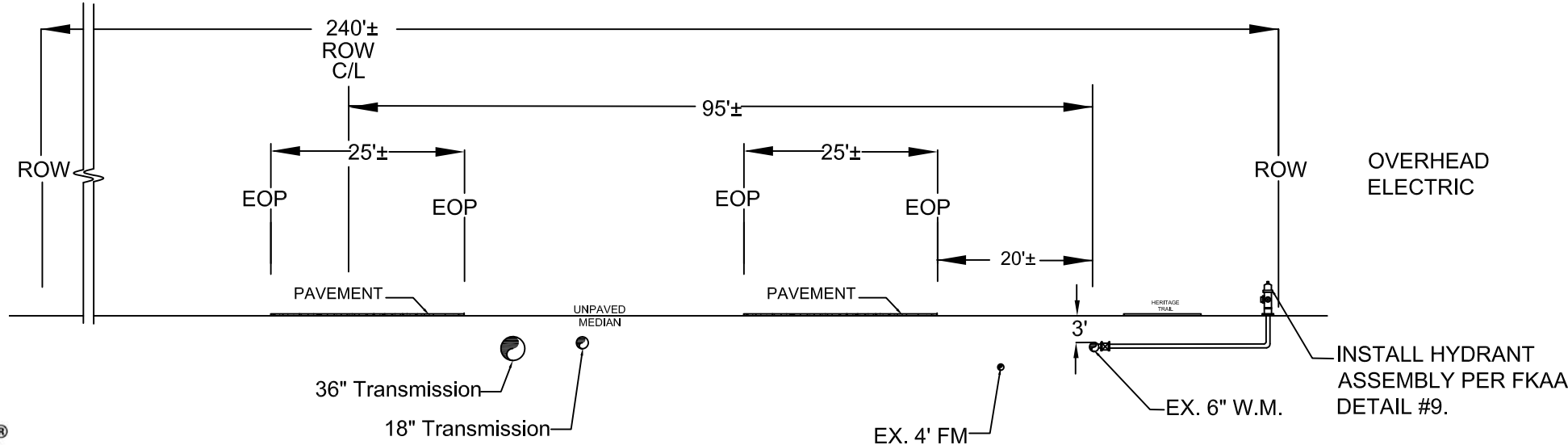
Reynolds Engineering Services, Inc.
Fl. C.A. No. 26597
24478 Overseas Highway
Summerland Key, Fl. 33042
Jim@ReynoldsEngineeringServices.com
305-394-5987

Revisions:
Date: 2/15/20
Comments: FDOT
Revisions

Fire Hydrant-#20-12
(OZ Moody CCOP-Substation)
Mile Marker 106 NB
Key Largo, Florida

Title:
Date: 9/12/2020
Page: 11 of 13

Scale: 1:40

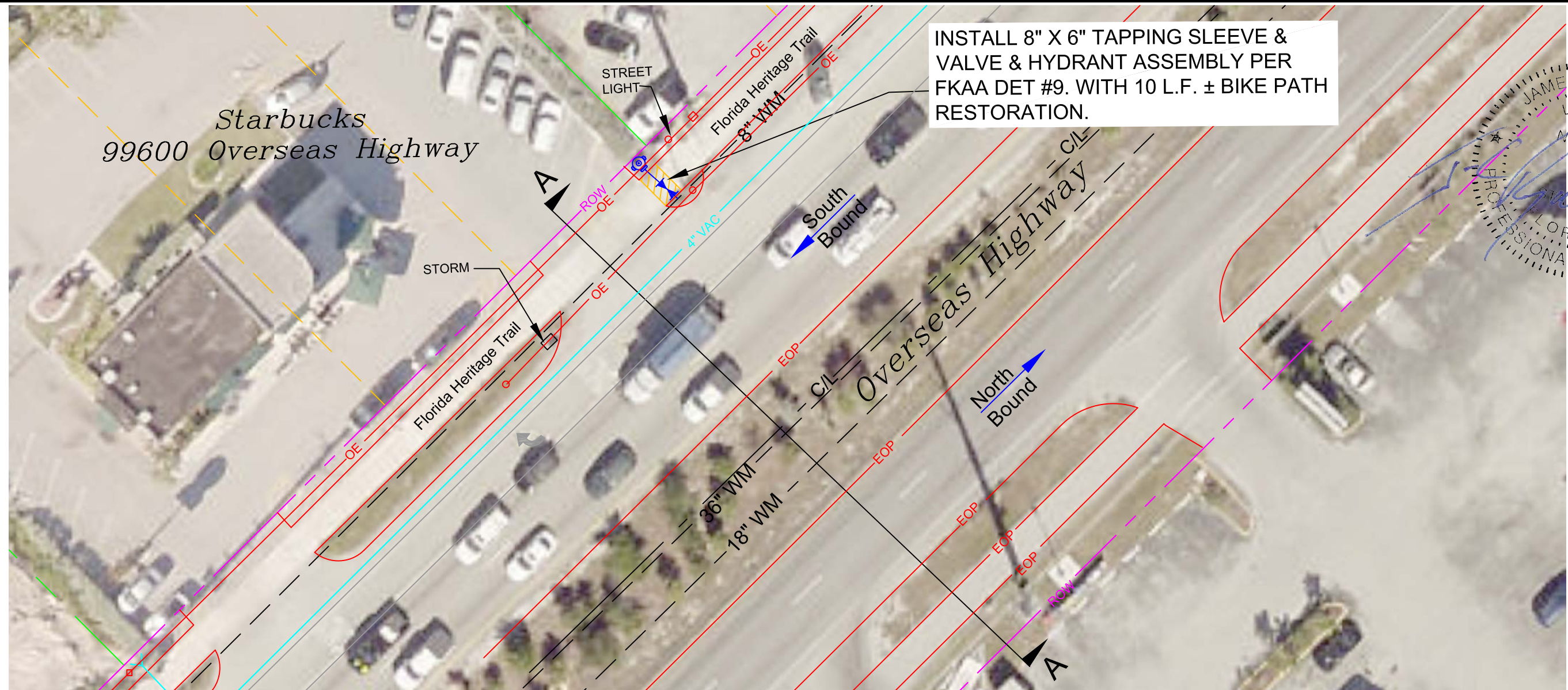
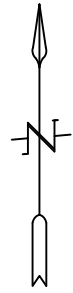


SECTION A
SCALE: 1"=20'-0"

ROADWAY SECTION 90060
SPEED LIMIT-45 MPH
MP 32.11-MM 105.90
D.O.T. STATION 1130+50(NB)



NOTE:
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Fl. C.A. No. 26597
24478 Overseas Highway
Summerland Key, Fl. 33042
Jim@ReynoldsEngineeringServices.com
305-394-5987

Revisions:
Date: 2/15/20
Comments: FDOT
Revisions

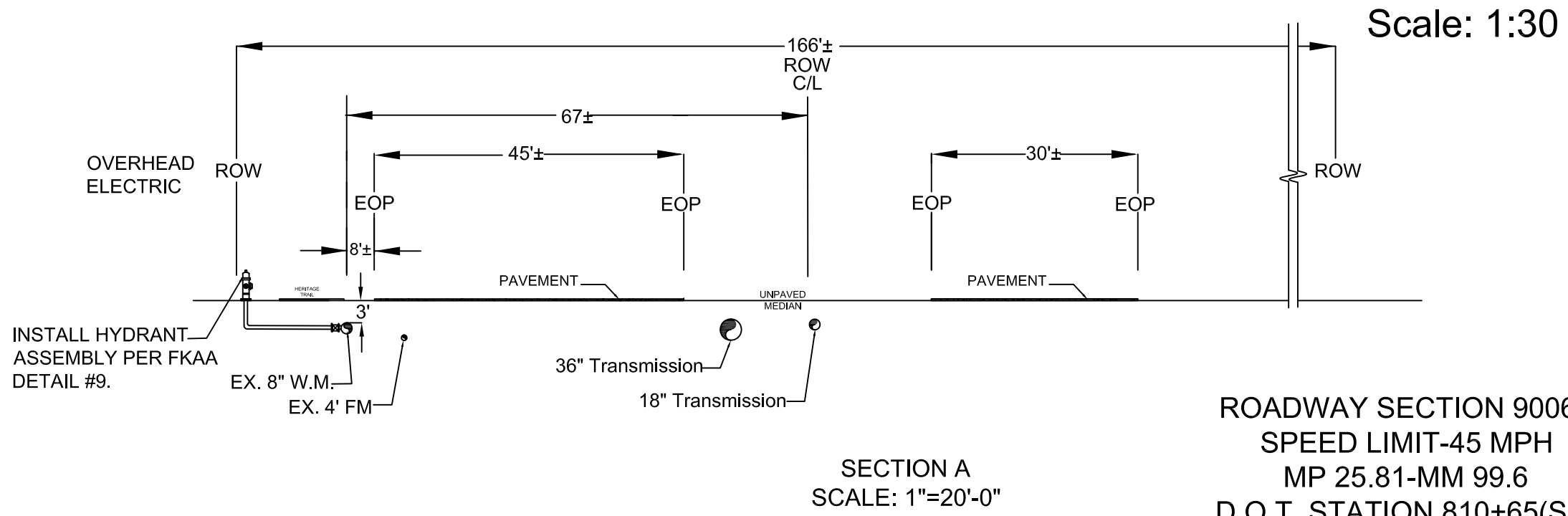
Title:
Fire Hydrant-#20-13(Starbucks)
99600 Overseas Hwy-Southbound
Key Largo, Florida

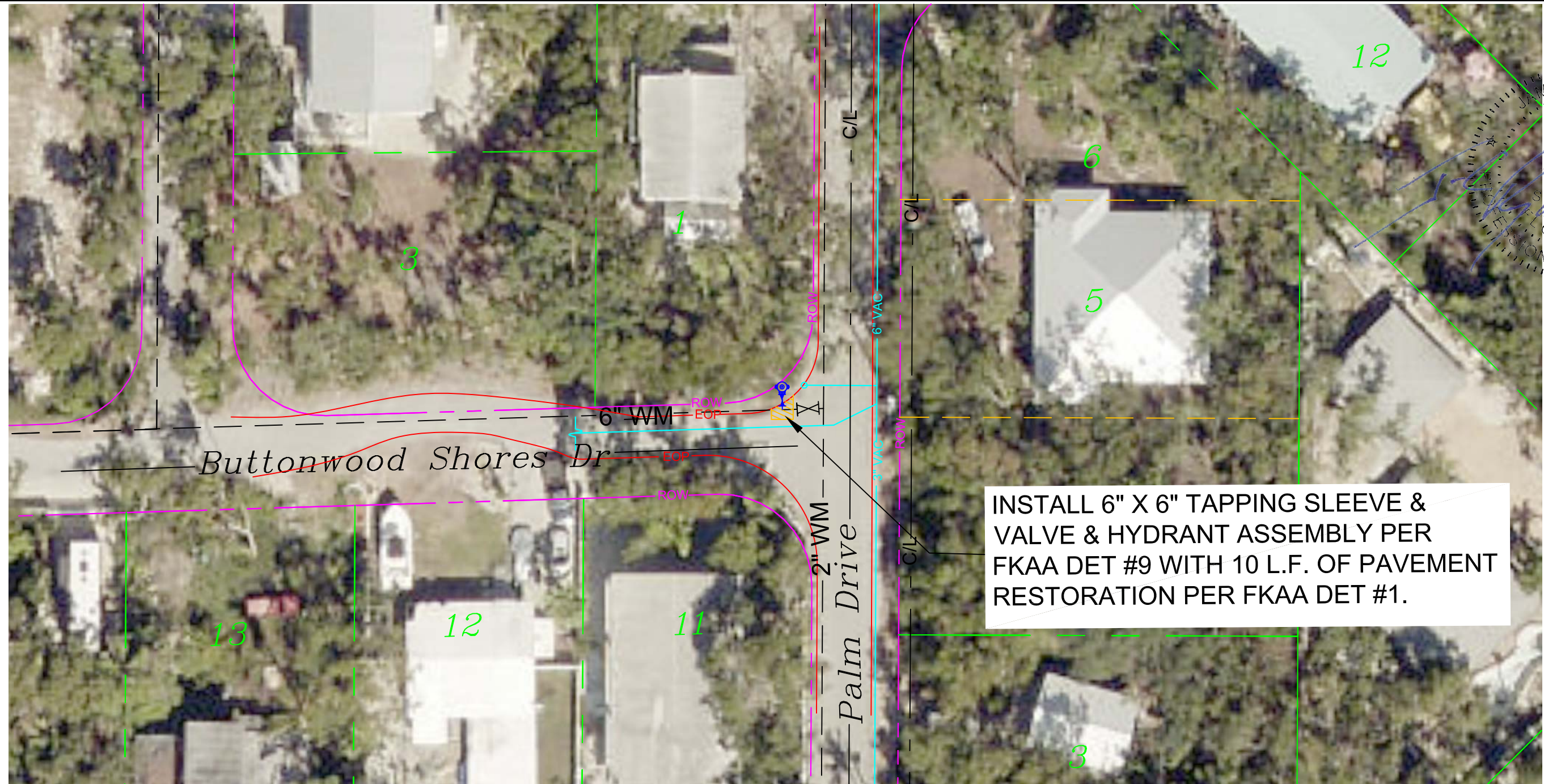
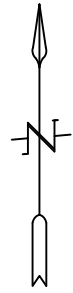
Date:
9/12/2020

Page:
12 of 13



NOTE:
ALL WORK MUST CONFORM TO FCAA MINIMUM DESIGN AND
CONSTRUCTION STANDARDS AND SPECIFICATIONS.

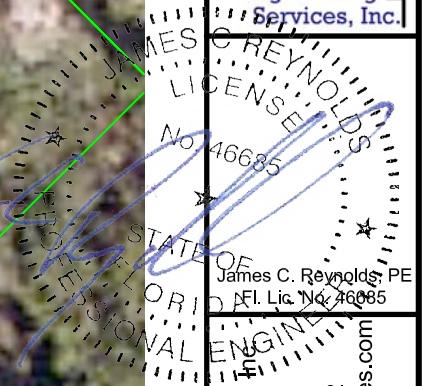




Scale: 1:30



NOTE:
ALL WORK MUST CONFORM TO FCAA MINIMUM DESIGN AND
CONSTRUCTION STANDARDS AND SPECIFICATIONS.



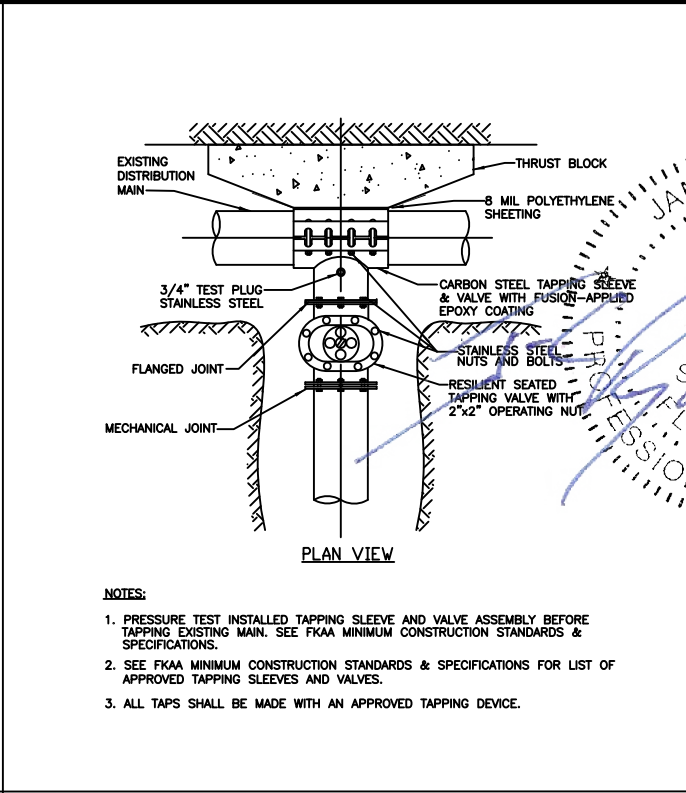
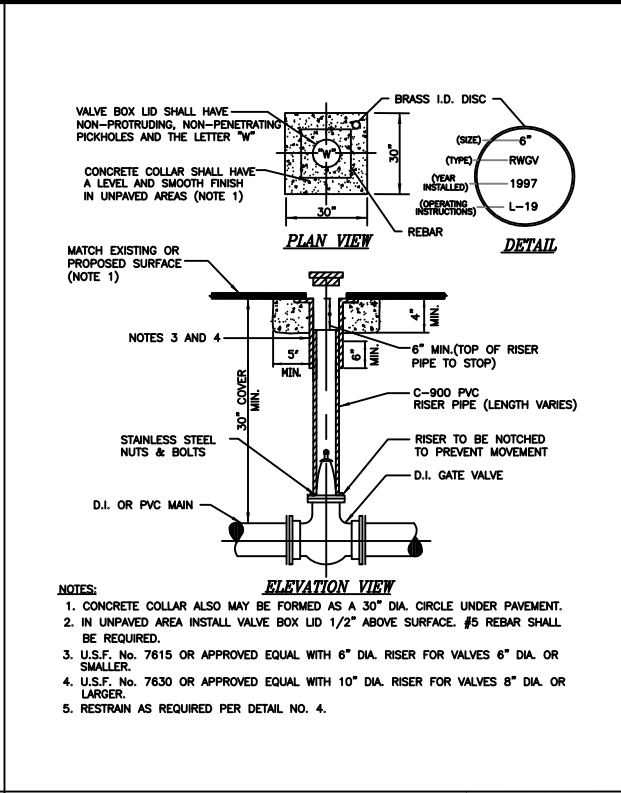
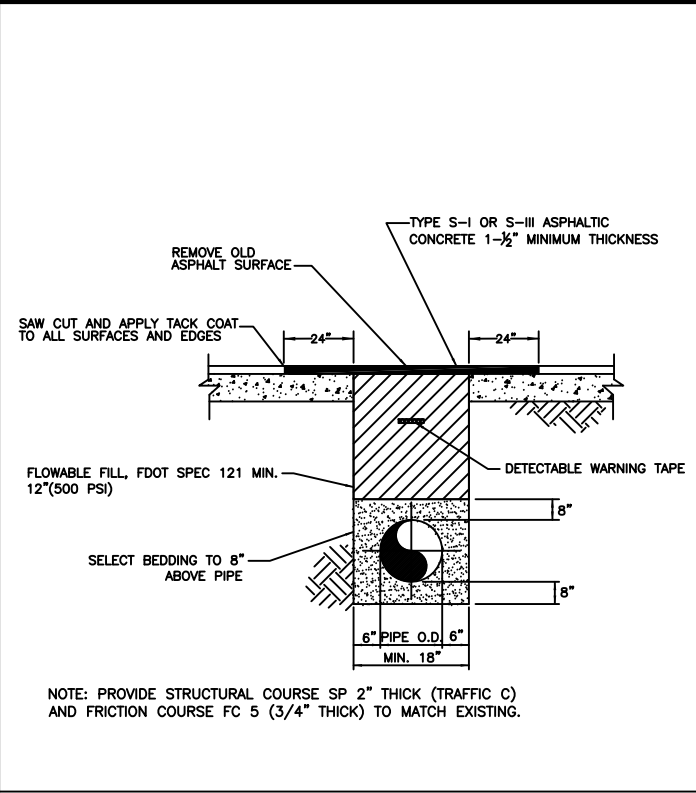
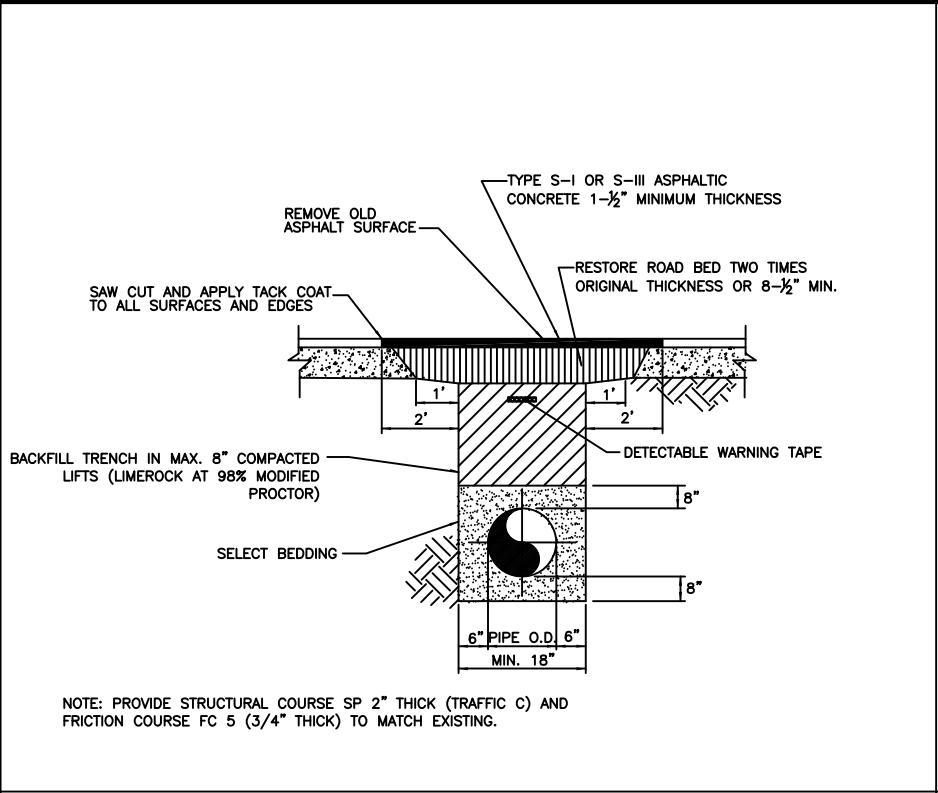
Reynolds Engineering Services, Inc.
Fl. C.A. No. 26597
24478 Overseas Highway
Summerland Key, Fl. 33042
Jim@ReynoldsEngineeringServices.com
305-394-5987

Revisions:
No.
Date:
Comments:

Title:
Fire Hydrant-#20-14
Palm Dr & Buttonwood Shores Dr
Key Largo, Florida

Date:
9/12/2020

Page:
13 of 13



PAVEMENT RESTORATION WITH BACKFILL

STANDARD DETAIL DRAWING NO. 1a

PAVEMENT RESTORATION WITH FLOWABLE FILL

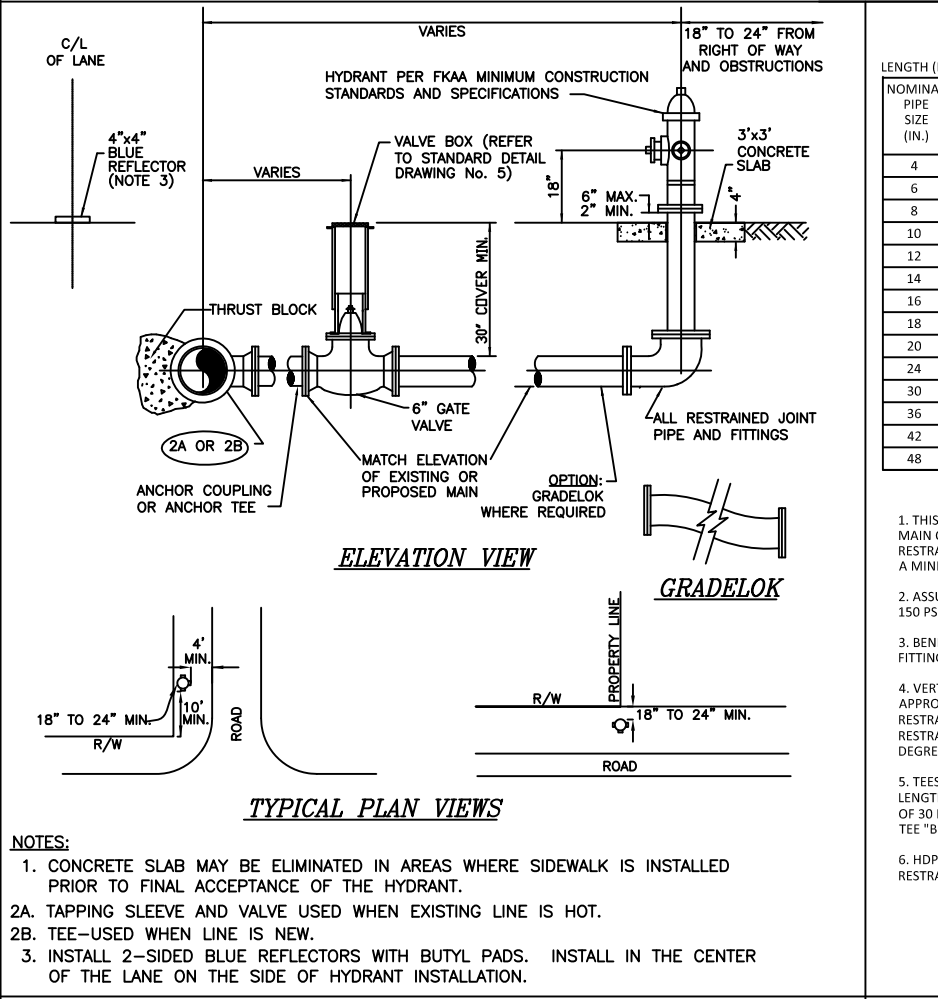
STANDARD DETAIL DRAWING NO. 1b

GATE VALVE & BOX

STANDARD DETAIL DRAWING NO. 5

TAPPING SLEEVE & VALVE FOR DISTRIBUTION

STANDARD DETAIL DRAWING NO. 7



FIRE HYDRANT ASSEMBLY

STANDARD DETAIL DRAWING NO. 9

| PVC PIPE RESTRAINT JOINT SCHEDULE | | | | | | | | | | | | |
|-----------------------------------|------------------|------------------|--------------------|---------------------|------------------|------------------|---------------------|----------|-------|---------------|-------------|-------|
| NOMINAL PIPE SIZE (IN.) | HORIZONTAL BENDS | | | | VERTICAL OFFSETS | | VALVES OR DEAD-ENDS | REDUCERS | | TEES (NOTE 5) | | |
| | 90° BENDS L(FT.) | 45° BENDS L(FT.) | 22.5° BENDS L(FT.) | 11.25° BENDS L(FT.) | 45° BENDS L(FT.) | 45° BENDS L(FT.) | | (SIZE) | L FT. | RUN SIZE | BRANCH SIZE | L FT. |
| 4 | 20 | 8 | 4 | 2 | 20 | 3 | 50 | 6 X 4 | 35 | 4" | 4" | F.O. |
| 6 | 28 | 10 | 5 | 2 | 28 | 4 | 70 | 8 X 4 | 35 | 6" | 4" <LESS | 10 |
| 8 | 36 | 14 | 6 | 3 | 36 | 5 | 90 | 8 X 4 | 65 | 8" | 6" <LESS | 30 |
| 10 | 40 | 18 | 8 | 4 | 45 | 6 | 110 | 10 X 8 | 35 | 10" | 6" <LESS | 48 |
| 12 | 50 | 20 | 9 | 4 | 52 | 8 | 120 | 10 X 6 | 65 | 10" | 8" <LESS | 14 |
| 14 | 56 | 23 | 10 | 5 | 60 | 9 | 140 | 12 X 10 | 35 | 12" | 12" | 65 |
| 16 | 60 | 26 | 11 | 6 | 67 | 10 | 160 | 12 X 8 | 65 | 12" | 10" | 35 |
| 18 | 69 | 29 | 12 | 6 | 74 | 12 | 180 | 16 X 12 | 65 | 16" | 8" <LESS | F.O. |
| 20 | 75 | 32 | 13 | 7 | 80 | 13 | 195 | 16 X 10 | 95 | 16" | 16" | 100 |
| 24 | 76 | 33 | 15 | 7 | 81 | 14 | 200 | 20 X 18 | 35 | 20" | 10" <LESS | 40 |
| 30 | 88 | 36 | 18 | 9 | 97 | 16 | 235 | 20 X 16 | 65 | 20" | 20" | 130 |
| 36 | 100 | 40 | 20 | 10 | 110 | 20 | 270 | 20 X 12 | 120 | 24" | 12" <LESS | F.O. |
| 42 | 115 | 48 | 23 | 11 | 125 | 24 | 300 | 24 X 20 | 65 | 24" | 20" | 130 |
| 48 | 125 | 52 | 25 | 12 | 140 | 30 | 340 | 24 X 18 | 95 | 24" | 16" | 90 |
| | | | | | | | | 24 X 16 | 120 | 30" | 16" | 40 |
| | | | | | | | | 30 X 24 | 80 | 30" | 20" | 50 |
| | | | | | | | | 30 X 20 | 150 | 36" | 20" | 50 |
| | | | | | | | | 36 X 30 | 80 | 36" | 30" | 180 |
| | | | | | | | | 36 X 24 | 150 | 36" | 30" | 120 |
| | | | | | | | | 42 X 36 | 80 | 42" | 24" | 50 |
| | | | | | | | | 42 X 30 | 150 | 42" | 20" <LESS | F.O. |
| | | | | | | | | 48 X 42 | 80 | 48" | 36" | 220 |
| | | | | | | | | 48 X 36 | 150 | 48" | 30" | 160 |
| | | | | | | | | | | 48" | 24" | 80 |
| | | | | | | | | | | 48" | 20" <LESS | F.O. |
| | | | | | | | | | | | | 40 |
| | | | | | | | | | | | | 40 |

F.O. = FITTING ONLY

PVC PIPE RESTRAINT NOTES

1. THIS SCHEDULE SHALL BE UTILIZED ON ALL WATER, SEWER FORCE MAIN OR RECLAIMED WATER SYSTEMS. ALL FITTINGS SHALL BE RESTRAINED TO LENGTHS INDICATED ON THE ABOVE SCHEDULE, AT A MINIMUM.
2. ASSUMPTIONS: PVC PIPE, SAFETY FACTOR = 1.5, TEST PRESSURE = 150 PSI, SOIL = GM OR SM, TRENCH TYPE 3, DEPTH OF COVER = 36".
3. BENDS AND VALVES: SHALL BE RESTRAINED ON EACH SIDE OF FITTING.
4. VERTICAL OFFSETS: ARE APPROX. 3 FEET COVER ON TOP AND APPROX. 8 FEET COVER ON BOTTOM. PER THE DETAILS, LU IS THE RESTRAINED LENGTH FOR THE UPPER (TOP) LEVEL. LI IS THE RESTRAINED LENGTH FOR THE LOWER (DEEPER) LEVEL. ASSUME 45 DEGREE BENDS.
5. TEES: TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 30 FEET (MIN) SEE SCHEDULE ABOVE FOR RESTRAINT LENGTH ON TEE "BRANCH" LINE.
6. HDPE TO PVC TRANSITIONS: THE PVC PIPE SIDE SHALL BE RESTRAINED 35 FEET (MIN.).

PVC PIPE RESTRAINT JOINT SCHEDULE

STANDARD DETAIL DRAWING NO. 4 (1 OF 2)

| LOCATION OF PUBLIC WATER SYSYEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314 | | | |
|--|---|--|---|
| Other Pipe | Horizontal Separation | Crossings (1) | Joint Spacing @ Crossings (Full Joint Centered) |
| Storm Sewer, Stormwater Force Main, Reclaimed Water (2) | <p>3 ft. minimum</p> | <p>12 inches is the minimum, except for storm sewer, then 6 inches is the minimum and 12 inches is preferred</p> | <p>Alternate 3 ft. minimum</p> |
| Vacuum Sanitary Sewer | <p>10 ft. preferred 3 ft. minimum</p> | <p>12 inches preferred 6 inches minimum</p> | <p>Alternate 3 ft. minimum</p> |
| Gravity or Pressure Sanitary Sewer, Sanitary Sewer Force Main, Reclaimed Water (4) | <p>10 ft. preferred 6 ft. minimum (3)</p> | <p>12 inches is the minimum, except for gravity sewer, then 6 inches is the minimum and 12 inches is preferred</p> | <p>Alternate 6 ft. minimum</p> |
| On-Site Sewage Treatment & Disposal System | 10 ft. minimum | --- | --- |
| (1) Water main should cross above other pipe. When water main must be below other pipe, the minimum separation is 12 inches. (2) Reclaimed water regulated under Part III of Chapter 62-610, F.A.C. (3) 3 ft. for gravity sanitary sewer where the bottom of the water main is laid at least 6 inches above the top of the gravity sanitary sewer. (4) Reclaimed water not regulated under Part III of Chapter 62-610, F.A.C. | | | |
| Disclaimer - This document is provided for your convenience only. Please refer to F.A.C. Rule 62-555.314 for additional construction requirements. | | | |

James C. Reynolds
Professional Engineer
No. 46685
State of Florida

Reynolds Engineering Services, Inc.
Fl. C.A. No. 26597
24478 Overseas Highway
Summerland Key, Fl. 33042
Jim@ReynoldsEngineeringServices.com
305-394-5987

Revisions:

Date: 2/15/20

Comments:

FDOT Revisions

Title: **Key Largo Fire Hydrants Phase 9**

Key Largo, Florida

Date: 9/12/2020

Page: Details