



Proposal From  
**UTILITY SERVICE CO., INC.**

1230 Peachtree St NE, Suite 1100 - Promenade · Atlanta, GA 30309  
 Toll-free: 855-526-4413 | Fax: 478-987-2991  
 utilityservice.com

Date: 8 November 2018

Submitted by: **T McDaniel**

Local Phone: **386-451-9452**

SFID: 57119

CN:

SO:

Proposal Submitted To: <b>City of Daytona Beach</b>			Phone Number: <b>386-672-8509</b>		Fax Number:	
Street Address: <b>P O Box 2451</b>			Description of Work to be Performed: <b>Ice Pigging Potable Water Main</b>			
City: <b>Daytona Beach</b>		State: <b>FL</b>	Zip Code: <b>32115</b>	County/Parish: <b>Volusia</b>		
Accounts Payable Contact Name: <b>Ms. Jo Ann Macrina</b>		Email: <b>macrinajoann@codb.us</b>		Job Site Address: <b>Tournament/Halifax</b>		
Job Contact (Inspection Reports): <b>Ms. Jo Ann Macrina</b>		Email: <b>macrinajoann@codb.us</b>		Length (FT): <b>14,570</b>	Size (Inches): <b>6,8,12,16,20</b>	Material: <b>DI</b>

Utility Service Co., Inc. agrees to provide all labor, equipment, and materials needed to complete the following:

- USCI shall produce approximately 2,700 gallons of ice slurry for delivery and removal from the water mains each day of work to clean sediments, loose deposits, and biofilms from the water main covered under this proposal. The water mains to be cleaned and procedures are listed in Addendum A.
- Based upon the information provided by the Owner to USCI, USCI estimates this project will take **12 full loads** to complete.
- This proposal is based on the assumption that the Owner shall install suitable ice insertion fittings at locations to be determined following a pre-construction meeting.
- The price below includes a daily written report to provide data on the following; Flow, pressure, conductivity, turbidity and an estimate of sediment removed. (Please note: Reports may take several months to be published due to high demand).

Please sign and date this proposal and fax one copy to our office.

**One Hundred Twenty Thousand and ----- 00/100 Dollars \$120,000.00**

Payment to be made as follows:

**Payment Due in Full Upon Completion of Work – plus all applicable taxes**

**Remittance Address: Utility Service Co., Inc., P O Box 674233, Dallas, TX 75267-4233**

All material is guaranteed to be as specified. All work to be completed in a substantial workmanlike manner according to specifications submitted, per standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workmen's Compensation Insurance.

Authorized  
USG Signature

Note: This proposal may be withdrawn by us if not accepted within Sixty (60) days.

**Acceptance of Proposal -** The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Fiscal Yr Beginning Month \_\_\_\_\_

Signature \_\_\_\_\_

Date of Acceptance

Printed Name



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5. Owner agrees to provide the following:
  - a. All potable water necessary to create the ice slurry,
  - b. Secure location to store the ice making equipment,
  - c. Network Operators to isolate and re-open valves and hydrants during the project,
  - d. MOT (Maintenance of Traffic) procedures in accordance with the requirements written in The Manual of Uniform Traffic Devices.
  - e. A tanker truck to haul the wastes where a sanitary sewer is not in close proximity. Note: **The discharge should not be to ground unless specific State approval is acquired.**
  - f. Exercise all relevant valves and hydrants and test for operational working order.
  - g. A complete isolation of the main on the day of operation.
6. USCI shall provide a report summarizing the daily cleaning events, water quality pre and post cleaning, and a quantitative amount of sediments removed only on those lines where a connection can be made to the discharge point.
7. USCI shall endeavor to manage the ice concentration to maximize cleaning efficiency and minimize the removal of tuberculation that could cause future water quality complaints.
8. Owner agrees that there is considerable expense to produce 2,700 gallons of ice slurry and that the ice slurry cannot be held for more than 12 hours before it becomes unusable. If on a scheduled work day, Owner cannot isolate the water main or does not have the needed personnel, USCI shall charge the Owner the Full Daily Rate of \$12,000 per day.
9. USCI shall not charge Owner the above-mentioned Daily Rate, if USCI cannot perform the complete day's work due to those factors under USCI's control, i.e. the ice is not in suitable condition, USCI cannot provide the necessary labor, equipment failure, etc.
10. Due to the potential condition or deterioration of assets that may or may not have been maintained, Owner shall indemnify USCI, and all officers and agents of USCI, against all damages, costs or expenses that may result from damage to property or personal injury caused by reason of the Owner's failure to maintain its assets or deterioration of Owner's assets in relation to any work in connection with this Agreement. Such indemnity includes, but is not limited to, damage to property or personal injury occasioned by any negligence, act or omission to act by USCI or any of its servants, agents, employees, or any subcontractor retained by USCI to perform any of the work contemplated by or under this agreement.
11. Once delivered to the job site, ownership of the ice slurry is transferred to Owner. All ice delivered to and removed from the water main, along with the wastes generated from the resulting process shall be the sole property of Owner. Owner shall dictate the specific disposal procedures to be employed during the process.



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**Addendum A - Proposed Schedule of Work**

Date	Op No.	Insertion Point	Discharge Point	Disposal Method	Length (FT)	Pipe Dia.(in)	Pipe Material	Ice Quantity (Gals)
Day 1	Tournament 1	8256	8257	TBD	750	20	DI	2700
Day 2	Tournament 2	8257	8258	TBD	750	20	DI	2700
Day 3	Tournament 3	8258	8259	TBD	710	20	DI	2700
Day 4	Tournament 4	8259	8260	TBD	750	20	DI	2700
Day 5	Tournament 5	8260	8261	TBD	710	20	DI	2700
Day 6	Tournament 6	8261	8262	TBD	710	20	DI	2700
Day 7	Tournament 7	8262	8263	TBD	720	20	DI	2700
Day 8	Thames Ave	2" Tap	1091	TBD	1000	6,8,12	DI	1000
	Riverview/Seabreeze	Tap B	2237	TBD	1100	16	DI	1750
Day 9	University/Riverview	Tap A	Tap B	TBD	1250	16	DI	2700
Day 10	Thames/Richards	2" Tap	1004	TBD	1850	12	DI	2700
Day 11	Richards/Ames	1004	Hyd or Tap	TBD	2000	12	DI	2700
Day 12	Oceandunes/Wisteria	1038	1035	TBD	2270	12	DI	2700



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Responsibility		Ice Making Procedure
Owner	1.	The ice delivery unit and ice making unit shall be staged in a suitable level area, preferably a fenced area at a water treatment plant or other facility. The facility needs access to potable water, preferably a hydrant but also a water spigot will work.
USCI	2.	The hoses and fittings connecting the ice maker and delivery unit shall be disinfected and connected. This connection makes a closed loop system between the ice maker and delivery unit. The only place for contaminants to enter the system are through the tank hatch which shall be closed except for visual inspection by the operator.
USCI	3.	Approximately 2,700 gallons of potable water shall be added to the delivery tank, along with approximately 1100lbs of NSF-60 Certified Sodium Chloride.
USCI	4.	If requested by the Owner, the Chlorine residual in the brine solution may be increased to 10ppm. The chlorine residual shall be tested, and then the appropriate amount of NSF-60 Certified Sodium hypochlorite shall be added to the brine solution. The solution shall be retested to confirm the chlorine residual.
USCI	5.	The PLC controlling the ice making process shall be started and allowed to run overnight. USCI shall monitor the procedure overnight via periodic visits or remote monitoring.
USCI	6.	After completion of the ice making process, the delivery pump shall be started and a small amount of ice shall be tested to determine the ice fraction. If the ice fraction is below the project's requirement, the ice making process shall continue.
USCI	7.	If the ice fraction is in accordance with the project's requirement, then the ice maker shall be shut off and disconnected. The ice contained in the delivery unit shall be delivered to the job site.



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Responsibility		On-Site Delivery Actions
Owner	1.	Owner shall setup and maintain traffic control procedures in conjunction with the setup procedures listed in Steps 2-3.
USCI	2.	<p>The ice pigging delivery unit shall be parked near the insertion fitting.</p> <ul style="list-style-type: none"> <li>• Hoses shall be setup from the delivery unit to the insertion point.</li> <li>• The insertion point shall be flushed to clean out the barrel, and then shut off.</li> <li>• The insertion point fittings shall be disinfected with 250ppm Cl solution.</li> <li>• The hoses shall be connected to the insertion point.</li> </ul>
USCI	3.	<p>Where possible, the extraction point instrumentation unit shall be setup near the extraction hydrant.</p> <ul style="list-style-type: none"> <li>• Hoses shall be setup from the instrumentation unit to the hydrant.</li> <li>• Hoses shall run from the instrumentation unit to the sanitary sewer.</li> <li>• De-chlorination equipment shall be setup where required.</li> <li>• The hydrant shall be flushed to clean out the barrel, then shut off</li> <li>• The hydrant fittings shall be disinfected with 250ppm Cl solution.</li> <li>• The instrumentation unit connected to the hydrant, and the hydrant turned on.</li> <li>• Water quality readings shall be taken.</li> <li>• The unit shall be allowed to flow water.</li> </ul>
Owner	4.	The final valves shall be closed to isolate the water main.
USCI	5.	The isolation of the main shall be verified by the instrumentation unit. The extraction hydrant valve shall be closed after main isolation is verified and before the pressure goes below 20psi in the main.
USCI	6.	<p>The insertion point valve shall be opened and the ice slurry pumped into the water main.</p> <ul style="list-style-type: none"> <li>• Prior to pumping the percent solids of the ice slurry shall be documented.</li> </ul> <p>The extraction hydrant valve shall be operated to allow for the displacement of water by the introduction of the ice and maintain the pressure above 20psi in the main.</p>
USCI	7.	Once the proper amount of ice slurry has been delivered, the insertion point and extraction hydrant valve shall be closed and the pressure is maintained above 20psi in the main.



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Owner	8.	IMMEDIATELY, the upstream main line valve shall be opened to supply the needed pressure to push the ice pig through the main.
USCI	9.	Once full system pressure, as observed prior to system shutdown, is monitored at the instrumentation unit, the operator shall open the extraction hydrant valve to control the flow of water and monitor the progress of the ice pig.
USCI	10.	Once the pig is monitored to arrive, the flow of water shall be diverted from the de-chlorination equipment to flow to the sanitary sewer specified by the Owner.
USCI	11.	The water quality shall be monitored and flow shall continue until the water quality returns to the initial water quality readings. <ul style="list-style-type: none"><li>• Final chlorine shall be documented.</li></ul>
USCI	12.	The insertion point shall be flushed to remove any ice that remains between the water main and hydrant.
USCI	13.	The entrance and exit locations shall be cleaned up with all materials and equipment removed from the site.
Owner	14.	The downstream main valve shall be opened and returned to full service.

**Exclusions and Limitation of Liability**

USCI and the Owner hereby agree that nothing in this Proposal and/or its exhibits shall impose liability on USCI or intend to be a warranty from USCI to the Owner or any third party regarding the following potential issues which could result from the performance of the ice pigging services required by this Proposal:

- a. red water and/or discolored water;
- b. clogging of filters, drains and/or meters by sediment; and
- c. taste and/or odor of the water.

Owner hereby agrees that the above-listed conditions could result from the ice pigging services through no fault of USCI, and the Owner hereby agrees that USCI shall not have any obligation to remedy any of the above-listed issues. Furthermore, the Owner hereby agrees that USCI shall not be obligated to indemnify the Owner from any of claims related to the above-listed issues.

CORAL REEF WAY  
DOCKSIDE PL

8258

20" 20" 1505'

TOURNAMENT DR

8257

DAYTONA BEACH

DAYTONA BEACH

8"

8264

8123

825

8124

8125

8126

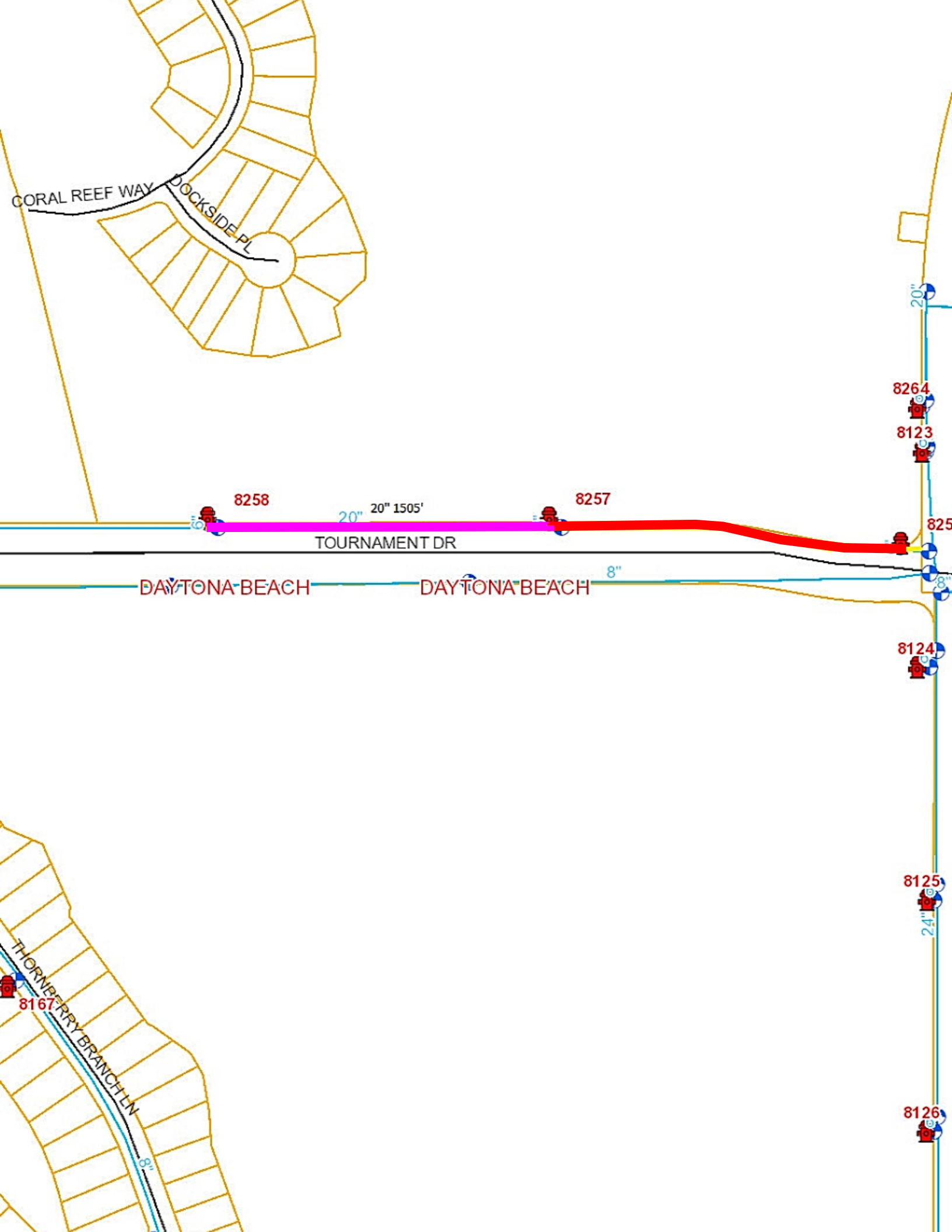
THORNHERRY BRANCH LN

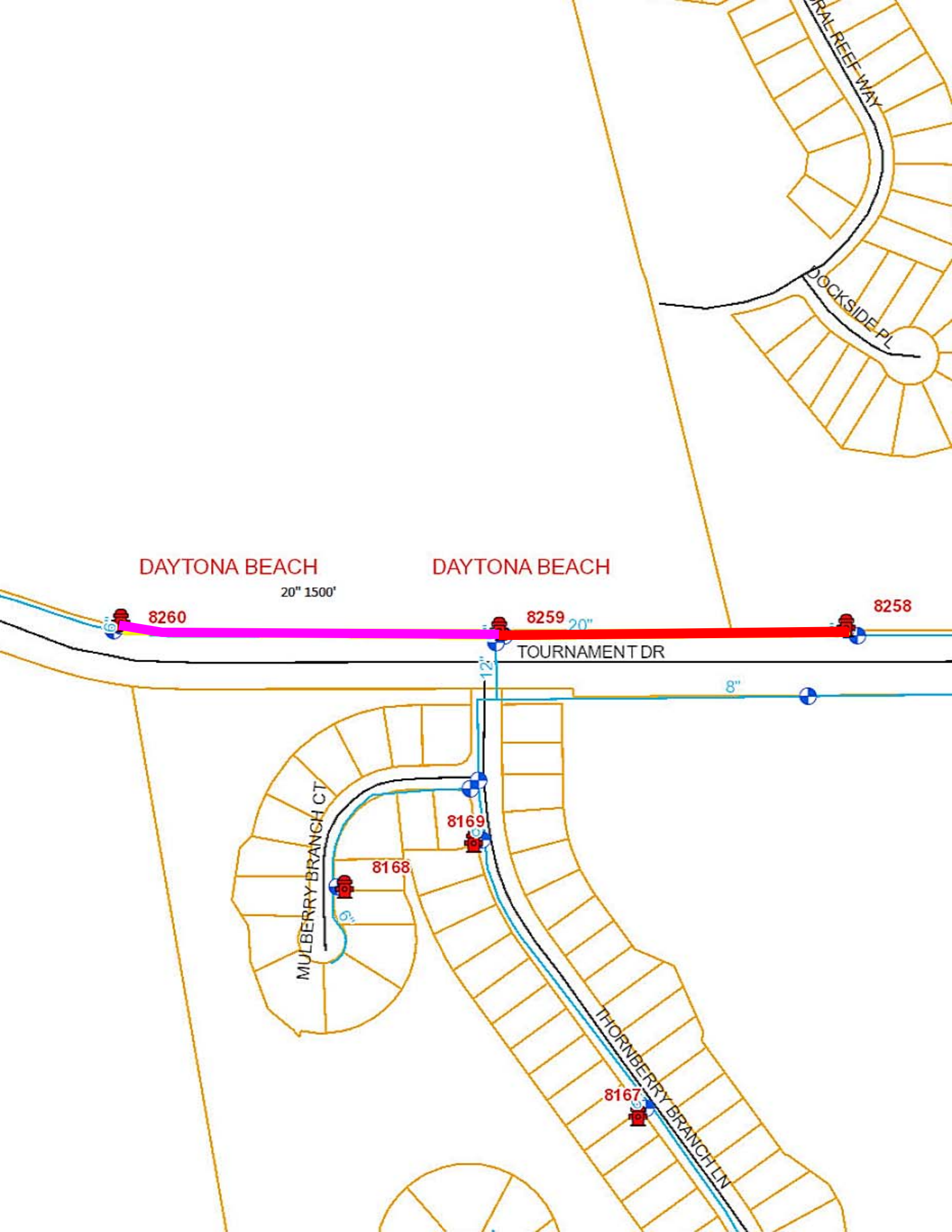
8167

8"

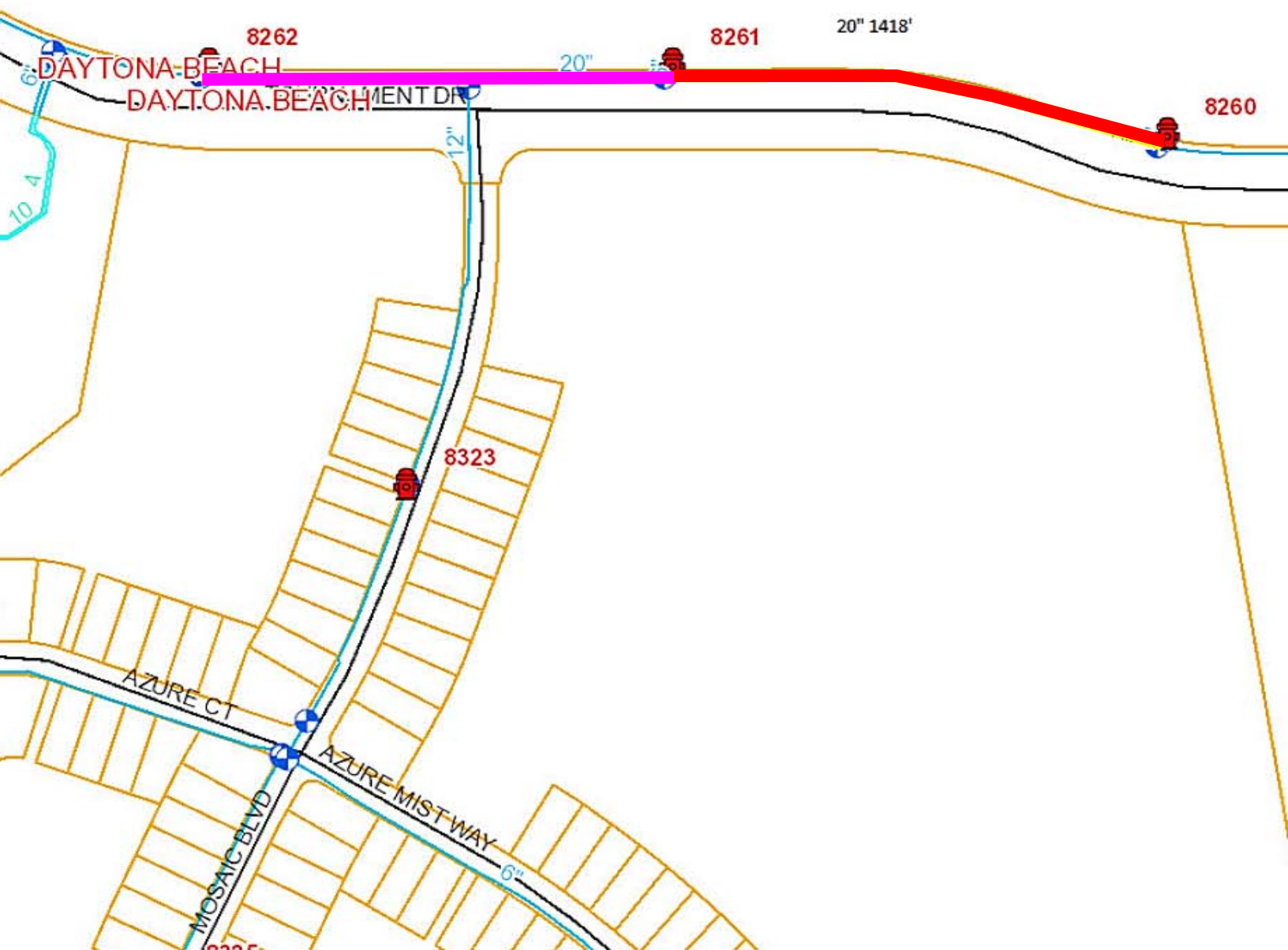
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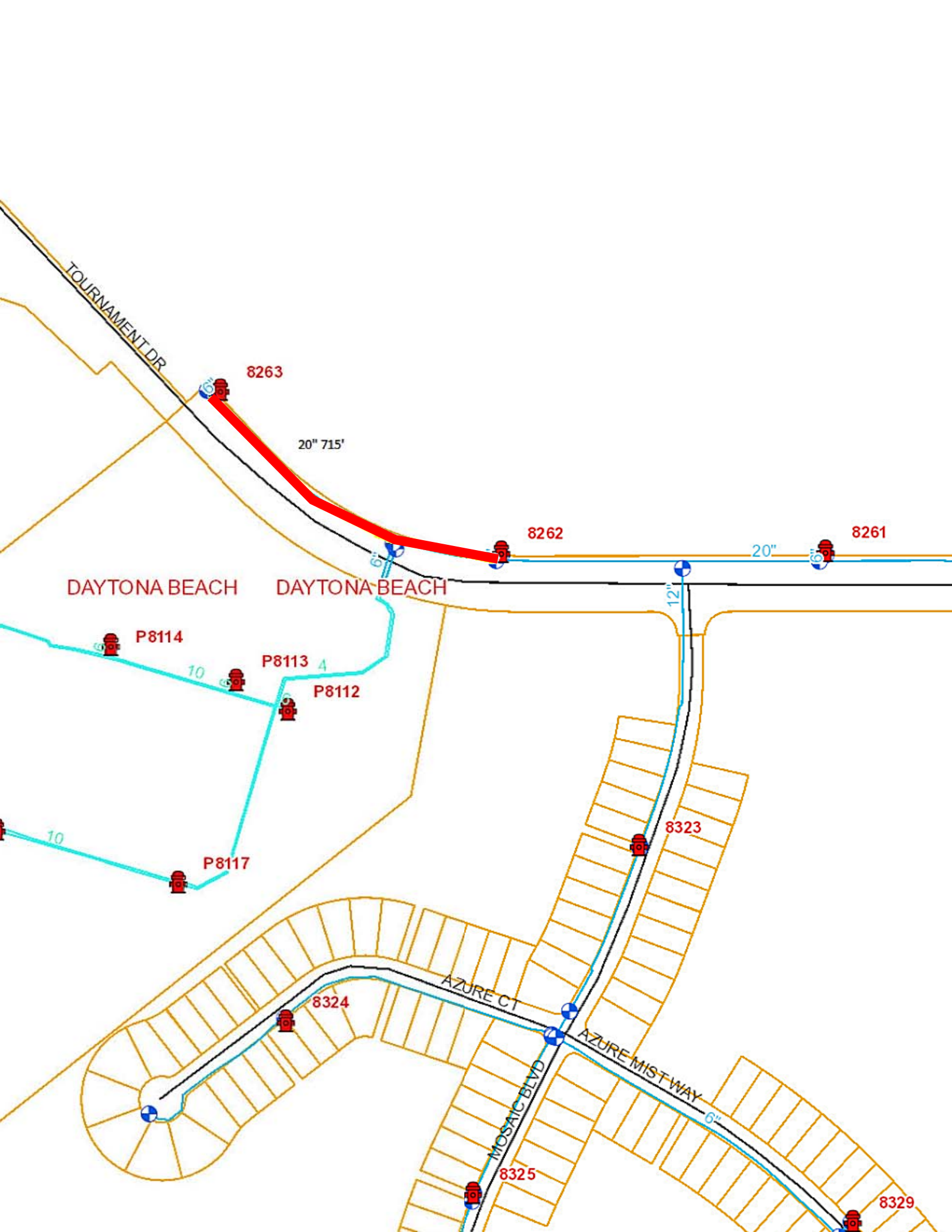
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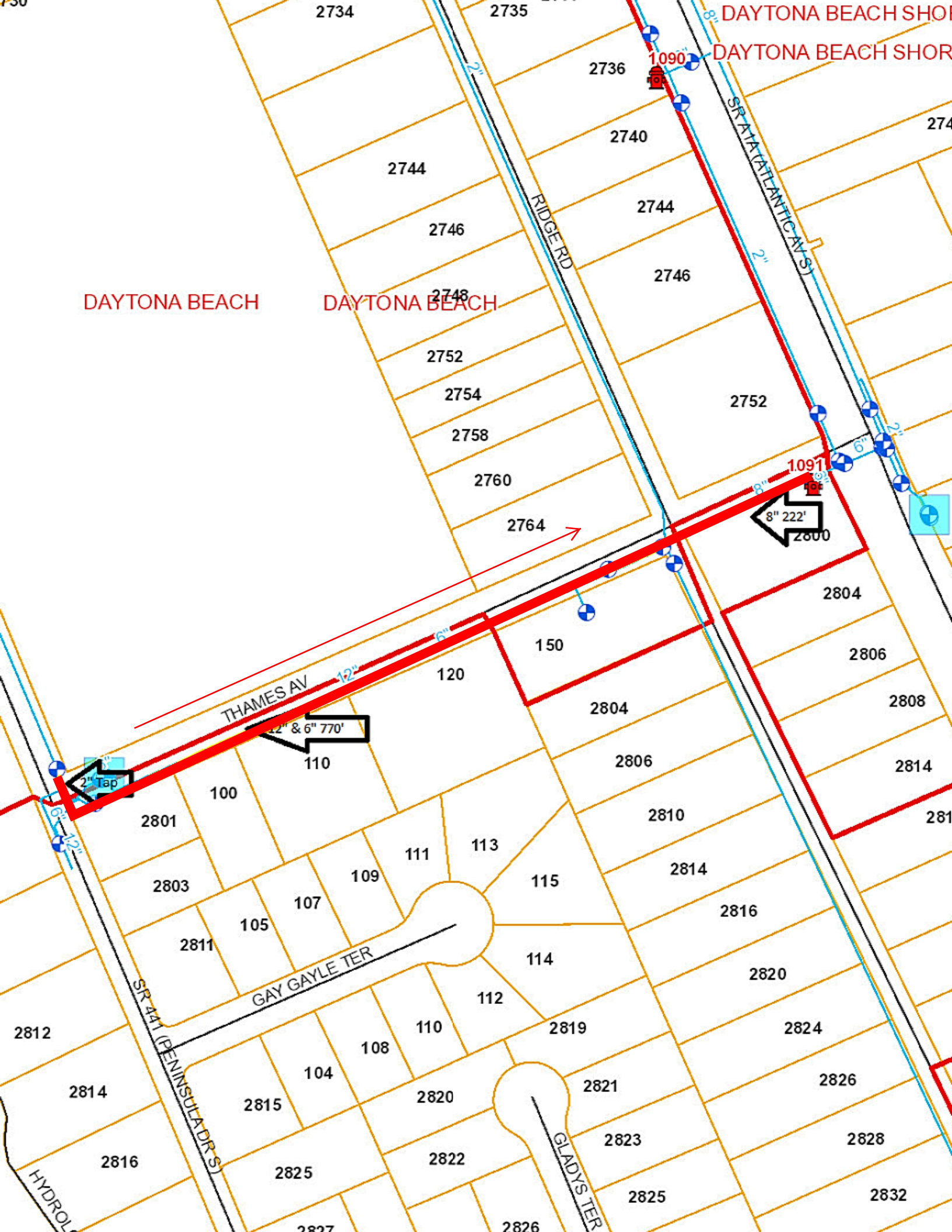


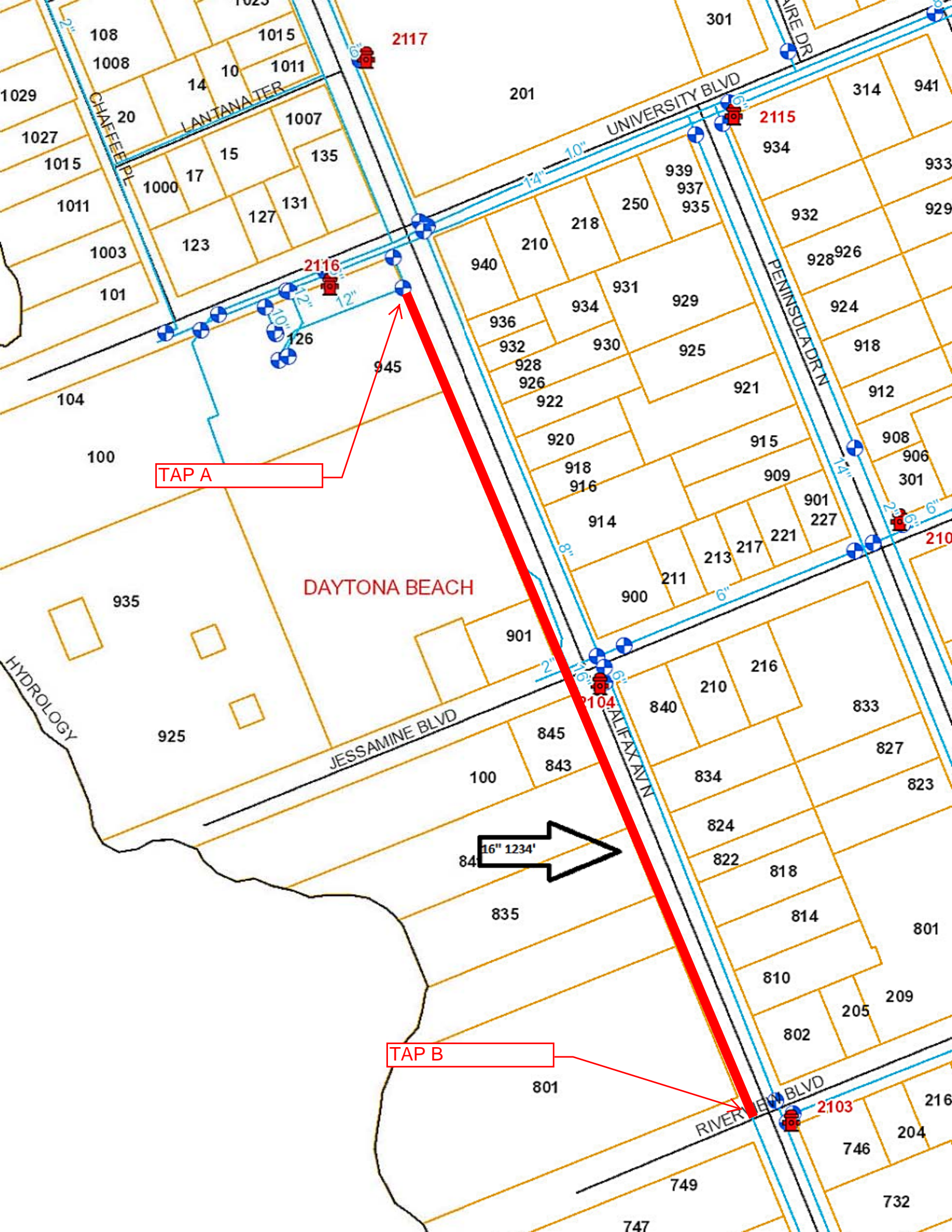












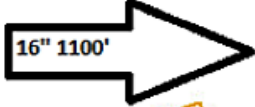
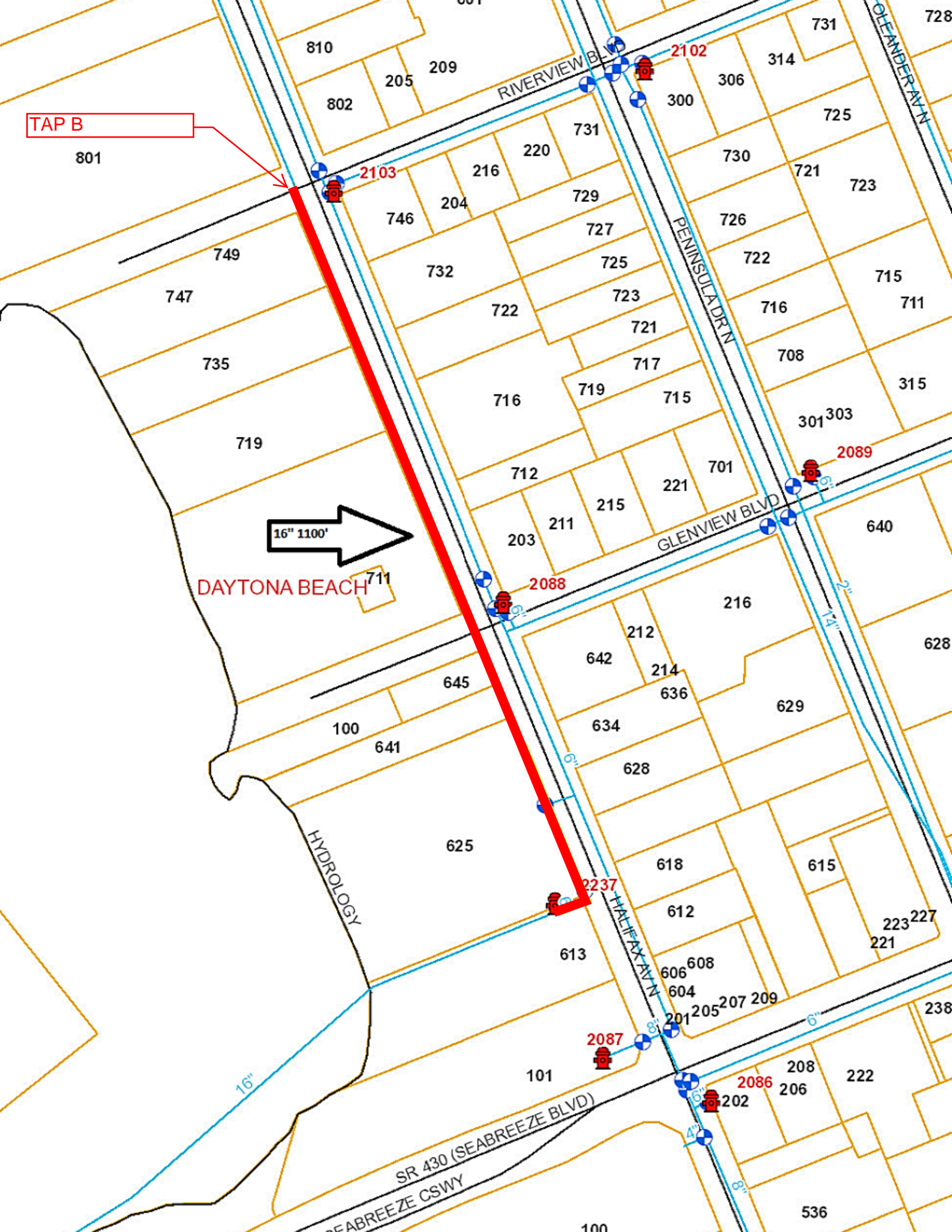
TAP A

DAYTONA BEACH

TAP B

16" 1234'

TAP B



DAYTONA BEACH

16"

HYDROLOGY

SR 430 (SEABREEZE BLVD)  
SEABREEZE CSWY

RIVERVIEW BLVD

PENINSULA DR

GLENVIEW BLVD

HALIFAX AVN

GLENDEN PAVN

810

205 209

802

731

2102

314

731

801

2103

216

220

731

306

725

749

746

204

729

730

721

723

747

732

722

727

725

722

715

735

721

717

716

711

719

716

719

715

708

315

712

211

215

701

301

303

2089

16" 1100'

711

203

211

221

640

2088

642

212

216

628

100

645

214

636

629

641

634

628

628

HYDROLOGY

625

618

615

612

223

227

613

606

608

221

16"

604

201

205

207

209

238

2087

6

6

6

223

227

101

6

6

6

6

208

222

2086

202

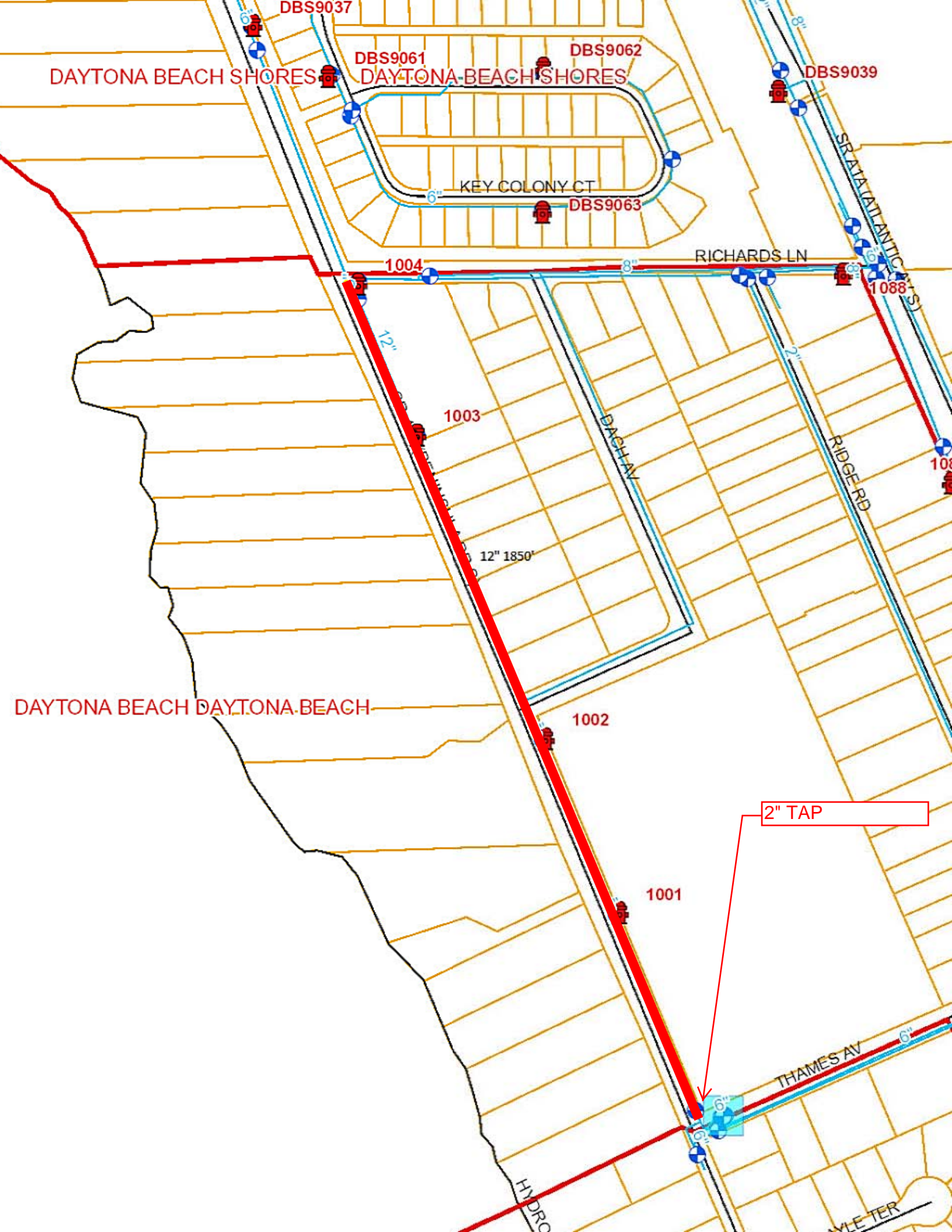
206

222

SEABREEZE CSWY

100

536



DAYTONA BEACH SHORES

DAYTONA BEACH SHORES

DBS9039

KEY COLONY CT

RICHARDS LN

SRATA ATLANTIC ST

1003

DACHAN

RIDGE RD

DAYTONA BEACH DAYTONA BEACH

1002

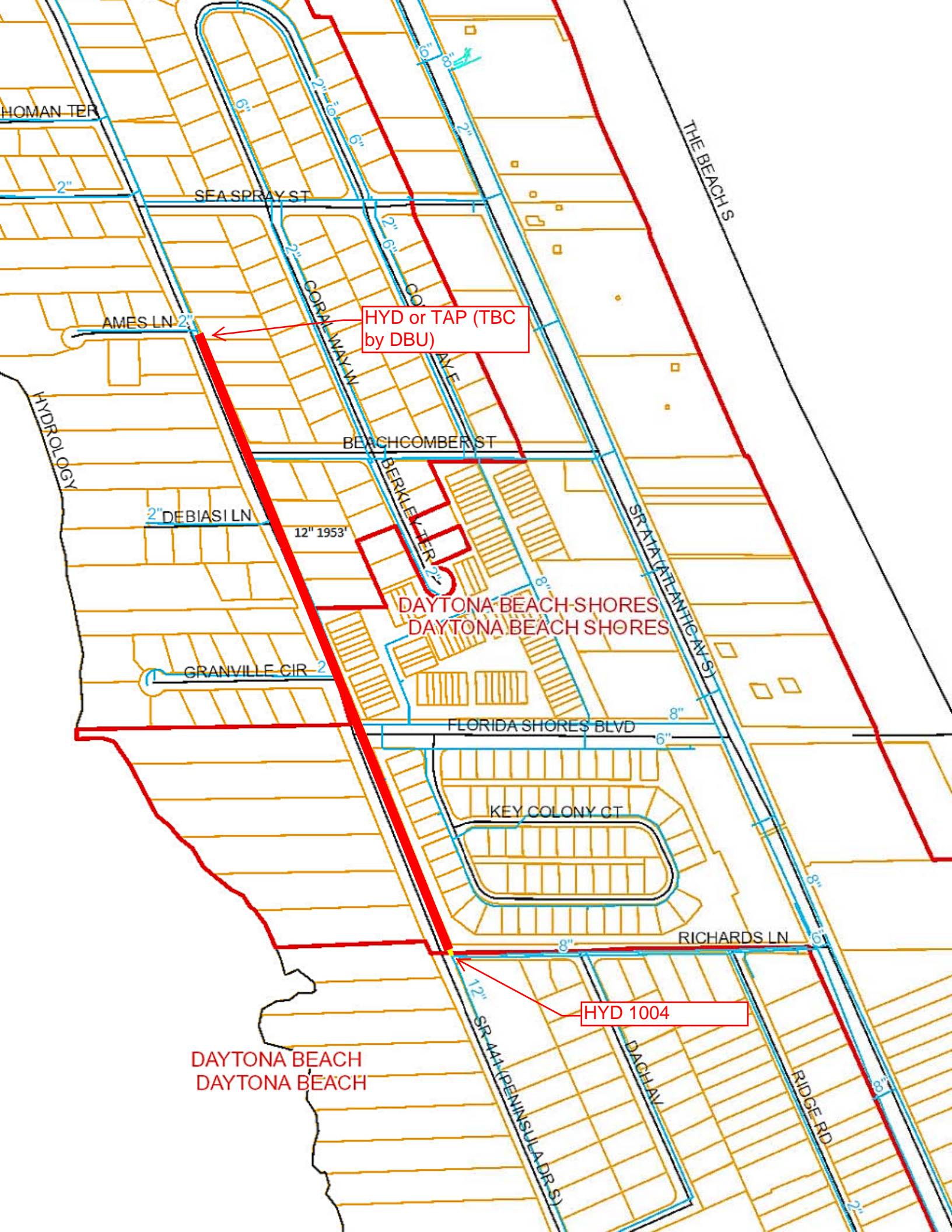
2" TAP

1001

THAMES AV

HYDE

WYLE TER



HYD or TAP (TBC by DBU)

HYD 1004

DAYTONA BEACH  
DAYTONA BEACH

DAYTONA BEACH SHORES  
DAYTONA BEACH SHORES

HOMAN TER

SEA SPRAY ST

CORAL WAY W

BEACHCOMBER ST

AMES LN

DEBIASI LN

GRANVILLE CIR

12" 1953'

FLORIDA SHORES BLVD

KEY COLONY CT

RICHARDS LN

SR 444 (PENINSULA DR S)

DACHTAY

RIDGE RD

THE BEACHS

HYDROLOGY

