

**WATER INTERCONNECTION AGREEMENT BY AND BETWEEN THE
ST. TAMMANY PARISH GOVERNMENT AND
THE TOWN OF MADISONVILLE
(Town of Madisonville Interconnection)**

This Water Interconnection Agreement ("Agreement") is made and entered into on the dates set forth herein below, by and between:

ST. TAMMANY PARISH GOVERNMENT, a political subdivision of the State of Louisiana and the governing authority of St. Tammany Parish, whose mailing address is P.O. Box 628, Covington, Louisiana 70434, herein appearing by and through Michael B. Cooper, Parish President, duly authorized by law (hereinafter referred to as "Parish"); and

THE TOWN OF MADISONVILLE, a political subdivision of the State of Louisiana, whose mailing address is 403 St. Francis St. Madisonville, Louisiana 70447, herein appearing by and through Jean Pelloat, Mayor, duly authorized by law (hereinafter referred to as "Town"); and

WHEREAS, Parish owns and operates a public water utility system furnishing water service to the public in parts of St. Tammany Parish; and

WHEREAS, Town owns and operates a water utility system and furnishes water service to the public in parts of St. Tammany Parish; and

WHEREAS, Parish desires to provide the Town with an emergency source of potable water supply at an interconnection point to be constructed; and

NOW, THEREFORE, in consideration of the mutual benefits and covenants contained in this Agreement, the Parties agree and bind their respective offices as follows:

1. INTERCONNECTION POINT

1.1 Location; Plans. The plans for the interconnection point are attached hereto as Exhibit "A" (hereinafter, the "Plans"). The location of the interconnection point shall be at Parish's existing eight-inch (8") water main near Black River Estates Subdivision on Hwy 22 (the "Interconnection Point"), all as more fully described by the Plans.

2. OBLIGATIONS OF THE PARTIES

2.1 Emergency Use. In the event of a bonafide Emergency (as defined below), the Parish has the express authority to divert water to the Town upon its own initiative at the Interconnection Point. The Town also has the authority to do so on its own accord, provided that it first attempts to notify the Parish immediately prior to any such diversion if within office hours. If after office hours, then the Town shall notify the Parish within one hour after office opening on the next business day.

- 2.1.1 “Emergency” is defined as any well malfunction, pump malfunction, severance of any water supply line, and/or any and all other mechanical or well failures which unexpectedly render potable water supply impossible.
- 2.1.2 Within (a) three (3) days or (b) upon receipt of results from the Louisiana Department of Health, whichever is sooner, following resolution of Emergency, the diverting party shall provide the diverted party with a clear water sample.
- 2.2 Temporary Use. In all other situations which are not construed as an Emergency, the Town may temporarily divert water supplies from the Parish subject to the following:
- 2.2.1 The Town shall provide the Parish with notification at least twenty-four (24) hours in advance of any such diversion, and the diverting party shall reasonably cooperate with the diverted party to arrange for a mutually convenient time in which said diversion may be made. Such notification shall include a copy of the most-recent clear water sample taken by the diverting party.
- 2.3 Ordinary Conditions. As a result of the interconnection described in this Agreement, the two water systems could be operated in an integrated manner. However, under ordinary operating conditions, each party shall operate its respective water systems independently of the other party’s water system, as it is the intent of the parties that each party will serve its own customers with its own water and that neither party will provide a water subsidy to the other.
- 2.4 Both parties shall comply with all applicable governmental laws, rules, regulations, licensing and requirements.
- 2.5 Neither party shall alter or construct any improvements to the Interconnection Point not provided for herein without the express written permission of the other party.
- 2.6 Ownership. Town shall maintain ownership of the improvements constructed by Town herein, except for the eight-inch (8”) tapping sleeve and valve installed onto Parish’s eight-inch (8”) water main, the ownership of which are hereby donated and conveyed to Parish upon Parish’s acceptance of the improvements constructed pursuant to this Agreement.
- 2.7 Ongoing Maintenance; Costs. Town shall remain responsible for its maintenance costs for equipment needed to utilize the Parish’s water supply. Each party shall bear the costs associated with the operation of its own wells and water distribution systems.
- 2.8 Security. Each party shall maintain a locking safety device on the valve which is located at the tie in. Each party is entitled to have means to gain access to the diversion valve at all times.

3. OBLIGATIONS OF TOWN

- 3.1 Construction.** Town shall extend its eight-inch (8") water main located near the Madisonville Oaks Subdivision westward along Hwy 22 to Black River to meet with Parish's eight-inch (8") water main at the Interconnection Point. Town shall install/tie-in an isolation valve at the Interconnection Point to connect Town extended water main, using a "hot tap" or other method which results in no disruption of Parish's water service in the area. All construction is to be performed by Town at its sole cost and expense.
- 3.2 Permits.** Town or its contractor shall apply for and receive any required, applicable permits prior to commencing work. Nothing contained in this Agreement shall waive Parish's requirements for permits.

4. OBLIGATIONS OF ST. TAMMANY PARISH

- 4.1 Construction Oversight.** Parish's Department of Environmental Services shall review, inspect and approve the constructions being undertaken by Town in accordance with Parish's ordinances, regulations and procedures.

5. PAYMENTS

- 5.1 Use of Diverted Water Supply.** For use of the diverted water supply, the Town shall pay a per diem rate of three hundred fifty one and 50/100 dollars (\$351.50) for each calendar day that water is diverted to supply the diverting party's system. Partial use on any calendar day shall be rounded up to a full calendar day. The diverted party will provide documentation of the utility costs charged to the diverting party, in a form reasonably required by the diverting party. All requests for payment must be submitted timely, supported by adequate documentation and approved before payment is made. Payments will be made only from approved documentation, and payments will be made within thirty (30) days following the submission of approved requests for payment.

3. TERMINATION AND BINDING NATURE

- 3.1** The term of this Agreement shall begin on the date of full execution of both parties hereto (the "Effective Date") and end on December 31, 2021 (the "Term"). Thereafter, this Agreement shall continuously and automatically renew for another period of one (1) year at expiration of the then-current term, unless either party gives notice to the other ninety (90) days in advance of its intent to terminate.
- 3.2** Any alteration, variation, modification, or waiver of provisions of this Agreement shall be valid only when it has been reduced to writing and approved of and executed by all parties prior to the alteration, variation, modification, or waiver of any provision of this Agreement.

- 3.3 Time is of the essence and the performance of the terms and conditions hereof shall be held in strict accordance with the times and dates specified herein.
- 3.4 Termination for Convenience. Should any Party seek to terminate this Agreement for any reason prior to the expiration of the Term, the Party seeking to terminate shall provide written notice of its intent to terminate ninety (90) days prior to the date of termination.
- 3.5 Appropriations. The continuation of this Agreement is contingent upon the appropriation of funds by Parish to fulfill the requirements of the Agreement. If the Parish fails to appropriate sufficient monies to provide for the continuation of this Agreement, or if such appropriation is reduced by the veto of the Parish President by any means provided in the appropriations ordinance to prevent the total appropriation for the year from exceeding revenues for that year, or for any other lawful purpose, and the effect of such reduction is to provide insufficient monies for the continuation of the Agreement, the Agreement shall terminate on the date of the beginning of the first fiscal year for which funds are not appropriated.

4. CONTRACTUAL VALIDITY AND MISCELLEANOUS PROVISIONS

- 4.1 In the event that any one or more provisions of this Agreement is for any reason held to be illegal or invalid, the Parties shall attempt in good faith to amend the defective provision in order to carry out the original intent of this Agreement.
- 4.2 If any term or clause herein is deemed unenforceable or invalid for any reason whatsoever, that portion shall be severable and the remainder of this Agreement shall remain in full force and effect.
- 4.3 Any suit filed by a party to this Agreement to resolve a dispute or controversy regarding the matters which are the subject of this Agreement shall be filed in the 22nd Judicial District Court for the Parish of St. Tammany which shall have exclusive venue and jurisdiction for any such action. Further, any dispute arising from this Agreement shall be governed by the laws of the State of Louisiana.
- 4.4 Any failure to take any action pursuant to this Agreement or to exercise any right granted herein does not serve as a waiver to any other obligation contained herein.
- 4.5 The Parties acknowledge and agree that the obligations and covenants made herein give rise to contractual rights of each party and the right to demand specific performance and any claim to damages suffered hereunder.

- 4.6 No Party herein shall assign any interest in this Agreement (whether by assignment or novation). This Agreement may be amended only by mutual written consent of the Parties.
- 4.7 Each representative herein warrants that they have the requisite authority and permission to enter, sign and bind their office.
- 4.8 Each Party certifies that it will adhere to and follow any and all ordinances, laws and licensing requirements applicable to each Party's obligations as stated herein.
- 4.9 If the diverted water is contaminated, the owner of the contaminated water hereby agrees to indemnify and hold harmless the diverting party for any liability or injury resulting from the diverting party's use of contaminated water. Said indemnification shall include claims, demands, losses, suits, damages, judgments, costs and expenses, whether indirect or consequential, and including, but not limited to, all fees, expenses and charges of attorneys and other professionals, expenses of assessment, investigation, remediation and/or removal of contaminated water. For purposes of this indemnity, contamination shall mean water which contains toxic materials, sewerage, chemical refuse, bacterial contamination and/or other harmful materials at such levels deemed to render the water unfit for human consumption pursuant to the National Primary Drinking Water Regulations set forth under the Safe Drinking Water Act.
- 4.10 If the ability of either party to deliver potable water is interrupted or impaired, in whole or in part, due to failure of equipment or facilities, leaks, required repairs to facilities, strikes, acts of god or other extraordinary circumstances, occurrences or conditions beyond the parties' control, then during the period of such interruption or impairment, the supply obligations described herein shall be suspended. Each party specifically acknowledges, understands and agrees that the obligations of the other party to provide potable water requires only the exercise of ordinary and reasonable care under the circumstances to maintain and have such potable water available hereunder, and that the party delivering potable water through the interconnection shall not be liable to the other party for any interruption of or curtailment caused by circumstances beyond its control.

5. **ENTIRE AGREEMENT**

This Agreement constitutes the entire understanding and reflects the entirety of the undertakings between the Parties with respect to the subject matter hereof, superseding all negotiations, prior discussions and preliminary agreements. There is no representation of warranty of any kind made in connection with the transactions contemplated hereby that is not expressly contained in this Agreement.

6. **NO PERSONAL LIABILITY OF INDIVIDUAL REPRESENTATIVE**

No covenant or agreement contained in this Agreement shall be deemed to be the covenant or agreement of any official, trustee, officer, agent or employee of any corporate party of his individual capacity, and neither of the officers of any party nor any official executing this Agreement shall be personally liable with respect to this Agreement or be subject to any personal liability or accountability under this Agreement by reason of the execution and delivery of this Agreement.

7. **NOTICES**

Any notice required or permitted to be given under or in connection with this Agreement shall be in writing and shall be either hand-delivered or mailed, postage pre-paid by First Class Mail, registered or certified, return receipt requested, or delivered by private, commercial carrier, express mail, such as Federal Express, or sent by, telecopier or other similar form of electronic transmission confirmed by written confirmation mailed (postage pre-paid by First Class Mail, registered or certified, return receipt requested or private, commercial carrier, express mail such as Federal Express) at substantially the same time as such rapid transmission. All communications shall be transmitted to the address or number set forth below or such other addresses or numbers to be named hereafter designated by a party in written notice to the other party compliant with this section.

If to Town:

Jean Pelloat, Mayor
Town Of Madisonville
403 St. Francis St.
Madisonville, LA 70447

If to Parish:

President Michael B. Cooper
St. Tammany Parish Government
P.O. Box 628
Covington, LA 70433

(Signature page follows.)

IN WITNESS WHEREOF, the Parties have caused this Agreement to be duly executed in multiple originals by the hereunder signed officers, each in the presence of the undersigned two (2) competent witnesses in St. Tammany Parish, State of Louisiana, as of the dates set forth, below after diligent reading of the whole, in various counterparts.

THUS DONE AND SIGNED on July 15, 2020 in the presence of the undersigned witnesses.

WITNESSES:

Melissa M. Broussard
Melissa M. Broussard
Laurene Ojeda
Laurene Ojeda

ST. TAMMANY PARISH GOVERNMENT

BY: Michael B. Cooper
Michael B. Cooper
Parish President

THUS DONE AND SIGNED on _____, 2020 in the presence of the undersigned witnesses.

WITNESSES:

Alicia Watts
Ife Ma

TOWN OF MADISONVILLE

BY: Jean Pelloat
Jean Pelloat
Mayor

EXHIBIT "A"

PLANS

[INSERT PLANS]

G:\17172\01-PRAC\DOH REVIEW\17172_01-Index Map.dwg [2] Jan 31, 2020 - B. Iden by hhhbos



3/2020	PPAC/DOH REVIEW	DOH			
BAK	REVISIONS	BY	DATE	REVISIONS	BY

TOWN OF MADISONVILLE,
LOUISIANA
OWNER

EMERGENCY WATER SYSTEM IMPROVEMENTS
AND FIRE HYDRANT REPLACEMENT
INDEX MAP
TITLE

DESIGNED BY	BOH	SCALE:	1" = 50'
DRAWN BY	CHB	DATE:	JANUARY 2020
CHECKED BY		APPROVED BY	

PEC PROFESSIONAL ENGINEERING
CONSULTANTS CORPORATION

7500 Independence Park Dr. | Baton Rouge, LA 70820 | 225.769.2910

PROJECT NO.	11478
SHEET NO.	2



UTILITY WARNING
 The Contractor is advised that existing overhead and underground utilities such as (but not limited to) electrical lines and poles, telephone cables, gas lines, water lines, and sanitary sewers exist in the right-of-way where the proposed improvements are to be installed. It is the Contractor's responsibility to protect these existing utilities during the construction of the work to be installed under this Contract and any damage to the existing utilities caused by the negligent acts of the Contractor shall be repaired by the Contractor at his expense. The Contractor shall contact Louisiana One (1) Call (1-800-272-5050) a minimum of 48 hours prior to beginning construction in the work area.

LEGEND	
	EXIST. 3/4" WATER MAIN
	EXIST. 1" WATER MAIN
	EXIST. 2" WATER MAIN
	EXIST. 4" WATER MAIN
	EXIST. 6" WATER MAIN
	EXIST. 8" WATER MAIN
	EXIST. WATER VALVE
	NEW WATER VALVE
	EXIST. FIRE HYDRANT
	NEW FIRE HYDRANT
	EXIST. FLUSH VALVE
	OLD PONCHATOLA WELL SERVICE AREA
	FIRE EDELT WELL SERVICE AREA
	WATER SAMPLING LOCATION



MATCH LINE - SEE SHEET 4

G:\V\1978\1978-01-01-Fire Hydrant Replacements [S]_en_31_2020 - B. Miller by 11/18/20

DATE	DESCRIPTION	BY	DATE	DESCRIPTION	BY
1/20/20	DESIGN	WENIG			

TOWN OF MADISONVILLE,
 LOUISIANA
 OFFICE

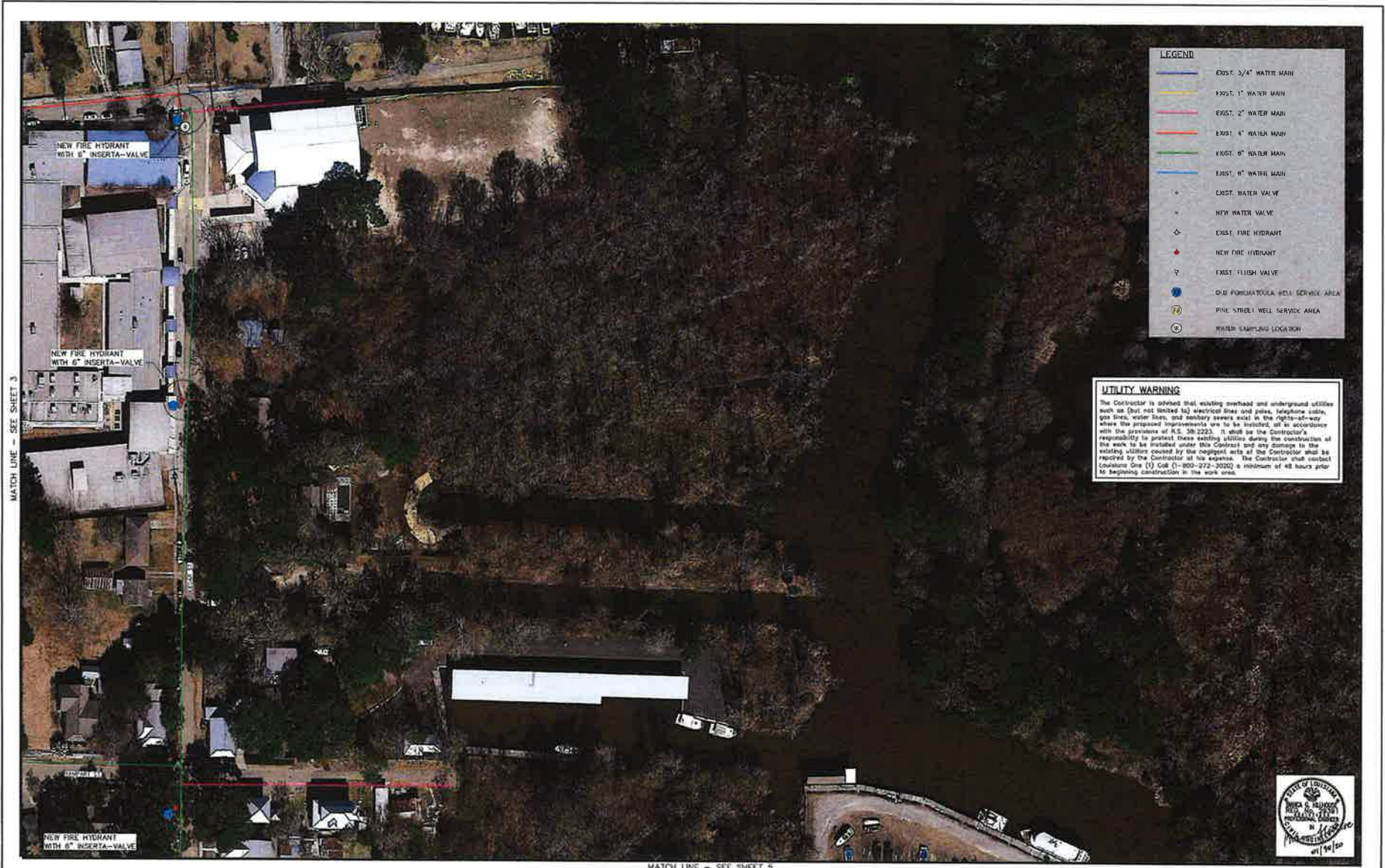
EMERGENCY WATER SYSTEM IMPROVEMENTS
 AND FIRE HYDRANT REPLACEMENT
 FIRE HYDRANTS AND VALVES - PLAN
 SHEET

DESIGNED	BY	SCALE
DRAWN	BY	1" = 50'
CHECKED	BY	
APPROVED	DATE	JANUARY 2020

PEC PROFESSIONAL ENGINEERING
 CONSULTANTS CORPORATION
 1400 Innovation Park Dr. | Baton Rouge, LA 70802 | 225.799.2832

PROJECT NO.	11478
SHEET NO.	3

C:\Users\pjacobs\OneDrive\Documents\Projects\2020\11478\11478.dwg - E:\user\pjacobs



LEGEND	
	EXIST. 3/4" WATER MAIN
	EXIST. 1" WATER MAIN
	EXIST. 2" WATER MAIN
	EXIST. 4" WATER MAIN
	EXIST. 6" WATER MAIN
	EXIST. 8" WATER MAIN
	EXIST. WATER VALVE
	NEW WATER VALVE
	EXIST. FIRE HYDRANT
	NEW FIRE HYDRANT
	EXIST. FLUSH VALVE
	OLD POKEMATOULA WELLS SERVICE AREA
	PINE STREET WELL SERVICE AREA
	WATER SAMPLING LOCATION

UTILITY WARNING

The Contractor is advised that existing overhead and underground utilities such as (but not limited to) electrical lines and poles, telephone cables, gas lines, water lines, and sanitary sewers exist in the right-of-way where the proposed improvements are to be installed, as in accordance with the provisions of A.S. 58:222. It shall be the Contractor's responsibility to protect these existing utilities during the construction of the work to be installed under this Contract and any damage to the existing utilities caused by the equipment used at the Contractor shall be repaired by the Contractor at his expense. The Contractor shall contact Louisiana One (1) Call (1-800-272-3000) a minimum of 48 hours prior to beginning construction in the work area.



NO.	REVISIONS	BY	DATE	REVISIONS	BY
1/2020	FINAL/ISSUE REVISION	BJH			
2/2020	REVISIONS	BJH			

TOWN OF MADISONVILLE,
LOUISIANA
OWNER

EMERGENCY WATER SYSTEM IMPROVEMENTS
AND FIRE HYDRANT REPLACEMENT
FIRE HYDRANTS AND VALVES - PLAN
TITLE

DESIGNED BY	SCALE
DRAWN BY	8" = 50'
CHECKED BY	DATE
APPROVED BY	JANUARY 2020

PEC PROFESSIONAL ENGINEERING
CONSULTANTS CORPORATION
2600 Innovation Park Dr. | Baton Rouge, LA 70820 | 225.769.2615

PROJECT NO. 11478
SHEET NO. 4

MATCH LINE - SEE SHEET 4

LEGEND	
	EXIST. 3/4" WATER MAIN
	EXIST. 1" WATER MAIN
	EXIST. 2" WATER MAIN
	EXIST. 4" WATER MAIN
	EXIST. 6" WATER MAIN
	EXIST. 8" WATER MAIN
	EXIST. WATER VALVE
	NEW WATER VALVE
	EXIST. FIRE HYDRANT
	NEW FIRE HYDRANT
	EXIST. FLUSH VALVE
	OLD PORCHACOLA WELL SERVICE AREA
	PINE STREET WELLS SERVICE AREA
	WATER DAWLING LOCATION

UTILITY WARNING
 The Contractor is advised that existing overhead and underground utilities such as (but not limited to) electrical lines and poles, telephone cables, gas lines, water lines, and sanitary sewers exist in the right-of-way where the proposed improvements are to be installed. It is the Contractor's responsibility to protect these existing utilities during the construction of the work to be installed under this Contract and any damage to the existing utilities caused by the negligent acts of the Contractor shall be repaired by the Contractor at his expense. The Contractor shall contact Louisiana One (1) Call (1-800-272-3022) a minimum of 48 hours prior to beginning construction in the work area.



MATCH LINE - SEE SHEET 6

D:\11478\11478-05-05 Fire Hydrant Replacements [S] Jan 31, 2020 - 8:42am by bshelton

1/2020	IFAC/DMH NEWEN	BSJ			
DATE	REVISIONS	BY	DATE	REVISIONS	BY

TOWN OF MADISONVILLE,
 LOUISIANA
 OWNER

EMERGENCY WATER SYSTEM IMPROVEMENTS
 AND FIRE HYDRANT REPLACEMENT
 FIRE HYDRANTS AND VALVES - PLAN
 TITLE

DESIGNED BY	SCALE
DRAWN BY	1" = 50'
CHECKED BY	DATE
APPROVED BY	JANUARY 2020



PROJECT NO. 11478
 SHEET NO. 5



MATCH LINE - SEE SHEET 7

LEGEND

- EXIST. 3/4" WATER MAIN
- EXIST. 1" WATER MAIN
- EXIST. 2" WATER MAIN
- EXIST. 4" WATER MAIN
- EXIST. 6" WATER MAIN
- EXIST. 8" WATER MAIN
- EXIST. WATER VALVE
- NEW WATER VALVE
- EXIST. FIRE HYDRANT
- ▲ NEW FIRE HYDRANT
- ▽ EXIST. FLUSH VALVE
- OLD PONCHAULOULA WELL SERVICE AREA
- PINE STREET WELL SERVICE AREA
- WATER SAMPLING LOCATION

NEW FIRE HYDRANT WITH 6" INSERT-VALVE

UTILITY WARNING
 The Contractor is advised that existing overhead and underground utilities such as (but not limited to) electrical lines and poles, telephone cables, gas lines, water lines, and sanitary sewers exist in the right-of-way where the proposed improvements are to be installed, all in accordance with the provisions of R.S. 56:2225. It shall be the Contractor's responsibility to protect these existing utilities during the construction of the work to be installed under this Contract and any damage to the existing utilities caused by the negligent acts of the Contractor shall be repaired by the Contractor at his expense. The Contractor shall contact Louisiana One (1) Call (1-800-272-3020) a minimum of 48 hours prior to beginning construction in the work area.

MATCH LINE - SEE SHEET 9



G:\1\2020\11478-DR\11478-DR-01 Fire Hydrant Replacement [0] Jan 21, 2020 - 8:40am by barthelemy

1/2/2020	PROJ/DR REVIEW	BY	DATE	DESCRIPTION	BY	DATE
1/2/20	REVISION	BY	DATE	DESCRIPTION	BY	DATE

TOWN OF MADISONVILLE,
 LOUISIANA
 ENGINEER

EMERGENCY WATER SYSTEM IMPROVEMENTS
 AND FIRE HYDRANT REPLACEMENT
 FIRE HYDRANTS AND VALVES - PLAN
 TITLE

DESIGNED BY	SCALE
DRAWN BY	1" = 30'
CHECKED BY	DATE
APPROVED BY	JANUARY 2020

PEC PROFESSIONAL ENGINEERING CONSULTANTS CORPORATION
 7600 Innovation Park Dr. | Baton Rouge, LA 70820 | 225.769.2870

PROJECT ID: 11478
 SHEET NO: 6

MATCH LINE - SEE SHEET B

- LEGEND**
- EXIST. 3/4" WATER MAIN
 - EXIST. 1" WATER MAIN
 - EXIST. 2" WATER MAIN
 - EXIST. 4" WATER MAIN
 - EXIST. 6" WATER MAIN
 - EXIST. 8" WATER MAIN
 - EXIST. WATER VALVE
 - NEW WATER VALVE
 - ⊕ EXIST. FIRE HYDRANT
 - ⊕ NEW FIRE HYDRANT
 - ⊕ EXIST. FLUSH VALVE
 - ⊕ OLD POND/WOOLA WELL SERVICE AREA
 - ⊕ FINE STREET WELL SERVICE AREA
 - ⊕ WATER SAMPLING LOCATION

UTILITY WARNING

The Contractor is advised that existing overhead and underground utilities such as (but not limited to) electrical lines and poles, telephone cables, gas lines, water lines, and sanitary sewers exist in the right-of-way where the proposed improvements are to be installed, all in accordance with the provisions of R.S. 38:2225. It shall be the Contractor's responsibility to protect these existing utilities during the construction of the work to be installed under this Contract and any damage to the existing utilities caused by the negligent acts of the Contractor shall be repaired by the Contractor at his expense. The Contractor shall contact Louisiana One (1) Call (1-800-272-2020) a minimum of 48 hours prior to beginning construction in the work area.



G:\172282-1\F&C-Data\REVISED\1722-09 Fire Hydrant Replacements.dwg, 01.30.2020 - E. Blain by Blain

DATE	BY	DATE	BY	DATE	BY

TOWN OF MADISONVILLE,
LOUISIANA
OWNERS

EMERGENCY WATER SYSTEM IMPROVEMENTS
AND FIRE HYDRANT REPLACEMENT
FIRE HYDRANTS AND VALVES - PLAN
DATE

DESIGNED BY	SCALE
DRAWN BY	1" = 30'
CHECKED BY	DATE
APPROVED BY	JANUARY 2020

PEC PROFESSIONAL ENGINEERING CONSULTANTS CORPORATION
1600 Brookshire Park Dr. | Baton Rouge, LA 70820 | 225.769.2810

PROJECT ID: 11478
SHEET NO: 9

G:\1478\DWG-FAC_DWG_REVIEW\1478_D-11_Hwy 22 Water Main Extension [1] Feb 12, 2020 - 1:36pm by Nhadre



MATCH LINE - SEE SHEET 10

UTILITY WARNING
 The Contractor is advised that existing overhead and underground utilities such as (but not limited to) electrical lines and poles, telephone cables, gas lines, water lines, and sanitary sewers exist in the right-of-way where the proposed improvements are to be installed, all in accordance with the provisions of R.S. 38:2223. It shall be the Contractor's responsibility to protect these existing utilities during the construction of the work. To be installed under the Contract and any damage to the existing utilities caused by the negligent acts of the Contractor shall be repaired by the Contractor at his expense. The Contractor shall contact Louisiana One (1) Call (1-800-222-3000) a minimum of 48 hours prior to beginning construction in the work area.

LEGEND

	NEW 8" WATER MAIN
	EXIST. 8" WATER MAIN
	EXIST. WATER VALVE
	NEW WATER VALVE
	EXIST. FIRE HYDRANT



1/2/20	FINAL REVIEW	BY	
DATE	REVISION	BY	DATE

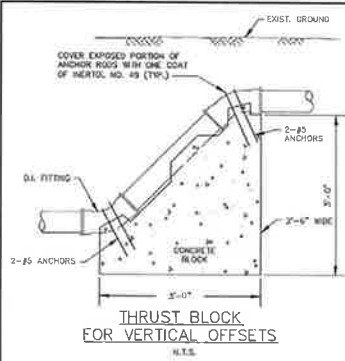
TOWN OF MADISONVILLE,
 LOUISIANA
 OWNER

EMERGENCY WATER SYSTEM IMPROVEMENTS
 AND FIRE HYDRANT REPLACEMENT
 LA HWY. 22 WATER MAIN EXTENSION - PLAN
 TITLE

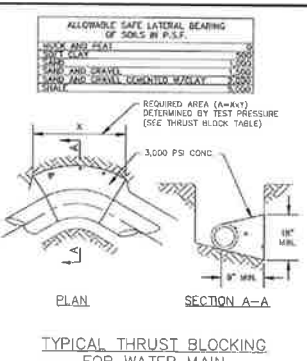
DRAWN: NHA	SCALE: 1" = 30'
CHECKED: NHA	DATE: JANUARY 2020
APPROVED:	

PEC PROFESSIONAL ENGINEERING
 CONSULTANTS CORPORATION
 2600 Innovation Park Dr. | Baton Rouge, LA 70802 | 225.769.3870

PROJECT NO.
 11478
 SHEET NO.
 11



THRUST BLOCK FOR VERTICAL OFFSETS
N.T.S.



TYPICAL THRUST BLOCKING FOR WATER MAIN
N.T.S.

LENGTH OF RESTRAINED JOINT PIPE REQUIRED TO RESTRAINED FITTINGS

PIPE	FITTING	L	PIPE	FITTING	L
6	11 1/4	6	20	11 1/4	18
8	15	8	24	15	24
10	17 1/2	10	30	17 1/2	30
12	20	12	36	20	36
15	24	15	45	24	45
18	27	18	54	27	54
20	30	20	60	30	60
24	36	24	72	36	72
30	45	30	90	45	90
36	54	36	108	54	108
45	66	45	135	66	135
54	81	54	162	81	162
66	99	66	198	99	198
81	117	81	234	117	234
99	140	99	279	140	279
117	162	117	324	162	324
140	195	140	396	195	396
162	225	162	450	225	450
195	270	195	540	270	540
225	315	225	630	315	630
270	378	270	756	378	756
315	438	315	864	438	864
378	522	378	1008	522	1008
438	603	438	1170	603	1170
522	702	522	1368	702	1368
603	810	603	1596	810	1596
702	936	702	1854	936	1854
810	1080	810	2142	1080	2142
936	1242	936	2466	1242	2466
1080	1410	1080	2826	1410	2826
1242	1596	1242	3222	1596	3222
1410	1800	1410	3654	1800	3654
1596	2022	1596	4122	2022	4122
1800	2268	1800	4626	2268	4626
2022	2538	2022	5166	2538	5166
2268	2832	2268	5742	2832	5742
2538	3150	2538	6354	3150	6354
2832	3492	2832	7002	3492	7002
3150	3858	3150	7686	3858	7686
3492	4248	3492	8406	4248	8406
3858	4662	3858	9162	4662	9162
4248	5100	4248	9954	5100	9954
4662	5562	4662	10782	5562	10782
5100	6048	5100	11646	6048	11646
5562	6558	5562	12546	6558	12546
6048	7092	6048	13482	7092	13482
6558	7750	6558	14454	7750	14454
7092	8430	7092	15462	8430	15462
7750	9132	7750	16506	9132	16506
8430	9858	8430	17586	9858	17586
9132	10708	9132	18702	10708	18702
9858	11682	9858	19854	11682	19854
10708	12780	10708	21042	12780	21042
11682	13992	11682	22266	13992	22266
12780	15318	12780	23526	15318	23526
13992	16768	13992	24822	16768	24822
15318	18342	15318	26154	18342	26154
16768	19940	16768	27522	19940	27522
18342	21662	18342	28926	21662	28926
19940	23508	19940	30366	23508	30366
21662	25478	21662	31842	25478	31842
23508	27572	23508	33354	27572	33354
25478	29790	25478	34902	29790	34902
27572	32132	27572	36486	32132	36486
29790	34600	29790	38106	34600	38106
32132	37194	32132	39762	37194	39762
34600	40014	34600	41454	40014	41454
37194	43060	37194	43182	43060	43182
40014	46332	40014	44946	46332	44946
43060	49830	43060	46746	49830	46746
46332	53554	46332	48582	53554	48582
49830	57504	49830	50454	57504	50454
53554	61680	53554	52362	61680	52362
57504	66082	57504	54306	66082	54306
61680	70710	61680	56286	70710	56286
66082	75564	66082	58302	75564	58302
70710	80644	70710	60354	80644	60354
75564	85950	75564	62442	85950	62442
80644	91482	80644	64566	91482	64566
85950	97240	85950	66726	97240	66726
91482	103224	91482	68922	103224	68922
97240	109434	97240	71154	109434	71154
103224	115870	103224	73422	115870	73422
109434	122532	109434	75726	122532	75726
115870	129420	115870	78066	129420	78066
122532	136534	122532	80442	136534	80442
129420	143874	129420	82854	143874	82854
136534	151440	136534	85302	151440	85302
143874	159232	143874	87786	159232	87786
151440	167250	151440	90306	167250	90306
159232	175494	159232	92862	175494	92862
167250	183964	167250	95454	183964	95454
175494	192660	175494	98082	192660	98082
183964	201582	183964	100746	201582	100746
192660	210730	192660	103446	210730	103446
201582	220104	201582	106182	220104	106182
210730	229704	210730	108954	229704	108954
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229704	249582	229704	114606	249582	114606
239530	259860	239530	117486	259860	117486
249582	270364	249582	120402	270364	120402
259860	281094	259860	123354	281094	123354
270364	292050	270364	126342	292050	126342
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292050	314640	292050	132426	314640	132426
303232	326274	303232	135522	326274	135522
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326274	350220	326274	141822	350220	141822
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362532	387814	362532	151542	387814	151542
375060	400794	375060	154854	400794	154854
387814	414000	387814	158202	414000	158202
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427432	454974	427432	168462	454974	168462
441090	469084	441090	171954	469084	171954
454974	483420	454974	175482	483420	175482
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512760	542994	512760	189954	542994	189954
527764	558450	527764	193662	558450	193662
542994	574132	542994	197406	574132	197406
558450	589940	558450	201186	589940	201186
574132	605974	574132	205002	605974	205002
589940	622234	589940	208854	622234	208854
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622234	655432	622234	216666	655432	216666
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655432	689514	655432	224622	689514	224622
672360	706894	672360	228654	706894	228654
689514	724500	689514	232722	724500	232722
706894	742332	706894	236826	742332	236826
724500	760390	724500	240966	760390	240966
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760390	797184	760390	249354	797184	249354
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797184	834882	797184	257886	834882	257886
815920	854070	815920	262206	854070	262206
834882	873484	834882	266562	873484	266562
854070	893124	854070	270954	893124	270954
873484	912990	873484	275382	912990	275382
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912990	953400	912990	284346	953400	284346
933082	973944	933082	288882	973944	288882
953400	994714	953400	293454	994714	293454
973944	1015710	973944	298062	1015710	298062
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1015710	1058380	1015710	307386	1058380	307386
1036932	1080054	1036932	312102	1080054	312102
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1146432	1191814	1146432	336222	1191814	336222
1169010	1214844	1169010	341154	1214844	341154
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1214844	1261554	1214844	351126	1261554	351126
1238090	1285236	1238090	356166	1285236	356166
1261554	1309138	1261554	361		