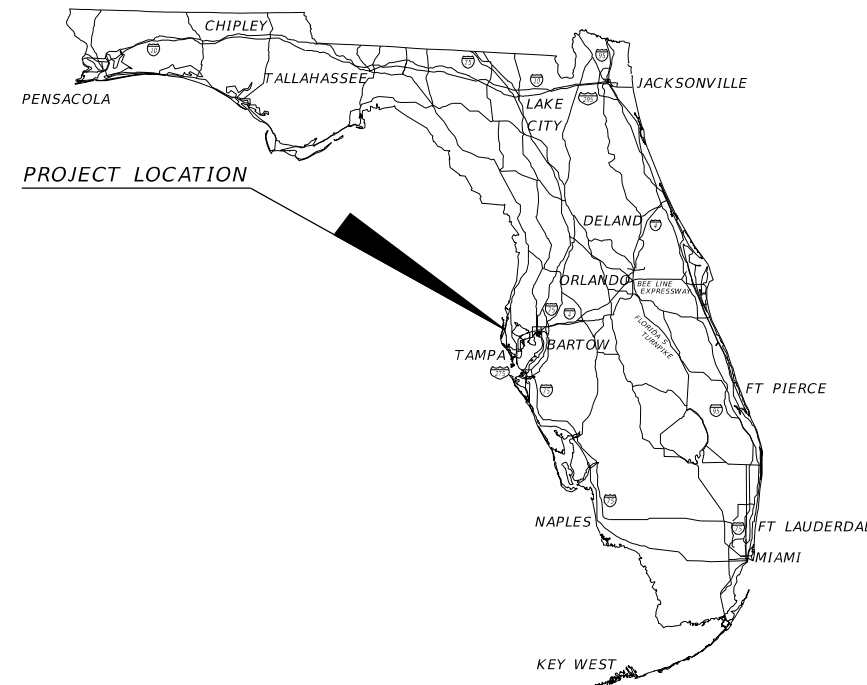


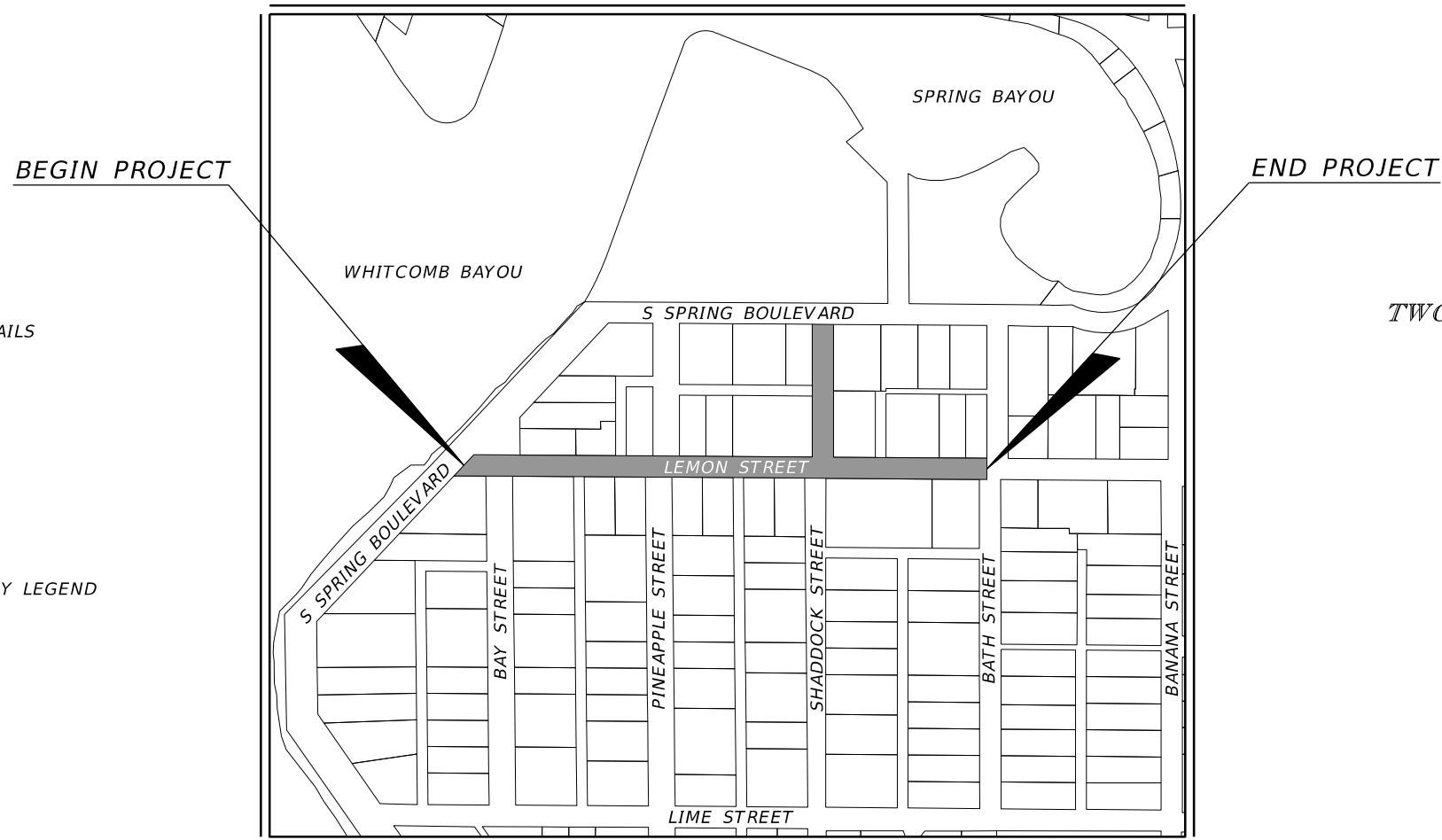
**CITY OF
TARPON SPRINGS
PLANS OF PROPOSED**

**LEMON STREET
from S SPRING BOULEVARD to BATH STREET
AND SHADDOCK STREET
from LEMON STREET to S SPRING BOULEVARD
PAVEMENT REHABILITATION**



INDEX OF ROADWAY PLANS

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2	TYPICAL SECTION
3	GENERAL NOTES
4 - 9	ROADWAY PLAN
10 - 15	GRADING PLAN
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19	DRAINAGE DETAIL
20	ROADWAY CONSTRUCTION DETAILS
21	TRAFFIC CONTROL PLAN
22	BORING LOCATION PLAN
23	SOIL PROFILE SHEET
24 - 29	EXISTING UTILITIES
30 - 35	WATER MAIN PLAN & PROFILE
36	WATER MAIN DETAILS & UTILITY LEGEND



**CONTACT SUNSHINE 811
TWO FULL BUSINESS DAYS BEFORE YOU DIG
CALL 811 OR 1-800-432-4770**

ROADWAY SHOP DRAWINGS
TO BE SUBMITTED TO:
ERIK C. LESCHAK, P.E.
C/O AMERICAN CONSULTING ENGINEERS OF FLORIDA, LLC
2818 CYPRESS RIDGE BOULEVARD
SUITE 200
WESLEY CHAPEL, FLORIDA 33544
(813) 435-2600

PLANS PREPARED BY:
American
Consulting Engineers of Florida, LLC
2818 Cypress Ridge Blvd, Suite 200
Wesley Chapel, Florida 33544
Phone: (813) 435-2600 Fax: (813) 435-2601
Certificate of Authorization No. 9302

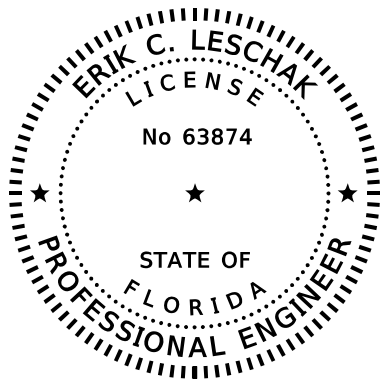
NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.

**100% PLAN SUBMITTAL
DATE: 12/16/2022**

ROADWAY PLANS
ENGINEER OF RECORD: ERIK C. LESCHAK, P.E.

P.E. NO.: 63874

PROJECT NO.	SHEET NO.
5159278.003	1 OF 36



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

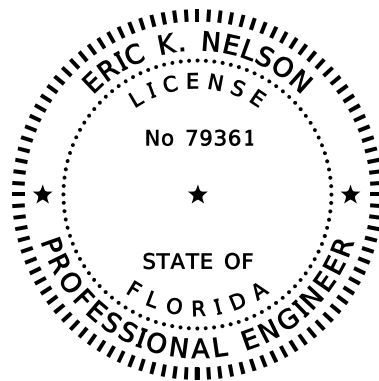
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American Consulting Engineers of Florida, LLC
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Phone: (813) 435-2600 Fax: (813) 435-2601
Certificate of Authorization No. 9302
Erik C. Leschak, P.E. No. 63874

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
1A	SIGNATURE SHEET
2	TYPICAL SECTION
3	GENERAL NOTES
4-9	ROADWAY PLAN
10-15	GRADING PLAN
20	ROADWAY CONSTRUCTION DETAILS
21	TRAFFIC CONTROL PLAN
24-29	EXISTING UTILITIES



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

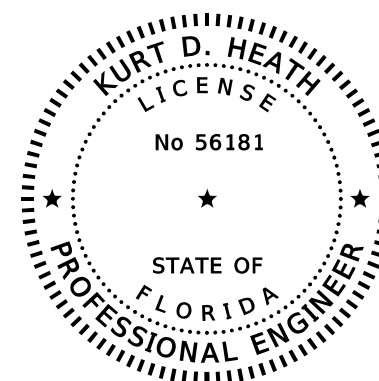
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Phone: (813) 435-2600 Fax: (813) 435-2601
Certificate of Authorization No. 9302
Eric K. Nelson, P.E. No. 79361

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1A	SIGNATURE SHEET
16-18	DRAINAGE PLAN
19	DRAINAGE DETAIL



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

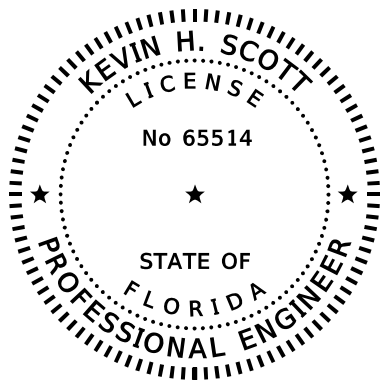
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

Stroud Engineering Consultants, INC
10503 CYNDEE LANE
ODESSA, FLORIDA 33556
Phone: (813) 760-1964 Fax: N/A
Certificate of Authorization No. 29607
Kurt D. Heath, P.E. No. 56181

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1A	SIGNATURE SHEET
30-35	WATER MAIN PLAN & PROFILE
36	WATER MAIN DETAILS & UTILITY LEGEND



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

Tierra, INC
7351 Temple Terrace Highway
Tampa, Florida, 33637
Phone: (813) 989-1354 Fax: (813) 989-1355
Certificate of Authorization No. 6486
Kevin H. Scott, P.E. No. 65514

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1A	SIGNATURE SHEET
22	BORING LOCATION PLAN
23	SOIL PROFILE SHEET

REVISIONS	BY	DATE	CHECKED	ASP	01/31/20

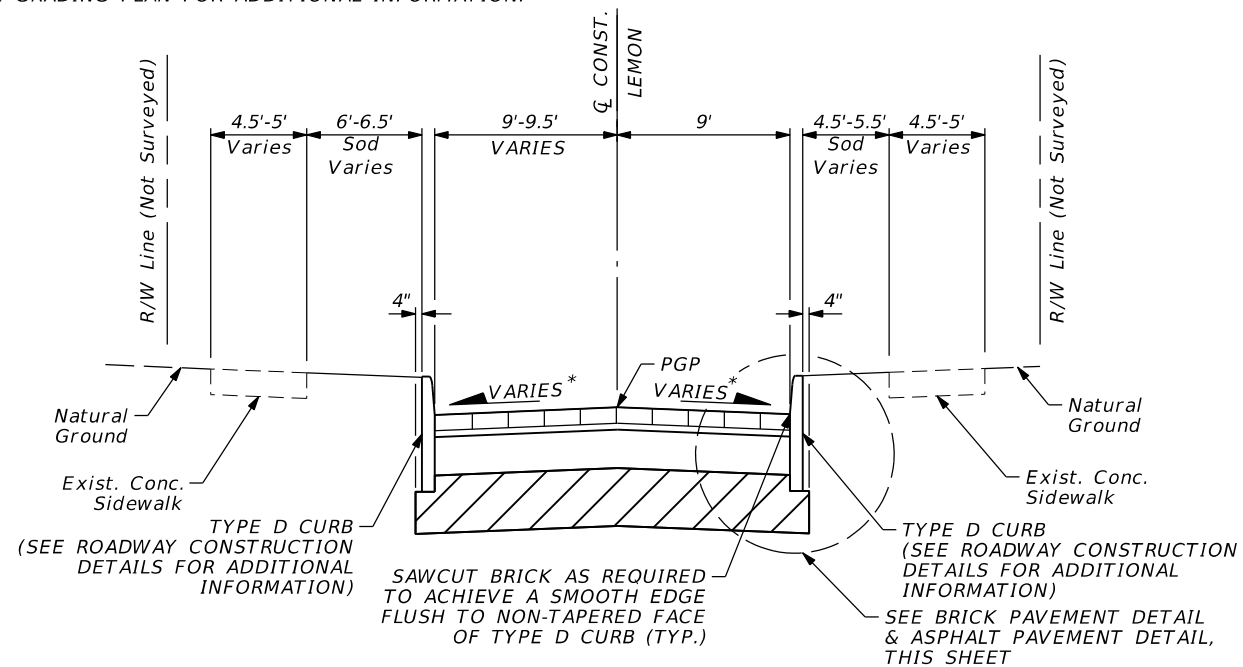
BY DATE
DESIGNED DAI 01/06/20
DRAWN RWS 01/13/20
CITY OF TARPON SPRINGS

SIGNATURE SHEET

American Consulting Engineers of Florida, LLC
2818 Cypress Ridge Blvd, Suite 200
Wesley Chapel, Florida 33544
Phone: (813) 435-2600 Fax: (813) 435-2601
Certificate of Authorization No. 9302

DATE: 12/16/2022
SCALE: N/A
SHEET: 1A of 36

* SEE GRADING PLAN FOR ADDITIONAL INFORMATION.

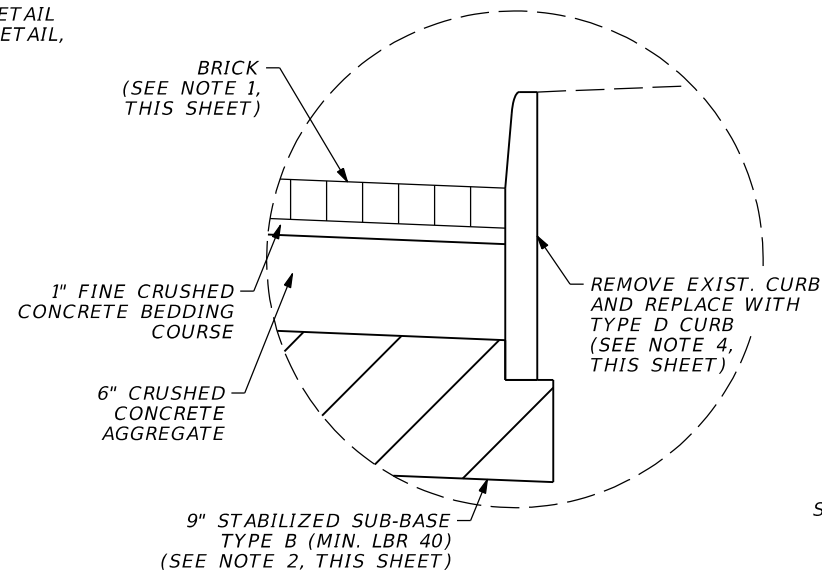


TYPICAL SECTION - LEMON STREET
from S Spring Boulevard to Bath Street

N.T.S.

NOTES:

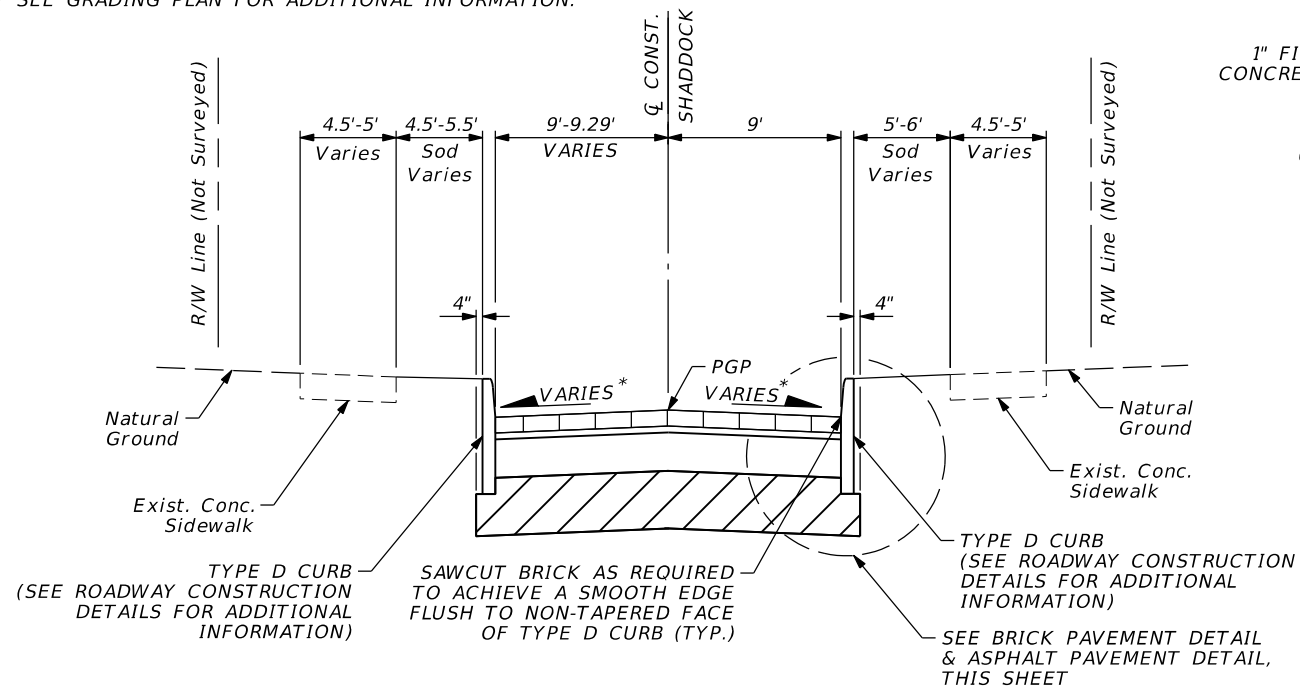
1. ALL OF THE EXISTING CLAY BRICK WITHIN THE LIMITS OF CONSTRUCTION ON SHADDOCK STREET BETWEEN LEMON STREET AND S SPRING BOULEVARD, SHALL BE CAREFULLY REMOVED BY HAND AND STACKED ON PALLETS, STRETCH WRAPPED AND DELIVERED TO CITY PROPERTY AS DIRECTED BY THE ENGINEER FOR STORAGE DURING PROPOSED ROAD BED PREPARATION. COST OF TRANSPORTING THE EXISTING CLAY BRICK IS INCLUDED IN THE COST OF BRICK PAVEMENT REMOVAL. ANY NEW CLAY BRICK NEEDED TO COMPLETE CONSTRUCTION, THAT EXCEEDS WHAT WAS STACKED ON PALLETS, SHALL BE SUPPLIED BY THE CONTRACTOR WITH APPROVAL FROM THE CITY REQUIRED PRIOR TO ACQUISITION. THE CONTRACTOR SHALL NOT MIX EXISTING AND NEW CLAY BRICK WITHIN THE SAME SECTION OF ROADWAY WITHOUT SEPARATION BY CONCRETE HEADER CURB. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRANSPORTING OF NEW CLAY BRICK TO THE PROJECT SITE AT NO ADDITIONAL COST TO THE CITY.
2. AT THE CONTRACTOR'S OPTION, AND AT NO ADDITIONAL COST TO THE CITY, THE 9" STABILIZED SUB-BASE TYPE B (MIN LBR 40) USED UNDER THE BRICK PAVEMENT OR ASPHALT PAVEMENT MAY BE DELETED AND THE CRUSHED CONCRETE AGGREGATE THICKNESS INCREASED FROM 6" TO 10" .
3. UPON INSTALLATION OF THE BRICKS ON TOP OF 1" LAYER OF FINE CRUSHED CONCRETE, THE CONTRACTOR SHALL VIBRATE BRICKS INTO THIS LAYER. SAND SHALL THEN BE SPREAD OVER THE BRICKS AND AGAIN VIBRATED TO CAUSE THE SAND TO FILL THE SPACES BETWEEN BRICKS. EXCESS SAND SHALL BE VACUUMED AND REMOVED.
4. ALL OF THE EXISTING GRANITE CURB WITHIN THE LIMITS OF CONSTRUCTION SHALL BE CAREFULLY REMOVED BY HAND AND STACKED ON PALLETS, STRETCH WRAPPED AND DELIVERED TO CITY PROPERTY AS DIRECTED BY THE ENGINEER FOR STORAGE. COST OF TRANSPORTING THE EXISTING GRANITE CURB IS INCLUDED IN THE COST OF GRANITE CURB REMOVAL.



BRICK PAVEMENT DETAIL

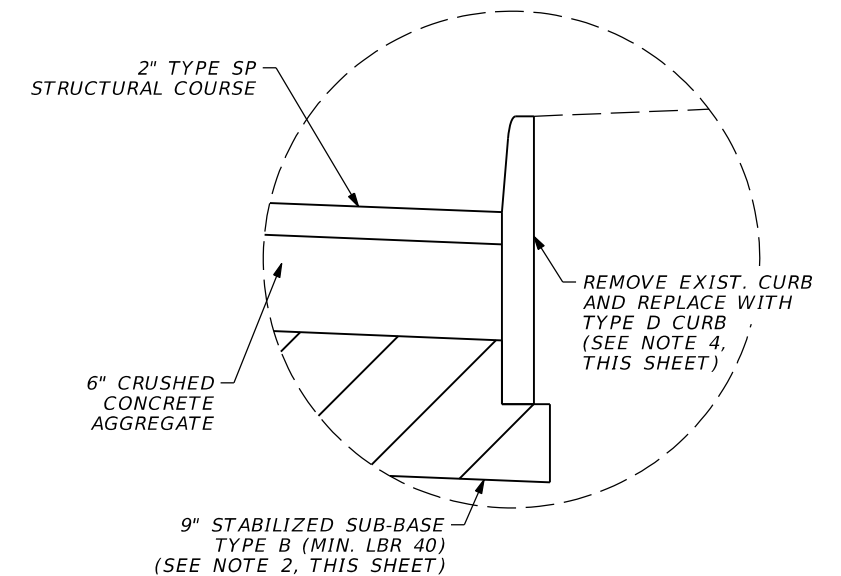
N.T.S.

* SEE GRADING PLAN FOR ADDITIONAL INFORMATION.



TYPICAL SECTION - SHADDOCK STREET
from Lemon Street to S Spring Boulevard

N.T.S.



ASPHALT PAVEMENT DETAIL

N.T.S.

REVISIONS	BY	DATE	CHECKED	ASP	01/31/20

CITY OF TARPON SPRINGS

TYPICAL SECTION

American
Consulting Engineers of Florida, LLC
2818 Cypress Ridge Blvd, Suite 200
Wesley Chapel, Florida 33544
Phone: (813) 435-2600 Fax: (813) 435-2601
Certificate of Authorization No. 9302
Erik C. Leschak, P.E. No. 63874

DATE: 12/16/2022

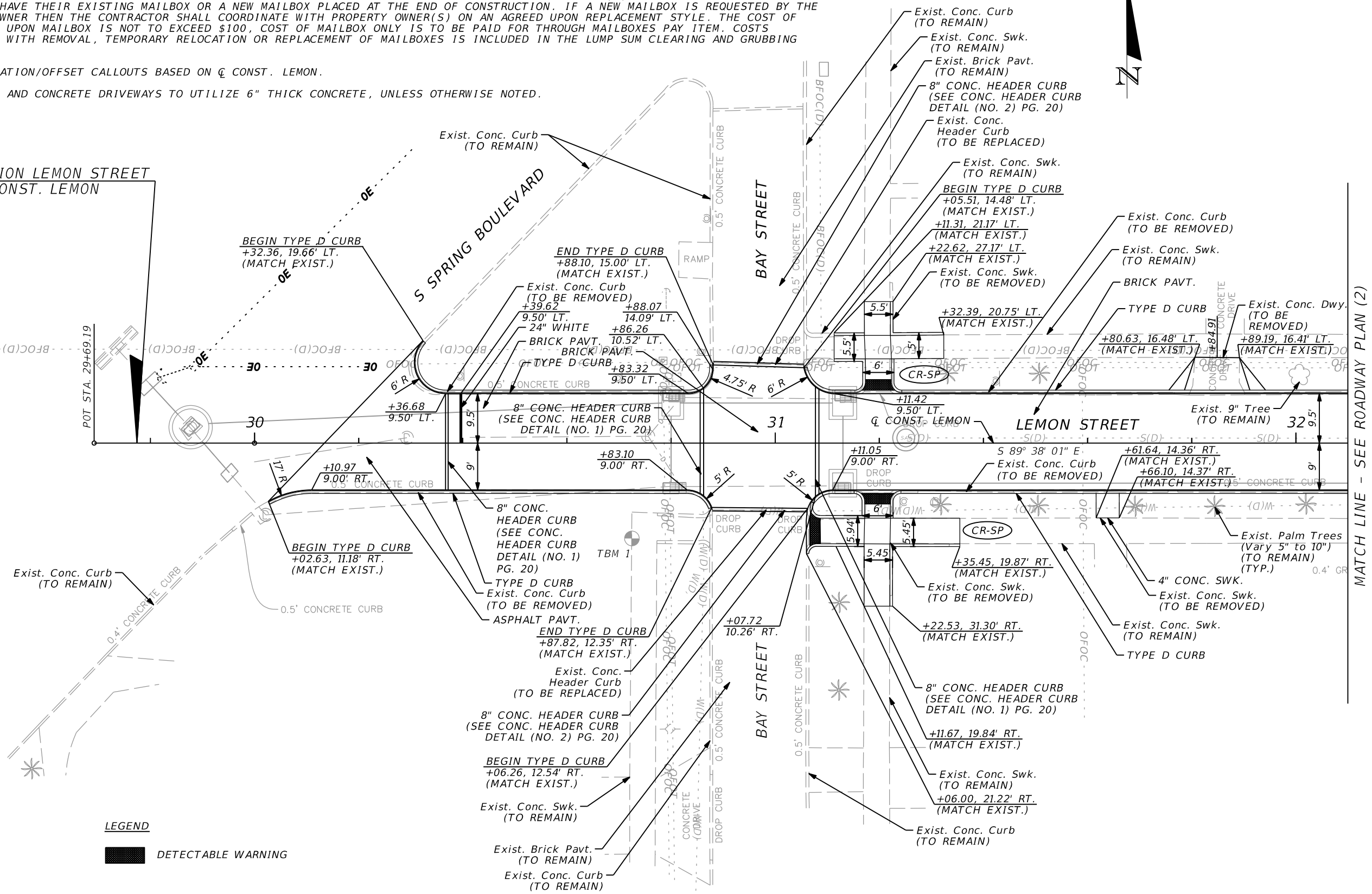
SCALE: NTS

SHEET: 2 of 36

NOTES:

- SEVERAL EXISTING MAILBOXES ARE LOCATED WITHIN THE PROJECT LIMITS. CONTRACTOR TO FIELD VERIFY AND RECORD LOCATION OF MAILBOXES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. EXISTING MAILBOXES ARE TO BE TEMPORARILY RELOCATED DURING CONSTRUCTION, AS NECESSARY, TO AVOID DAMAGE TO THE MAILBOXES. CONTRACTOR TO COORDINATE WITH THE PROPERTY OWNER(S) TO DETERMINE IF THEY DESIRE TO HAVE THEIR EXISTING MAILBOX OR A NEW MAILBOX PLACED AT THE END OF CONSTRUCTION. IF A NEW MAILBOX IS REQUESTED BY THE PROPERTY OWNER THEN THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER(S) ON AN AGREED UPON REPLACEMENT STYLE. THE COST OF THE AGREED UPON MAILBOX IS NOT TO EXCEED \$100, COST OF MAILBOX ONLY IS TO BE PAID FOR THROUGH MAILBOXES PAY ITEM. COSTS ASSOCIATED WITH REMOVAL, TEMPORARY RELOCATION OR REPLACEMENT OF MAILBOXES IS INCLUDED IN THE LUMP SUM CLEARING AND GRUBBING PAY ITEM.
- PARTIAL STATION/OFFSET CALLOUTS BASED ON \bar{C} CONST. LEMON.
- CURB RAMPS AND CONCRETE DRIVEWAYS TO UTILIZE 6" THICK CONCRETE, UNLESS OTHERWISE NOTED.

N PROJECT
N CONSTRUCTION LEMON STREET
29+77.43 \bar{C} CONST. LEMON



LEGEND

■ DETECTABLE WARNING

REVISIONS	BY	DATE	CHECKED	ASP	01/31/20

BY DATE
DESIGNED DAI 01/06/20
DRAWN RWS 01/13/20
CITY OF TARPON SPRINGS

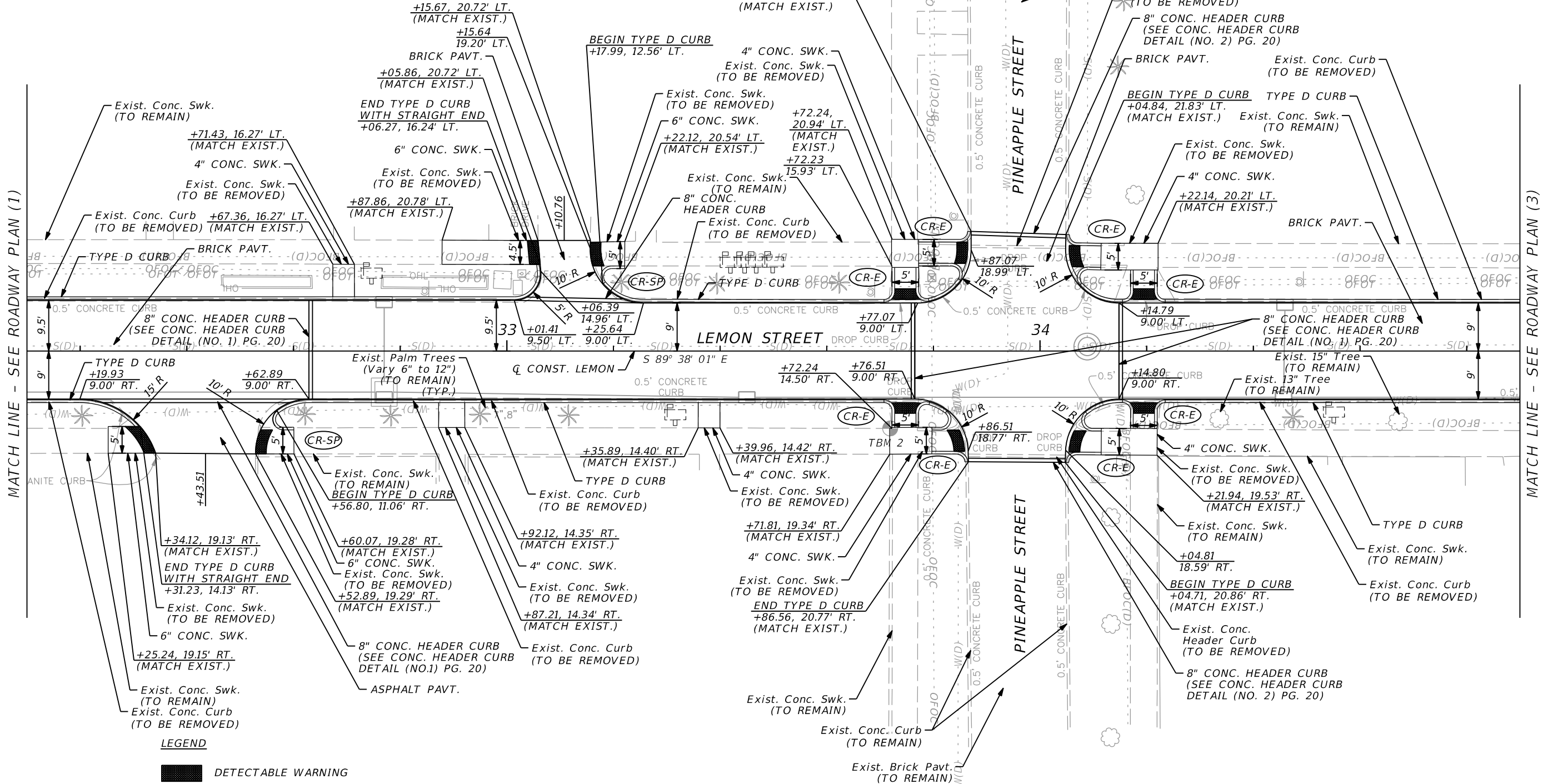
ROADWAY PLAN (1)

American
Consulting Engineers of Florida, LLC
2818 Cypress Ridge Blvd, Suite 200
Wesley Chapel, Florida 33544
Phone: (813) 435-2600 Fax: (813) 435-2601
Certificate of Authorization No. 9302
Erik C. Leschak, P.E. No. 63874

DATE: 12/16/2022
SCALE: 1" = 20'
SHEET: 4 of 36

NOTES:

- SEVERAL EXISTING MAILBOXES ARE LOCATED WITHIN THE PROJECT LIMITS. CONTRACTOR TO FIELD VERIFY AND RECORD LOCATION OF MAILBOXES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. EXISTING MAILBOXES ARE TO BE TEMPORARILY RELOCATED DURING CONSTRUCTION, AS NECESSARY, TO AVOID DAMAGE TO THE MAILBOXES. CONTRACTOR TO COORDINATE WITH THE PROPERTY OWNER(S) TO DETERMINE IF THEY DESIRE TO HAVE THEIR EXISTING MAILBOX OR A NEW MAILBOX PLACED AT THE END OF CONSTRUCTION. IF A NEW MAILBOX IS REQUESTED BY THE PROPERTY OWNER THEN THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER(S) ON AN AGREED UPON REPLACEMENT STYLE. THE COST OF THE AGREED UPON MAILBOX IS NOT TO EXCEED \$100, COST OF MAILBOX ONLY IS TO BE PAID FOR THROUGH MAILBOXES PAY ITEM. COSTS ASSOCIATED WITH REMOVAL, TEMPORARY RELOCATION OR REPLACEMENT OF MAILBOXES IS INCLUDED IN THE LUMP SUM CLEARING AND GRUBBING PAY ITEM.
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REVISIONS	BY	DATE	CHECKED	ASP	01/31/20

BY	DATE
DESIGNED	DAI 01/06/20
DRAWN	RWS 01/13/20
CHECKED	ASP 01/31/20

CITY OF TARPON SPRINGS

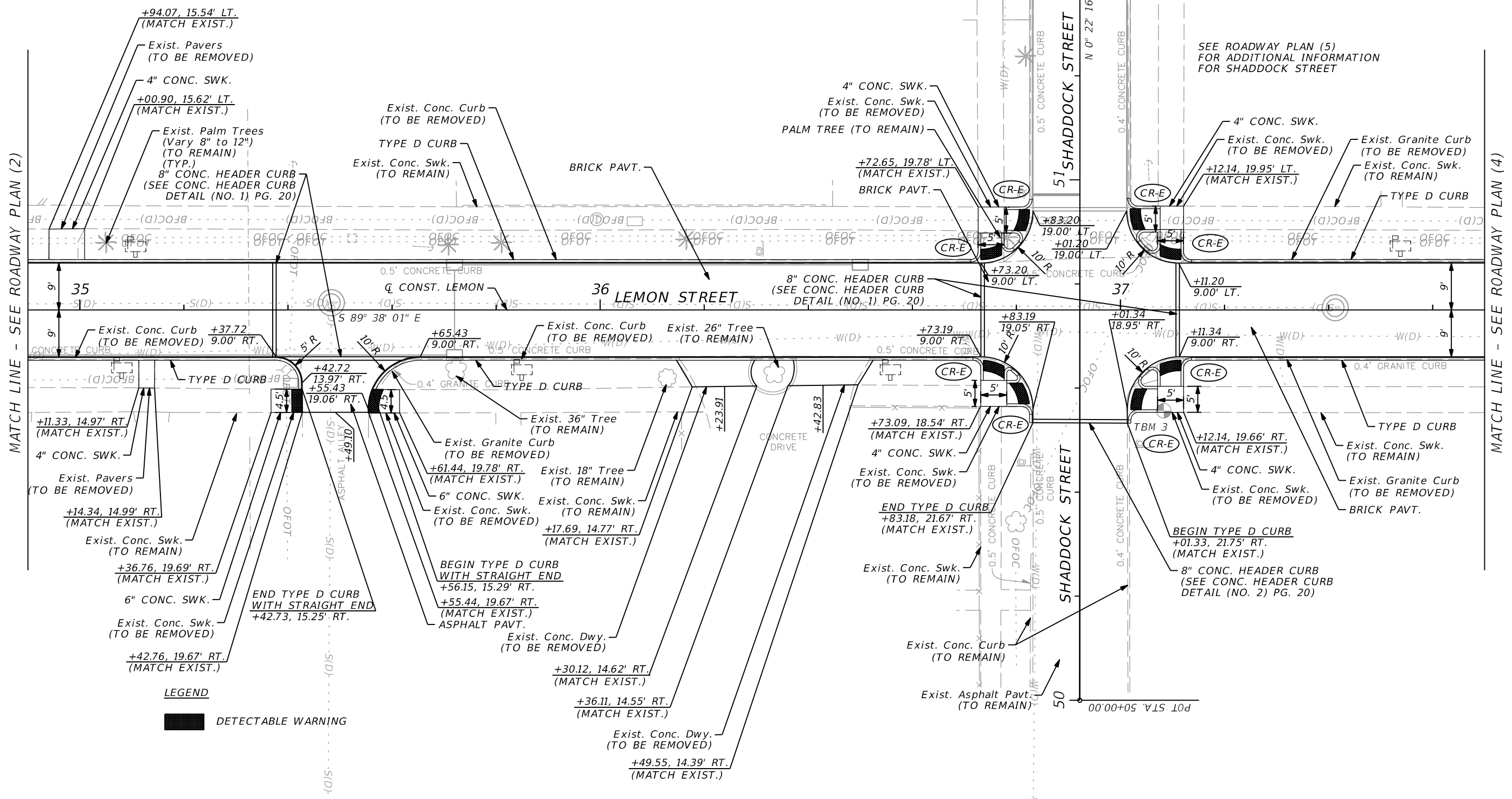
ROADWAY PLAN (2)

American
 Consulting Engineers of Florida, LLC
 2818 Cypress Ridge Blvd, Suite 200
 Wesley Chapel, Florida 33544
 Phone: (813) 435-2600 Fax: (813) 435-2601
 Certificate of Authorization No. 9302
 Erik C. Leschak, P.E. No. 63874

DATE:	12/16/2022
SCALE:	1" = 20'
SHEET:	5 of 36

NOTES:

- SEVERAL EXISTING MAILBOXES ARE LOCATED WITHIN THE PROJECT LIMITS. CONTRACTOR TO FIELD VERIFY AND RECORD LOCATION OF MAILBOXES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. EXISTING MAILBOXES ARE TO BE TEMPORARILY RELOCATED DURING CONSTRUCTION, AS NECESSARY, TO AVOID DAMAGE TO THE MAILBOXES. CONTRACTOR TO COORDINATE WITH THE PROPERTY OWNER(S) TO DETERMINE IF THEY DESIRE TO HAVE THEIR EXISTING MAILBOX OR A NEW MAILBOX PLACED AT THE END OF CONSTRUCTION. IF A NEW MAILBOX IS REQUESTED BY THE PROPERTY OWNER THEN THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER(S) ON AN AGREED UPON REPLACEMENT STYLE. THE COST OF THE AGREED UPON MAILBOX IS NOT TO EXCEED \$100, COST OF MAILBOX ONLY IS TO BE PAID FOR THROUGH MAILBOXES PAY ITEM. COSTS ASSOCIATED WITH REMOVAL, TEMPORARY RELOCATION OR REPLACEMENT OF MAILBOXES IS INCLUDED IN THE LUMP SUM CLEARING AND GRUBBING PAY ITEM.
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SEE ROADWAY PLAN (5) FOR ADDITIONAL INFORMATION FOR SHADDOCK STREET



REVISIONS	BY	DATE	CHECKED	ASP	01/31/20
	BY	DATE			
	DESIGNED	DAI			01/06/20
	DRAWN	RWS			01/13/20

CITY OF TARPON SPRINGS

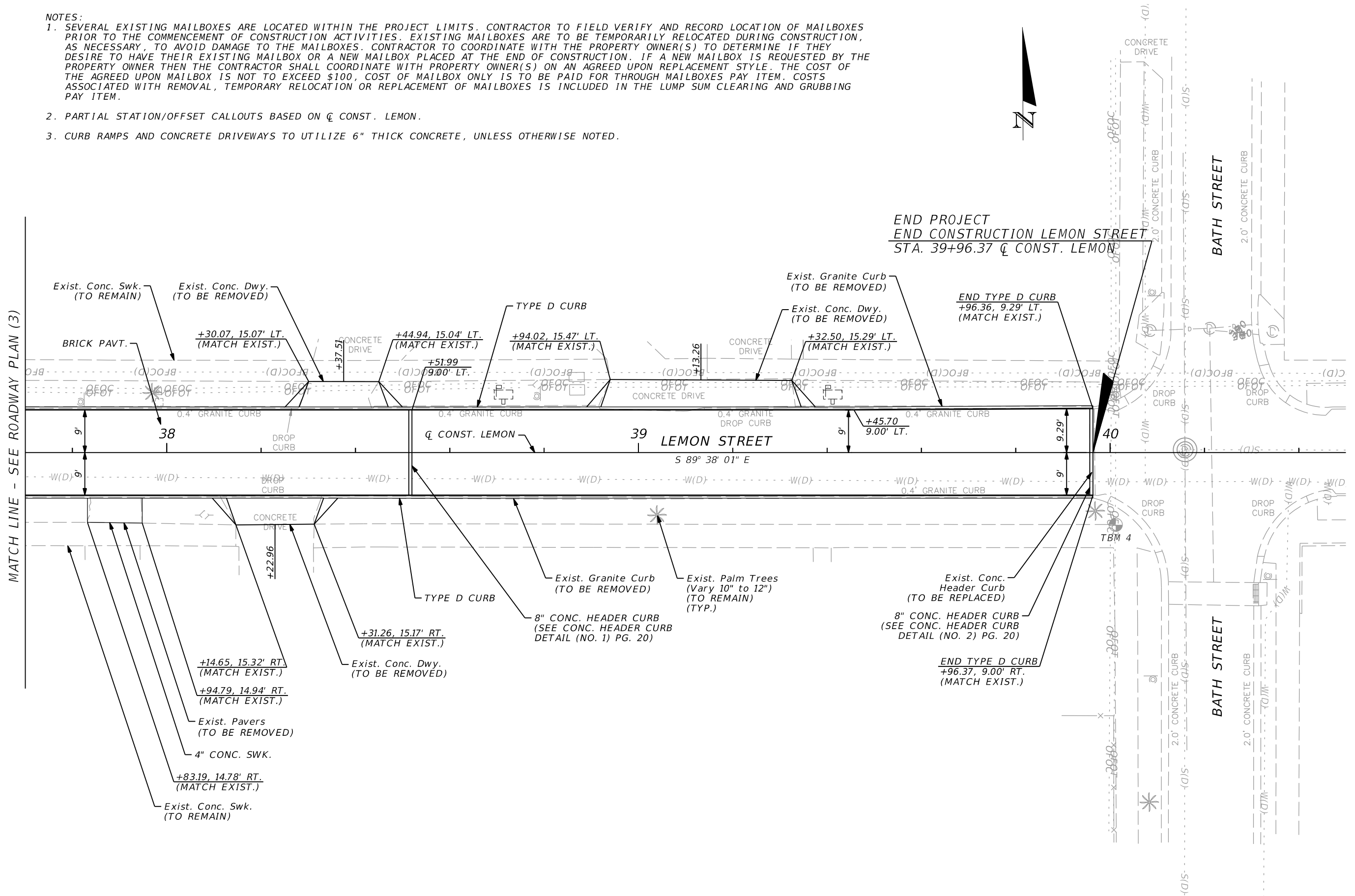
ROADWAY PLAN (3)

American
 Consulting Engineers of Florida, LLC
 2818 Cypress Ridge Blvd, Suite 200
 Wesley Chapel, Florida 33544
 Phone: (813) 435-2600 Fax: (813) 435-2601
 Certificate of Authorization No. 9302
 Erik C. Leschak, P.E. No. 63874

DATE: 12/16/2022
 SCALE: 1" = 20'
 SHEET: 6 of 36

NOTES:

- SEVERAL EXISTING MAILBOXES ARE LOCATED WITHIN THE PROJECT LIMITS. CONTRACTOR TO FIELD VERIFY AND RECORD LOCATION OF MAILBOXES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. EXISTING MAILBOXES ARE TO BE TEMPORARILY RELOCATED DURING CONSTRUCTION, AS NECESSARY, TO AVOID DAMAGE TO THE MAILBOXES. CONTRACTOR TO COORDINATE WITH THE PROPERTY OWNER(S) TO DETERMINE IF THEY DESIRE TO HAVE THEIR EXISTING MAILBOX OR A NEW MAILBOX PLACED AT THE END OF CONSTRUCTION. IF A NEW MAILBOX IS REQUESTED BY THE PROPERTY OWNER THEN THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER(S) ON AN AGREED UPON REPLACEMENT STYLE. THE COST OF THE AGREED UPON MAILBOX IS NOT TO EXCEED \$100, COST OF MAILBOX ONLY IS TO BE PAID FOR THROUGH MAILBOXES PAY ITEM. COSTS ASSOCIATED WITH REMOVAL, TEMPORARY RELOCATION OR REPLACEMENT OF MAILBOXES IS INCLUDED IN THE LUMP SUM CLEARING AND GRUBBING PAY ITEM.
- PARTIAL STATION/OFFSET CALLOUTS BASED ON \varnothing CONST. LEMON.
- CURB RAMPS AND CONCRETE DRIVEWAYS TO UTILIZE 6" THICK CONCRETE, UNLESS OTHERWISE NOTED.



MATCH LINE - SEE ROADWAY PLAN (3)

END PROJECT
END CONSTRUCTION LEMON STREET
STA. 39+96.37 \varnothing CONST. LEMON

REVISIONS	BY	DATE	CHECKED	ASP	01/31/20

BY DATE
DESIGNED DAI 01/06/20
DRAWN RWS 01/13/20
CITY OF TARPON SPRINGS

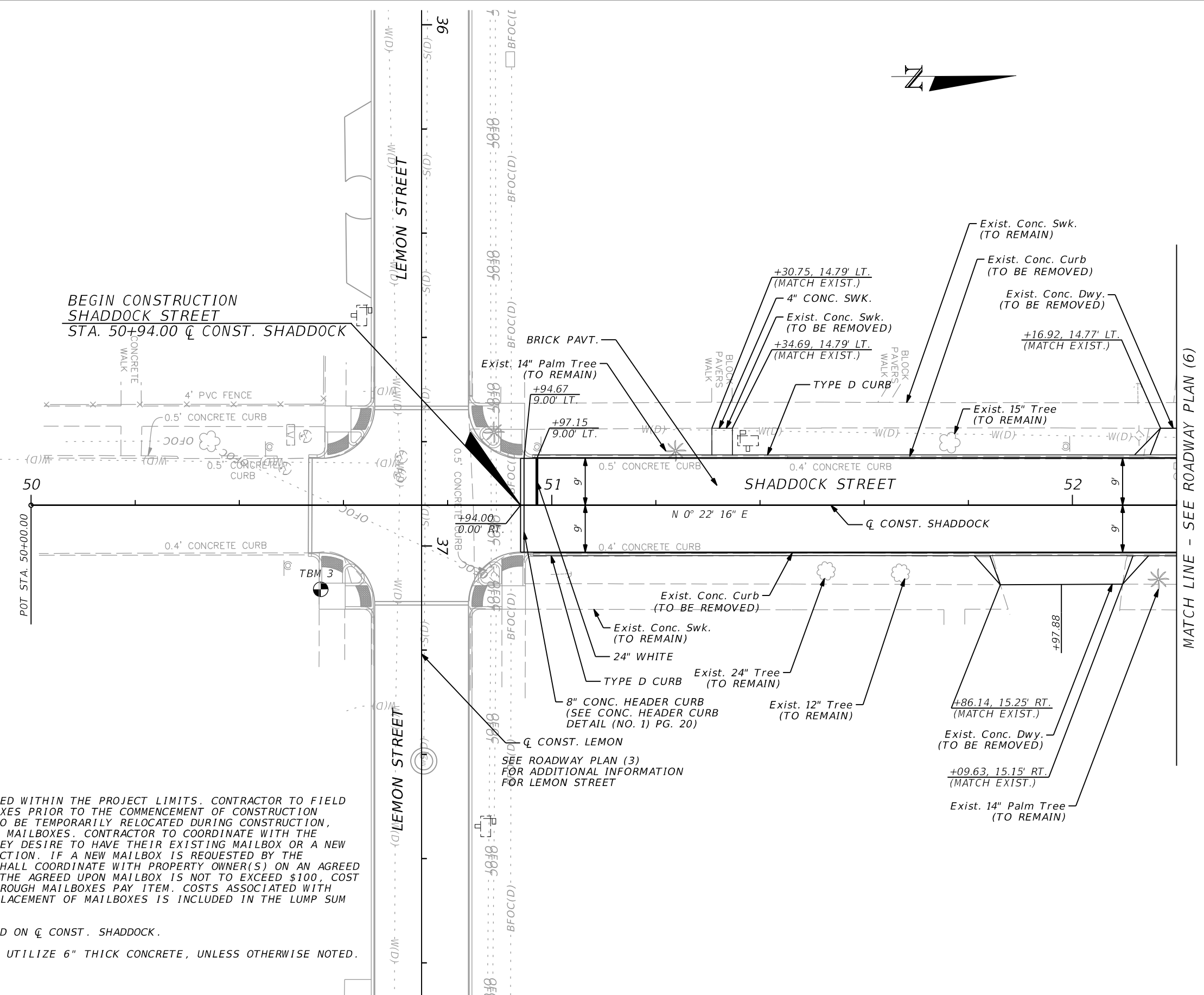
ROADWAY PLAN (4)

American
Consulting Engineers of Florida, LLC
2818 Cypress Ridge Blvd, Suite 200
Wesley Chapel, Florida 33544
Phone: (813) 435-2600 Fax: (813) 435-2601
Certificate of Authorization No. 9302
Erik C. Leschak, P.E. No. 63874

DATE: 12/16/2022
SCALE: 1" = 20'
SHEET: 7 of 36

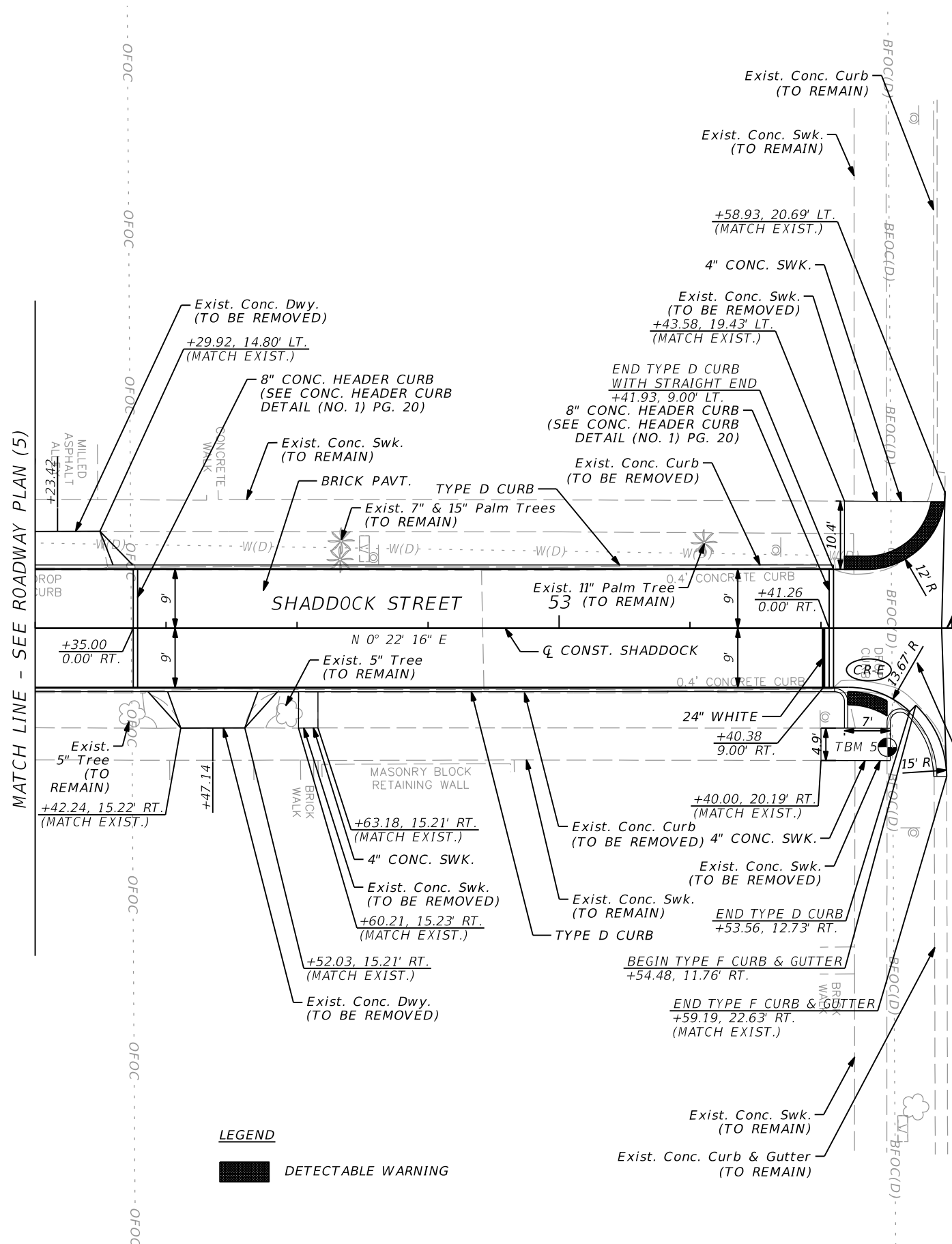


BEGIN CONSTRUCTION
SHADDOCK STREET
STA. 50+94.00 @ CONST. SHADDOCK



- NOTES:
- SEVERAL EXISTING MAILBOXES ARE LOCATED WITHIN THE PROJECT LIMITS. CONTRACTOR TO FIELD VERIFY AND RECORD LOCATION OF MAILBOXES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. EXISTING MAILBOXES ARE TO BE TEMPORARILY RELOCATED DURING CONSTRUCTION, AS NECESSARY, TO AVOID DAMAGE TO THE MAILBOXES. CONTRACTOR TO COORDINATE WITH THE PROPERTY OWNER(S) TO DETERMINE IF THEY DESIRE TO HAVE THEIR EXISTING MAILBOX OR A NEW MAILBOX PLACED AT THE END OF CONSTRUCTION. IF A NEW MAILBOX IS REQUESTED BY THE PROPERTY OWNER THEN THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER(S) ON AN AGREED UPON REPLACEMENT STYLE. THE COST OF THE AGREED UPON MAILBOX IS NOT TO EXCEED \$100, COST OF MAILBOX ONLY IS TO BE PAID FOR THROUGH MAILBOXES PAY ITEM. COSTS ASSOCIATED WITH REMOVAL, TEMPORARY RELOCATION OR REPLACEMENT OF MAILBOXES IS INCLUDED IN THE LUMP SUM CLEARING AND GRUBBING PAY ITEM.
 - PARTIAL STATION/OFFSET CALLOUTS BASED ON @ CONST. SHADDOCK.
 - CURB RAMPS AND CONCRETE DRIVEWAYS TO UTILIZE 6" THICK CONCRETE, UNLESS OTHERWISE NOTED.

		BY	DATE	CITY OF TARPON SPRINGS	ROADWAY PLAN (5)	 American Consulting Engineers of Florida, LLC 2818 Cypress Ridge Blvd, Suite 200 Wesley Chapel, Florida 33544 Phone: (813) 435-2600 Fax: (813) 435-2601 Certificate of Authorization No. 9302 Erik C. Leschak, P.E. No. 63874	DATE:	12/16/2022
		DESIGNED	DAI 01/06/20				SCALE:	1" = 20'
		DRAWN	RWS 01/13/20				CHECKED	ASP 01/31/20
REVISIONS	BY	DATE	CHECKED	ASP	01/31/20			



S SPRING BOULEVARD

END CONSTRUCTION
SHADDOCK STREET
STA. 53+59.19 @ CONST. SHADDOCK

- NOTES:
- SEVERAL EXISTING MAILBOXES ARE LOCATED WITHIN THE PROJECT LIMITS. CONTRACTOR TO FIELD VERIFY AND RECORD LOCATION OF MAILBOXES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. EXISTING MAILBOXES ARE TO BE TEMPORARILY RELOCATED DURING CONSTRUCTION, AS NECESSARY, TO AVOID DAMAGE TO THE MAILBOXES. CONTRACTOR TO COORDINATE WITH THE PROPERTY OWNER(S) TO DETERMINE IF THEY DESIRE TO HAVE THEIR EXISTING MAILBOX OR A NEW MAILBOX PLACED AT THE END OF CONSTRUCTION. IF A NEW MAILBOX IS REQUESTED BY THE PROPERTY OWNER THEN THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER(S) ON AN AGREED UPON REPLACEMENT STYLE. THE COST OF THE AGREED UPON MAILBOX IS NOT TO EXCEED \$100, COST OF MAILBOX ONLY IS TO BE PAID THROUGH MAILBOXES PAY ITEM. COSTS ASSOCIATED WITH REMOVAL, TEMPORARY RELOCATION OR REPLACEMENT OF MAILBOXES IS INCLUDED IN THE LUMP SUM CLEARING AND GRUBBING PAY ITEM.
 - PARTIAL STATION/OFFSET CALLOUTS BASED ON @ CONST. SHADDOCK.
 - CURB RAMPS AND CONCRETE DRIVEWAYS TO UTILIZE 6" THICK CONCRETE, UNLESS OTHERWISE NOTED.

LEGEND
 DETECTABLE WARNING

REVISIONS	BY	DATE	CHECKED	ASP	01/31/20

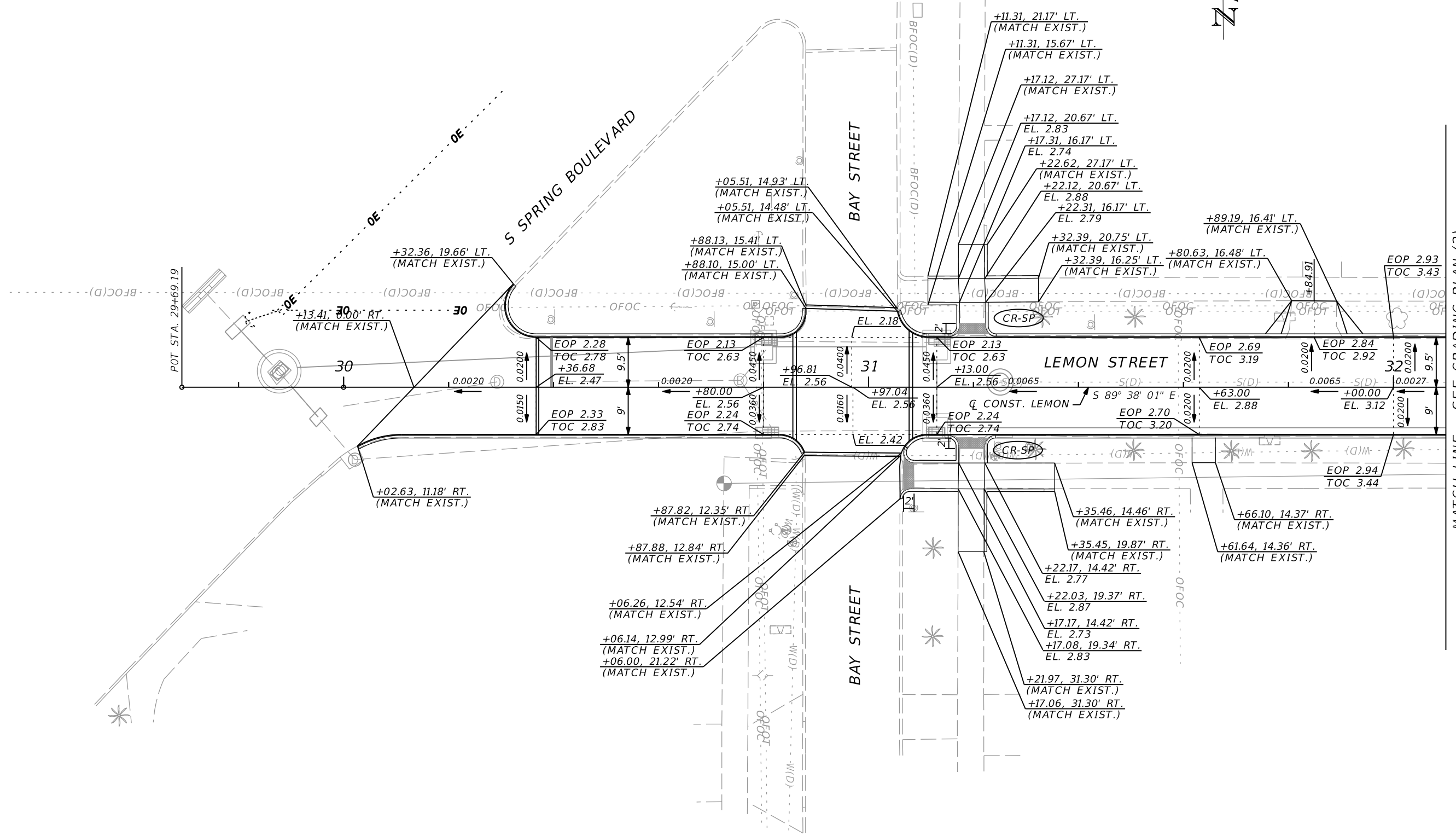
BY DATE
 DESIGNED DAI 01/06/20
 DRAWN RWS 01/13/20
 CHECKED ASP 01/31/20

CITY OF TARPON SPRINGS

ROADWAY PLAN (6)

American
 Consulting Engineers of Florida, LLC
 2818 Cypress Ridge Blvd, Suite 200
 Wesley Chapel, Florida 33544
 Phone: (813) 435-2600 Fax: (813) 435-2601
 Certificate of Authorization No. 9302
 Erik C. Leschak, P.E. No. 63874

DATE: 12/16/2022
 SCALE: 1" = 20'
 SHEET: 9 of 36



REVISIONS	BY	DATE	CHECKED	ASP	01/31/20

BY DATE
 DESIGNED DAI 01/06/20
 DRAWN RWS 01/13/20
 CHECKED ASP 01/31/20

CITY OF TARPON SPRINGS

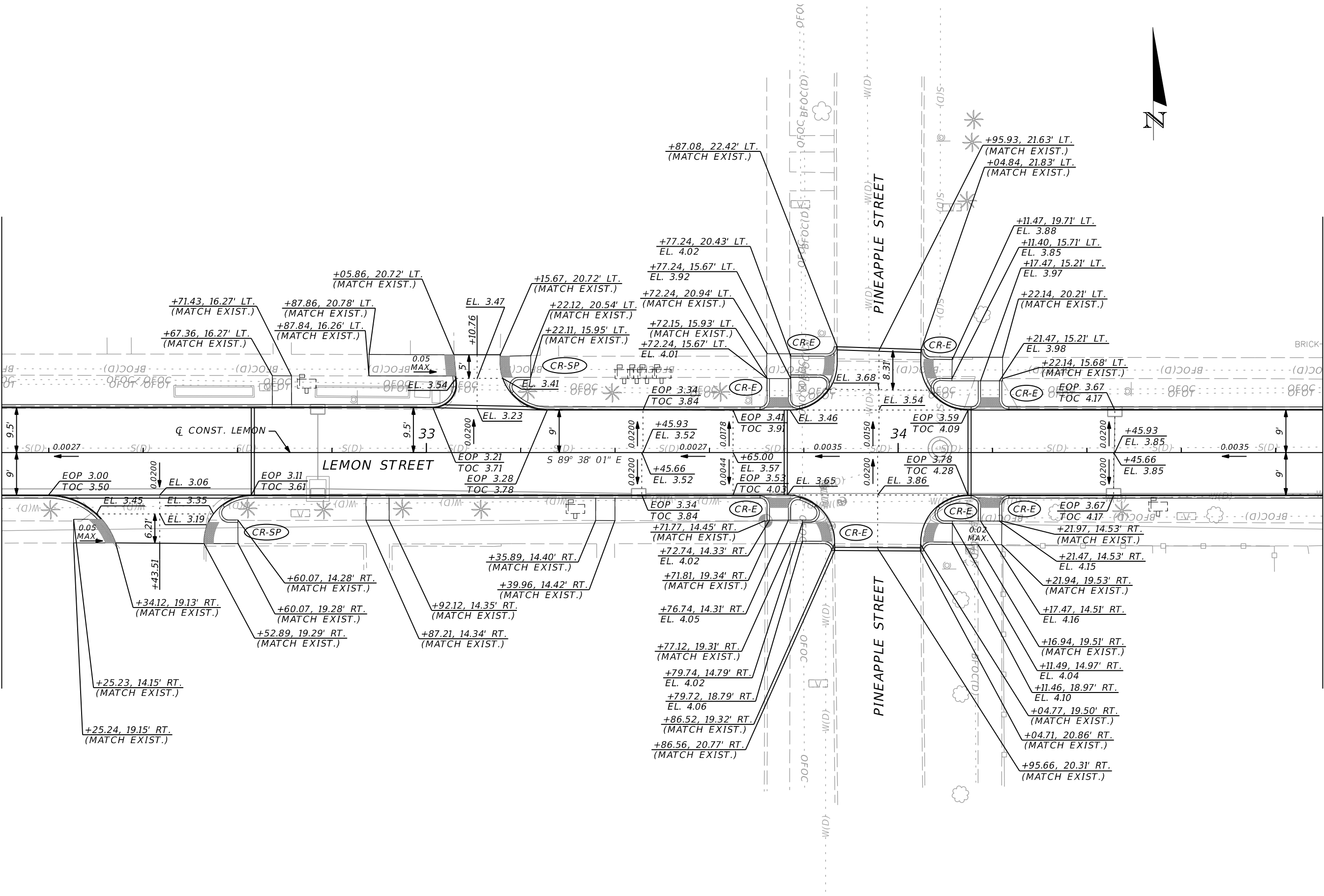
GRADING PLAN (1)

American
 Consulting Engineers of Florida, LLC
 2818 Cypress Ridge Blvd, Suite 200
 Wesley Chapel, Florida 33544
 Phone: (813) 435-2600 Fax: (813) 435-2601
 Certificate of Authorization No. 9302
 Erik C. Leschak, P.E. No. 63874

DATE: 12/16/2022
 SCALE: 1" = 20'
 SHEET: 10 of 36

MATCH LINE - SEE GRADING PLAN (1)

MATCH LINE - SEE GRADING PLAN (3)



REVISIONS	BY	DATE	CHECKED	ASP	01/31/20

BY DATE
 DESIGNED DAI 01/06/20
 DRAWN RWS 01/13/20
 CHECKED ASP 01/31/20

CITY OF TARPON SPRINGS

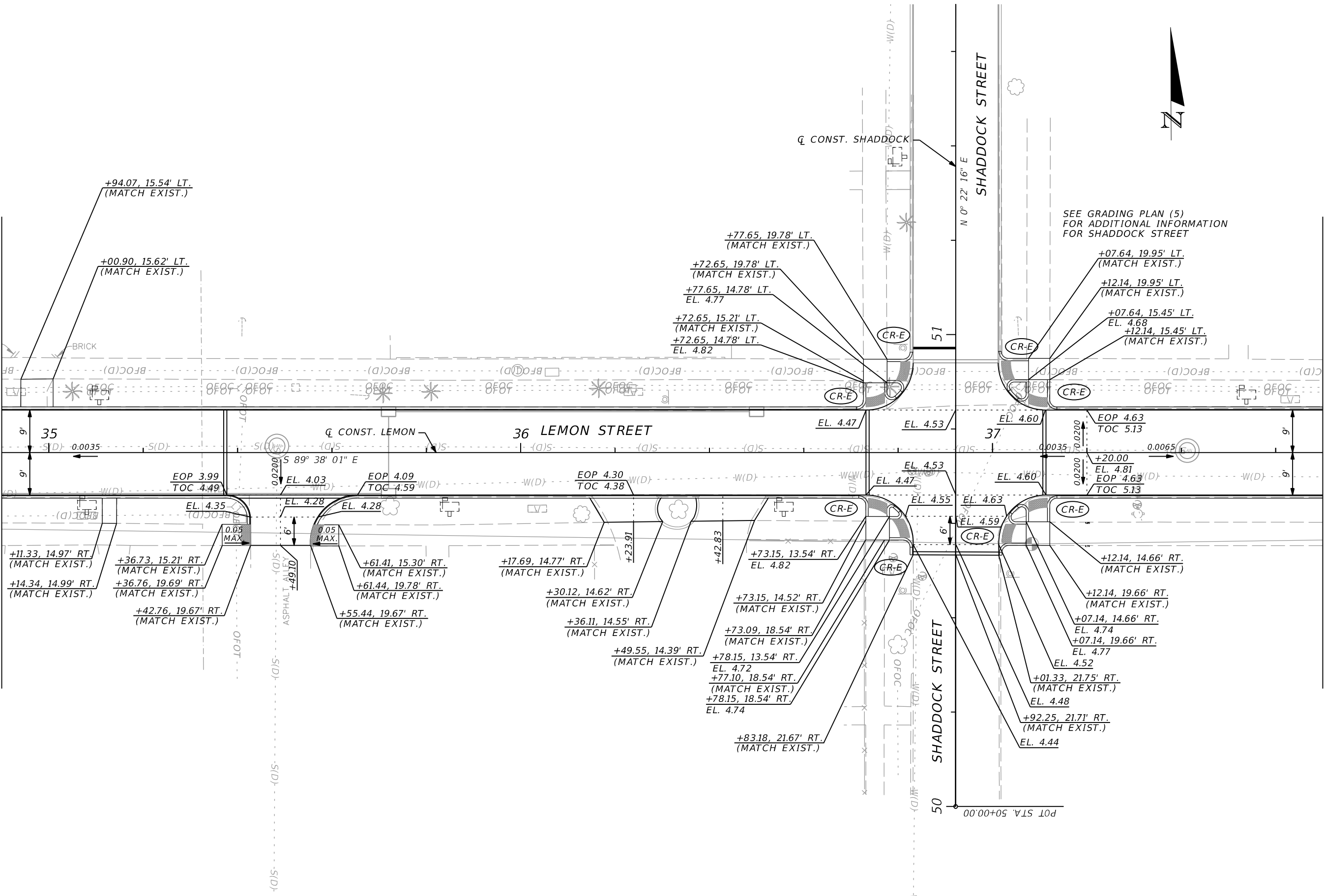
GRADING PLAN (2)

American
 Consulting Engineers of Florida, LLC
 2818 Cypress Ridge Blvd, Suite 200
 Wesley Chapel, Florida 33544
 Phone: (813) 435-2600 Fax: (813) 435-2601
 Certificate of Authorization No. 9302
 Erik C. Leschak, P.E. No. 63874

DATE: 12/16/2022
 SCALE: 1" = 20'
 SHEET: 11 of 36

MATCH LINE - SEE GRADING PLAN (2)

MATCH LINE - SEE GRADING PLAN (4)



SEE GRADING PLAN (5) FOR ADDITIONAL INFORMATION FOR SHADDOCK STREET

REVISIONS	BY	DATE	CHECKED	BY	DATE
				DESIGNED	DAI 01/06/20
				DRAWN	RWS 01/13/20
				CHECKED	ASP 01/31/20

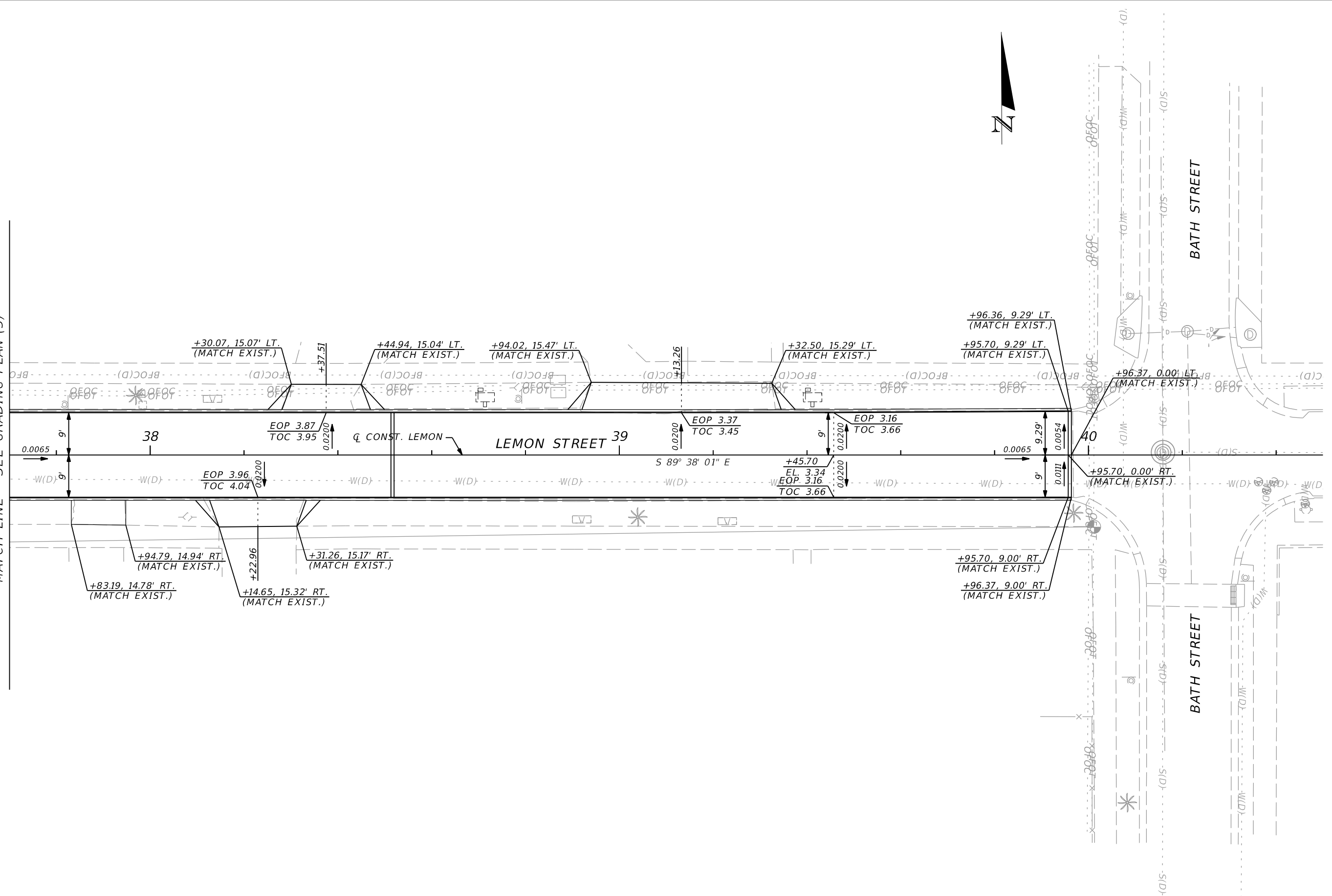
CITY OF TARPON SPRINGS

GRADING PLAN (3)

American
 Consulting Engineers of Florida, LLC
 2818 Cypress Ridge Blvd, Suite 200
 Wesley Chapel, Florida 33544
 Phone: (813) 435-2600 Fax: (813) 435-2601
 Certificate of Authorization No. 9302
 Erik C. Leschak, P.E. No. 63874

DATE: 12/16/2022
 SCALE: 1" = 20'
 SHEET: 12 of 36

MATCH LINE - SEE GRADING PLAN (3)



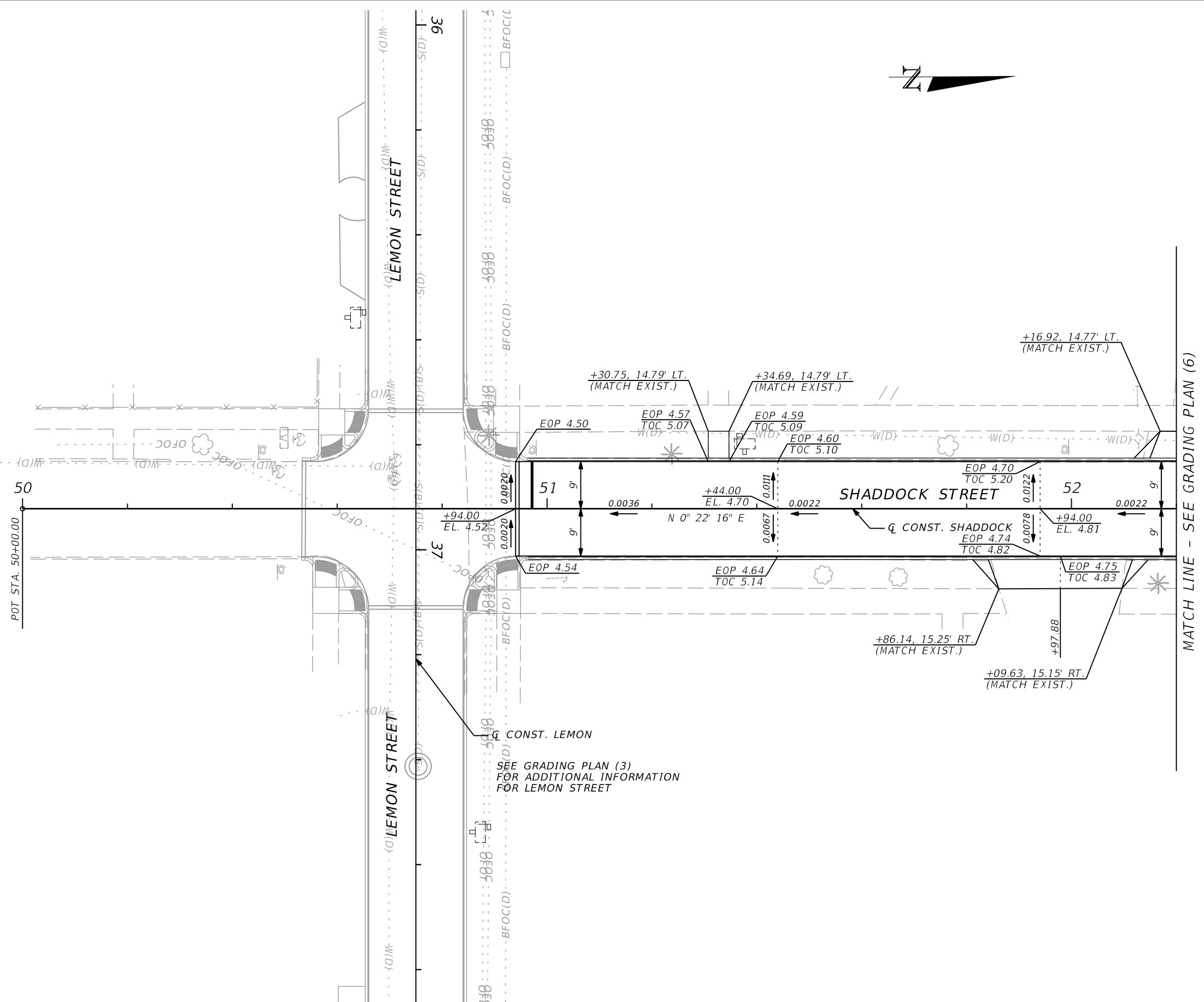
REVISIONS	BY	DATE	CHECKED	ASP	01/31/20

BY DATE
 DESIGNED DAI 01/06/20
 DRAWN RWS 01/13/20
 CITY OF TARPON SPRINGS

GRADING PLAN (4)

American
 Consulting Engineers of Florida, LLC
 2818 Cypress Ridge Blvd, Suite 200
 Wesley Chapel, Florida 33544
 Phone: (813) 435-2600 Fax: (813) 435-2601
 Certificate of Authorization No. 9302
 Erik C. Leschak, P.E. No. 63874

DATE: 12/16/2022
 SCALE: 1" = 20'
 SHEET: 13 of 36



REVISIONS	BY	DATE	CHECKED	ASP	01/31/20

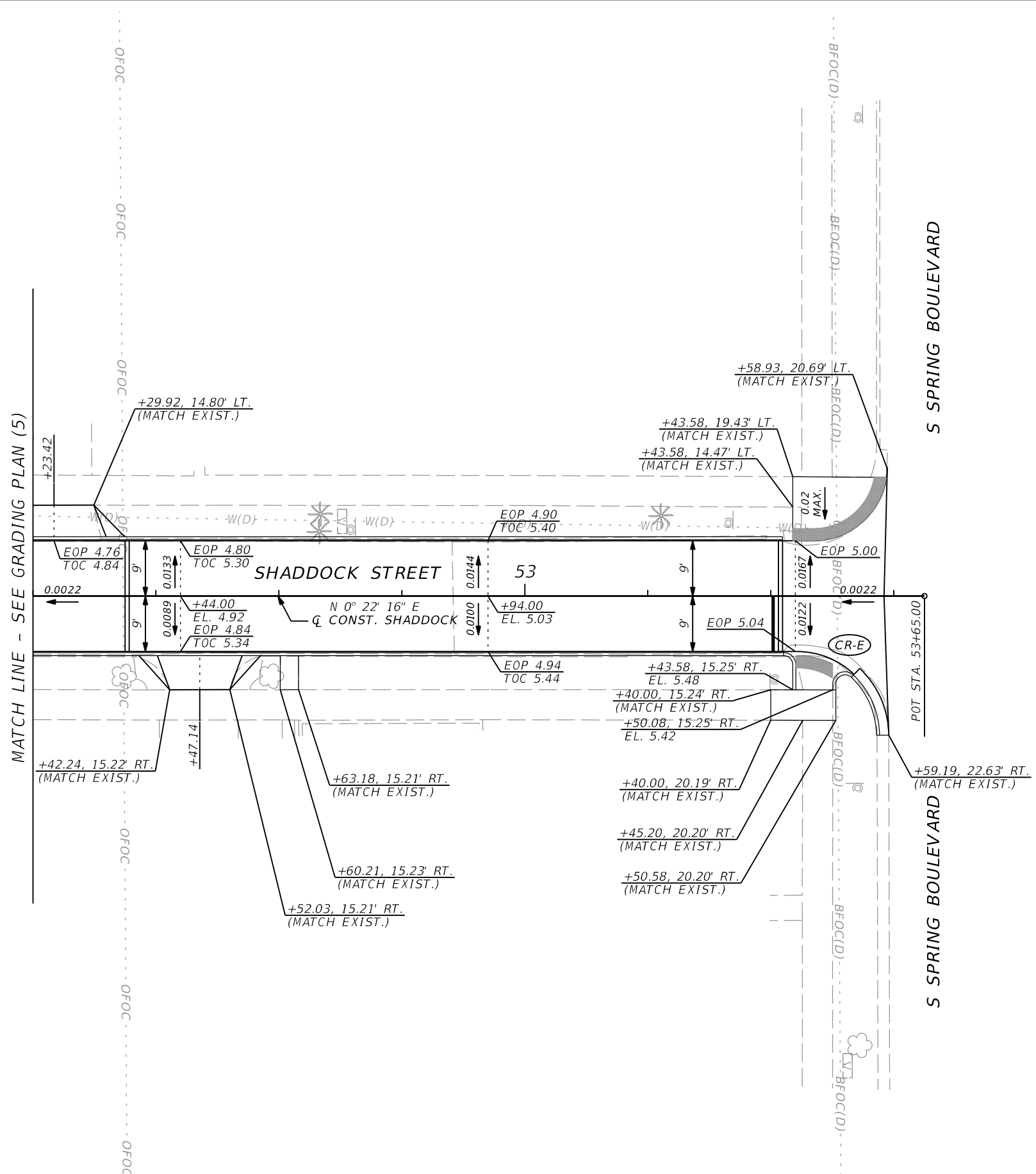
BY DATE
 DESIGNED DAI 01/06/20
 DRAWN RWS 01/13/20
 CHECKED ASP 01/31/20

CITY OF TARPON SPRINGS

GRADING PLAN (5)

American
 Consulting Engineers of Florida, LLC
 2818 Cypress Ridge Blvd, Suite 200
 Wesley Chapel, Florida 33544
 Phone: (813) 435-2600 Fax: (813) 435-2601
 Certificate of Authorization No. 9302
 Erik C. Leschak, P.E. No. 63874

DATE: 12/16/2022
 SCALE: 1" = 20'
 SHEET: 14 of 36



MATCH LINE - SEE GRADING PLAN (5)

S SPRING BOULEVARD

REVISIONS	BY	DATE	CHECKED	BY	DATE
				DAI	01/06/20
				RWS	01/13/20
				ASP	01/31/20

CITY OF TARPON SPRINGS

GRADING PLAN (6)

American
 Consulting Engineers of Florida, LLC
 2818 Cypress Ridge Blvd, Suite 200
 Wesley Chapel, Florida 33544
 Phone: (813) 435-2600 Fax: (813) 435-2601
 Certificate of Authorization No. 9302
 Erik C. Leschak, P.E. No. 63874

DATE: 12/16/2022
 SCALE: 1" = 20'
 SHEET: 15 of 36

NOTES:

- STATION/OFFSET CALLOUTS BASED ON \varnothing CONST. LEMON.
- EXISTING DRAINAGE STRUCTURES WITHIN PROPOSED PAVEMENT LIMITS SHALL BE REMOVED, UNLESS OTHERWISE NOTED.

①
STA. 29+73.54 (18.19 LT.)
ENDWALL
FL -0.76 (RT.)

③
STA. 30+00.71 (12.03 RT.)
CURB INLET
TOP EL. 3.13
THROAT EL. 2.19
FL -0.30 (LT.)
FL -0.31 (RT.)

⑤
STA. 30+81.10 (8.88 LT.)
CURB INLET
TOP EL. 2.27
FL -0.11 (AH.)
FL -0.21 (RT.)

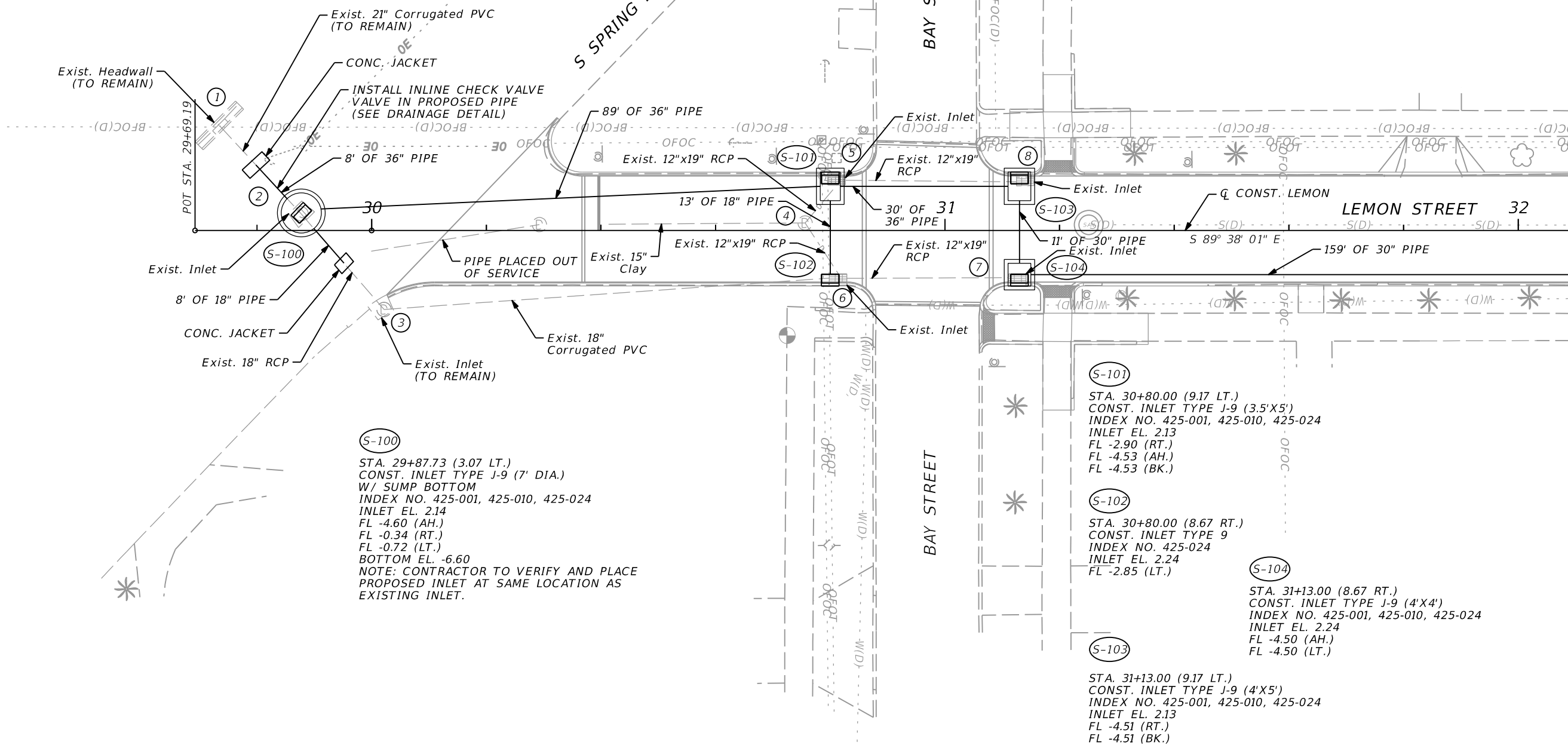
⑦
STA. 31+12.59 (8.62 RT.)
CURB INLET
TOP EL. 2.26
FL -0.04 (BK.)

②
STA. 29+87.73 (3.07 LT.)
CURB INLET
TOP EL. 3.15
THROAT EL. 2.14
FL -0.72 (LT.)
FL -0.34 (RT.)

④
STA. 30+75.61 (1.31 LT.)
MH
RIM EL. 2.40
FL -0.26 (LT.)
FL -0.15 (RT.)
FL -0.14 (BK.)

⑥
STA. 30+81.36 (8.62 RT.)
CURB INLET
TOP EL. 2.39
FL -0.16 (AH.)
FL -0.16 (LT.)
FL -0.27 (BK.)

⑧
STA. 31+14.04 (8.65 LT.)
CURB INLET
TOP EL. 2.50
FL 0.10 (BK.)



S-100
STA. 29+87.73 (3.07 LT.)
CONST. INLET TYPE J-9 (7' DIA.)
W/ SUMP BOTTOM
INDEX NO. 425-001, 425-010, 425-024
INLET EL. 2.14
FL -4.60 (AH.)
FL -0.34 (RT.)
FL -0.72 (LT.)
BOTTOM EL. -6.60
NOTE: CONTRACTOR TO VERIFY AND PLACE
PROPOSED INLET AT SAME LOCATION AS
EXISTING INLET.

S-101
STA. 30+80.00 (9.17 LT.)
CONST. INLET TYPE J-9 (3.5'X5')
INDEX NO. 425-001, 425-010, 425-024
INLET EL. 2.13
FL -2.90 (RT.)
FL -4.53 (AH.)
FL -4.53 (BK.)

S-102
STA. 30+80.00 (8.67 RT.)
CONST. INLET TYPE 9
INDEX NO. 425-024
INLET EL. 2.24
FL -2.85 (LT.)

S-104
STA. 31+13.00 (8.67 RT.)
CONST. INLET TYPE J-9 (4'X4')
INDEX NO. 425-001, 425-010, 425-024
INLET EL. 2.24
FL -4.50 (AH.)
FL -4.50 (LT.)

S-103
STA. 31+13.00 (9.17 LT.)
CONST. INLET TYPE J-9 (4'X5')
INDEX NO. 425-001, 425-010, 425-024
INLET EL. 2.13
FL -4.51 (RT.)
FL -4.51 (BK.)

MATCH LINE - SEE DRAINAGE PLAN (2)

REVISIONS	BY	DATE	CHECKED	WLA	02/07/22

CITY OF TARPON SPRINGS

DRAINAGE PLAN (1)

American
Consulting Engineers of Florida, LLC
2818 Cypress Ridge Blvd, Suite 200
Wesley Chapel, Florida 33544
Phone: (813) 435-2600 Fax: (813) 435-2601
Certificate of Authorization No. 9302
Eric K. Nelson, P.E. No. 79361

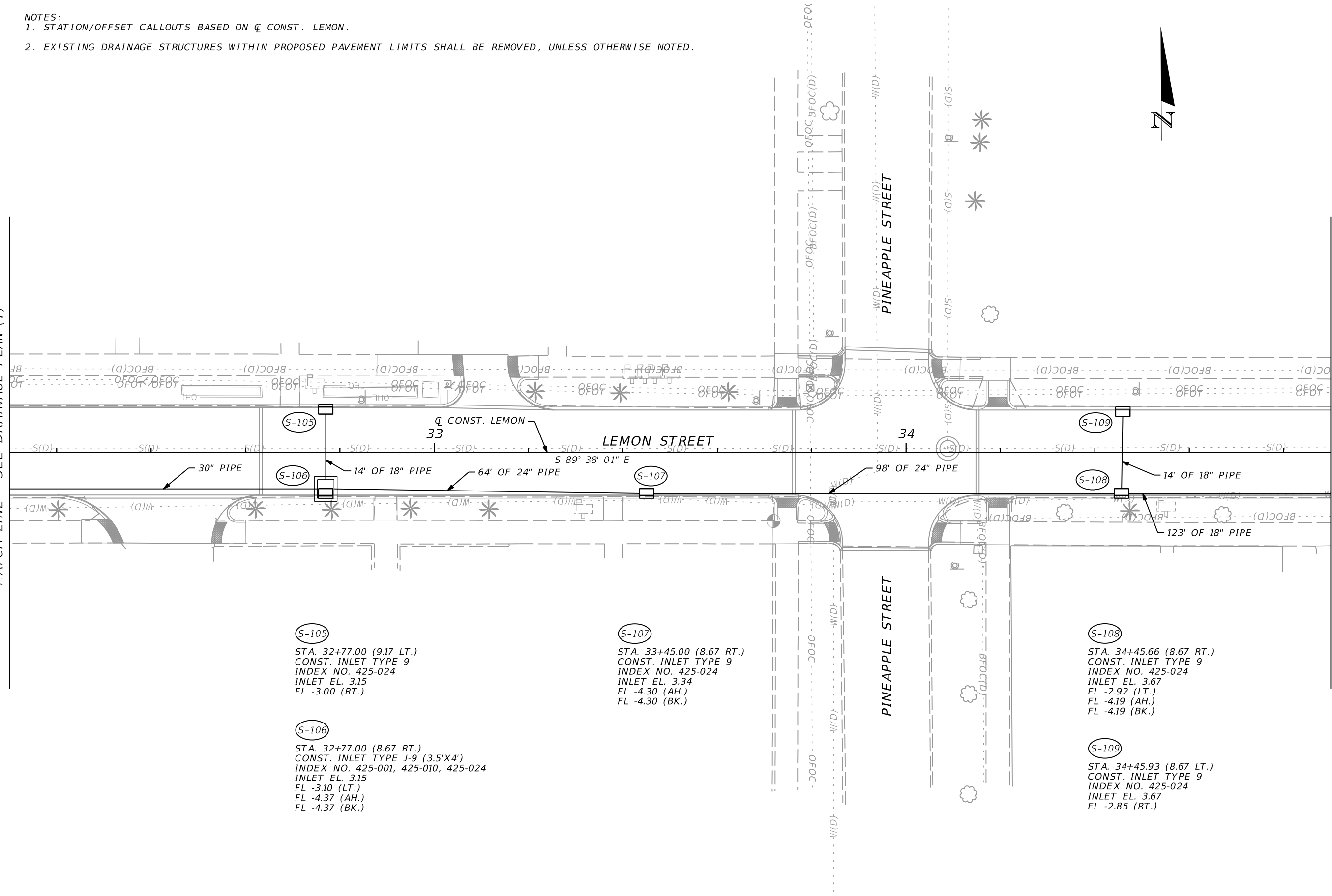
DATE: 12/16/2022
SCALE: 1" = 20'
SHEET: 16 of 36

- NOTES:
 1. STATION/OFFSET CALLOUTS BASED ON \varnothing CONST. LEMON.
 2. EXISTING DRAINAGE STRUCTURES WITHIN PROPOSED PAVEMENT LIMITS SHALL BE REMOVED, UNLESS OTHERWISE NOTED.



MATCH LINE - SEE DRAINAGE PLAN (1)

MATCH LINE - SEE DRAINAGE PLAN (3)



S-105
 STA. 32+77.00 (9.17 LT.)
 CONST. INLET TYPE 9
 INDEX NO. 425-024
 INLET EL. 3.15
 FL -3.00 (RT.)

S-106
 STA. 32+77.00 (8.67 RT.)
 CONST. INLET TYPE J-9 (3.5'X4')
 INDEX NO. 425-001, 425-010, 425-024
 INLET EL. 3.15
 FL -3.10 (LT.)
 FL -4.37 (AH.)
 FL -4.37 (BK.)

S-107
 STA. 33+45.00 (8.67 RT.)
 CONST. INLET TYPE 9
 INDEX NO. 425-024
 INLET EL. 3.34
 FL -4.30 (AH.)
 FL -4.30 (BK.)

S-108
 STA. 34+45.66 (8.67 RT.)
 CONST. INLET TYPE 9
 INDEX NO. 425-024
 INLET EL. 3.67
 FL -2.92 (LT.)
 FL -4.19 (AH.)
 FL -4.19 (BK.)

S-109
 STA. 34+45.93 (8.67 LT.)
 CONST. INLET TYPE 9
 INDEX NO. 425-024
 INLET EL. 3.67
 FL -2.85 (RT.)

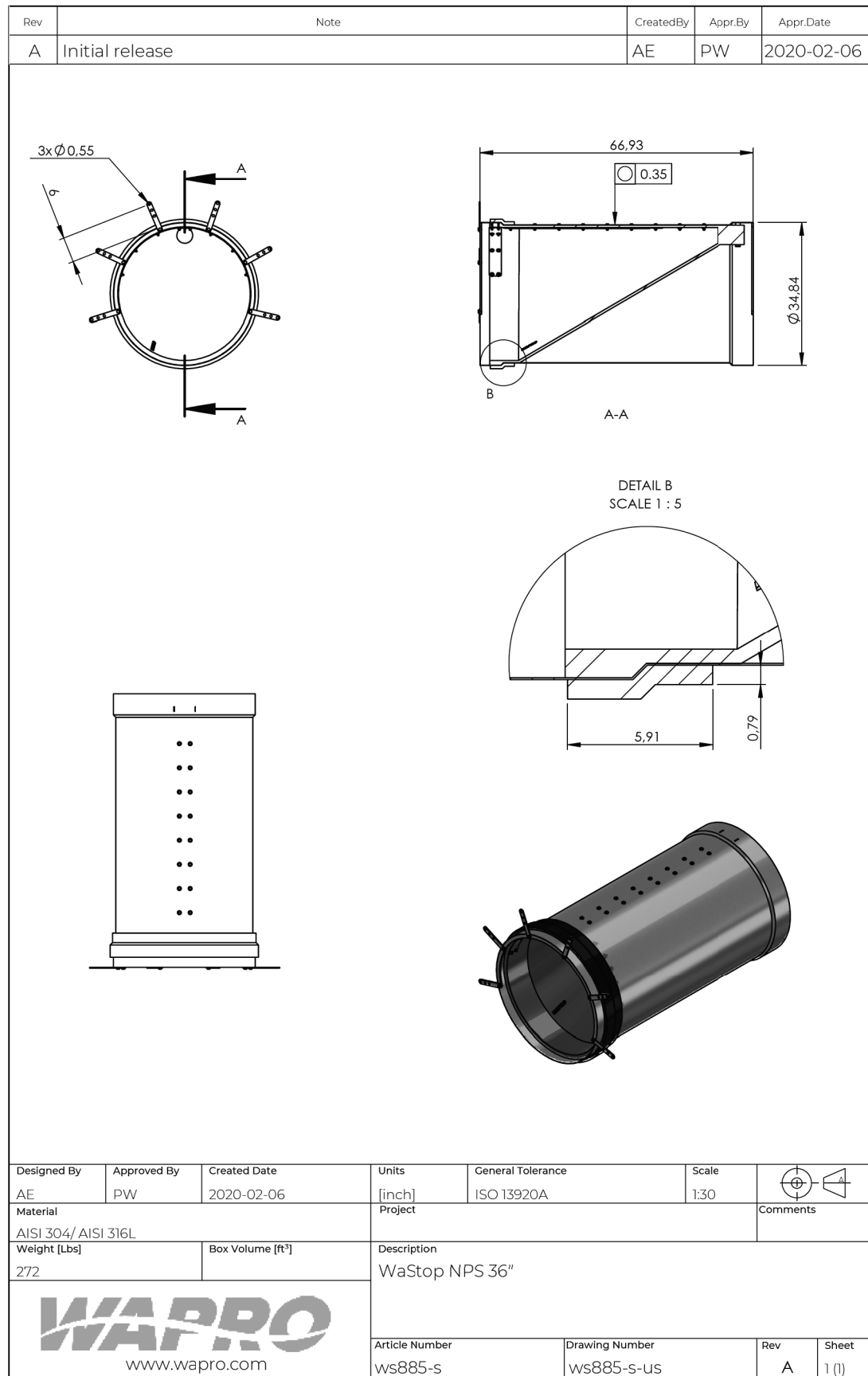
REVISIONS	BY	DATE	CHECKED	WLA	02/07/22

CITY OF TARPON SPRINGS

DRAINAGE PLAN (2)

American
 Consulting Engineers of Florida, LLC
 2818 Cypress Ridge Blvd, Suite 200
 Wesley Chapel, Florida 33544
 Phone: (813) 435-2600 Fax: (813) 435-2601
 Certificate of Authorization No. 9302
 Eric K. Nelson, P.E. No. 79361

DATE: 12/16/2022
 SCALE: 1" = 20'
 SHEET: 17 of 36



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**NOTE: TO BE INSTALLED
PER MANUFACTURER'S INSTRUCTIONS**

INLINE CHECK VALVE DETAIL

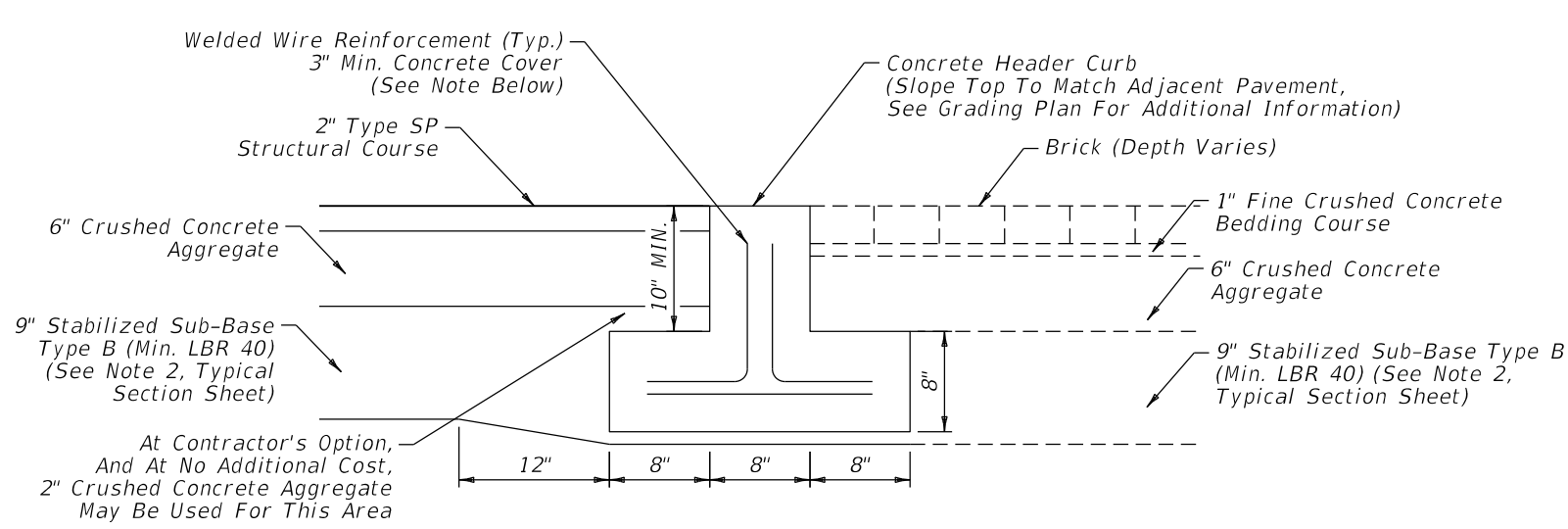
REVISIONS	BY	DATE	CHECKED	WLA	02/07/22
			DRAWN	APG	02/07/22
			DESIGNED	EKN	02/07/22

CITY OF TARPON SPRINGS

DRAINAGE DETAIL

2818 Cypress Ridge Blvd, Suite 200
 Wesley Chapel, Florida 33544
 Phone: (813) 435-2600 Fax: (813) 435-2601
 Certificate of Authorization No. 9302
 Eric K. Nelson, P.E. No. 79361

DATE: 12/16/2022
 SCALE: 1" = 20'
 SHEET: 19 of 36



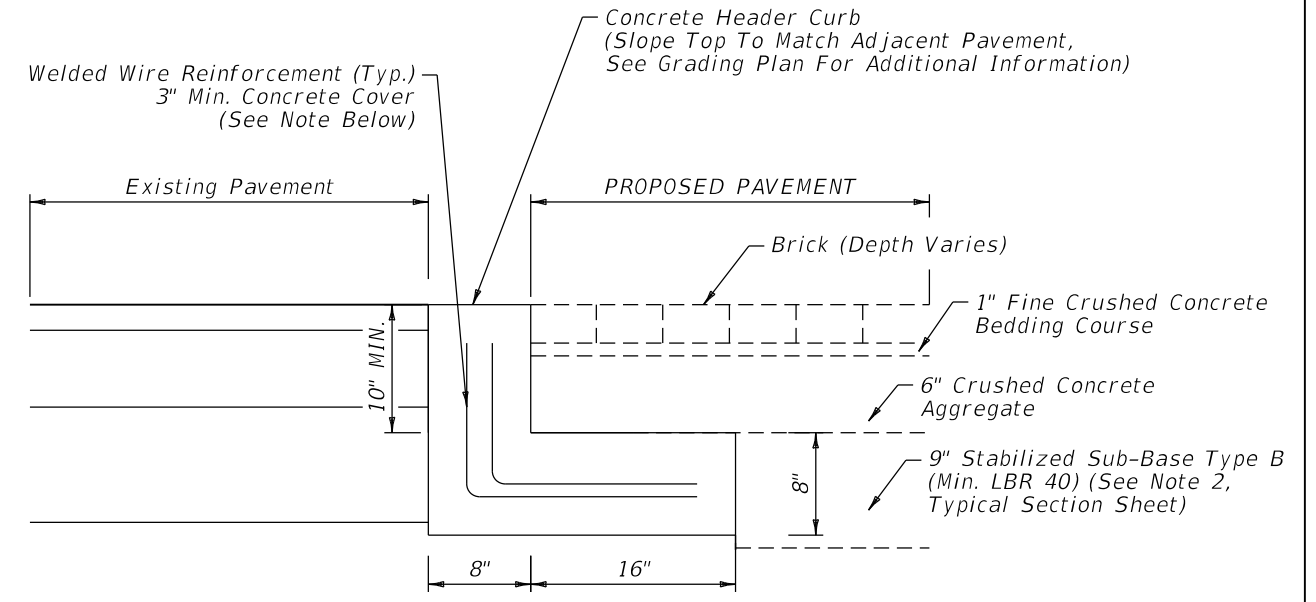
Note:
Welded wire reinforcement alternatives that meet 0.15 sq. inch per foot to be submitted by contractor for approval by the engineer. Cost of welded wire reinforcement is to be included in cost of header curb (special) pay item.

* This detail to also be utilized for locations where the same pavement type is on both sides of the concrete header curb, mirror detail accordingly.

SAWCUT CONTRACTION JOINTS AT 10' INTERVALS

**TYPICAL DETAIL TRANSITION FROM ASPHALT TO BRICK *
AND CONCRETE HEADER DETAIL (No. 1)**

N.T.S.

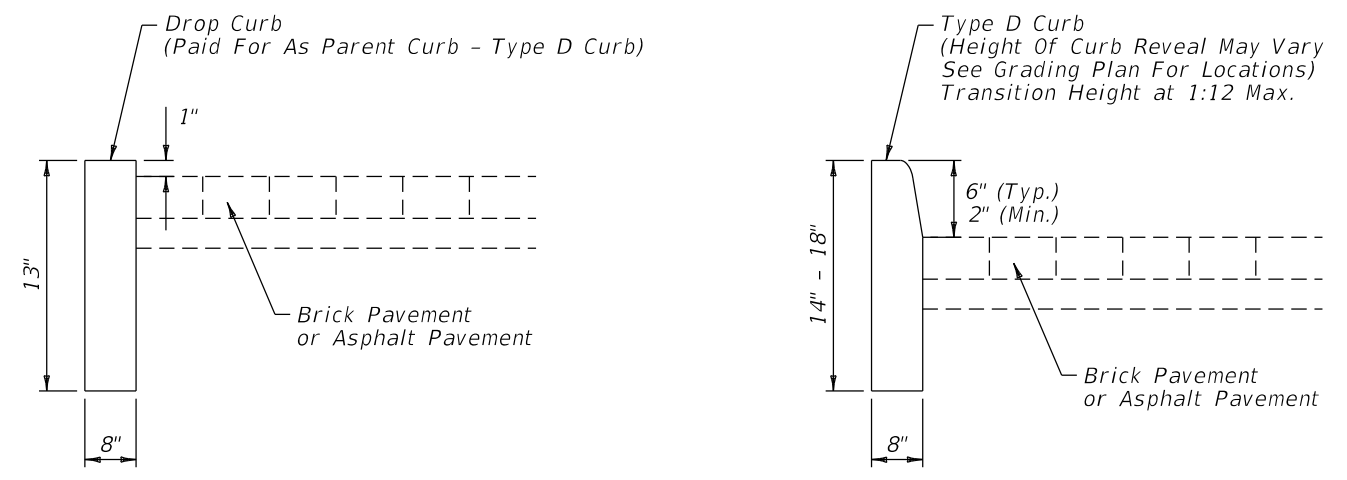


Note:
Welded wire reinforcement alternatives that meet 0.15 sq. inch per foot to be submitted by contractor for approval by the engineer. Cost of welded wire reinforcement is to be included in cost of header curb (special) pay item.

SAWCUT CONTRACTION JOINTS AT 10' INTERVALS

**TYPICAL DETAIL TRANSITION FROM PROPOSED TO EXISTING PAVEMENT
AND CONCRETE HEADER DETAIL (No. 2)**

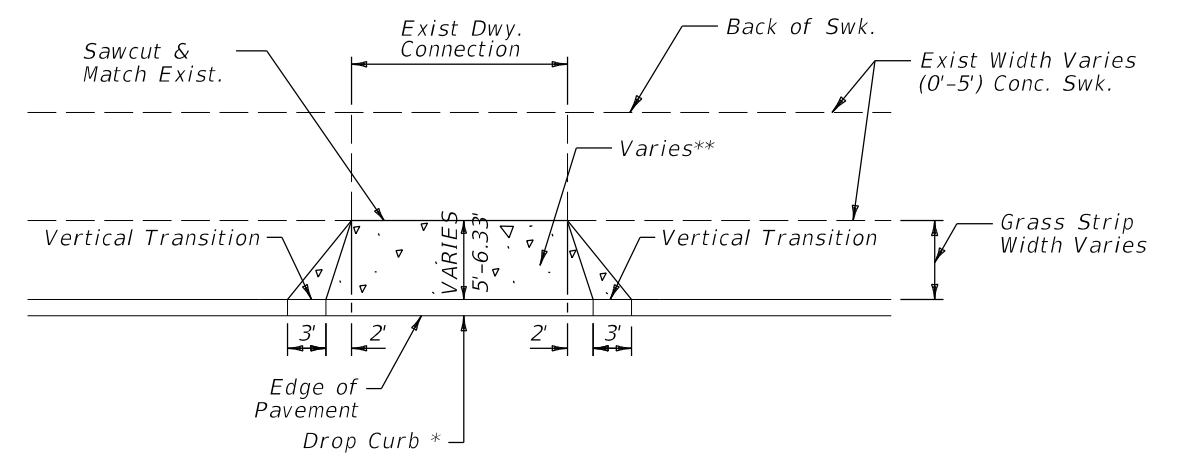
N.T.S.



INSTALL EXPANSION JOINTS @ 50' INTERVALS
AND SAWCUT CONTRACTION JOINTS @ 10' INTERVALS

CURB DETAILS (TYPE D CURB)

N.T.S.



* Drop curb to be paid for as Type D Curb
** To be constructed of 6" concrete or to match existing driveway material. If unpaved, to be paved with 6" concrete.

TURNOUT DETAIL

N.T.S.

REVISIONS	BY	DATE	CHECKED	ASP	01/31/20

BY	DATE
DESIGNED DAI	01/06/20
DRAWN RWS	01/13/20
CHECKED ASP	01/31/20

CITY OF TARPON SPRINGS

**ROADWAY
CONSTRUCTION DETAILS**

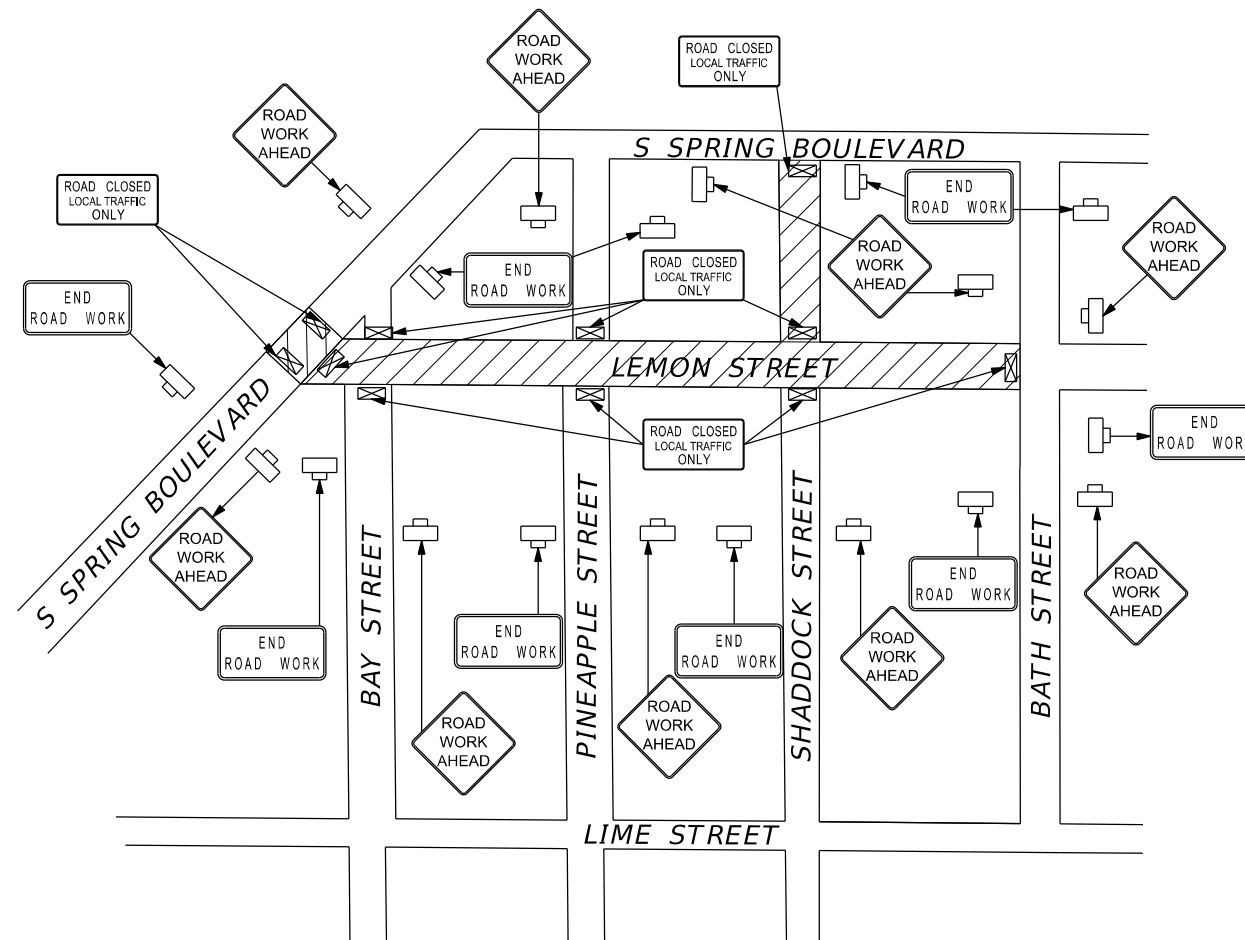
American
Consulting Engineers of Florida, LLC
2818 Cypress Ridge Blvd, Suite 200
Wesley Chapel, Florida 33544
Phone: (813) 435-2600 Fax: (813) 435-2601
Certificate of Authorization No. 9302
Erik C. Leschak, P.E. No. 63874

DATE: 12/16/2022
SCALE: NTS
SHEET: 20 of 36

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. TRAFFIC MUST BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH THE CITY OF TARPON SPRINGS STANDARDS AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD CONSTRUCTION, LATEST EDITION. ALL TRAFFIC CONTROL DEVICES AND SCHEMES TO CONFORM TO THE FHWA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (2009) AND FDOT STANDARD PLANS FOR ROAD CONSTRUCTION, LATEST EDITION. THE CONTRACTOR TO SUBMIT A MAINTENANCE OF TRAFFIC PLAN TO THE CITY FOR APPROVAL AT LEAST SEVEN CALENDAR DAYS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN ALL NECESSARY TRAFFIC CONTROL AND SAFETY DEVICES.
2. SIDE STREET AND LOCAL ACCESS SHALL BE MAINTAINED TO THE MAXIMUM EXTENT POSSIBLE FOR ALL PHASES OF CONSTRUCTION.
3. WHERE OPEN TRENCHES EXIST ADJACENT TO TRAVEL LANES A TEMPORARY BARRIER SHALL BE USED. UPON COMPLETION OF THE WORK, THE TRENCHES SHALL BE FILLED AND ACCESS RESTORED USING TEMPORARY FILL MATERIAL.
4. TEMPORARY STOP SIGNS SHALL BE INSTALLED AS REQUIRED DURING CONSTRUCTION TO MAINTAIN SAFE OPERATION OF THE SIDE ROAD TRAFFIC.
5. IF DETOURS ARE UTILIZED, DETOUR SIGNING SHALL BE ERECTED PRIOR TO OPENING THE DETOUR ROUTE. OBTAIN CITY APPROVAL OF ANY DETOUR PLANS PRIOR TO IMPLEMENTATION.
6. ALL STREETS MUST BE OPEN TO LOCAL TRAFFIC DURING WORKING AND NON-WORKING HOURS. WORKING HOURS TO BE INCLUDED IN CONTRACTOR'S MAINTENANCE OF TRAFFIC PLAN AND SUBJECT TO APPROVAL BY THE CITY.
7. CONSTRUCTION SIGN LOCATIONS MAY BE ADJUSTED BY THE ENGINEER BASED ON FIELD CONDITIONS.
8. PAYMENT FOR ALL ITEMS OUTLINED ABOVE AND AS REQUIRED FOR MAINTAINING TRAFFIC SHALL BE INCLUDED IN THE LUMP SUM UNIT COST FOR MAINTENANCE OF TRAFFIC, AND NO ADDITIONAL CLAIMS FOR TRAFFIC CONTROL WILL BE CONSIDERED.
9. THE CONTRACTOR IS TO PROVIDE AN EROSION CONTROL PLAN TO THE SATISFACTION OF THE ENGINEER AND/OR LOCAL AUTHORITIES.

TYPICAL WORK ZONE PLAN



<u>LEGEND</u>	
▨	TYPE III BARRICADE
▭	WORK ZONE SIGN
▨	WORK ZONE

		BY	DATE
		DESIGNED	DAI 01/06/20
		DRAWN	RWS 01/13/20
REVISIONS	BY	DATE	CHECKED ASP 01/31/20

CITY OF TARPON SPRINGS

TRAFFIC CONTROL PLAN

American
Consulting Engineers of Florida, LLC
2818 Cypress Ridge Blvd, Suite 200
Wesley Chapel, Florida 33544
Phone: (813) 435-2600 Fax: (813) 435-2601
Certificate of Authorization No. 9302
Erik C. Leschak, P.E. No. 63874

DATE:	12/16/2022
SCALE:	NTS
SHEET:	21 of 36



BORING LOCATION PLAN



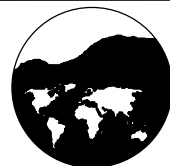
LEGEND

⊕ APPROXIMATE LOCATION OF AUGER BORING

DRAWN BY:
SW
CHECKED BY:
SF

APPROVED BY:
KHS
DATE:
SEP 2017

ENGINEER OF RECORD:
KEVIN H. SCOTT, P.E.
FLORIDA LICENSE NO.:
65514



TIERRA
7351 Temple Terrace Highway
Tampa, Florida 33637
Phone: 813-989-1354 Fax: 813-989-1355
FL Cert. No.: 6486

SCALE:
NOTED

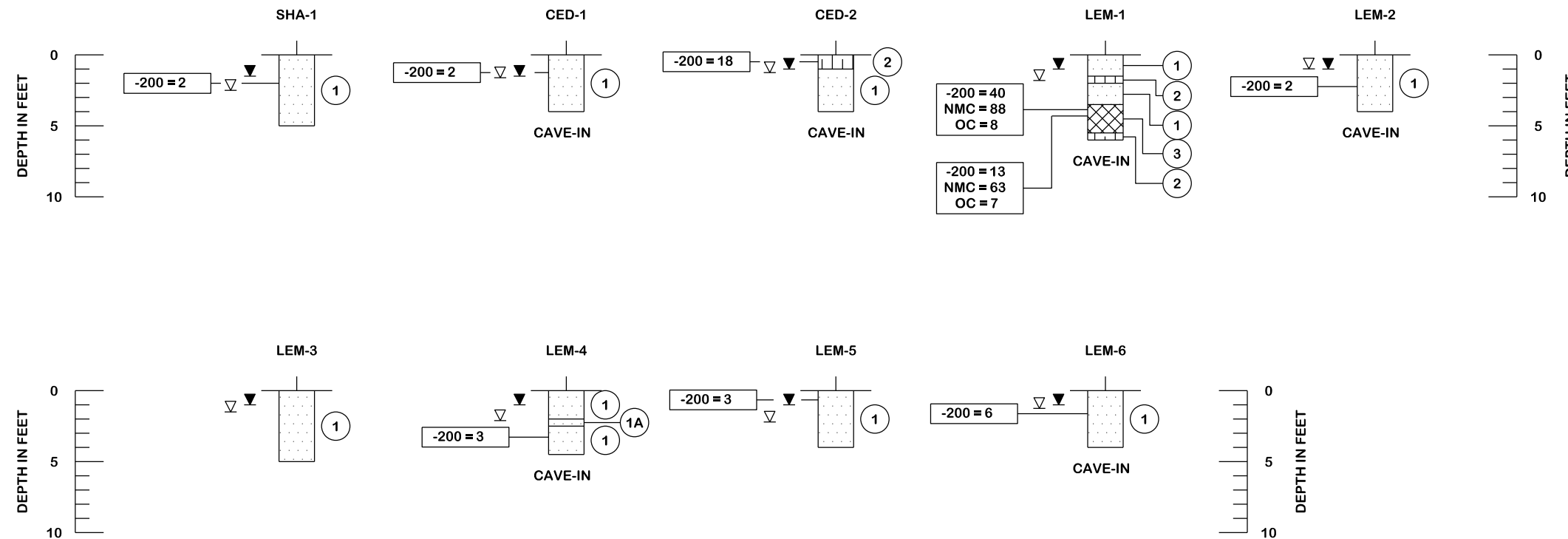
PROJECT NUMBER:
6511-15-203

GEOTECHNICAL ENGINEERING SERVICES
BORING LOCATION PLAN
PINELLAS COUNTY, FLORIDA

SHEET
22 of 36

SOIL PROFILES

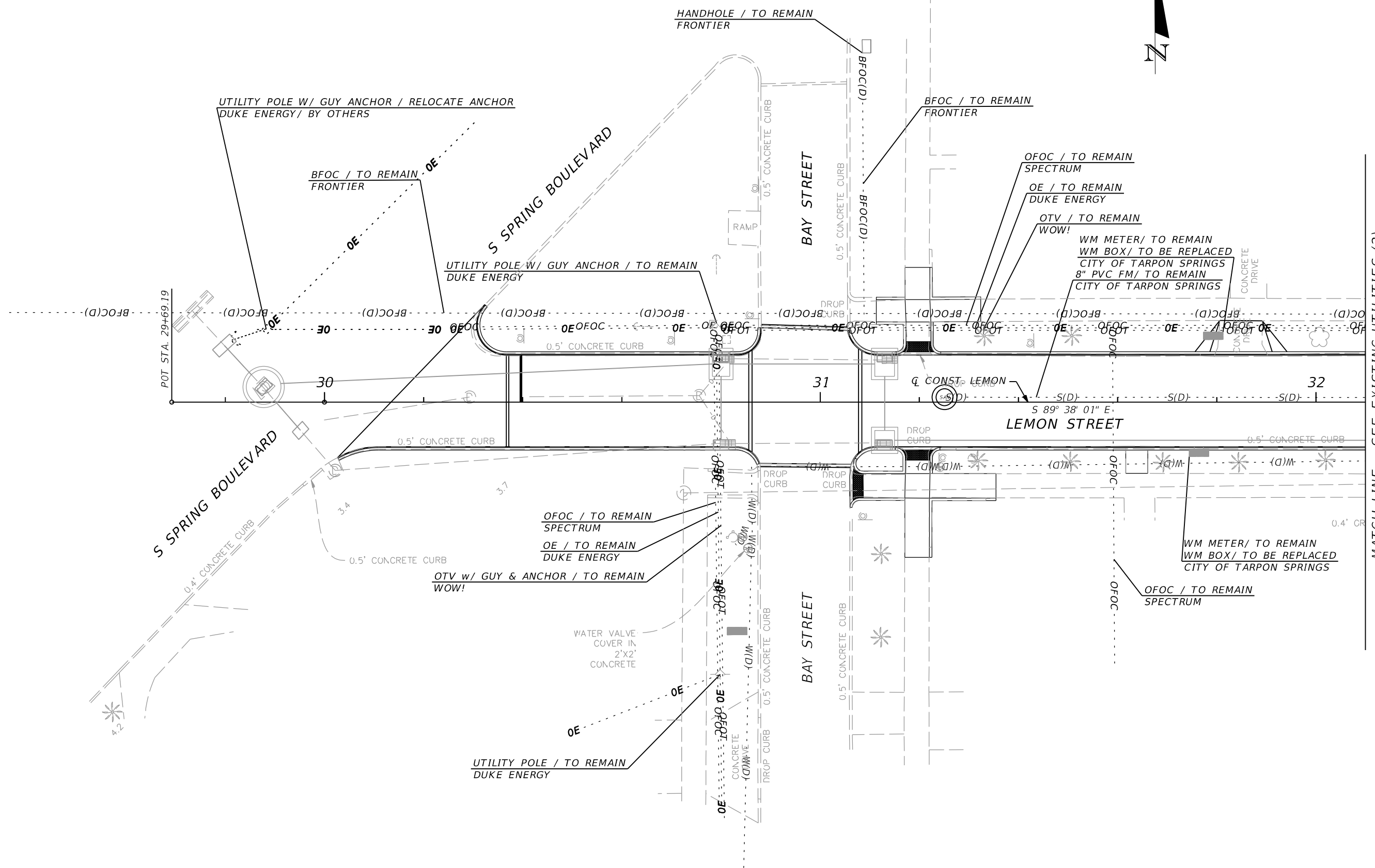
LEGEND



- ① GRAY TO BROWN SAND TO SAND WITH SILT (SP/SP-SM)
- ② DARK BROWN SILTY SAND (SM)
- ③ DARK BROWN ORGANIC SILTY SAND (SM/PT)
- A - WITH METAL FRAGMENTS
- ▽ GROUNDWATER LEVEL ENCOUNTERED DURING INVESTIGATION
- ▼ ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
- SP UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2488) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW
- CAVE-IN BORING TERMINATED DUE TO CAVE-IN OF SOILS
- 200 PERCENT PASSING #200 SIEVE
- NMC NATURAL MOISTURE CONTENT (%)
- OC ORGANIC CONTENT (%)

RECOMMENDED ENVIRONMENTAL CLASSIFICATION:
 SUBSTRUCTURE CONCRETE: SLIGHTLY AGGRESSIVE
 SUBSTRUCTURE STEEL: MODERATELY AGGRESSIVE (PH=6.5)

SOIL TEST RESULTS:
 RESISTIVITY 6,800 TO 22,000 OHM-CM
 CHLORIDES 30 TO 45 PPM
 SULFATES 0 TO 9 PPM
 pH 6.5 TO 7.7



MATCH LINE - SEE EXISTING UTILITIES (2)

REVISIONS	BY	DATE	CHECKED	ASP	01/31/20

BY DATE
 DESIGNED DAI 01/06/20
 DRAWN RWS 01/13/20
 CHECKED ASP 01/31/20

CITY OF TARPON SPRINGS

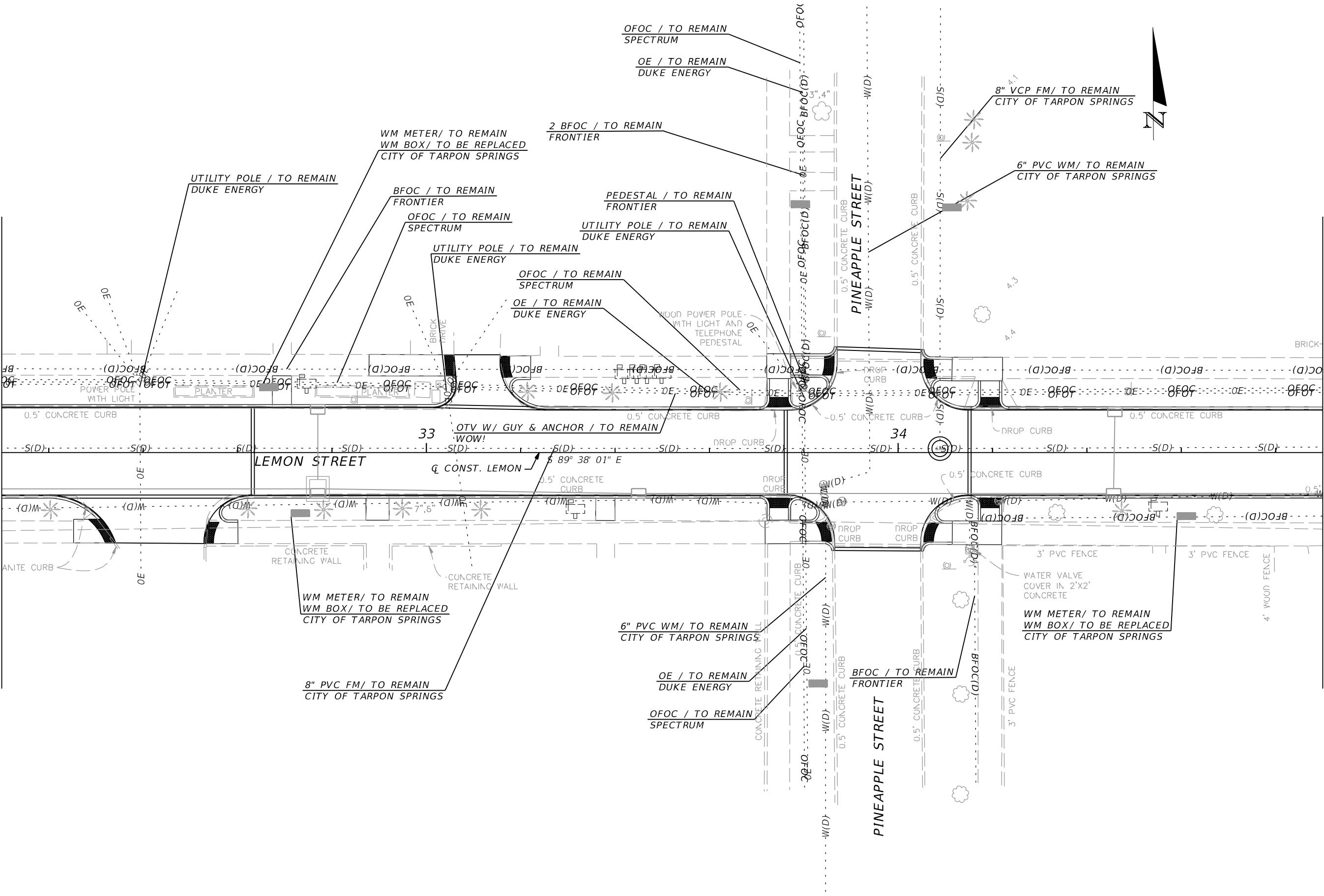
EXISTING UTILITIES (1)

American
 Consulting Engineers of Florida, LLC
 2818 Cypress Ridge Blvd, Suite 200
 Wesley Chapel, Florida 33544
 Phone: (813) 435-2600 Fax: (813) 435-2601
 Certificate of Authorization No. 9302
 Erik C. Leschak, P.E. No. 63874

DATE: 12/16/2022
 SCALE: 1" = 20'
 SHEET: 24 of 36

MATCH LINE - SEE EXISTING UTILITIES (1)

MATCH LINE - SEE EXISTING UTILITIES (3)



REVISIONS	BY	DATE	CHECKED	ASP	01/31/20

CITY OF TARPON SPRINGS

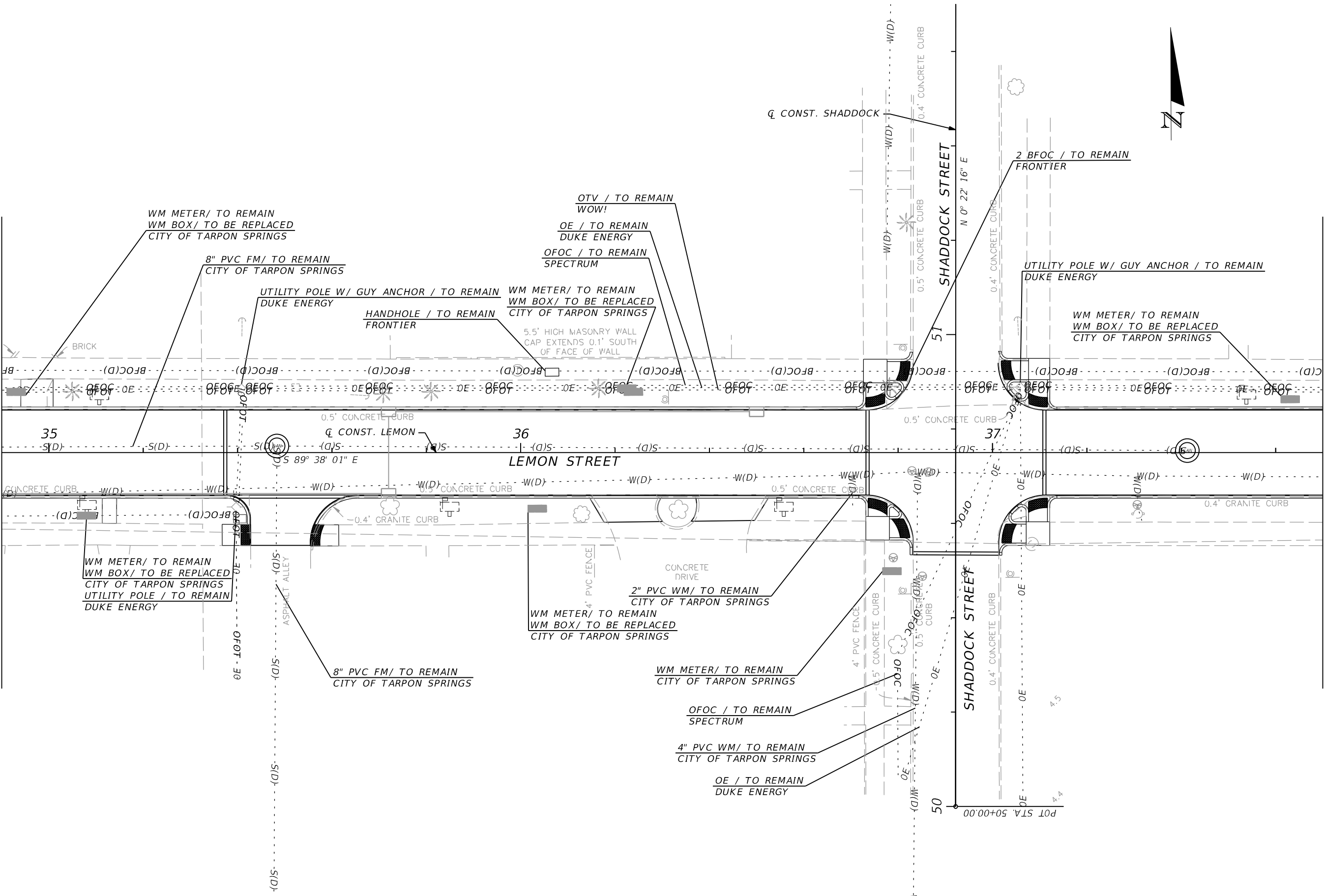
EXISTING UTILITIES (2)

American
 Consulting Engineers of Florida, LLC
 2818 Cypress Ridge Blvd, Suite 200
 Wesley Chapel, Florida 33544
 Phone: (813) 435-2600 Fax: (813) 435-2601
 Certificate of Authorization No. 9302
 Erik C. Leschak, P.E. No. 63874

DATE: 12/16/2022
 SCALE: 1" = 20'
 SHEET: 25 of 36

MATCH LINE - SEE EXISTING UTILITIES (2)

MATCH LINE - SEE EXISTING UTILITIES (4)



REVISIONS	BY	DATE	CHECKED	BY	DATE
				DAI	01/06/20
				RWS	01/13/20
				ASP	01/31/20

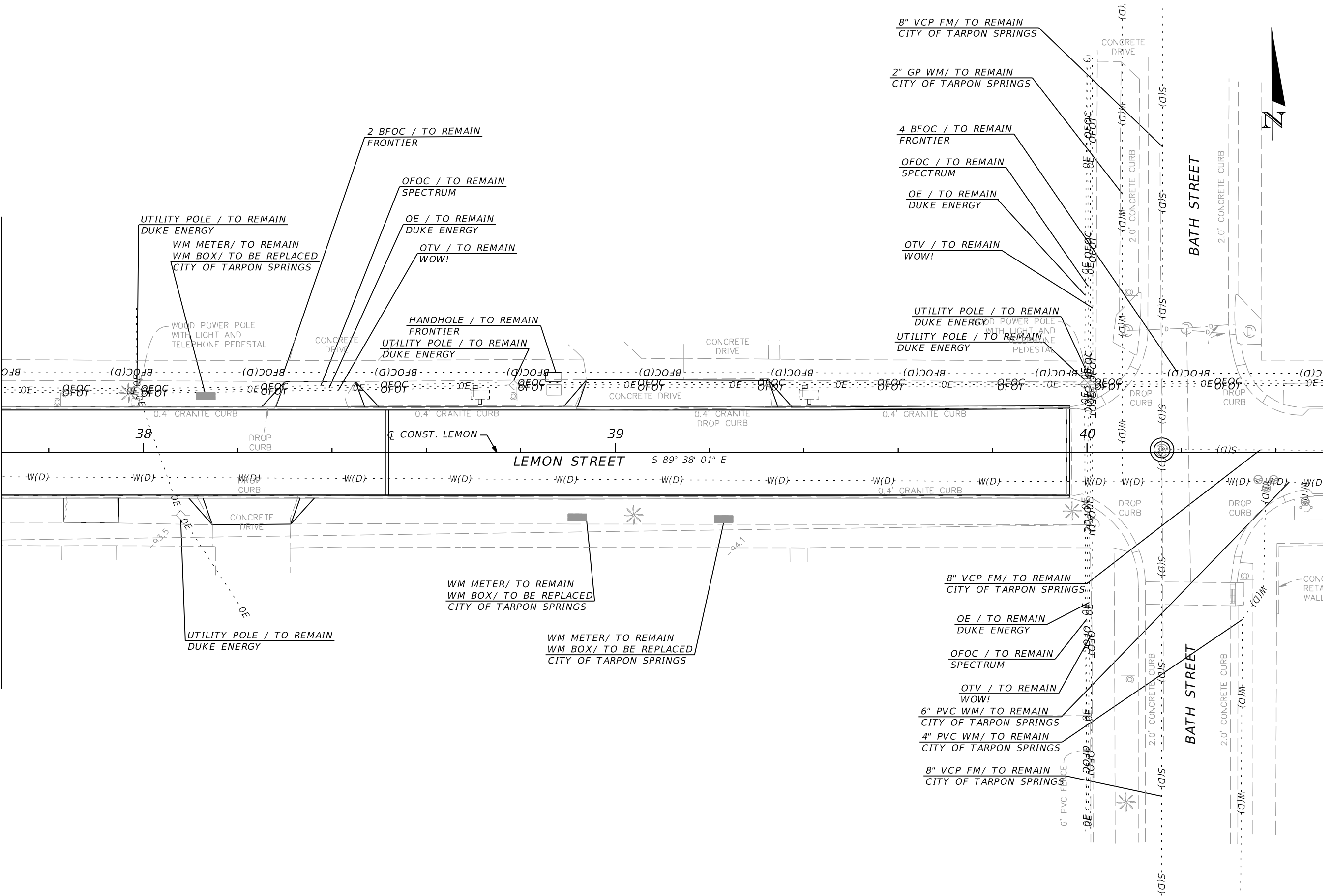
CITY OF TARPON SPRINGS

EXISTING UTILITIES (3)

American
 Consulting Engineers of Florida, LLC
 2818 Cypress Ridge Blvd, Suite 200
 Wesley Chapel, Florida 33544
 Phone: (813) 435-2600 Fax: (813) 435-2601
 Certificate of Authorization No. 9302
 Erik C. Leschak, P.E. No. 63874

DATE: 12/16/2022
 SCALE: 1" = 20'
 SHEET: 26 of 36

MATCH LINE - SEE EXISTING UTILITIES (3)



REVISIONS	BY	DATE	CHECKED	ASP	01/31/20

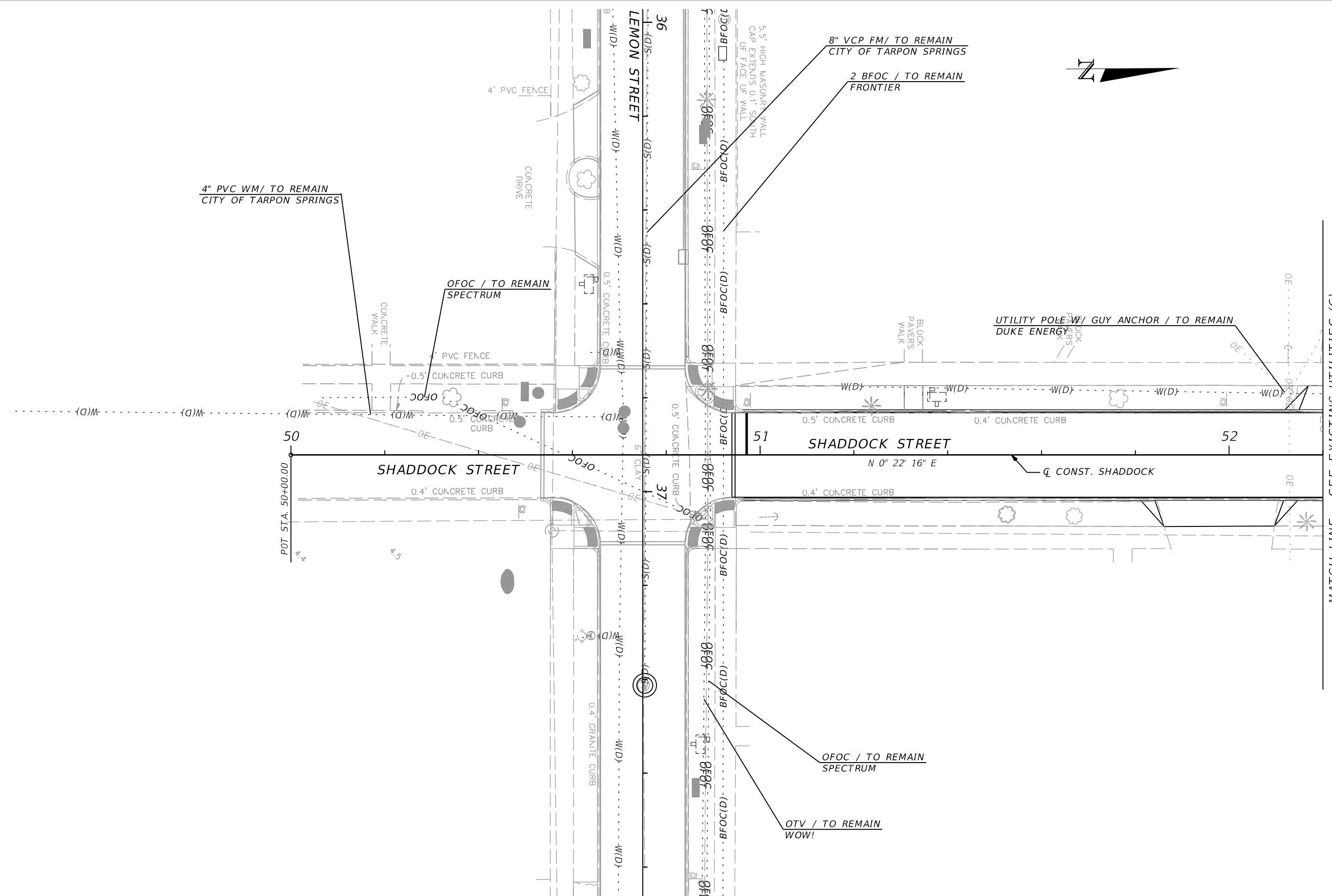
BY DATE
 DESIGNED DAI 01/06/20
 DRAWN RWS 01/13/20
 CHECKED ASP 01/31/20

CITY OF TARPON SPRINGS

EXISTING UTILITIES (4)

American
 Consulting Engineers of Florida, LLC
 2818 Cypress Ridge Blvd, Suite 200
 Wesley Chapel, Florida 33544
 Phone: (813) 435-2600 Fax: (813) 435-2601
 Certificate of Authorization No. 9302
 Erik C. Leschak, P.E. No. 63874

DATE: 12/16/2022
 SCALE: 1" = 20'
 SHEET: 27 of 36



MATCH LINE - SEE EXISTING UTILITIES (6)

REVISIONS	BY	DATE	CHECKED	ASP	01/31/20

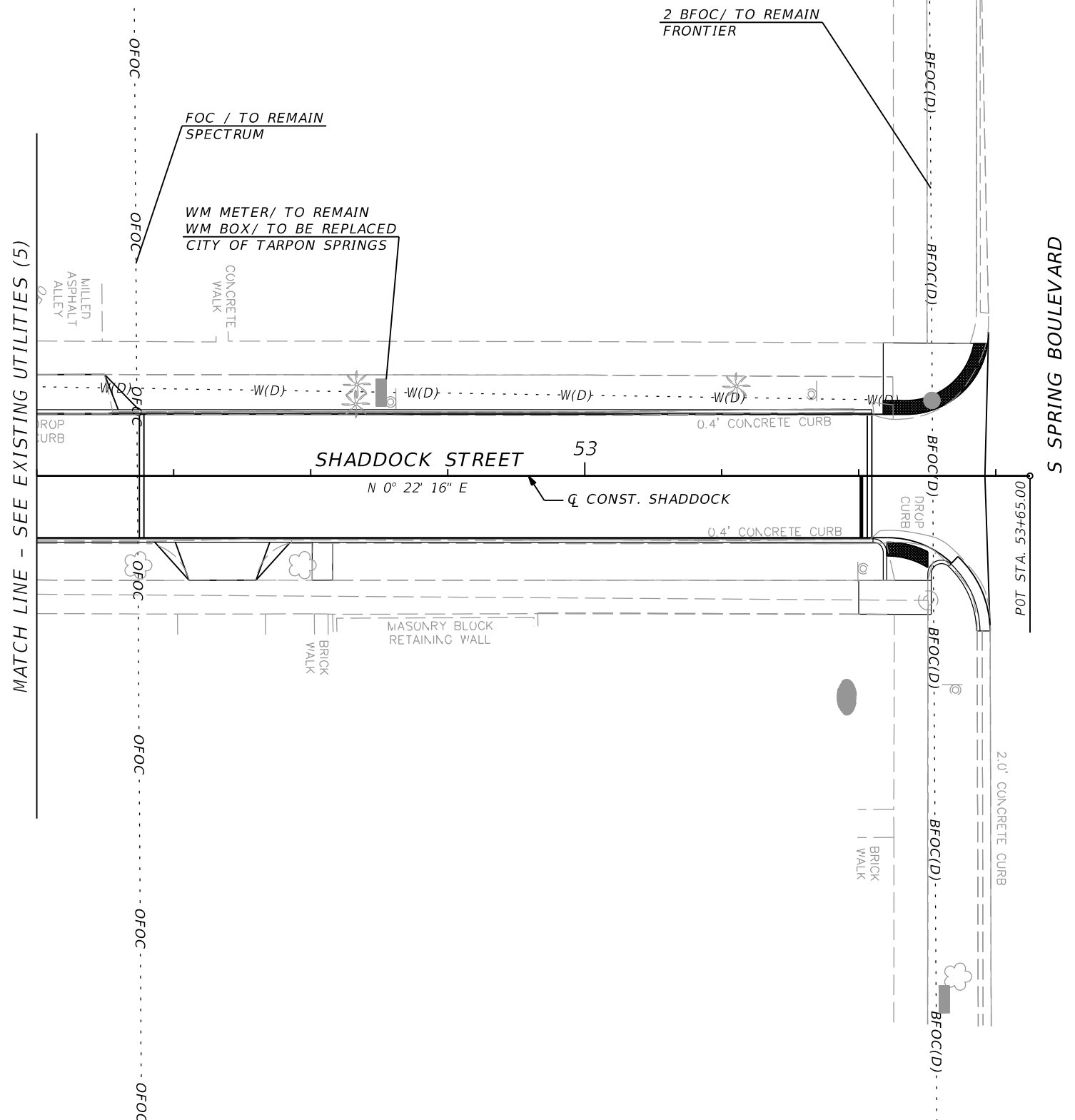
BY DATE
 DESIGNED DAI 01/06/20
 DRAWN RWS 01/13/20
 CHECKED ASP 01/31/20

CITY OF TARPON SPRINGS

EXISTING UTILITIES (5)

American
 Consulting Engineers of Florida, LLC
 2818 Cypress Ridge Blvd, Suite 200
 Wesley Chapel, Florida 33544
 Phone: (813) 435-2600 Fax: (813) 435-2601
 Certificate of Authorization No. 9302
 Erik C. Leschak, P.E. No. 63874

DATE: 12/16/2022
 SCALE: 1" = 20'
 SHEET: 28 of 36



MATCH LINE - SEE EXISTING UTILITIES (5)

S SPRING BOULEVARD

POT STA. 53+65.00

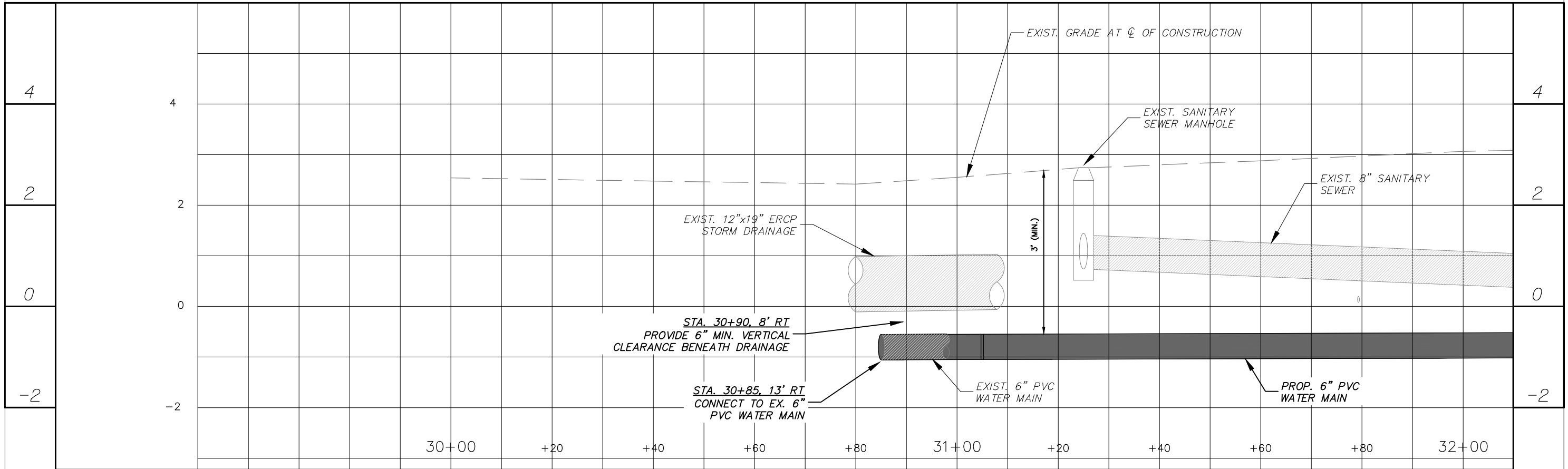
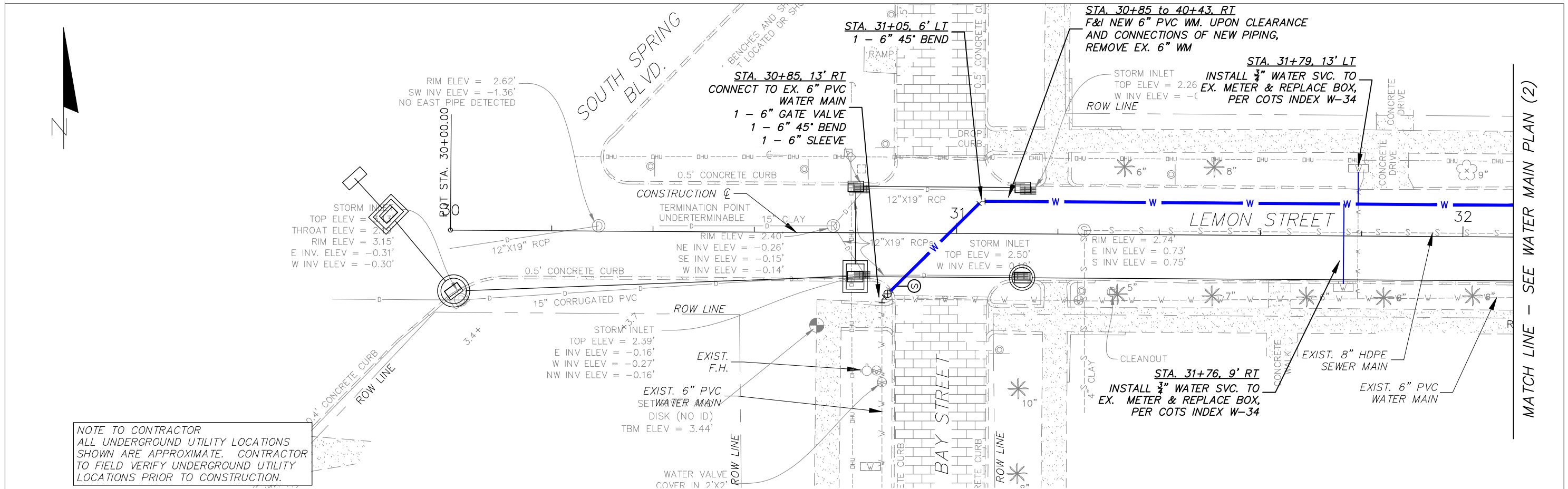
REVISIONS	BY	DATE	CHECKED	BY	DATE
				DAI	01/06/20
				RWS	01/13/20
				ASP	01/31/20

CITY OF TARPON SPRINGS

EXISTING UTILITIES (6)

American
 Consulting Engineers of Florida, LLC
 2818 Cypress Ridge Blvd, Suite 200
 Wesley Chapel, Florida 33544
 Phone: (813) 435-2600 Fax: (813) 435-2601
 Certificate of Authorization No. 9302
 Erik C. Leschak, P.E. No. 63874

DATE:	12/16/2022
SCALE:	1" = 20'
SHEET:	29 of 36



REVISIONS	BY	DATE	CHECKED	BY	DATE
				KDH	04/25/22
				KDH	05/03/22
				ECL	05/04/22

CITY OF TARPON SPRINGS

WATER MAIN PLAN & PROFILE (1)

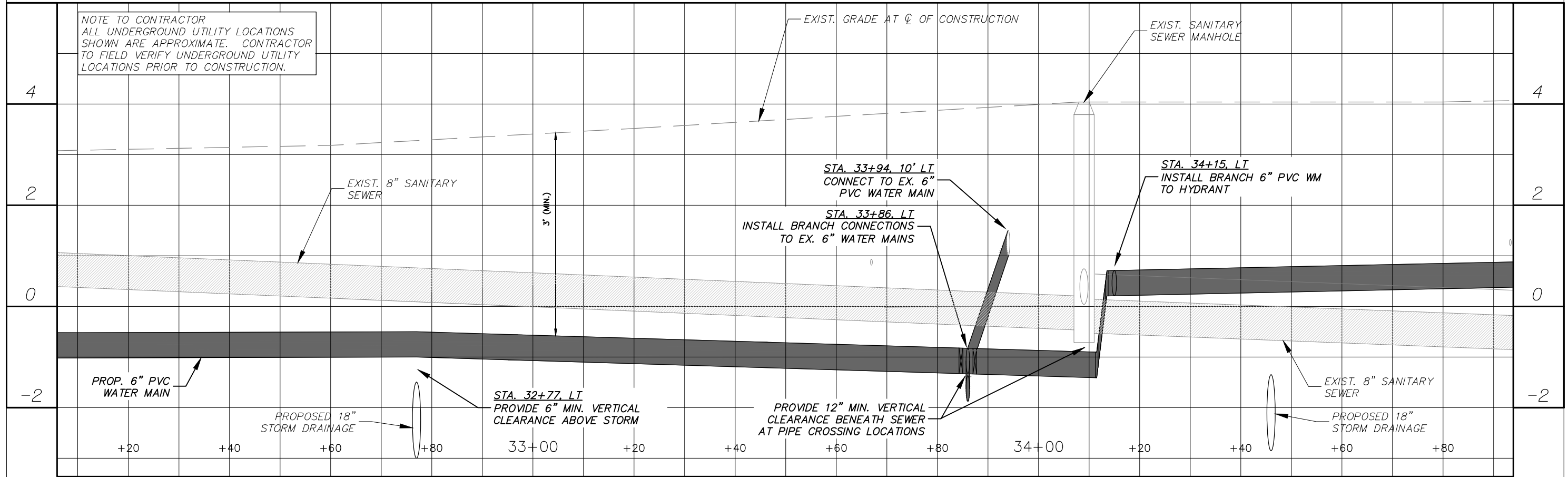
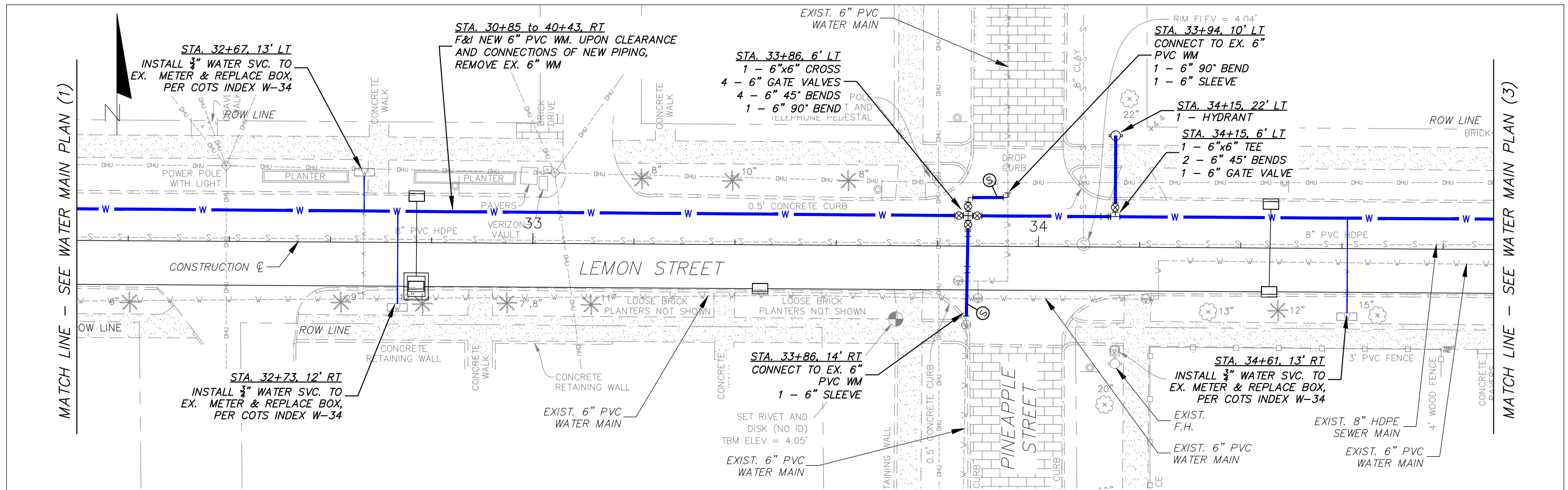
STROUD ENGINEERING CONSULTANTS, INC.
10503 CYNDEE LANE
ODESSA, FLORIDA 33556
PHONE: (813) 760-1964
CERTIFICATE OF AUTHORIZATION NO. 29607

DATE: 06/20/22

SCALE: 1"=20' HORZ.
1"=2' VERT.

SHEET: 30 OF 36

KURT D. HEATH, P.E. NO. 56181



NOTE TO CONTRACTOR
ALL UNDERGROUND UTILITY LOCATIONS
SHOWN ARE APPROXIMATE. CONTRACTOR
TO FIELD VERIFY UNDERGROUND UTILITY
LOCATIONS PRIOR TO CONSTRUCTION.

BY	DATE
DESIGNED	KDH 04/25/22
DRAWN	KDH 05/03/22
CHECKED	ECL 05/04/22

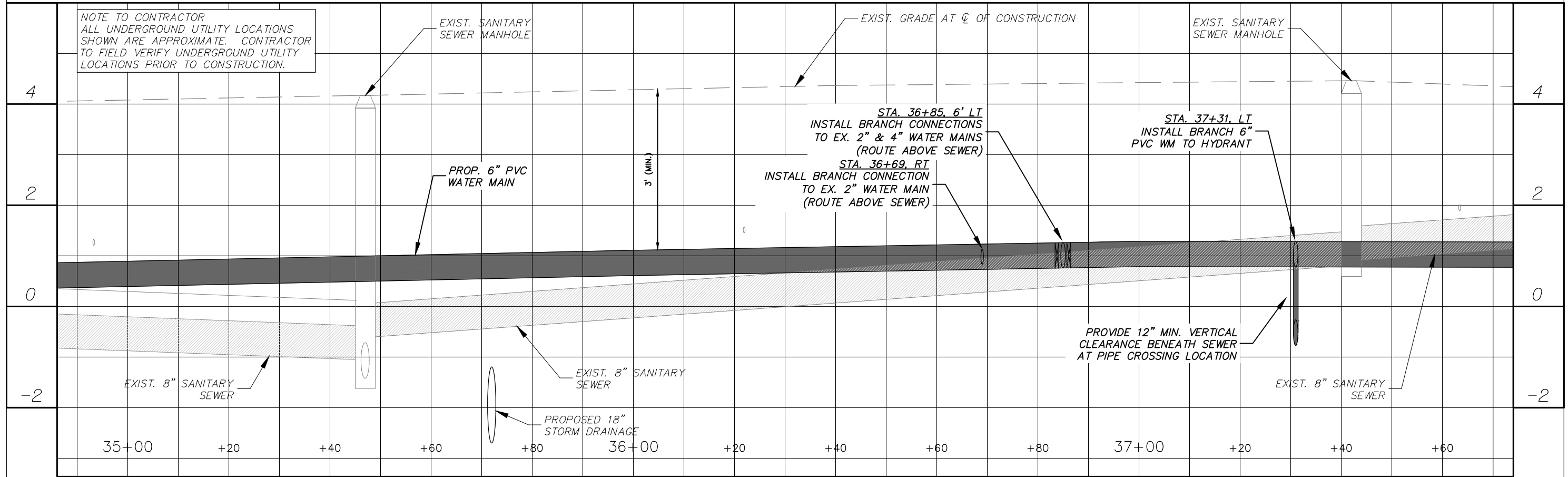
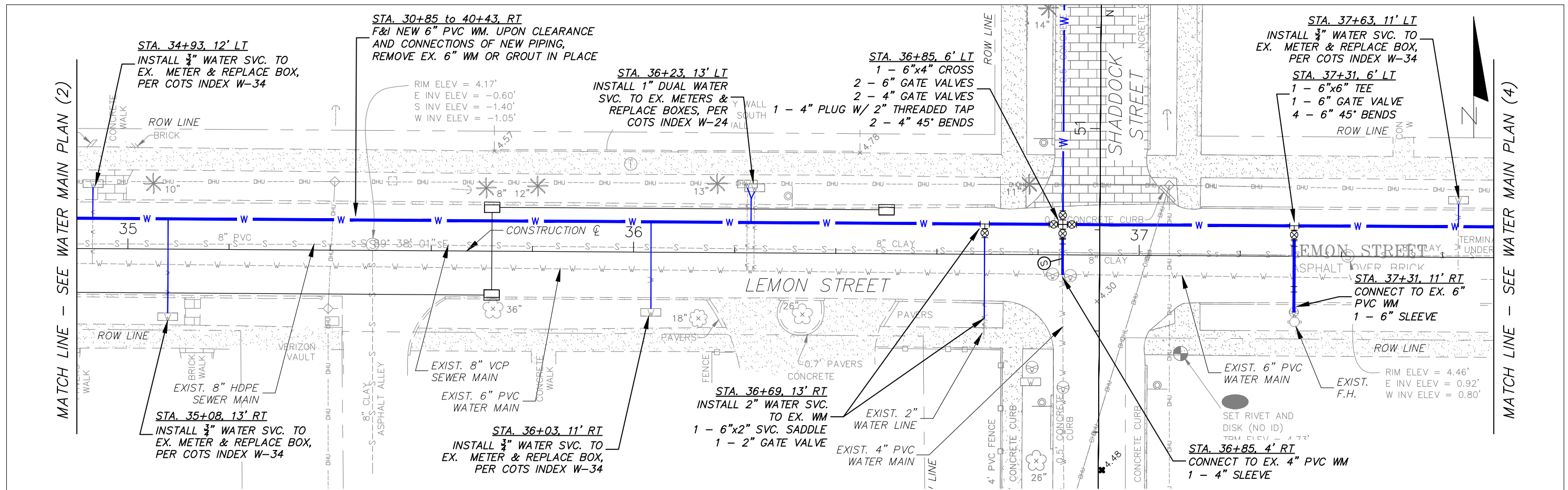
CITY OF TARPON SPRINGS

WATER MAIN PLAN & PROFILE (2)

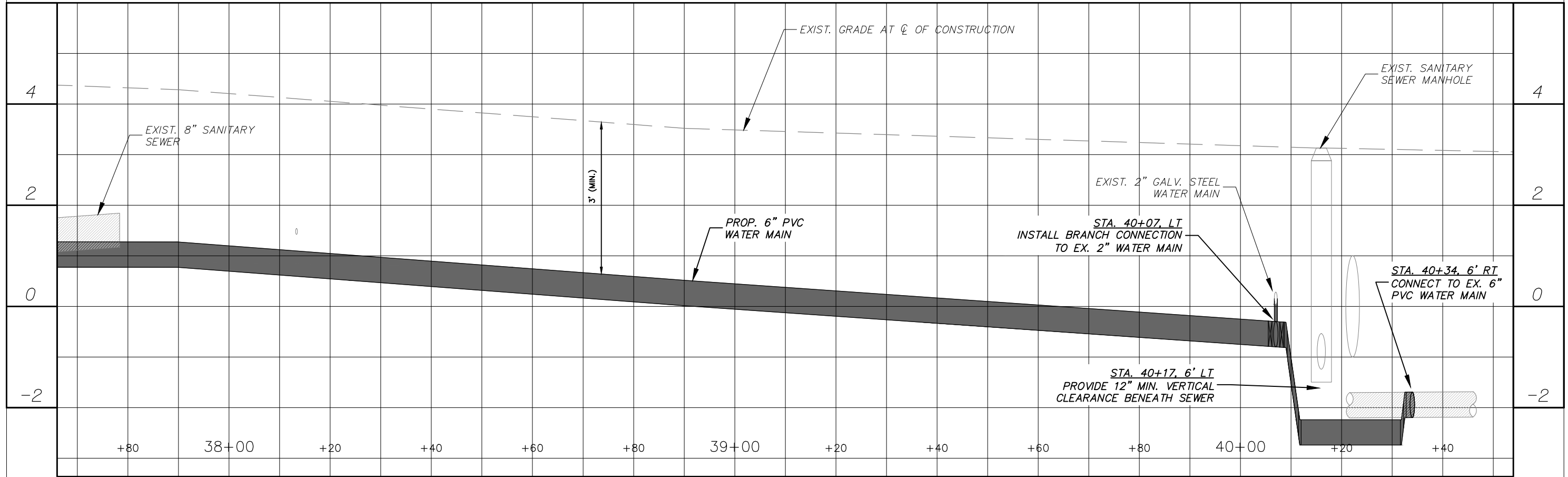
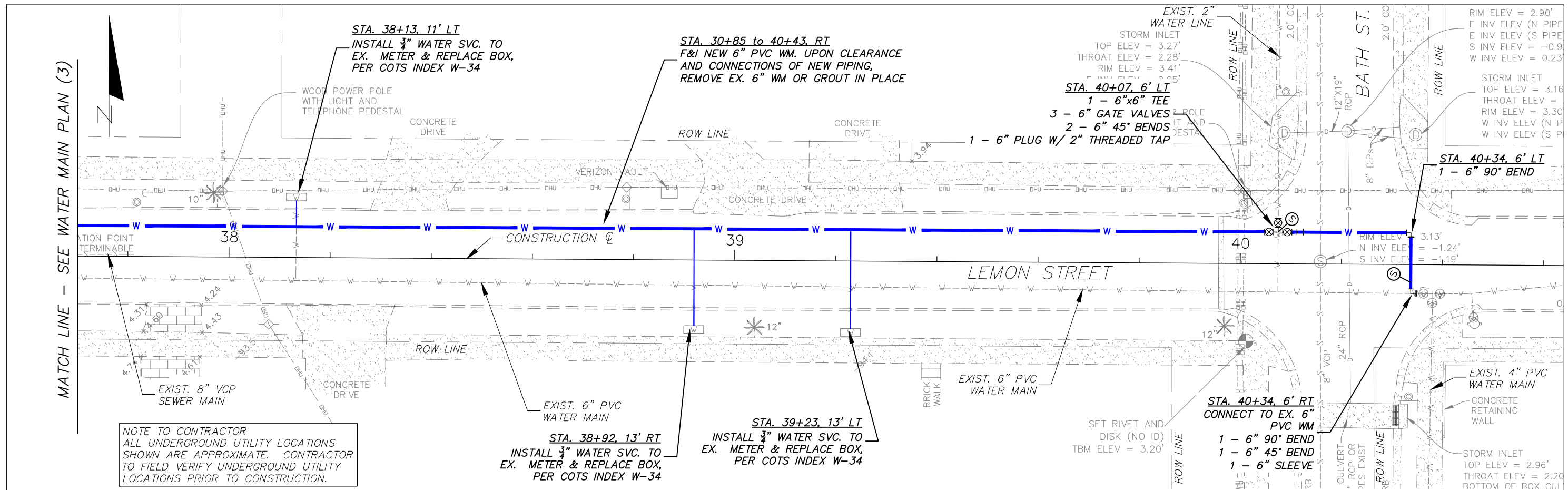
STROUD ENGINEERING CONSULTANTS, INC.
10503 CYNDEE LANE
ODESSA, FLORIDA 33556
PHONE: (813) 760-1964
CERTIFICATE OF AUTHORIZATION NO. 29607
KURT D. HEATH, P.E. NO. 56181

DATE: 06/20/22
SCALE: 1"=20' HORZ.
1"=2' VERT.
SHEET: 31 OF 36

REVISIONS	BY	DATE



BY		DATE	CITY OF TARPON SPRINGS		WATER MAIN PLAN & PROFILE (3)		STROUD ENGINEERING CONSULTANTS, INC.		DATE:	06/20/22	
DESIGNED		KDH	04/25/22					10503 CYNDEE LANE		SCALE:	1"=20' HORZ.
DRAWN		KDH	05/03/22					ODESSA, FLORIDA 33556		SCALE:	1"=2' VERT.
CHECKED		ECL	05/04/22					PHONE: (813) 760-1964		SHEET:	
REVISIONS		BY	DATE					CERTIFICATE OF AUTHORIZATION NO. 29607		32 OF 36	
								KURT D. HEATH, P.E. NO. 56181			



REVISIONS	BY	DATE	CHECKED	BY	DATE
				DESIGNED	KDH 04/25/22
				DRAWN	KDH 05/03/22
				CHECKED	ECL 05/04/22

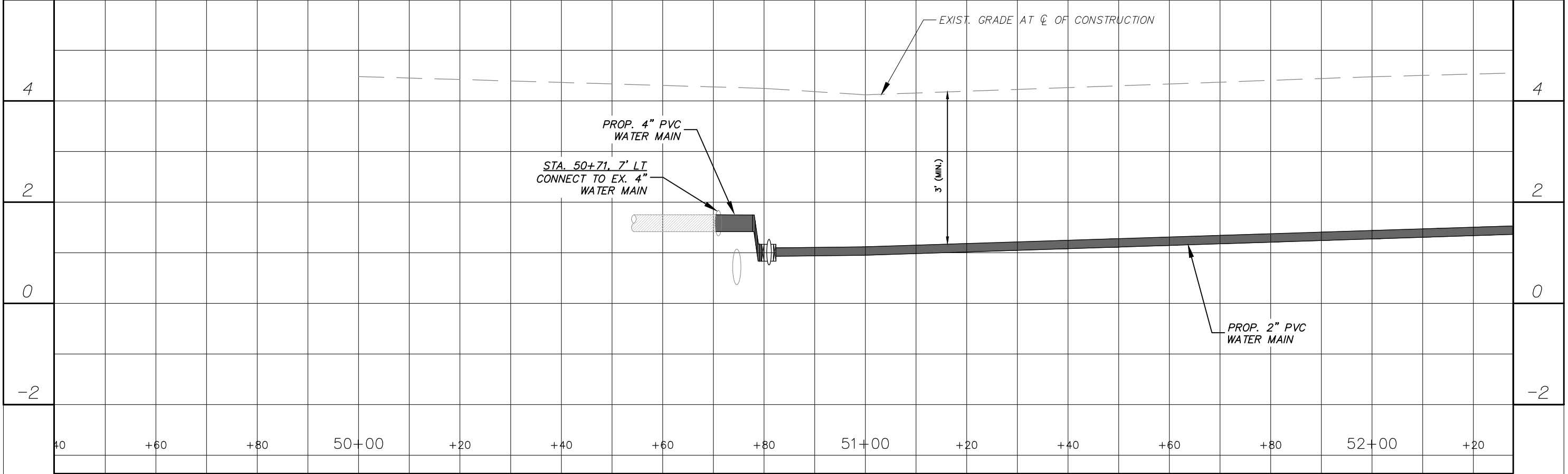
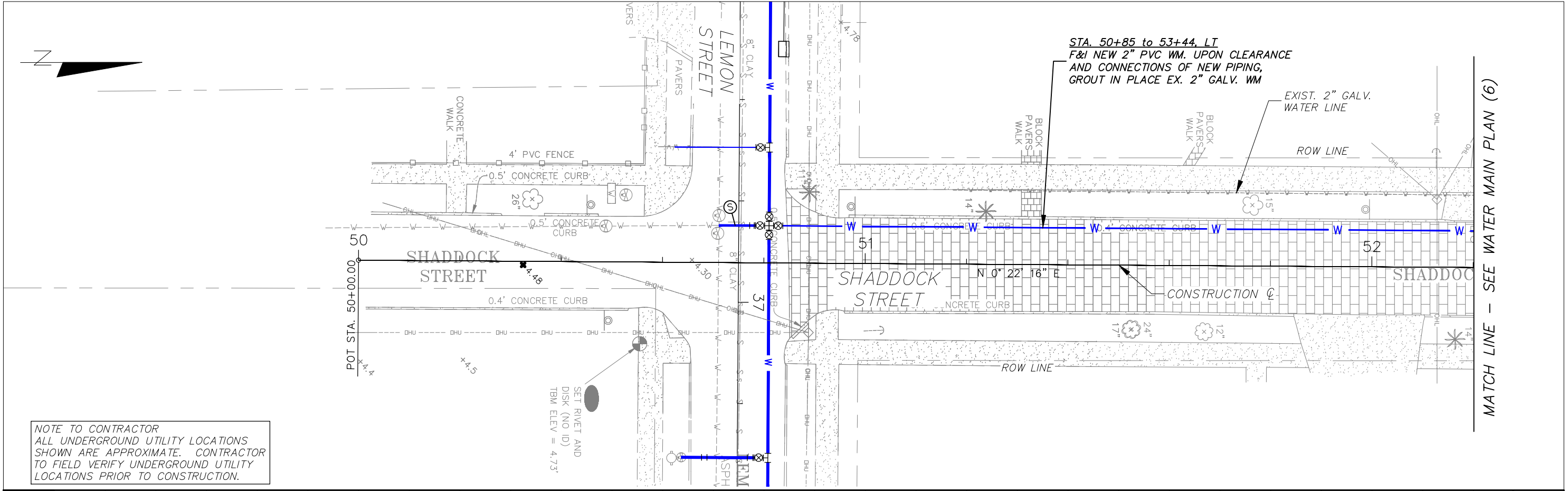
CITY OF TARPON SPRINGS

WATER MAIN PLAN & PROFILE (4)

STROUD ENGINEERING CONSULTANTS, INC.
 10503 CYNDEE LANE
 ODESSA, FLORIDA 33556
 PHONE: (813) 760-1964
 CERTIFICATE OF AUTHORIZATION NO. 29607

DATE: 06/20/22
 SCALE: 1"=20' HORZ.
 1"=2' VERT.
 SHEET: 33 OF 36

KURT D. HEATH, P.E. NO. 56181



REVISIONS	BY	DATE	CHECKED	BY	DATE
	ECL	05/04/22		KDH	05/03/22
	KDH	05/03/22		KDH	04/25/22

CITY OF TARPON SPRINGS

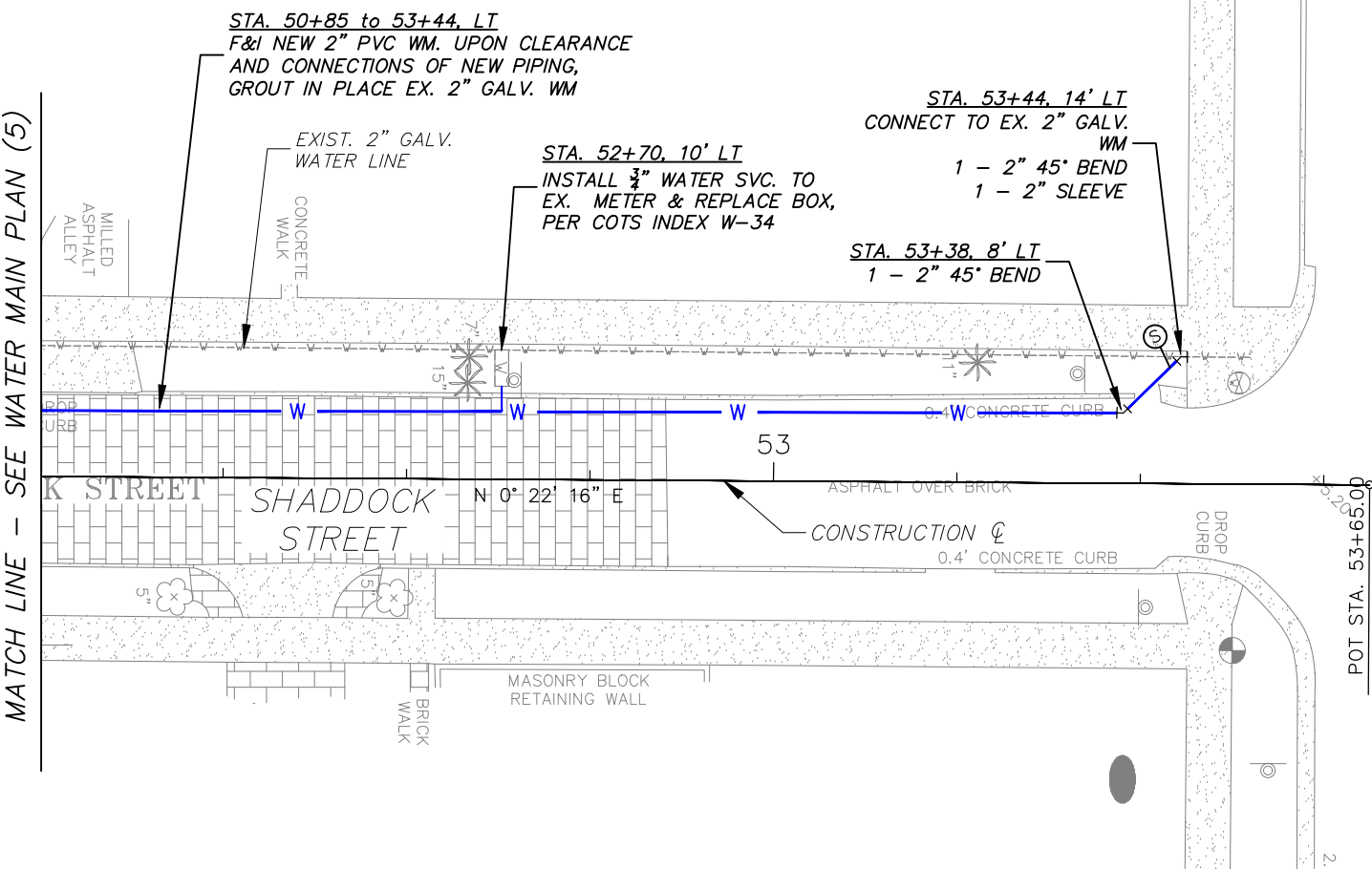
WATER MAIN PLAN & PROFILE (5)

STROUD ENGINEERING CONSULTANTS, INC.
10503 CYNDEE LANE
ODESSA, FLORIDA 33556
PHONE: (813) 760-1964
CERTIFICATE OF AUTHORIZATION NO. 29607

DATE: 06/20/22
SCALE: 1"=20' HORZ.
1"=2' VERT.
SHEET: 34 OF 36

KURT D. HEATH, P.E. NO. 56181

MATCH LINE - SEE WATER MAIN PLAN (6)

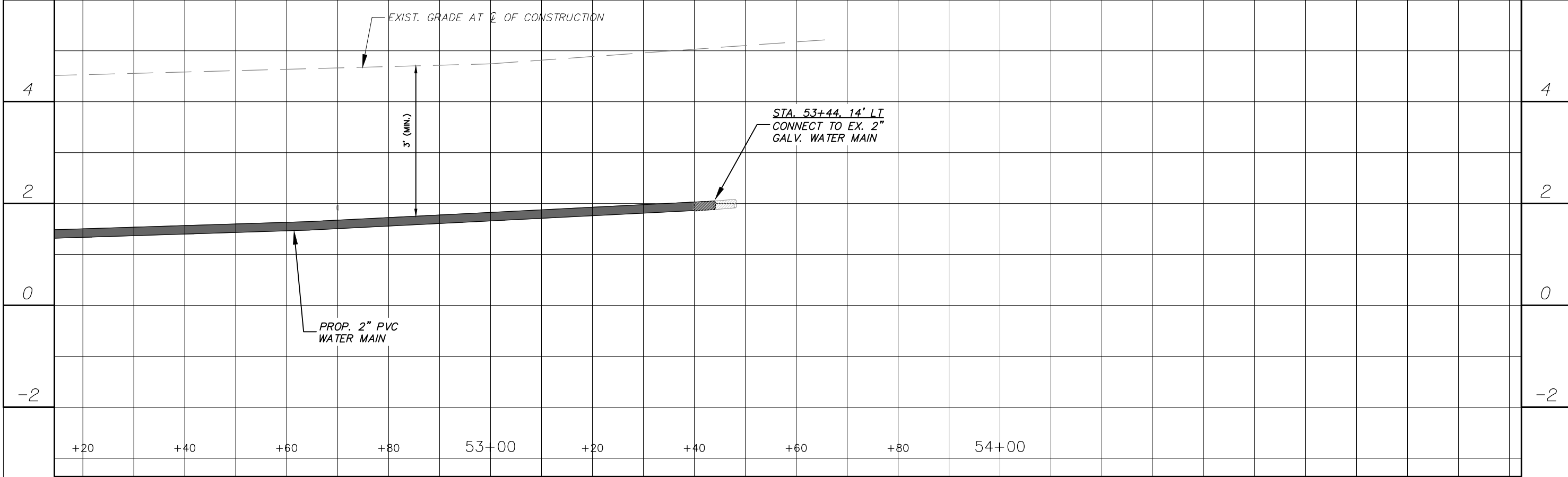


MATCH LINE - SEE WATER MAIN PLAN (5)

SPRING BOULEVARD



NOTE TO CONTRACTOR
 ALL UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY UNDERGROUND UTILITY LOCATIONS PRIOR TO CONSTRUCTION.



REVISIONS	BY	DATE	CHECKED	BY	DATE
	ECL	05/04/22			
	KDH	05/03/22			
	KDH	04/25/22			

CITY OF TARPON SPRINGS

WATER MAIN PLAN & PROFILE (6)

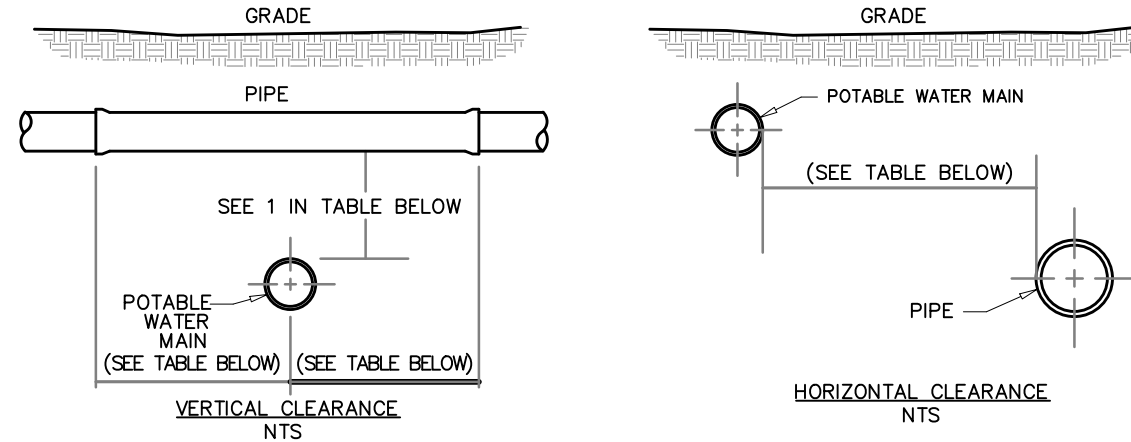
STROUD ENGINEERING CONSULTANTS, INC.
 10503 CYNDEE LANE
 ODESSA, FLORIDA 33556
 PHONE: (813) 760-1964
 CERTIFICATE OF AUTHORIZATION NO. 29607
 KURT D. HEATH, P.E. NO. 56181

DATE: 06/20/22
 SCALE: 1"=20' HORZ.
 1"=2' VERT.
 SHEET: 35 OF 36

WATER MAIN GENERAL NOTES

- ALL WATER AND SEWER IMPROVEMENTS SHALL BE PERFORMED PER THE CITY OF TARPON SPRINGS STANDARD DETAILS AND STANDARD SPECIFICATIONS, LATEST EDITIONS, PUBLISHED BY THE BUILDING DEVELOPMENT DEPARTMENT.
- EXCEPT WHERE THE PLANS AND SPECIFICATIONS PROVIDE THAT SUCH WORK SHALL BE PERFORMED UNDER THE CONTRACT FOR THIS PROJECT, ALL UTILITIES INTERFERING WITH CONSTRUCTION SHALL BE REMOVED, RELOCATED OR ADJUSTED BY THEIR RESPECTIVE OWNERS, AT THEIR EXPENSE. THE CONTRACTOR SHALL ARRANGE HIS SCHEDULE TO ALLOW UTILITY OWNERS TIME FOR THE NECESSARY RELOCATION AND ADJUSTMENT OF UTILITIES AND RELATED STRUCTURES. ALL CITY-OWNED UTILITIES IN CONFLICT WITH PROPOSED IMPROVEMENTS WILL BE REVIEWED WITH CONTRACTOR FOR POTENTIAL RELOCATION.
- LOCATIONS AND SIZE OF THE UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. HOWEVER, THERE IS NO GUARANTEE THAT ALL EXISTING UTILITIES HAVE BEEN FOUND OR SHOWN. THE CONTRACTOR IS FOREWARNED TO ASCERTAIN AND DETERMINE PRECISE LOCATIONS PRIOR TO EXCAVATION. NO CLAIM FOR EXTRA COST SHALL BE MADE AS A RESULT OF THE AFOREMENTIONED APPROXIMATIONS. THE CONTRACTOR SHALL LOCATE EXACTLY ALL UTILITIES THAT CROSS THE PROPOSED UTILITIES PRIOR TO CONSTRUCTION.
- SUPPORT ALL EXISTING DRAINAGE, UTILITIES, STRUCTURES, AND SURFACE FEATURES WHEN EXCAVATING AND INSTALLING PROPOSED PIPING. KEEP EXCAVATIONS DRY DURING DURING PIPING INSTALLATION, BACKFILL, AND COMPACTION ACTIVITIES. ALL COSTS ASSOCIATED WITH UTILITY SUPPORT, SHORING, SHEETING, TRENCH BOXES, AND DEWATERING SHALL BE INCIDENTAL TO UTILITY WORK ITEMS PERFORMED.
- THE CONTRACTOR SHALL CONTACT THE ENGINEER'S OFFICE IMMEDIATELY ON ANY CONFLICTS BETWEEN WHAT IS HEREIN AND ACTUAL CONDITIONS DISCOVERED DURING CONSTRUCTION OF ANY IMPROVEMENTS SHOWN ON THE DRAWINGS.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY. SPECIAL PRECAUTIONS MAY BE REQUIRED IN THE VICINITY OF POWER LINES AND OTHER UTILITIES.
- ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS, PERMIT REQUIREMENTS, AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK. THIS WORK SHALL INCLUDE HYDROSTATIC TESTING AND BACTERIOLOGICAL SAMPLING OF ALL NEW WATER MAIN PIPING.
- CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UTILITY CONNECTION POINTS PRIOR TO CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES FOUND.
- THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED, INCLUDING ASPHALT PAVEMENT CUTTING.
- THE CONTRACTOR SHALL COORDINATE WITH THE POWER COMPANY TO PROVIDE SUPPORT FOR UTILITY POLES WHERE CONSTRUCTION MAY CAUSE THE POLE TO LOSE ITS SELF-SUPPORTING ABILITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS & SEQUENCES TO ACCOMPLISH THE PROPOSED WORK.
- ALL WATER MAIN PIPING 4" DIAMETER AND ABOVE SHALL BE PVC (AWWA C-900, DR 18) IN ACCORDANCE WITH THE PROJECT AND CITY SPECIFICATIONS. ALL WATER MAIN PIPING SMALLER THAN 4" DIAMETER SHALL BE PVC (SCH 40, SOLVENT WELD) OR POLYETHYLENE (AWWA C-901, SDR 9). A LOCATING TAPE SHALL BE INSTALLED ABOVE ALL PVC MAINS IN ACCORDANCE WITH THE PROJECT AND CITY SPECIFICATIONS.
- CONTRACTOR SHALL PROVIDE FILL MATERIAL, AS NECESSARY, OVER CONSTRUCTED WATER MAIN TO PROVIDE REQUIRED COVER. IN AREAS WHERE PIPE LINE MAY BE INSTALLED BEFORE NEW GRADE IS COMPLETED, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO COVER AND PROTECT THE PIPING. IN ADDITION, CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE CONSTRUCTED FACILITIES DUE TO THEIR OPERATIONS.
- ALL ROCKS OR STONES LARGER THAN 6" IN DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATERIAL. BACKFILL MATERIAL PLACED WITHIN 12" OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES LARGER THAN 2" IN DIAMETER.
- RIMS OF ALL EXISTING VALVES, MANHOLES, ETC., DESIGNATED TO REMAIN SHALL BE ADJUSTED TO FINISH GRADE.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING AND CONNECTING WATER SERVICE CONNECTIONS TO INDIVIDUAL HOME OWNERS, BUSINESSES, ETC. CONTRACTOR SHALL LOCATE THESE SERVICES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN SERVICE TO THE BUSINESSES, RESIDENCES, ETC. AT ALL TIMES. THE CONTRACTOR SHALL PERFORM OPERATIONS NECESSARY FOR CONNECTING TO THE EXISTING SYSTEM AT TIMES OF MINIMUM FLOW RATE OR DURING NON-BUSINESS TIMES INCLUDING PERFORMING CONNECTIONS AT NIGHT. SAID OPERATIONS SHALL BE ACCOMPLISHED EXPEDITIOUSLY IN ORDER TO MINIMIZE SERVICE DISRUPTION. ALL SCHEDULES SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER WITH TECHNICAL ASSISTANCE FROM THE CITY. A PLAN FOR CONNECTION SHALL BE SUBMITTED TO THE ENGINEER A MINIMUM OF 3 WORKING DAYS PRIOR TO CONNECTION, WITH NOTICE ALSO PROVIDED TO THE CITY AT LEAST 48 HOURS PRIOR TO ANY SERVICE DISRUPTION. PIPING SHALL NOT BE ALLOWED TO BE SCHEDULED FOR CONNECTION OR BE PLACED INTO SERVICE UNTIL ALL TESTING IS COMPLETED, ALL AS-BUILT DOCUMENTATION IS PROVIDED, AND CLEARANCES HAVE BEEN OBTAINED FROM THE APPLICABLE PERMITTING AGENCIES.
- IN ORDER TO MAKE CONNECTIONS TO EXISTING WATER MAINS, THE CONTRACTOR SHALL PROVIDE TEMPORARY BY-PASS PIPING IN ORDER TO AVOID INTERRUPTIONS OF FLOW. THIS CAN BE ACCOMPLISHED WITH LINE STOPS AND BY-PASS PIPE.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLETE RESTORATION OF ALL IMPACTED AREAS UPON COMPLETION OF CONSTRUCTION, WITH AREAS TO BE RESTORED TO MATCH OR EXCEED CONDITIONS THAT EXISTED PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE AS-BUILT SURVEYING OF THE CONSTRUCTED UTILITY COMPONENTS, WITH POINTS COLLECTED AT ALL BENDS, FITTINGS, VALVES, ETC., AND AT EVERY 100' OF THE PIPING ALONG STRAIGHT SECTIONS. THE AS-BUILT SURVEY DATA SHALL BE PROVIDED IN AUTOCAD FORMAT (VERSION 2018 OR EARLIER) WITH DATA SUBMITTED ON STATE PLANE COORDINATE SYSTEM AT THE SAME ELEVATION DATUM AS USED ON THE ROADWAY PLANS.

WATER MAIN CLEARANCES DETAIL



PIPE	HORIZONTAL SEPARATION	CROSSING (1)	JOINT SPACING @ CROSSINGS
VACUUM-TYPE SANITARY SEWER, STORM SEWER, STORMWATER FORCE MAIN, RECLAIMED WATER (2)	3 FT. MINIMUM	12 INCHES IS THE MINIMUM, EXCEPT FOR STORM SEWER, THEN 6" IS THE MINIMUM AND 12" IS PREFERRED	(FULL JOINT CENTERED, ALTERNATE 3 FT. MINIMUM FOR ALL JOINTS)
GRAVITY OR PRESSURE SANITARY SEWER, SANITARY SEWER FORCE MAIN, RECLAIMED WATER (4)	10 FT. PREFERRED 6 FT. MINIMUM (3)	12 INCHES IS THE MINIMUM, EXCEPT FOR GRAVITY SEWER, THEN 6" IS THE MINIMUM AND 12" IS PREFERRED	(FULL JOINT CENTERED, ALTERNATE 3 FT. MINIMUM FOR ALL JOINTS)
ON-SITE SEWAGE TREATMENT & DISPOSAL SYSTEM	10 FT. MINIMUM		

NOTES: (IN ACCORDANCE WITH F.A.C RULE 62-555.314)

- POTABLE WATER MAIN SHOULD CROSS ABOVE OTHER PIPE. WHEN POTABLE WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 12 INCHES.
- RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
- 3 FT. FOR GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF GRAVITY SANITARY SEWER.
- RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

UTILITY LEGEND

----- OHU ----- OHU -----	OVERHEAD ELECTRIC
G - - - - - G - - - - -	EXISTING GAS LINE
BT - - - - - BT	EXISTING BURIED TELEPHONE LINE
D - - - - -	EXISTING STORM DRAINAGE
BFO - - - - -	EXISTING FIBER OPTIC CABLE
■ E - - - - - ■	EXISTING UNDERGROUND ELECTRIC
- - - W - - - W - - - W - - - W - - - W - - - W - - -	EXISTING POTABLE WATER
- - - NPW - - - - -	EXISTING NON-POTABLE/RECLAIMED WATER
- - - S - - - S - - - S - - - S - - - S - - - S - - -	EXISTING SEWER/FORCE MAIN
·XXXXXXXXXXXXXXXXXXXXX·	EXISTING PIPING TO BE REMOVED
⊗	EXISTING VALVE
— W — W — W —	PROPOSED POTABLE WATER MAIN
— RW — RW —	PROPOSED RECLAIMED WATER MAIN
— S — S — S —	PROPOSED SANITARY SEWER
— FM — FM —	PROPOSED FORCE MAIN PIPING
⊗	PROPOSED AIR RELEASE VALVE ASSEMBLY
⊗	PROPOSED GATE VALVE
⊗	PROPOSED BACTERIOLOGICAL SAMPLING POINT
⊗	PROPOSED BLOWOFF ASSEMBLY
⊗	PROPOSED FIRE HYDRANT

REVISIONS	BY	DATE	CHECKED	ECL	DATE
	DESIGNED	KDH	04/25/22		
	DRAWN	KDH	05/03/22		

CITY OF TARPON SPRINGS

WATER MAIN DETAILS
& UTILITY LEGEND

STROUD ENGINEERING CONSULTANTS, INC.
10503 CYNDEE LANE
ODESSA, FLORIDA 33556
PHONE: (813) 760-1964
CERTIFICATE OF AUTHORIZATION NO. 29607

DATE: 05/04/22

SCALE: N/A

SHEET: 36 OF 36

KURT D. HEATH, P.E. NO. 56181