

August 22, 2024

PROJECT NAME: CONVENIENCE STORE @ US HWY 441 & SE 147TH PL

PROJECT NUMBER: 2023060042

APPLICATION: MAJOR SITE PLAN #30312

1 DEPARTMENT: ENRAA - ACQ AGENT ENG ROW

REVIEW ITEM: Major Site Plan

STATUS OF REVIEW: INFO

REMARKS: Verified with Sunbiz. 3.20.24 HR

IF APPLICABLE:

Sec. 2.18.1.I - Show connections to other phases.

Sec.2.19.2.H – Legal Documents

Legal documents such as Declaration of Covenants and Restrictions, By-Laws, Articles of Incorporation, ordinances, resolutions, etc.

Sec. 6.3.1.B.1 – Required Right of Way Dedication (select as appropriate)

For Public Streets. "[All streets and rights-of-way shown on this plat or name specifically if less than all] are hereby dedicated for the use and benefit of the public."

Sec. 6.3.1.B.2 – Required Right of Way Dedication

For Non-Public Streets. "[All streets and rights-of-way shown on this plat or name specifically if less than all] are hereby dedicated privately to the [entity name]. All public authorities and their personnel providing services to the subdivision are granted an easement for access. The Board of County Commissioners of Marion County, Florida, shall have no responsibility, duty, or liability whatsoever regarding such streets. Marion County is granted an easement for emergency maintenance in the event of a local, state, or federal state of emergency wherein the declaration includes this subdivision or an emergency wherein the health, safety, or welfare of the public is deemed to be at risk."

Sec. 6.3.1.D.3 - Cross Access Easements

For Cross Access Easements. "All parallel access easements shown on this plat are hereby dedicated for the use and benefit of the public, and maintenance of said easements is the responsibility of [entity name]."

Sec. 6.3.1.C.1 - Utility Easements (select as appropriate)

"[All utility easements shown or noted or name specifically if less than all] are dedicated [private or to the public] for the construction, installation, maintenance, and operation of utilities by any utility provider."

Sec. 6.3.1.C.2 – Utility Easements

"[All utility tracts or identify each tract as appropriate] as shown are dedicated [private or to the public] for the construction and maintenance of such facilities."

Sec.6.3.1.D(c)(1)(2)(3) - Stormwater easements and facilities, select as appropriate:

1. "[All stormwater and drainage easements as shown or noted or name specifically if less than all] are dedicated [private or to the public] for the construction and maintenance of such facilities."

2. "[All stormwater management tracts or identify each tract as appropriate] as shown are dedicated [private or to the public] for the construction and maintenance of such facilities."

3. When any stormwater easement and/or management tract is not dedicated to the public or Marion County directly, the following statement shall be added to the dedication language: "Marion County is granted the right to perform emergency maintenance on the [stormwater easement and/or management tract, complete accordingly] in the event of a local, state, or federal state of emergency wherein the declaration includes this subdivision or an emergency wherein the health, safety, or welfare of the public is deemed to be at risk."

Sec.6.3.1.D(f) –

If a Conservation Easement is required the following shall be provided: "A conservation easement [as shown or on tract and identify the tract, complete accordingly] is dedicated to [the Board of County Commissioners of Marion County, Florida or entity name, if not Marion County] for the purpose of preservation of [listed species, habitat, Karst feature and/or native vegetation, complete accordingly]."

- 2 DEPARTMENT: ZONE - ZONING DEPARTMENT  
REVIEW ITEM: 2.12.27 - Show location of outside storage areas  
STATUS OF REVIEW: INFO  
REMARKS: will there be any outside storage?
- 3 DEPARTMENT: ZONE - ZONING DEPARTMENT  
REVIEW ITEM: 4.4.4 -Sign (provisions for advertising signage), if it is a multi occupancy complex like shopping centers they must submit a master sign plan.  
STATUS OF REVIEW: INFO  
REMARKS: will there be any signs?
- 4 DEPARTMENT: ENGIN - DEVELOPMENT REVIEW  
REVIEW ITEM: Additional Development Review Comments  
STATUS OF REVIEW: INFO  
REMARKS: After approval, plans will be electronically stamped by the County. The applicant will receive an email indicating that approved plans are available for download and are located in the ePlans project Approved folder. For Development Review submittals, with the exception of Final Plats and Minor Site Plans, applicants are required to print, obtain required signatures, and sign and seal two 24"x 36" sets of the electronically stamped approved plan and deliver them to the Office of County Engineer, Development Review Section, located at 412 SE 25th Avenue Ocala, FL 34471. Upon receipt, a development order will be issued. Until such time as that development order is issued, the project does not have final approval and construction, if applicable, shall not commence. For plans requiring As-Builts, As-Builts and associated documentation shall be submitted on paper in accordance with current county requirements.
- 5 DEPARTMENT: ENGIN - DEVELOPMENT REVIEW  
REVIEW ITEM: 2.12.4.K - List of approved waivers, their conditions, and the date of approval  
STATUS OF REVIEW: INFO  
REMARKS: 7/24/23 - add waivers if requested in the future
- 6 DEPARTMENT: ENGTRF - TRAFFIC REVIEW  
REVIEW ITEM: 6.11.9.A - Traffic signals  
STATUS OF REVIEW: INFO  
REMARKS: CONDITIONAL APPROVAL - Subject to permitting and installing the required signal modifications at the intersection of US 441 and SE 147th Place.
- 7 DEPARTMENT: ENGDRN - STORMWATER REVIEW  
REVIEW ITEM: Copy of District Permit (County Interest)  
STATUS OF REVIEW: INFO  
REMARKS: Please provide a copy of the District permit prior to construction.
- 8 DEPARTMENT: ENGDRN - STORMWATER REVIEW  
REVIEW ITEM: 6.13.10.B - Copy of NPDES Permit or NOI  
STATUS OF REVIEW: INFO  
REMARKS: Please provide a copy of the NPDES permit or NOI prior to construction.
- 9 DEPARTMENT: LSCAPE - LANDSCAPE DESIGN AND IRRIGATION  
REVIEW ITEM: 6.8.11 - Landscape installation  
STATUS OF REVIEW: INFO  
REMARKS: installation shall mean survival in perpetuity

- 10 DEPARTMENT: LSCAPE - LANDSCAPE DESIGN AND IRRIGATION  
REVIEW ITEM: 6.8.10 - General planting requirements (specifications)  
STATUS OF REVIEW: INFO  
REMARKS: All plant material to be Florida #1
- 11 DEPARTMENT: LSCAPE - LANDSCAPE DESIGN AND IRRIGATION  
REVIEW ITEM: 6.8.7 - Parking areas and vehicular use areas  
STATUS OF REVIEW: INFO  
REMARKS: Consider sight triangles within parking area, Magnolias may obscure
- 12 DEPARTMENT: LSCAPE - LANDSCAPE DESIGN AND IRRIGATION  
REVIEW ITEM: 6.8.6 - Buffers  
STATUS OF REVIEW: INFO  
REMARKS: Buffers in previously approved AR# 25853 shall be installed with this AR#30312 project, if not currently in place.
- 13 DEPARTMENT: DOH - ENVIRONMENTAL HEALTH  
REVIEW ITEM: Additional Health comments  
STATUS OF REVIEW: INFO  
REMARKS: N/A
- 14 DEPARTMENT: ENGTRF - TRAFFIC REVIEW  
REVIEW ITEM: 6.12.11 - Turn lanes  
STATUS OF REVIEW: NO  
REMARKS: 8/9/24 - Order of plan approval waiver is pending DRC review.  
7/1/24 - Turn lanes are required to be constructed via a separate offsite improvement plan that must be approved concurrently with the site plan. A waiver from the Development Review Committee is required to incorporate the turn lane into the site plan.  
9/11/23 - The need for turn lane modifications will be determined by the traffic study. Any turn lane improvements on Sunset Harbor Road are required to be submitted separately as an offsite improvement plan. The offsite improvement plan is required to be approved concurrently with the site plan.  
6/19/23 - The need for turn lane modifications will be determined by the traffic study.



**Marion County  
Board of County Commissioners**

**AR #30312**

Office of the County Engineer

412 SE 25th Ave.  
Ocala, FL 34471  
Phone: 352-671-8686  
Fax: 352-671-8687

**DEVELOPMENT REVIEW COMMITTEE WAIVER REQUEST FORM**

Date: 8/21/24 Parcel Number(s): 4593-006-001 Permit Number: #2023060042

**A. PROJECT INFORMATION:** Fill in below as applicable:

Project Name: CONVENIENCE STORE @ US HWY 441 & SE 147TH PL Commercial  Residential   
Subdivision Name (if applicable): N/A  
Unit \_\_\_\_\_ Block \_\_\_\_\_ Lot \_\_\_\_\_ Tract \_\_\_\_\_

**B. PROPERTY OWNER'S AUTHORIZATION:** The property owner's signature authorizes the applicant to act on the owner's behalf for this waiver request. The signature may be obtained by email, fax, scan, a letter from the property owner, or original signature below.

Name (print): Eric Schoessler  
Signature: [Handwritten Signature]  
Mailing Address: 4201 W Cypress St City: Tampa  
State: FL Zip Code: 33607 Phone # 813-854-2211  
Email address: eric@amprop.com

**C. APPLICANT INFORMATION:** The applicant will be the point of contact during this waiver process and will receive all correspondence.

Firm Name (if applicable): Native Engineering PLLC Contact Name: Josh Bradley, P.E.  
Mailing Address: PO Box 2995 City: Land O Lakes  
State: FL Zip Code: 34639 Phone # 813-957-3862  
Email address: josh@nativefla.com

**D. WAIVER INFORMATION:**

Section & Title of Code (be specific): 2.1.3 - Order of Plan Approval  
Reason/Justification for Request (be specific): Per the recently approved traffic study a 290' westbound right turn lane & a 100' eastbound left turn lane extension are required at the existing entrance to the site on 147th Pl. We will be submitting a separate off-site improvement application for this review; however, we request that the site plan be approved w/ a condition that states final inspection not be completed prior to the off-site improvement plan approval.

**DEVELOPMENT REVIEW USE:**

Received By: Email 8/21/24 Date Processed: 8/22/24 CF Project # 2023060042 AR # 30312

ZONING USE: Parcel of record: Yes  No  Eligible to apply for Family Division: Yes  No   
Zoned: \_\_\_\_\_ ESOZ: \_\_\_\_\_ P.O.M. \_\_\_\_\_ Land Use: \_\_\_\_\_ Plat Vacation Required: Yes  No   
Date Reviewed: \_\_\_\_\_ Verified by (print & initial): \_\_\_\_\_

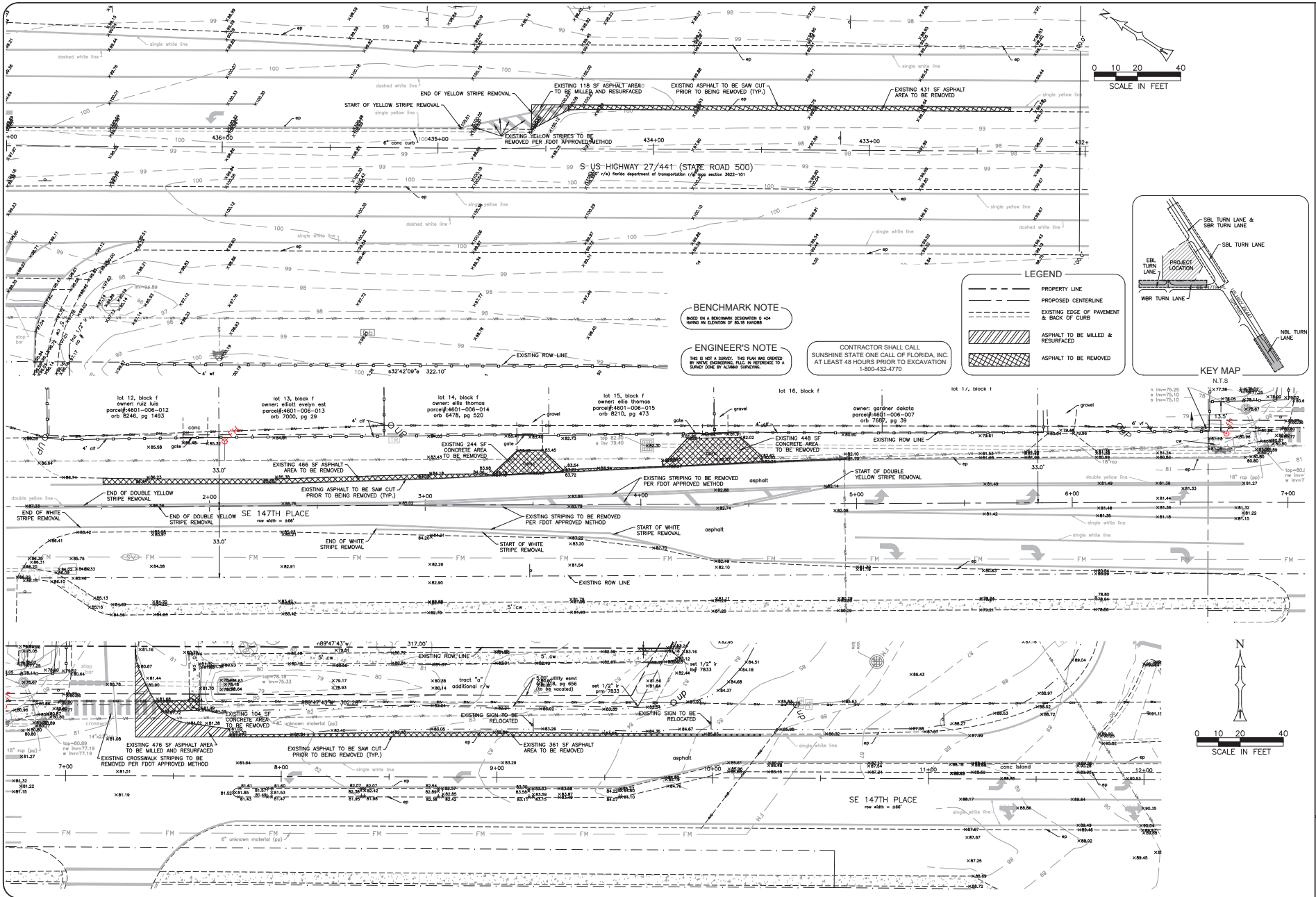
CLEAR FORM







UNSHARED DRIVEWAY/AMPROJ PROJECTS/1.21.01.00 - 441 & 147th CONVENIENCE STORE/DRAINAGE/CL1-CL2 OFF-SITE DEMOLITION PLAN/SDWG - 6/14/2024 1:38 AM



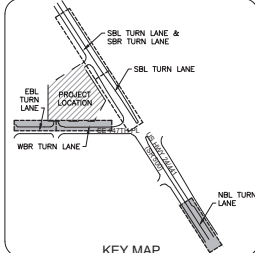
**BENCHMARK NOTE**  
THIS IS NOT A SURVEY. THIS PLAN WAS CREATED BY AERIAL PHOTOGRAPHY. THIS IS REFERENCE TO A SURVEY POINT BY AERIAL SURVEYING.

**ENGINEER'S NOTE**  
THIS IS NOT A SURVEY. THIS PLAN WAS CREATED BY AERIAL PHOTOGRAPHY. THIS IS REFERENCE TO A SURVEY POINT BY AERIAL SURVEYING.

CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL OF FLORIDA, INC. AT LEAST 48 HOURS PRIOR TO EXCAVATION 1-800-432-4770

**LEGEND**

- PROPERTY LINE
- PROPOSED CENTERLINE
- EXISTING EDGE OF PAVEMENT & BACK OF CURB
- ASPHALT TO BE MILLED & RESURFACED
- ASPHALT TO BE REMOVED



**REVISIONS**

NO.	DATE	DESCRIPTION
1	02/27/24	ISSUED FOR CONSTRUCTION
2	03/07/24	ISSUED FOR CONSTRUCTION
3	03/27/24	ISSUED FOR CONSTRUCTION
4	04/11/24	ISSUED FOR CONSTRUCTION
5	04/11/24	ISSUED FOR CONSTRUCTION
6	04/11/24	ISSUED FOR CONSTRUCTION
7	04/11/24	ISSUED FOR CONSTRUCTION
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99	04/11/24	ISSUED FOR CONSTRUCTION
100	04/11/24	ISSUED FOR CONSTRUCTION

**MAJOR SITE PLAN FOR CONVENIENCE STORE @ US HWY 441 & SE 147TH PLACE**

FOR

**AMPRO ENTERPRISES SUMMERFIELD LLC**

4201 W. CYPRESS STREET, TAMPA, FL 33607

**OFF-SITE DEMOLITION PLAN**

**SHEET NUMBER C3.1**

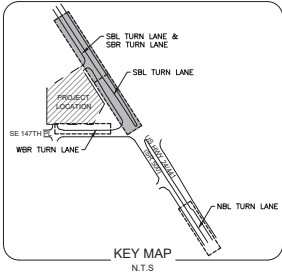
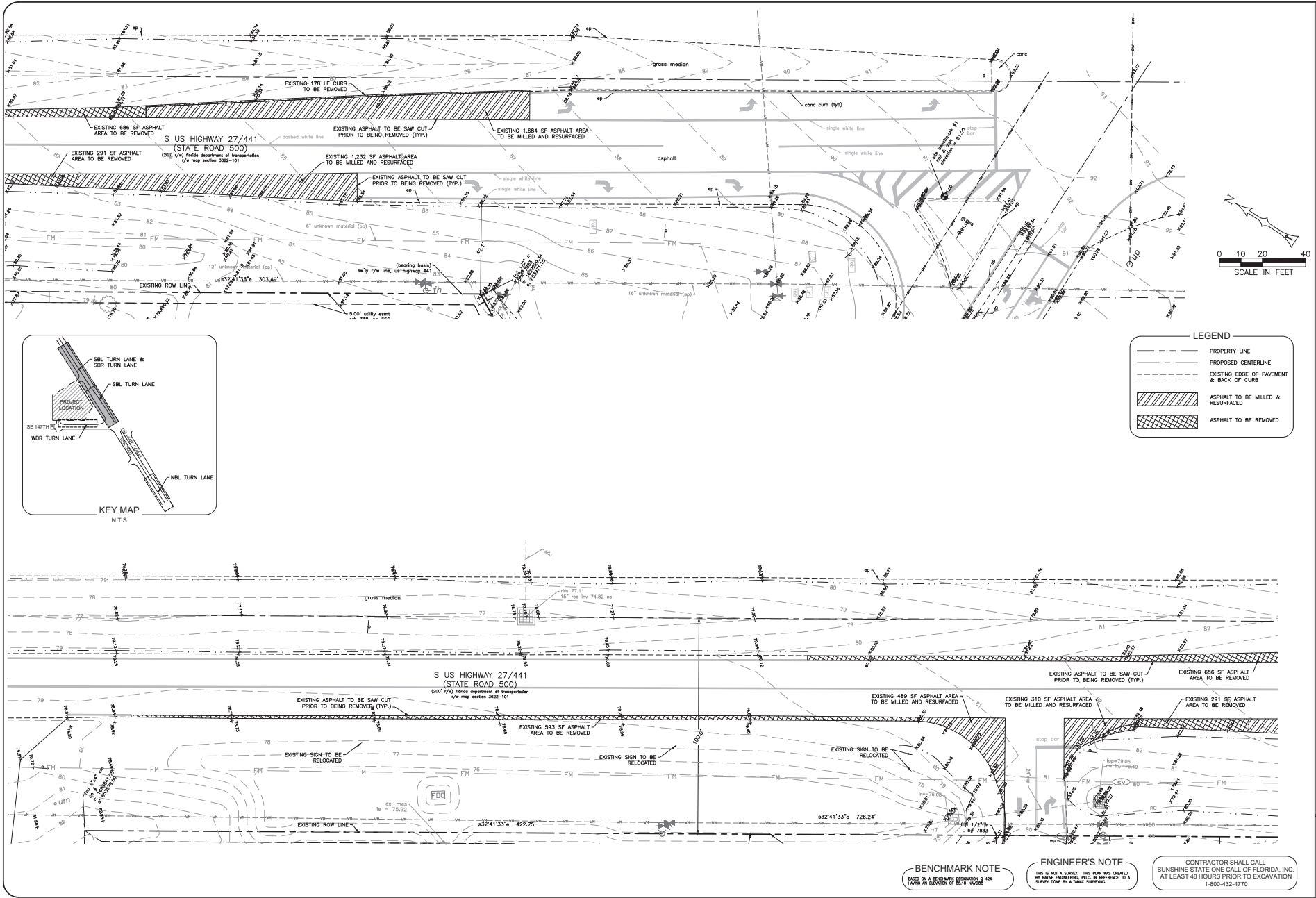
S.I.R. 16-17-23

JOSHUA S. BRADLEY  
State of Florida  
Professional Engineer  
License No. 60029

THIS SET OF BLUE PRINTS HAS BEEN PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA. I AM NOT PROVIDING CONTRACT ADMINISTRATION SERVICES.

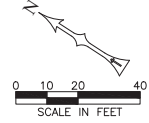


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**LEGEND**

- PROPERTY LINE
- PROPOSED CENTERLINE
- EXISTING EDGE OF PAVEMENT & BACK OF CURB
- ASPHALT TO BE MILLED & RESURFACED
- ASPHALT TO BE REMOVED



**BENCHMARK NOTE**  
 BASED ON A BENCHMARK DESIGNATOR C 404  
 HAVING AN ELEVATION OF 85.18 HIGHER

**ENGINEER'S NOTE**  
 THIS IS NOT A SURVEY. THIS PLAN WAS OBTAINED BY NATIVE ENGINEERING, PLLC. IN REFERENCE TO A SURVEY DONE BY NATIVE ENGINEERING, PLLC.

CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL OF FLORIDA, INC. AT LEAST 48 HOURS PRIOR TO EXCAVATION  
 1-800-432-4770

**MAJOR SITE PLAN FOR CONVENIENCE STORE @ US HWY 441 & SE 147TH PLACE**  
 FOR  
**AMPRO ENTERPRISES SUMMERFIELD LLC**  
 4201 W. CYPRESS STREET, TAMPA, FL 33607

**OFF-SITE DEMOLITION PLAN**

REVISIONS	
NO.	DATE
1	12/22/23
2	12/22/23
3	12/22/23
4	12/22/23

**NATIVE ENGINEERING, PLLC**  
 1415 15th Ave SW, Tallahassee, FL 32310  
 LAND OFFICES: 344-939  
 (813) 536-2539  
 DESCRIPTION:

SHEET NUMBER  
**C3.2**  
 S:1-R  
 16-17-23

STORM WATER POLLUTION PREVENTION PLAN

CONTAINED ON THESE PLANS AND WITHIN THE FOLLOWING NOTES IS A STORM WATER POLLUTION PREVENTION PLAN (THE PLAN) WHICH HAS BEEN DEVELOPED BY NATIVE ENGINEERING, INC. IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION) (FDEP) GENERAL PERMIT...

NATIVE ENGINEERING, INC.

- 1. DEVELOP STORM WATER POLLUTION PREVENTION PLAN (SWPPP) INCLUDING, BUT NOT LIMITED TO, PREVENTION/DEFLECTION/FENCE CONTROL, STRUCTURES, EROSION CONTROL METHODS AND LOCATIONS AND STABILIZATION OUTLINE. THIS DESIGN IS INCLUDED WITHIN THESE CONSTRUCTION PLANS AND THE FOLLOWING NOTES AND INSTRUCTIONS.
2. SUBMIT AND OBTAIN THE NECESSARY COORDINATION RELATED STORM WATER PERMITS FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT (SRWMD) AND OTHER APPLICABLE GOVERNMENTAL BODIES.
3. UPON NOTIFICATION BY THE DEVELOPER OF HIS INTENT TO COMMENCE CONSTRUCTION, SUBMIT A NOTICE OF INTENT TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION ON BEHALF OF THE DEVELOPER AND THE CONTRACTOR. ALSO, SUBMIT A COPY OF THE SWPPP FROM THE CONTRACTOR'S LETTER IF THE PERMIT IS NOT AVAILABLE. THIS SUBMITTAL WILL BE MADE NO LATER THAN 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION.
4. SUBMIT TO SRWMD AND THE OPERATOR OF THE MUNICIPAL SEWAGE TREATMENT WATER SYSTEM, IF APPLICABLE, A LETTER OF CONSTRUCTION COMMENCEMENT...

CONTRACTORS

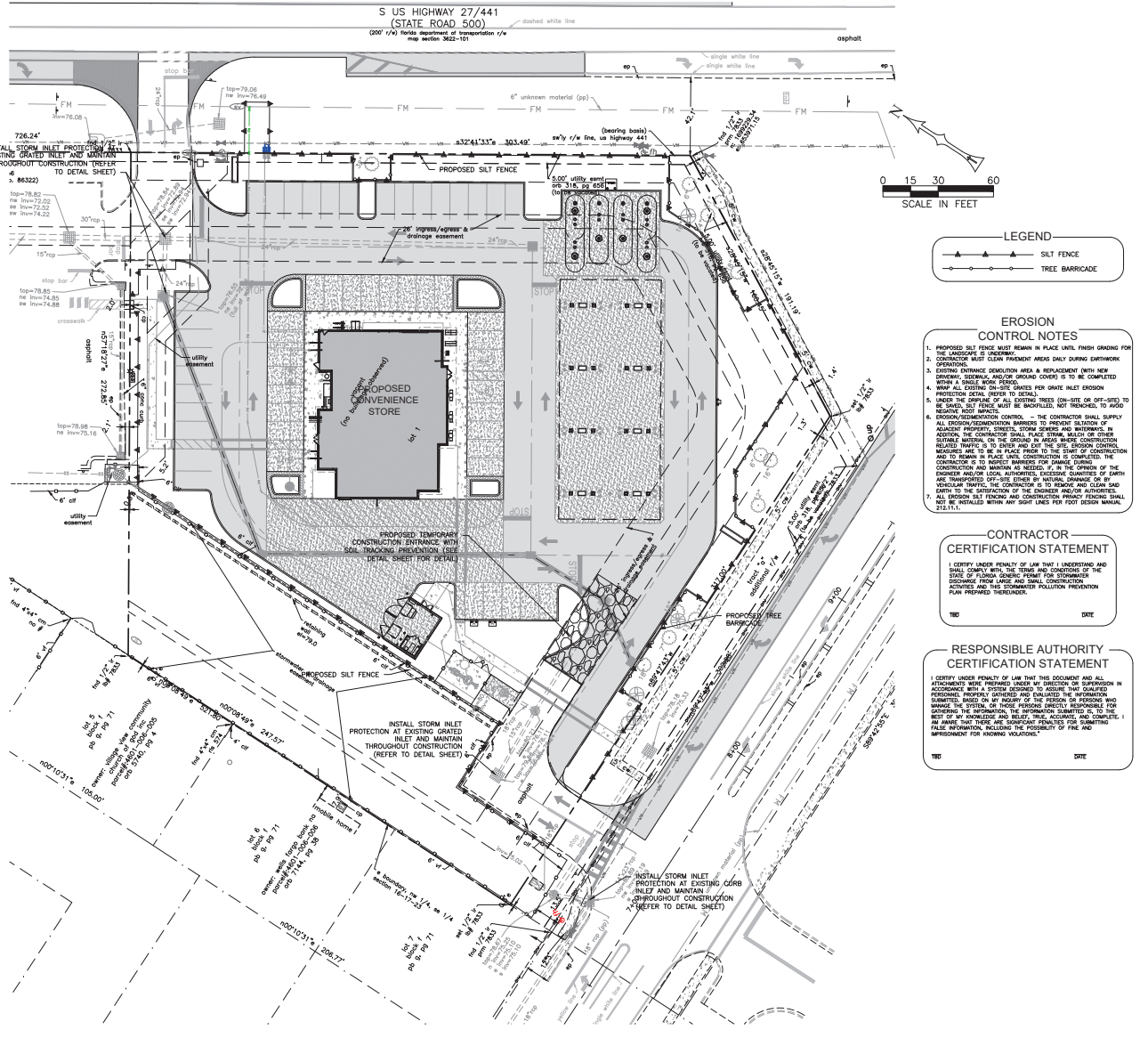
- 1. SOON AND RETURN TO NATIVE ENGINEERING A NOTICE OF INTENT AND CERTIFICATION OF STORM WATER POLLUTION PREVENTION PLAN NO LATER THAN 48 HOURS PRIOR TO COMMENCING CONSTRUCTION. COPY NATIVE ENGINEERING AND THE DEVELOPER OF THE SWPPP PERMIT APPROVED. ALSO, EACH SUBCONTRACTOR AFFECTED BY THE SWPPP MUST CERTIFY TO THE CONTRACTOR THAT THEY UNDERSTAND AND SHALL COMPLY WITH THE SWPPP PERMIT AND SWPPP. A RECORD OF THESE CERTIFICATIONS SHALL BE MAINTAINED BY THE CONTRACTOR ON SITE.
2. DURING CONSTRUCTION, ASSURE COMPLIANCE WITH THE DESIGNED STORM WATER POLLUTION PREVENTION PLANS PREPARED BY NATIVE ENGINEERING AND THE SWPPP GENERAL FORM FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES.
3. MAINTAIN A COPY OF THE CONSTRUCTION PLANS, WHICH INCLUDE THE STORM WATER POLLUTION PREVENTION PLANS BOTH NOTED AND ALL INFERRED REPORTS AND CERTIFICATIONS ON SITE.
4. UNDERTAKE ALL REASONABLE BEST MANAGEMENT PRACTICES (BMPs) TO ASSURE THAT SLETTED OR OTHERWISE POLLUTED STORM WATER IS NOT ALLOWED TO DISCHARGE FROM THE SITE DURING ALL PHASES OF CONSTRUCTION. BMP THAT SHALL BE USED FOR STABILIZATION IS SOILING, STRUCTURAL DESIGN AND SEEDMENT CONTROL BMPs THAT SHALL BE USED FOR EROSION CONTROL AND SLOPE PROTECTION. REFER TO DETAIL SHEETS ADDITIONAL BMPs THAT MAY BE NECESSARY TO INCLUDE PROTECTIVE WALLS, PROTECTIVE FENCING AND OTHER VARIATIONS TO THE SWPPP. PROVIDING WATER RESISTANT AT CONVEYOR LOCATIONS AND PROVIDING REGULAR COLLECTION OF WASTES, INCLUDING BUILDING MATERIAL WASTES, (3) MINIMIZING OFF-SITE TRAFFIC, (4) MINIMIZING OFF-SITE TRAFFIC, (5) MINIMIZING OFF-SITE TRAFFIC, (6) MINIMIZING OFF-SITE TRAFFIC, (7) MINIMIZING OFF-SITE TRAFFIC, (8) MINIMIZING OFF-SITE TRAFFIC, (9) MINIMIZING OFF-SITE TRAFFIC, (10) MINIMIZING OFF-SITE TRAFFIC...

- 5. NOTIFY NATIVE ENGINEERING AND THE DEVELOPER IN WRITING OF ANY NON-STORM WATER POLLUTION SOURCES WHICH ARE BEING STORED, OR OTHERWISE USED DURING THE CONSTRUCTION OF THE PROJECT I.E., FERTILIZERS, FUELS, ADHESIVES, OTHER CHEMICALS, ETC.). THIS NOTIFICATION SHOULD BE ACCOMPANIED WITH THE CONTRACTOR'S DESIGN AND DEVELOP A MAINTENANCE AND INSPECTION PLAN WHICH INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:
5.1. THE DESIGN AREAS TO BE NOTIFIED AND MAINTAINED THAT INCLUDES ALL THE DESIGN AREAS AND MATERIAL STORAGE AREAS OF THE SITE.
5.2. THE DESIGN AREAS TO BE NOTIFIED AND MAINTAINED THAT INCLUDES ALL THE DESIGN AREAS AND MATERIAL STORAGE AREAS OF THE SITE.
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5.10. THE DESIGN AREAS TO BE NOTIFIED AND MAINTAINED THAT INCLUDES ALL THE DESIGN AREAS AND MATERIAL STORAGE AREAS OF THE SITE.

- 6. DEVELOP A MAINTENANCE AND INSPECTION PLAN WHICH INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:
6.1. THE DESIGN AREAS TO BE NOTIFIED AND MAINTAINED THAT INCLUDES ALL THE DESIGN AREAS AND MATERIAL STORAGE AREAS OF THE SITE.
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6.9. THE DESIGN AREAS TO BE NOTIFIED AND MAINTAINED THAT INCLUDES ALL THE DESIGN AREAS AND MATERIAL STORAGE AREAS OF THE SITE.
6.10. THE DESIGN AREAS TO BE NOTIFIED AND MAINTAINED THAT INCLUDES ALL THE DESIGN AREAS AND MATERIAL STORAGE AREAS OF THE SITE.

PROJECT INFORMATION

- 1. PROJECT TITLE: CONVENIENCE STORE
2. ANTICIPATED CONSTRUCTION BEGINNING DATE: AS FOLLOWS:
2.1. COMPLETE EROSION CONTROL NOTIFICATION:
2.2. CLEARING AND GRUBBING:
2.3. EXCAVATION ACTIVITIES:
2.4. STORM WATER POLLUTION PREVENTION CONSTRUCTION:
2.5. UTILITY CONSTRUCTION:
2.6. BASE AND FINISH CONSTRUCTION:
2.7. FINAL STABILIZATION:
3. ANTICIPATED START DATE: 08/2023
4. ANTICIPATED COMPLETION DATE: 09/2024
5. TOTAL ACRES: 0.0000 (3.00 AC)
6. PRE-DEVELOPED IMPROVEMENT AREA: 0.00 AC (0)
7. POST-DEVELOPED IMPROVEMENT AREA: 0.00 AC (0)
8. THE STORM WATER MANAGEMENT SYSTEM, UPON COMPLETION OF CONSTRUCTION AND APPROPRIATE CERTIFICATION AND AS-BUILT SUBMITTALS WILL BE OPERATED AND MAINTAINED BY THE PROPERTY OWNER.
9. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR THE DEVELOPMENT AND CONSTRUCTION ACTIVITIES.
10. DOES THE PROJECT DISCHARGE INTO A WATER BODY LISTED ON THE 1986 EPA APPROVED 303 (G) LIST FOR WATER SEGMENTS WHICH ARE IMPAIRED DUE TO TOTAL SUSPENDED SOLIDS? NO - IF SOLIDUS IS REQUIRED AS OUTLINED IN SECTION F.



EROSION CONTROL NOTES
1. PROPOSED SILT FENCE MUST BE BUILT IN PLACE UNTIL FINISH GRADING FOR THE LANDSCAPE IS COMPLETE.
2. CONSTRUCT MOST CLEAN PREVENTION AREAS FIRST DURING EXTERIOR OPERATIONS.
3. CONSTRUCT INTERIOR PREVENTION AREAS LAST DURING EXTERIOR OPERATIONS.
4. CONSTRUCT INTERIOR PREVENTION AREAS LAST DURING EXTERIOR OPERATIONS.
5. CONSTRUCT INTERIOR PREVENTION AREAS LAST DURING EXTERIOR OPERATIONS.
6. CONSTRUCT INTERIOR PREVENTION AREAS LAST DURING EXTERIOR OPERATIONS.
7. CONSTRUCT INTERIOR PREVENTION AREAS LAST DURING EXTERIOR OPERATIONS.

CONTRACTOR CERTIFICATION STATEMENT
I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND AND SHALL COMPLY WITH THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERAL PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THE STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER.

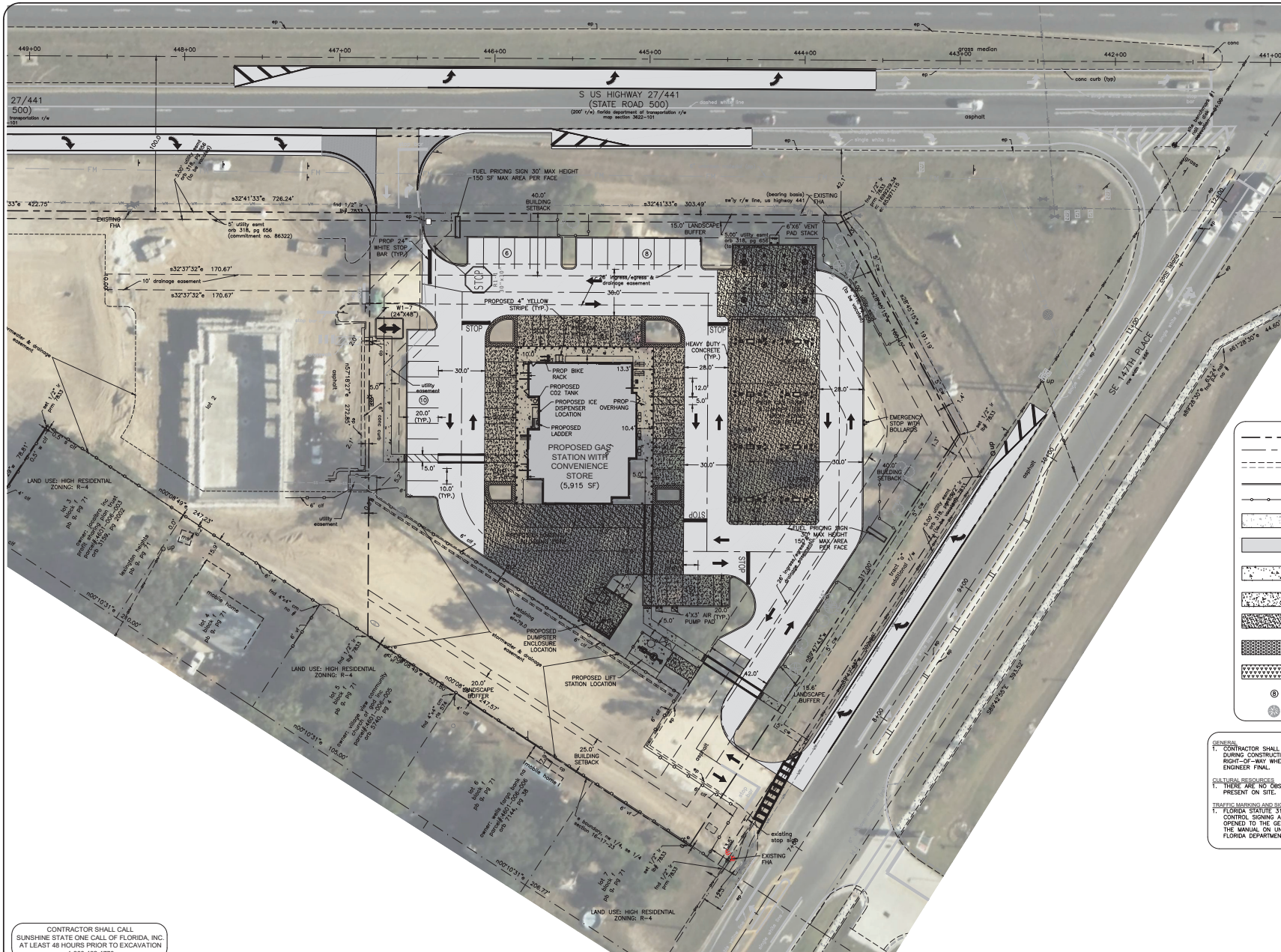
RESPONSIBLE AUTHORITY CERTIFICATION STATEMENT
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY SUPERVISION OR DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED BY ME OR UNDER MY PERSONAL SUPERVISION AND I HAVE REVIEWED AND EXAMINED THE INFORMATION SUBMITTED HEREON BY ME OR BY OTHERS FOR THE PURPOSES OF VERIFYING THE ACCURACY OF THE INFORMATION SUBMITTED. I AM AWARE THAT THESE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION REGARDING THE PROBABILITY OF FINE AND IMPROVEMENT FOR KNOWN VIOLATIONS.

CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL OF FLORIDA, INC AT LEAST 48 HOURS PRIOR TO EXCAVATION 1-800-432-4770

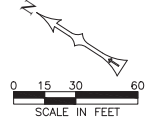
ORIGINAL SET: 1/14/23
REVISIONS:
1: 10/2/23 - REVISED THE COVER SHEET TO COMPLY WITH THE LATEST REVISIONS TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) GENERAL PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THE STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER.
DATE: 10/2/23
DRAWN BY: J. BRADLEY
CHECKED BY: J. BRADLEY
DATE: 10/2/23
SCALE: AS SHOWN
SHEET NUMBER: C4.0
S.I.T.R. 16-17-23

MAJOR SITE PLAN FOR CONVENIENCE STORE @ US HWY 441 & SE 147TH PLACE FOR AMPROP ENTERPRISES SUMMERFIELD LLC
4201.W.CYPRESS STREET, TAMPA, FL 33607
MARION COUNTY
FLORIDA

C:\SHARED\_DRAWINGS\AMPROJ\PROJECTS\12101220 - 441 & 147th CONVENIENCE STORE\DRAWINGS\C5.0 SITE PLAN.DWG - 12/22/2023, 3:06 PM



CONTRACTOR SHALL CALL  
SUNSHINE STATE ONE CALL OF FLORIDA, INC.  
AT LEAST 48 HOURS PRIOR TO EXCAVATION  
1-800-432-4770



LEGEND	
	PROPERTY LINE
	PROPOSED CENTERLINE
	EXISTING EDGE OF PAVEMENT & BACK OF CURB
	PROPOSED EDGE OF PAVEMENT & BACK OF CURB
	PROPOSED TREE BARRICADE
	EXISTING CONCRETE
	PROPOSED ASPHALT
	PROPOSED 4" THICK 3,500 PSI FIBER REINFORCED CONCRETE SIDEWALK
	PROPOSED 6" THICK 4,000 PSI STANDARD DUTY CONCRETE PAVEMENT
	PROPOSED 8" THICK 4,000 PSI HEAVY DUTY CONCRETE PAVEMENT
	PROPOSED RED ADA TRUNCATED DOMES
	PROPOSED ADA RAMP
	PARKING NUMBERS
	EXISTING TREE TO REMAIN

- NOTES**
- GENERAL**
- CONTRACTOR SHALL PROTECT ALL COUNTY REGULATORY SIGNS DURING CONSTRUCTION AND REPLACE THOSE IN THE COUNTY RIGHT-OF-WAY WHEN CONSTRUCTION IS COMPLETED PRIOR TO ENGINEER FINAL.
- CULTURAL RESOURCES**
- THERE ARE NO OBSERVED REGISTERED CULTURAL RESOURCES PRESENT ON SITE.
- TRAFFIC MARKING AND SIGNING**
- FLORIDA STATUTE 316.771 REQUIRES THAT ALL TRAFFIC CONTROL SIGNING AND MARKINGS ON PRIVATE PROPERTY OPENED TO THE GENERAL PUBLIC IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS.

REVISIONS	
NO.	DATE
1	12/22/23
2	12/22/23
3	12/22/23
4	12/22/23
5	12/22/23

**NATIVE**  
engineers & architects  
15075 W. BOYD AVE. SUITE 100  
LAKES, FL 34469  
(813) 536-2539

**MAJOR SITE PLAN FOR CONVENIENCE STORE @ US HWY 441 & SE 147TH PLACE**  
FOR  
**AMPRO ENTERPRISES SUMMERFIELD LLC**  
4201 W. CYPRESS STREET, TAMPA, FL 33607

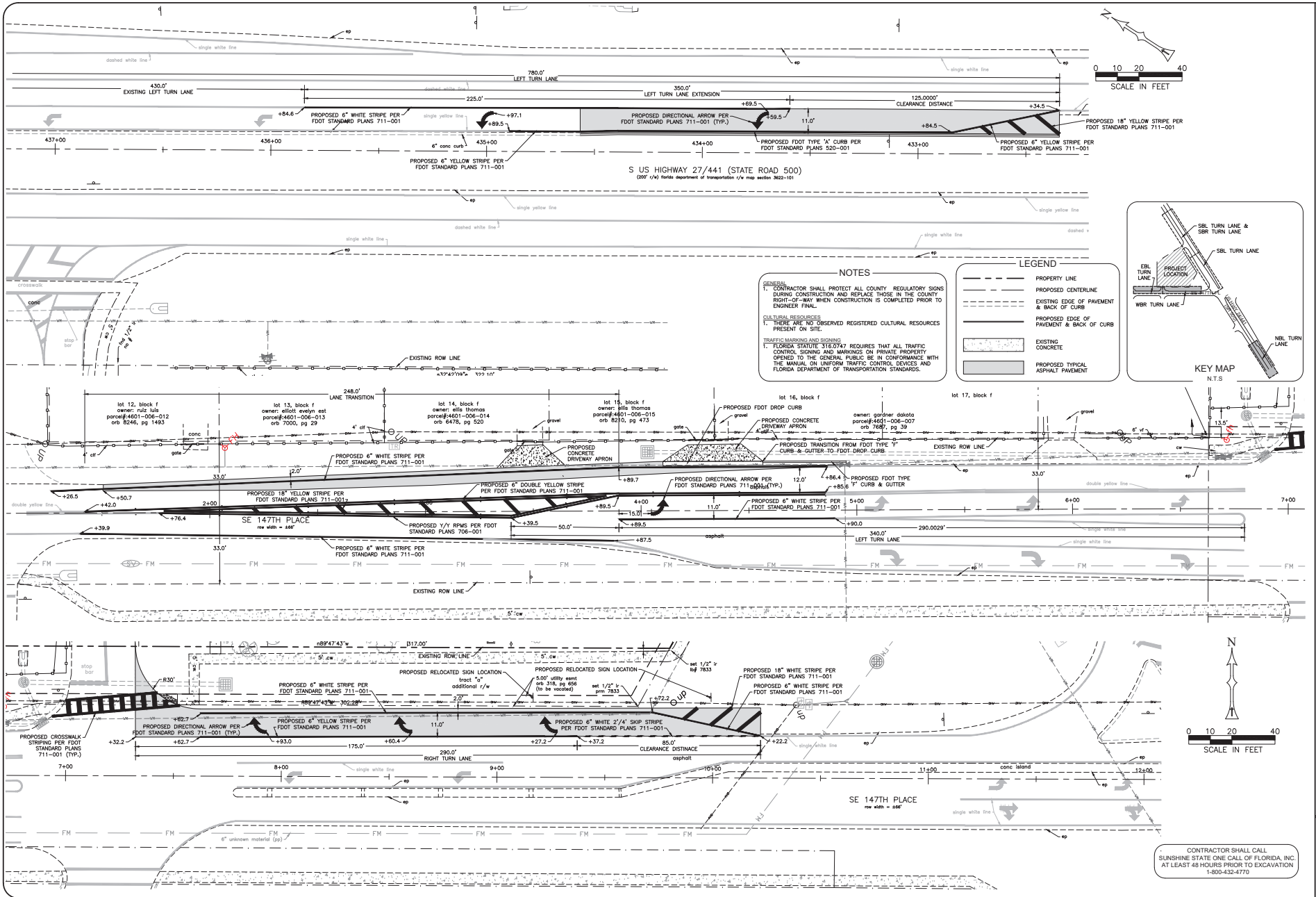
**SITE PLAN**

JOSHUA S. BRADLEY  
State of Florida,  
Professional Engineer,  
License No. 60220

**C5.0**

S:LR  
16-17-23

D:\SHARED\_DRAWINGS\CLIENTS\AMPROP\PROJECTS\12101200 - 441 & 147th CONVENIENCE STORE\DRAWINGS\C5.1 - C5.2 OFF-SITE SIGNING & MARKING PLAN\DWG - 6/14/2024 1:35 AM



**REVISIONS**

NO.	DATE	DESCRIPTION
1	12/07/23	ISSUED FOR COUNTY & COUNTY COMMENTS
2	02/07/24	ISSUED FOR COUNTY COMMENTS
3	02/07/24	ISSUED FOR COUNTY COMMENTS

**NATIVE**  
 engineering, inc.  
 1801 W. US HWY 441, SUITE 340-309  
 LAND O' LAKES, FL 34609  
 (813) 536-2539

**MAJOR SITE PLAN FOR CONVENIENCE STORE @ US HWY 441 & SE 147TH PLACE**  
 FOR  
**AMPROP ENTERPRISES SUMMERFIELD LLC**  
 4201 W. CYPRESS STREET, TAMPA, FL 33607

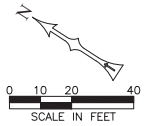
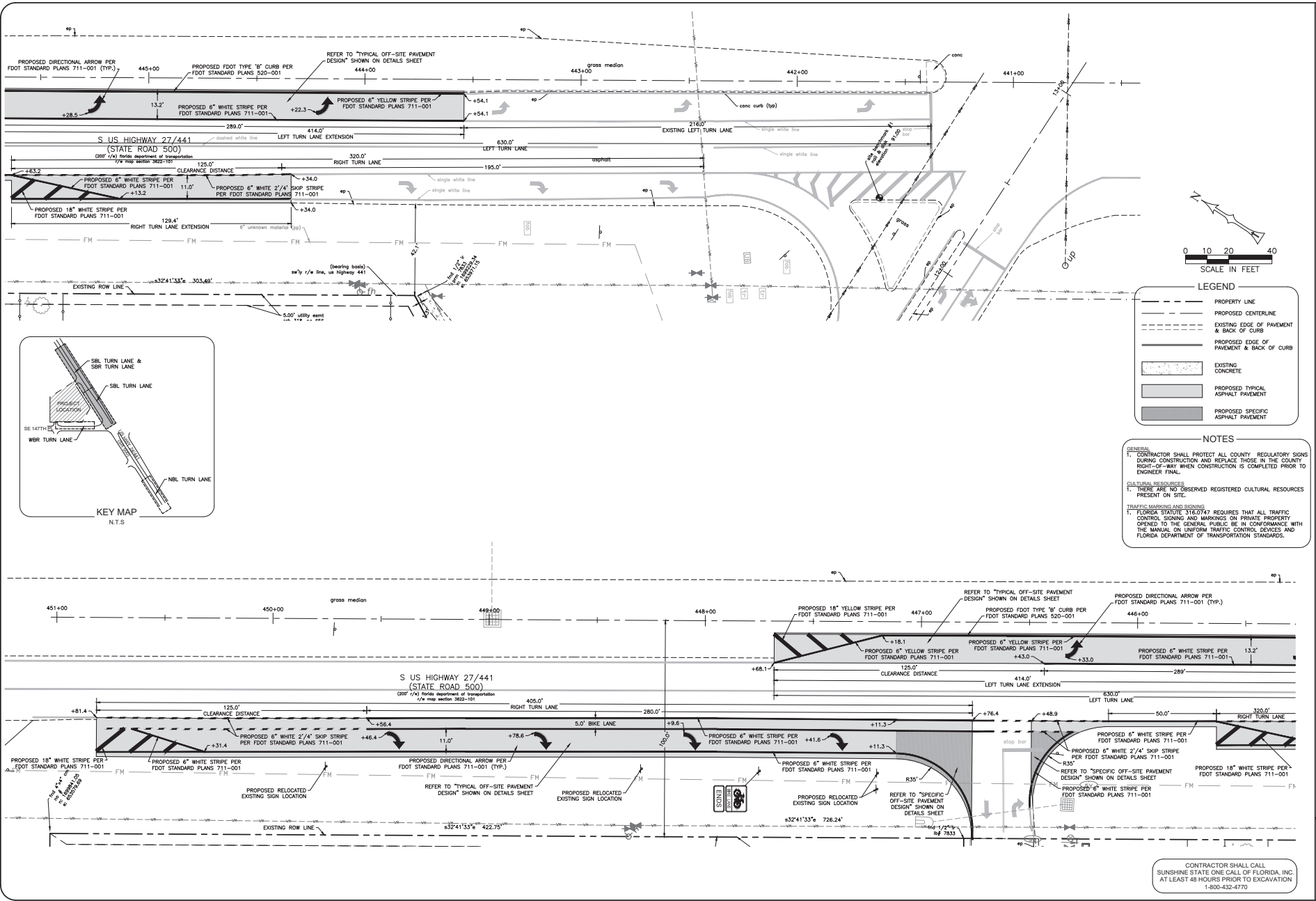
**OFF-SITE SIGNING & MARKING PLAN**

**JOSHUA S. BRADLEY**  
 State of Florida,  
 Professional Engineer,  
 License No. 000230

**CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL OF FLORIDA, INC. AT LEAST 48 HOURS PRIOR TO EXCAVATION 1-800-432-4770**

**SHEET NUMBER**  
**C5.1**  
 S.T.R.  
 16-17-23

C:\SHARED\_DRAWINGS\AMPROJ\PROJECTS\12101210 - 441 & 147TH CONVENIENCE STORE\DRAWINGS\C5.1-C5.2 OFF-SITE SIGNING & MARKING PLANS.DWG - 12/22/2023 3:06 PM



**LEGEND**

---	PROPERTY LINE
---	PROPOSED CENTERLINE
---	EXISTING EDGE OF PAVEMENT & BACK OF CURB
---	PROPOSED EDGE OF PAVEMENT & BACK OF CURB
---	EXISTING CONCRETE
---	PROPOSED TYPICAL ASPHALT PAVEMENT
---	PROPOSED SPECIFIC ASPHALT PAVEMENT

- NOTES**
- GENERAL**
- CONTRACTOR SHALL PROTECT ALL COUNTY REGULATORY SIGNS DURING CONSTRUCTION AND REPLACE THOSE IN THE COUNTY RIGHT-OF-WAY WHEN CONSTRUCTION IS COMPLETED PRIOR TO ENGINEER FINAL.
- CULTURAL RESOURCES**
- THERE ARE NO OBSERVED REGISTERED CULTURAL RESOURCES PRESENT ON SITE.
- TRAFFIC MARKING AND SIGNING**
- FLORIDA STATUTE 316.0747 REQUIRES THAT ALL TRAFFIC CONTROL SIGNING AND MARKINGS ON PRIVATE PROPERTY OPENED TO THE GENERAL PUBLIC BE IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS.

CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL OF FLORIDA, INC. AT LEAST 48 HOURS PRIOR TO EXCAVATION  
1-800-432-4770

**REVISIONS**

NO.	DATE	DESCRIPTION
1	12/22/23	ISSUED FOR OWNER'S CHECK/COMMENTS
2	12/22/23	ISSUED FOR OWNER'S CHECK/COMMENTS
3	12/22/23	ISSUED FOR OWNER'S CHECK/COMMENTS

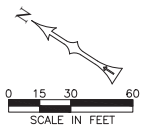
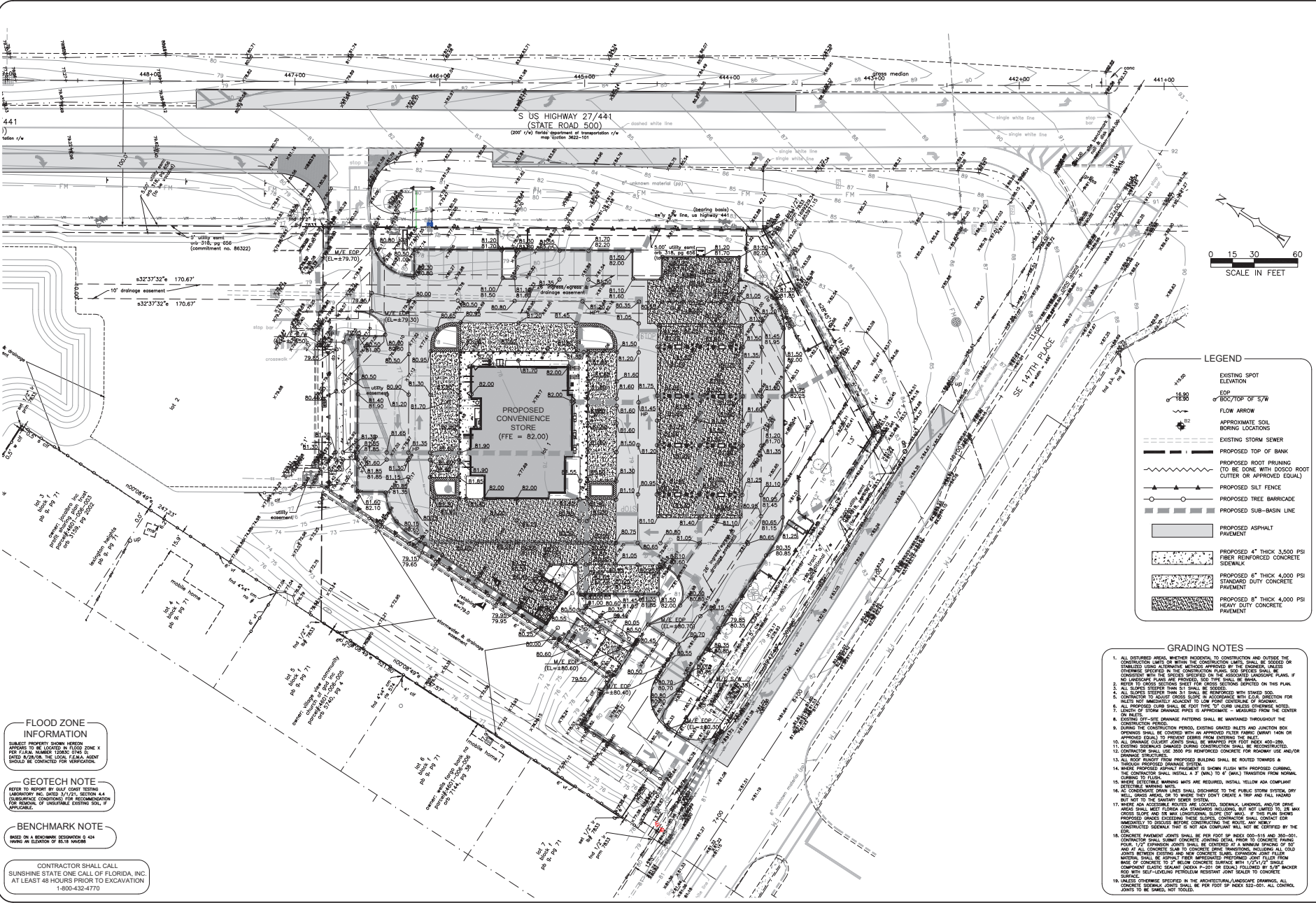
**NATIVE**  
engineers, llc  
15000 W. US HWY 441, SUITE 300  
LAKE O' LAKE, FL 34439  
(813) 536-2529

**MAJOR SITE PLAN FOR CONVENIENCE STORE @ US HWY 441 & SE 147TH PLACE**  
FOR  
**AMPROP ENTERPRISES SUMMERFIELD LLC**  
4201 W. CYPRRESS STREET, TAMPA, FL 33607

**OFF-SITE SIGNING & MARKING PLAN**

JOSHUA S. BRADLEY  
State of Florida  
Professional Engineer  
License No. 60236

SHEET NUMBER  
**C5.2**  
S-1-R  
16-17-23



**LEGEND**

	EXISTING SPOT ELEVATION
	EOP 800'/TOP OF 3/4
	FLOW ARROW
	APPROXIMATE SOIL BORING LOCATIONS
	EXISTING STORM SEWER
	PROPOSED TOP OF BANK
	PROPOSED ROOT PRUNING (TO BE DONE WITH BOSCO ROOT CUTTER OR APPROVED EQUAL)
	PROPOSED SILT FENCE
	PROPOSED TREE BARRICADE
	PROPOSED SUB-BASIN LINE
	PROPOSED ASPHALT PAVEMENT
	PROPOSED 4" THICK 5,000 PSI FIBER REINFORCED CONCRETE SIDEWALK
	PROPOSED 6" THICK 4,000 PSI STANDARD DUTY CONCRETE PAVEMENT
	PROPOSED 8" THICK 4,000 PSI HEAVY DUTY CONCRETE PAVEMENT

- GRADING NOTES**
1. ALL DISTURBED AREAS, WHETHER INCIDENTAL TO CONSTRUCTION AND OUTSIDE THE CONSTRUCTION LIMITS OR WITHIN THE CONSTRUCTION LIMITS, SHALL BE SOILED OR REVEGETATED TO MATCH THE EXISTING SURFACE. THE CONSTRUCTION PLAN SHOULD SHOW THE SOILING/REVEGETATION SPECIFIED IN THE CONSTRUCTION PLAN. SOIL SHOULD BE REFINISHED TO MATCH THE EXISTING SURFACE. THE CONSTRUCTION PLAN SHOULD SHOW THE SOILING/REVEGETATION SPECIFIED IN THE CONSTRUCTION PLAN.
  2. WHERE TO CROSS SECTIONS SHOWN THE CROSS SECTION APPLICABLE TO THIS PLAN.
  3. ALL SLOPES STEEPER THAN 3:1 SHALL BE REINFORCED WITH STAIRED SOIL.
  4. ALL SLOPES STEEPER THAN 3:1 SHALL BE REINFORCED WITH STAIRED SOIL.
  5. ALL PROPOSED CURBS SHALL BE 12" HIGH UNLESS OTHERWISE NOTED.
  6. EXISTING CURBS SHALL BE 12" HIGH UNLESS OTHERWISE NOTED.
  7. EXISTING SIDEWALKS DAMAGED DURING CONSTRUCTION SHALL BE RECONSTRUCTED.
  8. EXISTING SIDEWALKS DAMAGED DURING CONSTRUCTION SHALL BE RECONSTRUCTED.
  9. EXISTING SIDEWALKS DAMAGED DURING CONSTRUCTION SHALL BE RECONSTRUCTED.
  10. EXISTING SIDEWALKS DAMAGED DURING CONSTRUCTION SHALL BE RECONSTRUCTED.
  11. EXISTING SIDEWALKS DAMAGED DURING CONSTRUCTION SHALL BE RECONSTRUCTED.
  12. EXISTING SIDEWALKS DAMAGED DURING CONSTRUCTION SHALL BE RECONSTRUCTED.
  13. EXISTING SIDEWALKS DAMAGED DURING CONSTRUCTION SHALL BE RECONSTRUCTED.
  14. EXISTING SIDEWALKS DAMAGED DURING CONSTRUCTION SHALL BE RECONSTRUCTED.
  15. EXISTING SIDEWALKS DAMAGED DURING CONSTRUCTION SHALL BE RECONSTRUCTED.
  16. EXISTING SIDEWALKS DAMAGED DURING CONSTRUCTION SHALL BE RECONSTRUCTED.
  17. EXISTING SIDEWALKS DAMAGED DURING CONSTRUCTION SHALL BE RECONSTRUCTED.
  18. EXISTING SIDEWALKS DAMAGED DURING CONSTRUCTION SHALL BE RECONSTRUCTED.
  19. EXISTING SIDEWALKS DAMAGED DURING CONSTRUCTION SHALL BE RECONSTRUCTED.

**FLOOD ZONE INFORMATION**  
 SUBJECT PROPERTY OWNER HEREBY AGREES TO BE LOCATED IN FLOOD ZONE X PER FIRM NUMBER 10008 0748 D DATED 8/2/08. THE LOCAL FEMA AGENT SHOULD BE CONTACTED FOR VERIFICATION.

**GEOTECH NOTE**  
 REFER TO REPORT BY SOIL LOUVER TESTING LABORATORY INC. DATED 3/1/21, SECTION 4.4 (CONFORMANCE CRITERIA) FOR RECOMMENDATION FOR REMOVAL OF UNSATURATED EXISTING SOIL, IF APPLICABLE.

**BENCHMARK NOTE**  
 BASED ON A BENCHMARK RESPONDER 3 034 MARK IN ELEVATION OF 84.8 INCHES.

CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL OF FLORIDA, INC. AT LEAST 48 HOURS PRIOR TO EXCAVATION 1-800-432-4770

ORIGINAL SET: 01/23/23  
 REVISIONS:

**NATIVE**  
 engineering, inc.  
 12205 E. WINDY HILL ROAD, SUITE 100  
 LAND O' LAKES, FL 34639  
 (813) 536-2539

FLORIDA  
 MARION COUNTY  
 4201 W. CYPRESS STREET, TAMPA, FL 33607

**MAJOR SITE PLAN FOR CONVENIENCE STORE @ US HWY 441 & SE 147TH PLACE**  
 FOR  
**AMPROP ENTERPRISES SUMMERFIELD LLC**

**PAVING & GRADING PLAN**

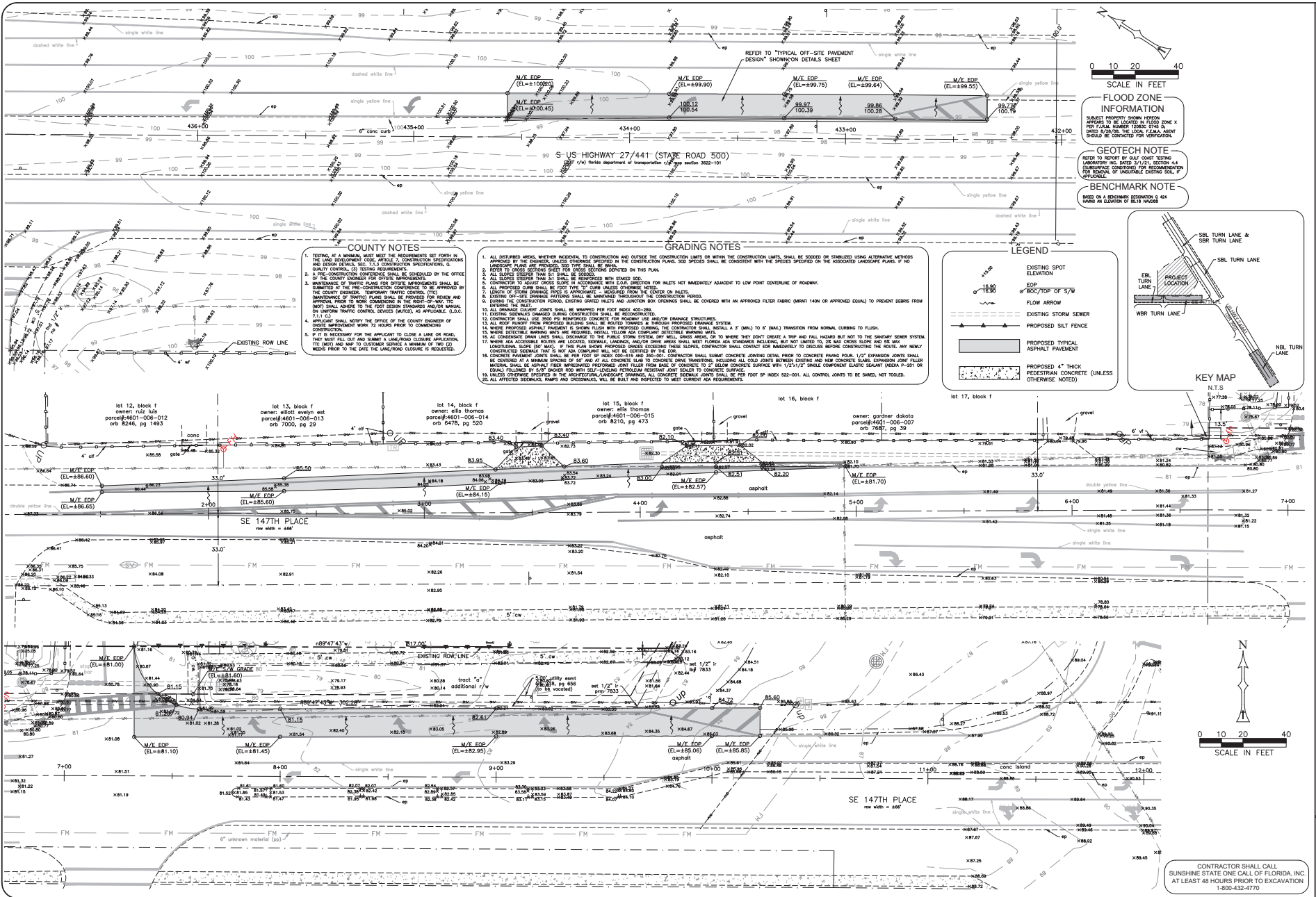
JOSHUA S. BRADLEY  
 State of Florida,  
 Professional Engineer,  
 License No. 16030

THIS SET OF BLUE PRINTS SHALL BE USED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS, 11TH EDITION, 2010 EDITION, AND ANY AMENDMENTS THEREOF.

SHEET NUMBER  
**C6.0**  
 S: 1-8  
 16-17-23

C:\SHARED\_DRAWING\CLIENTS\AMPROP\PROJECTS\1\_21\_01\_23\_00 - 441 & 147th CONVENIENCE STORE\DRAWINGS\CAD PLANS & GRADING PLANS - 12/22/2023 3:09 PM

0:\SHARED\CLIENTS\AMPROJ\PROJECTS\12101200 - 441 & 147th CONVENIENCE STORE\DRAWINGS\01-02\_02 OFF-SITE PAVING & GRADING PLANS.DWG - 6/14/2024 1:54 AM



**COUNTY NOTES**

1. TESTING AT A MINIMUM MUST MEET THE REQUIREMENTS SET FORTH IN THE L&D REQUIREMENT CODE, ARTICLE 7, CONSTRUCTION SPECIFICATIONS AND DESIGN DETAILS, SEC. 71.3 CONSTRUCTION SPECIFICATIONS, QUALITY CONTROL, (2) TESTING REQUIREMENTS FOR ASPHALT CONSTRUCTION OF THE COUNTY ENGINEER FOR OFF-SITE IMPROVEMENTS.
2. PRE-CONSTRUCTION CONFERENCE SHALL BE ATTENDED BY THE OFFICE OF THE COUNTY ENGINEER FOR OFF-SITE IMPROVEMENTS.
3. MAINTENANCE OF TRAFFIC PLANS FOR OFF-SITE IMPROVEMENTS SHALL BE SUBMITTED AT THE PRE-CONSTRUCTION CONFERENCE TO BE APPROVED BY THE COUNTY ENGINEER. TEMPORARY TRAFFIC CONTROL, TRAFFIC CONTROL, AND MAINTENANCE OF TRAFFIC PLANS SHALL BE PROVIDED FOR BEFORE AND AFTER WORK COMMENCING IN THE RIGHT-OF-WAY. THE APPLICANT SHALL OBTAIN THE FOOT CROWN DIMENSIONS AND MATERIALS FROM THE COUNTY ENGINEER'S OFFICE.
4. APPLICANT SHALL NOTIFY THE OFFICE OF THE COUNTY ENGINEER OF OFF-SITE IMPROVEMENT WORK TO BE DONE PRIOR TO COMMENCING CONSTRUCTION.
5. IF IT IS NECESSARY FOR THE APPLICANT TO CLOSE A LAKE OR ROAD, THEY MUST FILE AN ORDER SUMMITTING A LICENSED SURVEYOR WITH APPLICATION. THE (MOT) AND MAP TO CUSTOMER SERVICE A MINIMUM OF TWO (2) WEEKS FROM THE DATE THE LICENSED SURVEYOR IS REQUESTED.

**GRADING NOTES**

1. ALL DISTURBED AREAS, WHETHER RESIDENTIAL OR COMMERCIAL AND OUTSIDE THE CONSTRUCTION LIMITS OR WITHIN THE CONSTRUCTION LIMITS, SHALL BE SOGGED OR STABILIZED USING ALTERNATIVE METHODS APPROVED BY THE ENGINEER. UNLESS OTHERWISE SPECIFIED IN THE CONSTRUCTION PLANS, SOG SHALL BE CONSISTENT WITH THE SPECIES SPECIFIED ON THE ASSOCIATED LANDSCAPE PLANS. IF NO LANDSCAPE PLANS ARE PROVIDED, SOG TYPE SHALL BE SEVA.
2. REFER TO EXISTING SECTION SHEET FOR SPOTS SPECIFIED ON THIS PLAN.
3. ALL SLOPES STEEPER THAN 2:1 SHALL BE REINFORCED WITH STABILIZED SOG.
4. CONCRETES TO EXISTING CIRCULAR CURBS IN ACCORDANCE WITH LOCAL ORDINANCE FOR INLETS NOT IMMEDIATELY ADJACENT TO LOW POINT CENTERLINE OF ROADWAY.
5. ALL PROPOSED CURBS SHALL BE FOOT TYPE "C" CURB UNLESS OTHERWISE NOTED.
6. EXISTING OFF-SITE DRAINAGE PATTERNS SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
7. DURING THE CONSTRUCTION PERIOD, EXISTING GRADED INLETS AND JUNCTION BOX OPENINGS SHALL BE COVERED WITH AN APPROVED FILTER FABRIC (MANT 140N OR APPROVED EQUAL) TO PREVENT DEBRIS FROM ENTERING THE INLET.
8. ALL DRAINAGE COLLECTOR JOINTS SHALL BE WRAPPED PER FOOT INDEX 400-256.
9. EXISTING SEWERAGE DRAINAGE DURING CONSTRUCTION SHALL BE RECONSTRUCTED.
10. CONSTRUCTION SHALL USE 3000 PSI PORTLAND CEMENT FOR READY MIX CONCRETE FOR ALL STRUCTURES.
11. ALL ROOF RUNOFF FROM PROPOSED BUILDINGS SHALL BE ROUTED THROUGH A THROUGH PROPOSED DRAINAGE SYSTEM.
12. WHERE PROPOSED ASPHALT PAVEMENT IS OVER FLOW OR HIGH PROPOSED FLOW, THE CONSTRUCTION SHALL INSTALL A 4" (MIN) TO 6" (MAX) TRANSITION FROM NORMAL CURBING TO FLOW.
13. WHERE DETECTABLE WARNING WAITS ARE REQUIRED, INSTALL YELLOW ADA COMPLIANT DETECTABLE WARNING WAITS.
14. ALL CONCRETE JOINTS SHALL BE COURED TO THE PUBLIC WORK SYSTEM, AND SHALL MEET FLORIDA ADA STANDARDS INCLUDING, BUT NOT LIMITED TO, 2% MAX CROSS SLOPE AND 2% MAX LONGITUDINAL SLOPE (FOR WALK). IF THIS PLAN SHOWS PROPOSED GRADINGS EXCEEDING THESE VALUES, CONTRACTOR SHALL CONTACT FOR IMMEDIATELY TO DISCUSS BEFORE CONSTRUCTION. THE ROUTE, ANY NEWLY LOCATED, SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
15. WHERE AS NECESSARY, PROVIDE THE LOCATED ORIGINAL LANDING AND/OR DRIVE AREAS SHALL MEET FLORIDA ADA STANDARDS INCLUDING, BUT NOT LIMITED TO, 2% MAX CROSS SLOPE AND 2% MAX LONGITUDINAL SLOPE (FOR WALK). IF THIS PLAN SHOWS PROPOSED GRADINGS EXCEEDING THESE VALUES, CONTRACTOR SHALL CONTACT FOR IMMEDIATELY TO DISCUSS BEFORE CONSTRUCTION. THE ROUTE, ANY NEWLY LOCATED, SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
16. CONCRETE JOINTS SHALL BE 1/2" EXPANSION JOINTS. CONCRETE SHALL BE PLACED AND FINISHED WITH A FINISH THAT PROVIDES A SLIP-RESISTANT SURFACE. EXPANSION JOINT FILLER MATERIAL SHALL BE ASPHALT FIBER IMPREGATED PROFORMED JOINT FILLER FROM MAKE OF CONCRETE TO 2" BELOW CONCRETE SURFACE WITH 1/2"x1/2" SINGLE COMPONENT ELASTIC SEALANT (ADAXA P-201 OR EQUAL) FOLLOWED BY 1/4" BACKFILL WITH BALL-BEARING POLYURETHANE JOINT SEALER TO CONCRETE SURFACE.
17. UNLESS OTHERWISE SPECIFIED IN THE ARCHITECTURAL/MECHANICAL DRAWINGS, ALL CONCRETE JOINTS SHALL BE SAVED, NOT TOOLED.
18. ALL AFFECTED SIDEWALKS, RAMPS AND CROSSWALKS, WILL BE BUILT AND REPAIRED TO MEET CURRENT REQUIREMENTS.

**FLOOD ZONE INFORMATION**

SCALE IN FEET

0 10 20 40

**GEOTECH NOTE**

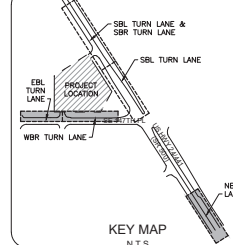
REFER TO REPORT BY DUFF COAST TESTING LABORATORY INC. DATED 07/17/2023. SECTION 4-A (SUBSURFACE CONDITIONS) FOR RECOMMENDATION FOR DESIGN OF UNDESIGNED EXISTING SOG, IF APPLICABLE.

**BENCHMARK NOTE**

NOTED ON BENCHMARK DOCUMENT # 024 MARKING IN ELEVATION OF 81.9 INCHES

**LEGEND**

- EXISTING SPOT ELEVATION
- TOP OF 800/TOP OF S/W
- FLOW ARROW
- EXISTING STORM SEWER
- PROPOSED TYPICAL ASPHALT PAVEMENT
- PROPOSED 4" THICK PEDESTRIAN CONCRETE (UNLESS OTHERWISE NOTED)



**REVISIONS**

NO.	DATE	DESCRIPTION
1	02/27/24	ISSUED FOR COUNTY & COUNTY COMMENTS
2	02/27/24	ISSUED FOR COUNTY & COUNTY COMMENTS
3	02/27/24	ISSUED FOR COUNTY & COUNTY COMMENTS
4	02/27/24	ISSUED FOR COUNTY & COUNTY COMMENTS
5	02/27/24	ISSUED FOR COUNTY & COUNTY COMMENTS
6	02/27/24	ISSUED FOR COUNTY & COUNTY COMMENTS
7	02/27/24	ISSUED FOR COUNTY & COUNTY COMMENTS
8	02/27/24	ISSUED FOR COUNTY & COUNTY COMMENTS
9	02/27/24	ISSUED FOR COUNTY & COUNTY COMMENTS
10	02/27/24	ISSUED FOR COUNTY & COUNTY COMMENTS

**NATIVE**  
engineers & architects  
LAND SURVEYORS  
PLANNERS & DESIGNERS  
NO. 1 DATE

**MAJOR SITE PLAN FOR CONVENIENCE STORE @ US HWY 441 & SE 147TH PLACE**  
FOR  
**AMPRO ENTERPRISES SUMMERFIELD LLC**  
4201 W. CYPRESS STREET, TAMPA, FL 33607

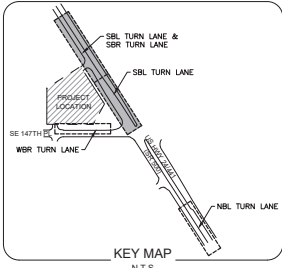
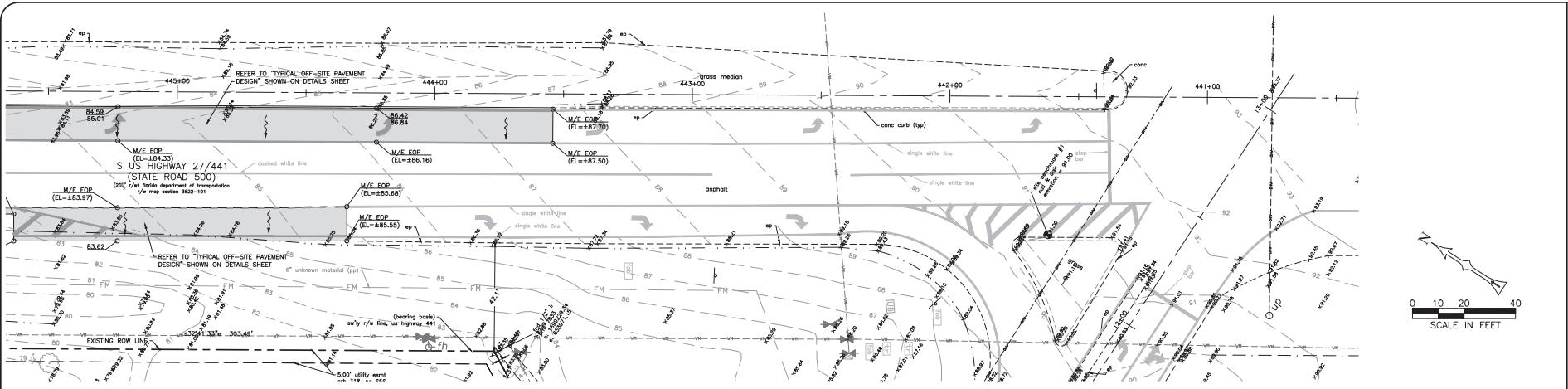
**OFF-SITE PAVING & GRADING PLAN**

**SHEET NUMBER**  
**C6.1**  
S.I.T.  
16-17-23

CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL OF FLORIDA, INC. AT LEAST 48 HOURS PRIOR TO EXCAVATION  
1-800-432-4770

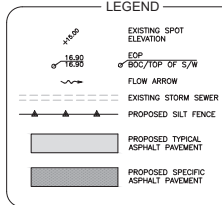
JOSHUA S. BRADLEY  
- State of Florida,  
Professional Engineer,  
License No. 00030

THIS SET OF BLUE PRINTS HAS BEEN PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA. I AM NOT PROVIDING CONTRACT ADMINISTRATION SERVICES.



- GRADING NOTES**
1. ALL DISTURBED AREAS, WHETHER INSIDE OR OUTSIDE THE CONSTRUCTION LIMITS OR WITHIN THE CONSTRUCTION LIMITS, SHALL BE SOILED OR STABILIZED USING ALTERNATIVE METHODS APPROVED BY THE ENGINEER, UNLESS OTHERWISE SPECIFIED IN THE CONSTRUCTION PLANS. SOI GRADES SHALL BE CONSISTENT WITH THE GRADES SPECIFIED ON THE ASSOCIATED LANDSCAPE PLANS, IF NO LANDSCAPE PLANS ARE PROVIDED, SOI TYPE SHALL BE BENCH MARK ELEVATION SHEET FOR THESE SECTIONS DERIVED ON THIS PLAN.
  2. ALL SLOPES STEEPER THAN 3:1 SHALL BE SOILED.
  3. ALL SLOPES STEEPER THAN 3:1 SHALL BE REINFORCED WITH STABIL SOIL.
  4. ALL SLOPES STEEPER THAN 3:1 SHALL BE REINFORCED WITH E.O.A. DIRECTION FOR INLETS NOT IMMEDIATELY ADJACENT TO LOW POINT LOCATIONS OF ROADWAY.
  5. CONTRACTOR TO VERIFY SLOPE SIZES BY ACCURATE MEASUREMENTS THROUGHOUT THE CONSTRUCTION PERIOD.
  6. DURING THE CONSTRUCTION PERIOD, EXISTING UNWEADED JUNCTION BOX OPENINGS SHALL BE COVERED WITH AN APPROVED FILTER FABRIC PANEL. PANELS ARE APPROVED EQUAL TO ANY OTHER COVERING FROM ENTERING THE HOLE.
  7. EXISTING OFF-SITE DRAINAGE PATTERNS SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
  8. EXISTING OFF-SITE DRAINAGE PATTERNS SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
  9. EXISTING OFF-SITE DRAINAGE PATTERNS SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
  10. EXISTING OFF-SITE DRAINAGE PATTERNS SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
  11. EXISTING OFF-SITE DRAINAGE PATTERNS SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
  12. CONTRACTOR SHALL USE SOOI FOR REINFORCED CONCRETE FOR ROADSIDE USE AND/OR DRAINAGE STRUCTURES.
  13. ALL ROOF DRAINAGE FROM PROPOSED BUILDING SHALL BE ROUTED THROUGH A THROUGH PROPOSED DRAINAGE SYSTEM.
  14. WHERE PROPOSED OFF-SITE DRAINAGE IS PROPOSED CROSSING THE CONSTRUCTION SHALL INSTALL A 12" DIA. CONCRETE DRAIN WITH 12" DIA. CONCRETE MANHOLE.
  15. WHERE EXISTING DRAINAGE PATTERNS ARE REQUIRED, INSTALL YELLOW ADA COMPLIANT OPTICALLY MARKING TAPE TO INDICATE THEY CAN'T CROSS A TRIP AND FALL HAZARD BUT NOT TO THE SURFACE DRAINAGE SYSTEM.
  16. WHERE ADA ACCESSIBLE ROUTES ARE LOCATED, SURFACE DRAINAGE AND/OR DRAINAGE SHALL MEET FLORIDA ADA COMPLIANCE REQUIREMENTS. ALL ADA COMPLIANCE SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
  17. WHERE ADA ACCESSIBLE ROUTES ARE LOCATED, SURFACE DRAINAGE AND/OR DRAINAGE SHALL MEET FLORIDA ADA COMPLIANCE REQUIREMENTS. ALL ADA COMPLIANCE SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
  18. UNLESS OTHERWISE SPECIFIED, ALL CONCRETE SHALL BE 2800 PSI STRENGTH CONCRETE.
  19. UNLESS OTHERWISE SPECIFIED, ALL CONCRETE SHALL BE 2800 PSI STRENGTH CONCRETE.
  20. ALL AFFECTED SIDEWALKS, RAMPS AND CROSSWALKS WILL BE BUILT AND INSPECTED TO MEET CURRENT ADA REQUIREMENTS.

- COUNTY NOTES**
1. TESTING AT A MINIMUM MUST MEET THE REQUIREMENTS SET FORTH IN THE LAND DEVELOPMENT CODE, ARTICLE 7, CONSTRUCTION SPECIFICATIONS AND DESIGN DETAIL, SEC. 7-1.1 CONSTRUCTION SPECIFICATIONS, QUALITY CONTROL, D. TESTING REQUIREMENTS.
  2. A PRE-CONSTRUCTION CONFERENCE SHALL BE SCHEDULED BY THE OFFICE OF THE COUNTY ENGINEER FOR OFF-SITE IMPROVEMENTS SHALL BE SUBMITTED AT THE PRE-CONSTRUCTION CONFERENCE TO BE APPROVED BY THE COUNTY ENGINEER. TEMPORARY TRAFFIC CONTROL (TTC) AND MAINTENANCE OF TRAFFIC PLANS SHALL BE APPROVED FOR REVIEW AND APPROVAL FROM THE COUNTY ENGINEER'S OFFICE. THE COUNTY ENGINEER'S OFFICE SHALL ADHERE TO THE BEST PRACTICES STANDARDS AND/OR MANUAL ON TRAFFIC CONTROL (MUTCD) AS APPLICABLE (I.C.E. 7-1.1 (C)).
  3. APPROVAL SHALL NOTIFY THE OFFICE OF THE COUNTY ENGINEER OF ANY NECESSARY WORK 72 HOURS PRIOR TO COMMENCING CONSTRUCTION.
  4. IF IT IS NECESSARY FOR THE EMPLOYEE TO CLOSE A LANE OR ROAD, THEY MUST FILL OUT AND SUBMIT A LANE/ROAD CLOSURE APPLICATION, ITS NOTICED AND MAP TO CUSTOMER SERVICE A MINIMUM OF TWO WEEKS PRIOR TO THE DATE THE LANE/ROAD CLOSURE IS REQUESTED.



**FLOOD ZONE INFORMATION**

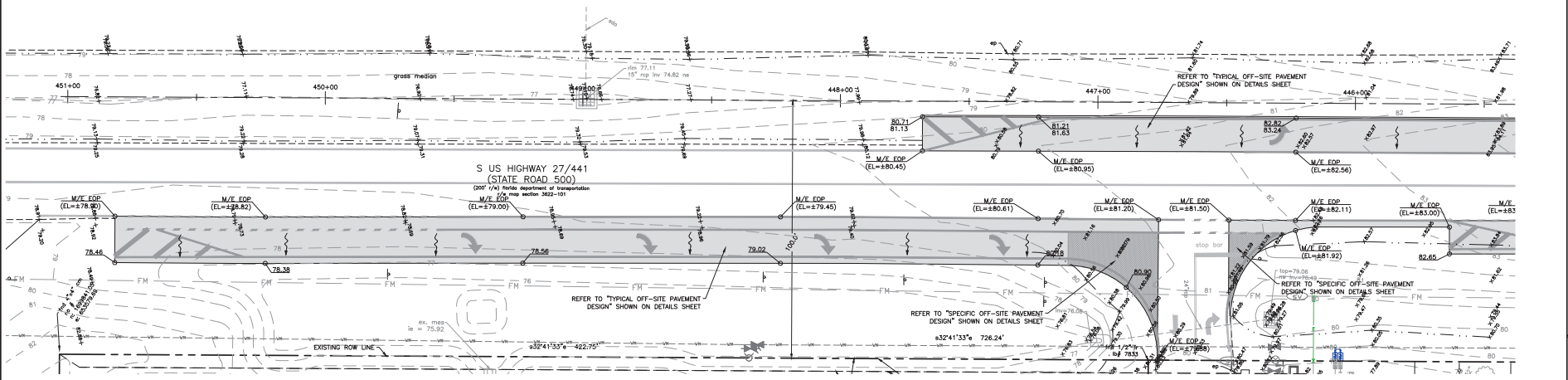
PROJECT PROPERTY SHOWS AREAS APPROX TO BE LOCATED IN FLOOD ZONE X (FIRM PANEL NUMBER 17085 010) TO DATED 8/25/08. THE LOCAL FEMA AGENT SHOULD BE CONTACTED FOR VERIFICATION OF FLOOD ZONE.

**GEOTECH NOTE**

REFER TO REPORT BY GUYTON GEOTECH LABORATORY INC. DATED 3/1/21, SECTION 4.4 (OVERSPACE CONDITIONS) FOR RECOMMENDATION FOR REMOVAL OF UNSATURATED EXISTING SOIL, IF APPLICABLE.

**BENCHMARK NOTE**

BASED ON A BENCHMARK DESIGNATION G 414 (MARK AN ELEVATION OF 81.8 INCHES)



CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL OF FLORIDA, INC. AT LEAST 48 HOURS PRIOR TO EXCAVATION 1-800-432-4770

**REVISIONS**

NO.	DATE	DESCRIPTION
1	12/22/2023	ISSUED FOR CONSTRUCTION
2	12/22/2023	ISSUED FOR CONSTRUCTION
3	12/22/2023	ISSUED FOR CONSTRUCTION

**NATIVE**  
engineers & architects  
LAND SURVEYORS  
PLANNERS  
(813) 536-2559

**MAJOR SITE PLAN FOR CONVENIENCE STORE @ US HWY 441 & SE 147TH PLACE**  
FOR  
**AMPROP ENTERPRISES SUMMERFIELD LLC**  
4201 W. CYPRUS STREET, TAMPA, FL 33607

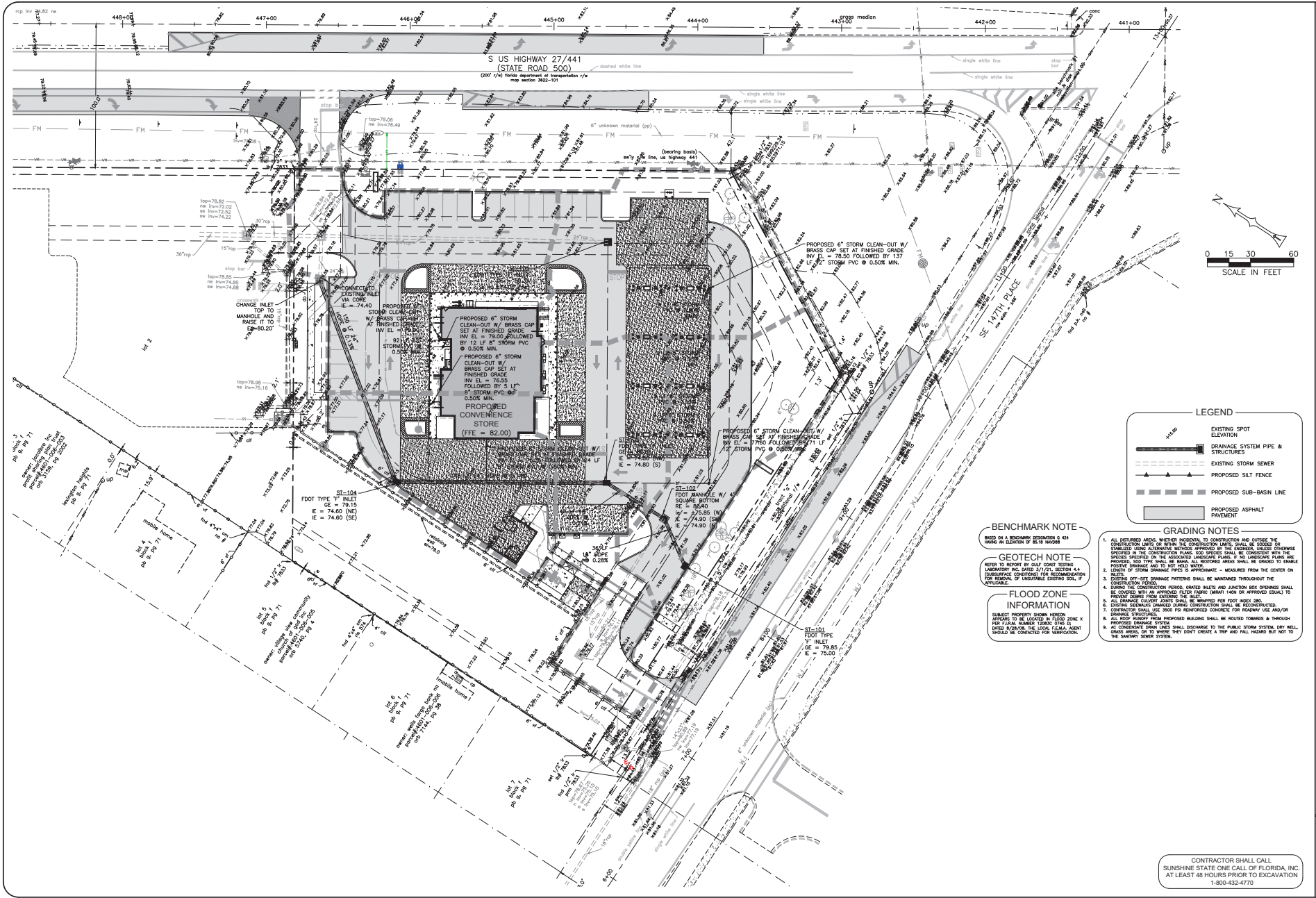
**OFF-SITE PAVING PLAN & GRADING PLAN**

**SHEET NUMBER**  
**C6.2**  
S-1-R  
16-17-23

JOSHUA S. BRADLEY  
State of Florida  
Professional Engineer  
License No. 16030  
I AM NOT BEING OFFICIALLY REGISTERED AS A PROFESSIONAL ENGINEER IN ANY OTHER STATE. THIS PLAN IS THE PROPERTY OF NATIVE ENGINEERS & ARCHITECTS. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON.



C:\SHARED\_DIR\CLIENTS\AMPROP\PROJECTS\1.21.012.00 - 441 & 147TH CONVENIENCE STORE\DRAWINGS\C7.0 DRAINAGE PLAN.DWG - 12/22/2023 3:07 PM



NO.	DATE	DESCRIPTION
1	12/22/23	ISSUED FOR OWNER'S CONSTRUCTION
2	12/22/23	ISSUED FOR OWNER'S CONSTRUCTION
3	12/22/23	ISSUED FOR OWNER'S CONSTRUCTION
4	12/22/23	ISSUED FOR OWNER'S CONSTRUCTION
5	12/22/23	ISSUED FOR OWNER'S CONSTRUCTION

NATIVE
   
 engineering, inc.
   
 1500 W. WINDY BAY AVENUE
   
 SUITE 200
   
 JACKSONVILLE, FL 32218
   
 (904) 255-2559

ORIGINAL SET: 01/23  
 REVISIONS:

**MAJOR SITE PLAN FOR CONVENIENCE STORE @ US HWY 441 & SE 147TH PLACE**  
 FOR  
**AMPRO ENTERPRISES SUMMERFIELD LLC**  
 4201 W. CYPRESS STREET, TAMPA, FL 33607

MARION COUNTY  
 FLORIDA  
 NO. | DATE

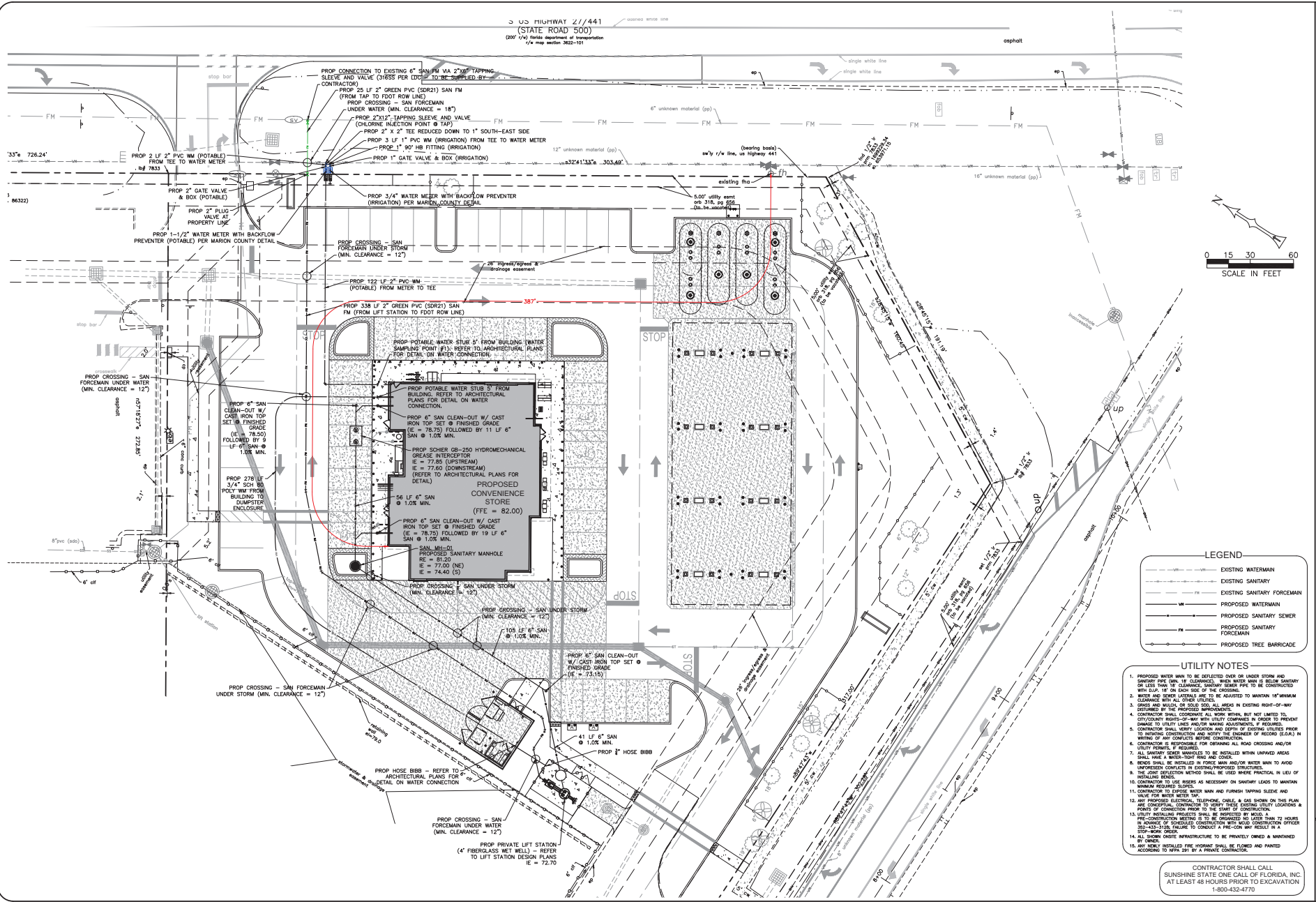
**DRAINAGE PLAN**

JOSHUA S. BRADLEY  
 State of Florida  
 Professional Engineer  
 License No. 60220

SHEET NUMBER  
**C7.0**  
 S-18  
 16-17-23

CONTRACTOR SHALL CALL  
 SUNSHINE STATE ONE CALL OF FLORIDA, INC.  
 AT LEAST 48 HOURS PRIOR TO EXCAVATION  
 1-800-432-4770

C:\SHARED\_DRAWINGS\AMPROJ\PROJECTS\12010120 - 441 & 147TH CONVENIENCE STORE\DRAWINGS\CAD UTILITY PLANING - 12/22/2023 3:15 PM



**LEGEND**

---	EXISTING WATER MAIN
---	EXISTING SANITARY
---	EXISTING SANITARY FORCEMAIN
---	PROPOSED WATER MAIN
---	PROPOSED SANITARY SEWER
---	PROPOSED SANITARY FORCEMAIN
---	PROPOSED TREE BARRICADE

- UTILITY NOTES**
- PROPOSED WATER MAIN TO BE SELECTED OVER UNDEVELOPED STORM AND SANITARY PIPE UNLESS CLEARANCES, WHICH WATER MAIN IS BELOW SANITARY PIPE, ARE LESS THAN 18" CLEARANCES. WHEN WATER MAIN IS BELOW SANITARY WITH C.L.P. 18" ON EACH SIDE OF THE CROSSING.
  - WATER AND SEWER LATERALS ARE TO BE ADJUSTED TO MAINTAIN 18" MINIMUM CLEARANCE WITH ALL OTHER UTILITIES.
  - CONTRACTOR SHALL COORDINATE ALL WORK WITHIN, BUT NOT LIMITED TO, CITY/COUNTY RECORDS-OF-WORK AND UTILITY COMPANIES IN ORDER TO PREVENT DAMAGE TO UTILITY LINES AND/OR MAKING ADJUSTMENTS, IF REQUIRED.
  - CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF EXISTING UTILITIES PRIOR TO INTENDING CONSTRUCTION AND NOTIFY THE ENGINEER OF RECORD (E.O.R.) IN WRITING. THE ENGINEER OF RECORD SHALL BE NOTIFIED IN WRITING AND/OR UTILITY PERMITS, IF REQUIRED, FOR DISTURBING ANY UNDEVELOPED AREAS.
  - CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND SHALL HAVE A WATER-TIGHT RING AND COVER.
  - SEWER SHALL BE INSTALLED IN PROSE MAIN AND/OR WATER MAIN TO AVOID UNDESIRABLE CONTACTS IN EXISTING/PROPOSED STRUCTURES.
  - THE JOINT SELECTION METHOD SHALL BE USED WHERE PRACTICAL IN LEVEL OF UTILITIES CROSSINGS.
  - CONTRACTOR TO USE ASSESS AS NECESSARY ON SANITARY LEADS TO MAINTAIN MINIMUM REQUIRED TIE-UPS.
  - CONTRACTOR TO EXPOSE WATER MAIN AND FURNISH TAPPING SLEEVE AND BOLT FOR WATER METER TAP.
  - ANY PROPOSED ELECTRICAL TELEPHONE CABLE & GAS SHOWN ON THIS PLAN ARE CONSIDERED CONTRACTOR TO VERIFY DEPTH OF EXISTING UTILITY LOCATIONS & PRE-CONSTRUCTION MEETING IS TO BE CONDUCTED NO LATER THAN 72 HOURS IN ADVANCE OF SCHEDULED CONSTRUCTION WITH AVOID CONSTRUCTION OFFICER 24 HOURS IN ADVANCE TO CONDUCT A PRE-CON MEETING. RESULT IS A CONTRACTOR TO VERIFY LOCATION AND DEPTH OF EXISTING UTILITIES PRIOR TO INTENDING CONSTRUCTION AND NOTIFY THE ENGINEER OF RECORD (E.O.R.) IN WRITING. THE ENGINEER OF RECORD SHALL BE NOTIFIED IN WRITING AND/OR UTILITY PERMITS, IF REQUIRED, FOR DISTURBING ANY UNDEVELOPED AREAS.
  - ALL SHOWN ON-SITE INFRASTRUCTURE TO BE PRIVATELY OWNED & MAINTAINED BY OWNER.
  - ANY NEWLY INSTALLED FIRE HYDRANT SHALL BE FLOWED AND PAINTED ACCORDING TO MVA 601 BY A PRIVATE CONTRACTOR.

CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL OF FLORIDA, INC. AT LEAST 48 HOURS PRIOR TO EXCAVATION 1-800-432-4770

ORIGINAL SET: 01/23/2023  
 REVISIONS:  
 1 12/22/2023 REVISED PER OWNER'S COMMENT  
 2 12/22/2023 REVISED PER OWNER'S COMMENT  
 3 12/22/2023 REVISED PER OWNER'S COMMENT

**NATIVE**  
 engineering, p.c.  
 LANG O' JAMES, P.E. 34439  
 TAMPA, FL 33639  
 (813) 536-2539

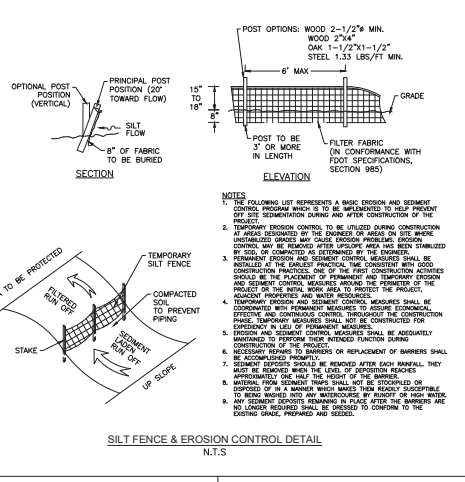
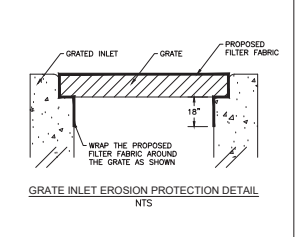
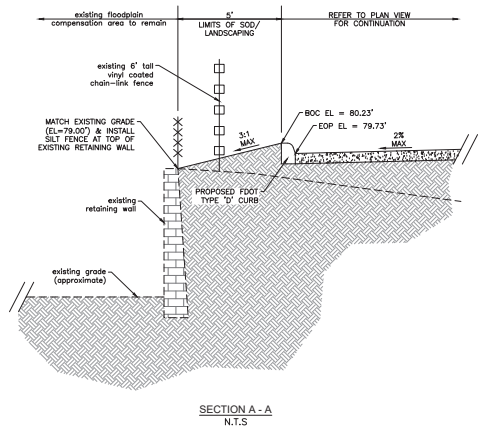
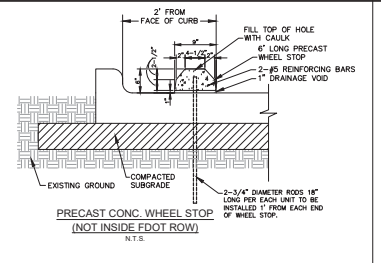
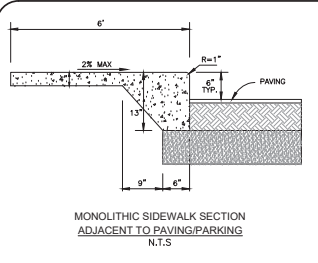
FLORIDA

**MAJOR SITE PLAN FOR CONVENIENCE STORE @ US HWY 441 & SE 147TH PLACE**  
 FOR  
**AMPRO ENTERPRISES SUMMERFIELD LLC**  
 4201 W. CYPRESS STREET, TAMPA, FL 33607  
 MARION COUNTY

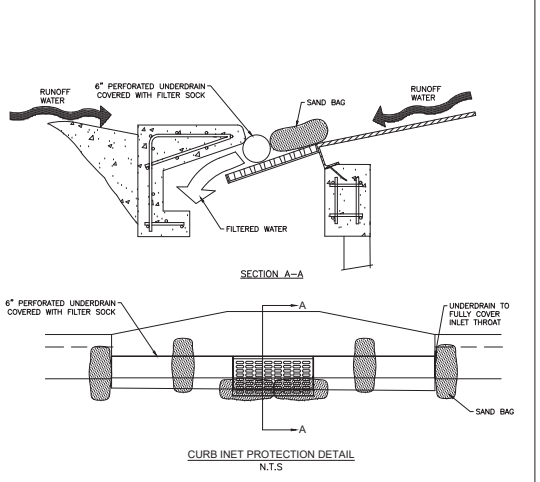
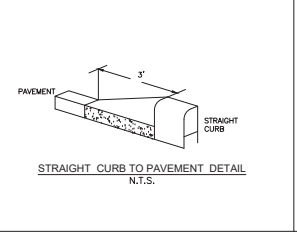
**UTILITY PLAN**

SHEET NUMBER  
**C8.0**  
 S. I. H.  
 16-17-23

C:\SHARED\_DRAWINGS\AMPROP\PROJECTS\12101220 - 441 & 147th CONVENIENCE STORE\DRAWINGS\CD-0-C110 CROSS SECTIONS & DETAILS SHEETDWG - 6/15/2023 3:53 PM



- NOTES**
- THE FOLLOWING LIST REPRESENTS A BASIC DESIGN AND SEDIMENT CONTROL PROGRAM WHICH IS TO BE IMPLEMENTED TO HELP PREVENT OFF SITE SEDIMENTATION DURING AND AFTER CONSTRUCTION OF THE PROJECT.
  - TEMPORARY EROSION CONTROL TO BE UTILIZED DURING CONSTRUCTION AT AREAS INDICATED BY THE LIMITS OF SOO/ LANDSCAPING UNSTABILIZED GRADES MAY CAUSE EROSION PROBLEMS. EROSION CONTROL MAY BE REQUIRED WATER UPSTREAM AREAS AND BEYOND ESTABLISHED BY SOO, OR COMPLETED AS DETERMINED BY THE ENGINEER.
  - PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AT THE LIMITED PHASES. BE CONSISTENT WITH GOOD CONSTRUCTION PRACTICES. ONE OF THE FIRST CONSTRUCTION ACTIVITIES SHOULD BE THE PLACEMENT OF PERMANENT AND TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES BEYOND THE PERIMETER OF THE PROJECT OR THE LIMITED WORK AREA TO PROTECT THE PROJECT AND ADJACENT PROPERTIES AND WATER RESOURCES.
  - TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSIDERED WITH PERMANENT MEASURES TO AVOID ECONOMIC, ESTHETIC AND ENVIRONMENTAL CONCERN THROUGHOUT THE CONSTRUCTION PHASE. TEMPORARY MEASURES SHALL NOT BE CONSTRUCTED FOR EXISTENCE AT LEAST OF PERMANENT MEASURES.
  - EROSION AND SEDIMENT CONTROL MEASURES SHALL BE ADEQUATELY MAINTAINED TO PERFORM THEIR INTENDED FUNCTION DURING CONSTRUCTION OF THE PROJECT.
  - NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BARRIERS SHALL BE ACCOMPLISHED PROMPTLY.
  - SEDIMENT EXPOSURE SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WITHIN THE LIMITS OF PROTECTION BARRIERS APPROXIMATELY THE HALF THE POINT OF THE BARRIERS.
  - MATERIAL FROM SEDIMENT TRAPS SHALL NOT BE STOCKPILED OR DISPOSED OF IN A MANNER WHICH MAKES THEM SUSCEPTIBLE TO WIND BLOWING AND RUN WATERWAYS BY RUNOFF OF RAIN WATER. ANY SEDIMENT EXPOSURE REMAINING IN PLACE AFTER THE BARRIERS ARE NO LONGER REQUIRED SHALL BE GRADUATED TO CONFORM TO THE EXISTING GRADE. PREPARED AND SEEDS.



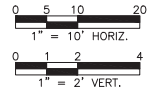
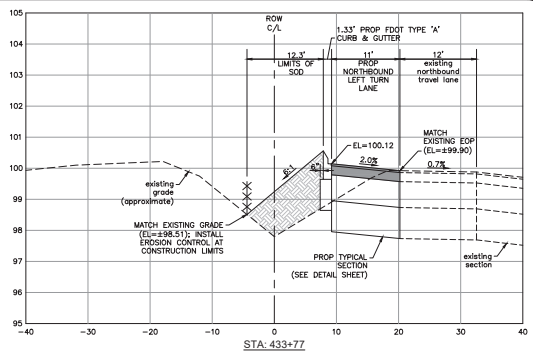
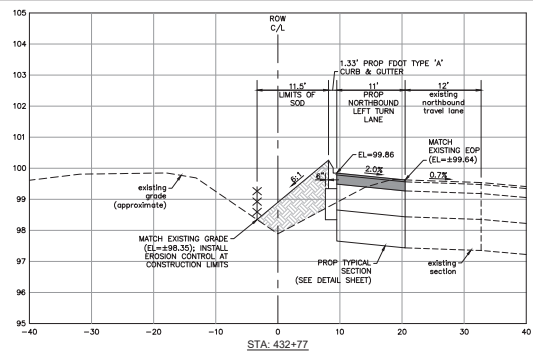
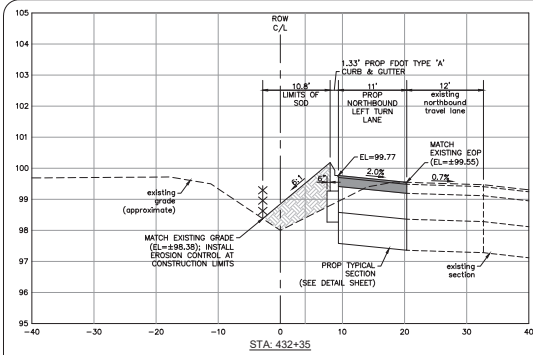
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NO.	DATE	DESCRIPTION																										

CONTRACTOR SHALL CALL  
SUNSHINE STATE ONE CALL OF FLORIDA, INC.  
AT LEAST 48 HOURS PRIOR TO EXCAVATION  
1-800-432-4770

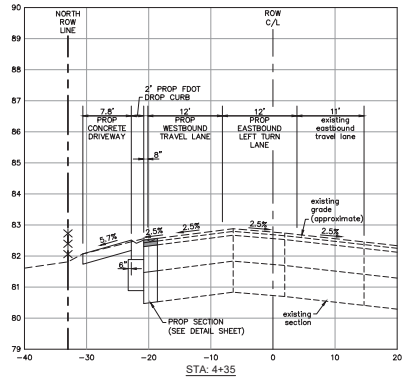
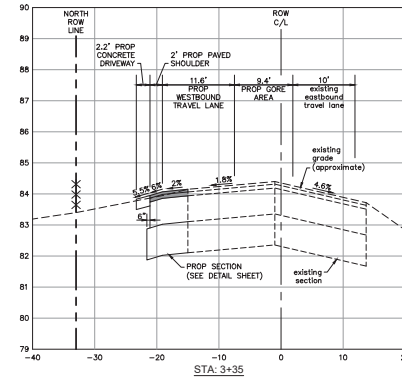
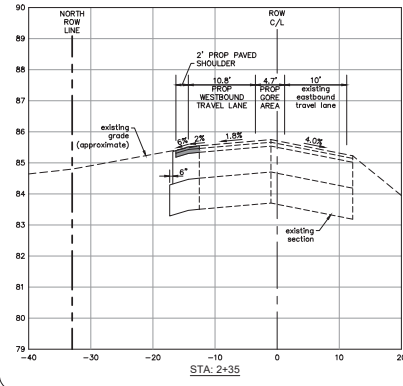
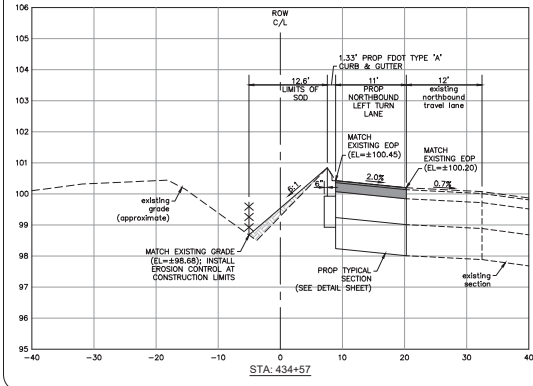
JOSHUA S. BRADLEY  
State of Florida,  
Professional Engineer,  
License No. 00036

THIS SET OF BLUE PRINTS HAS BEEN PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA. I AM NOT PROVIDING CONTRACT ADMINISTRATION SERVICES.

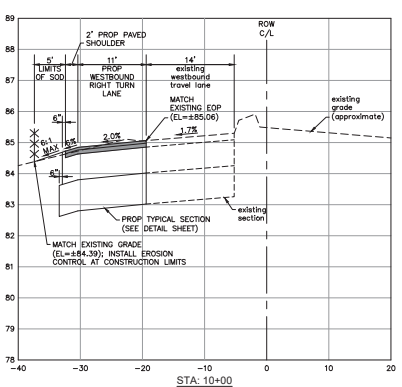
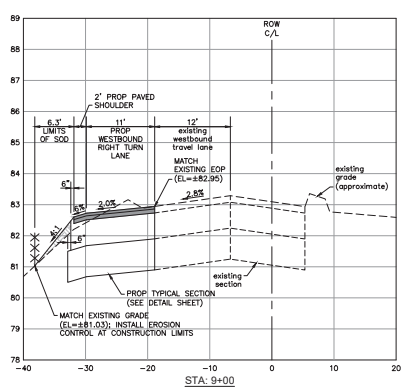
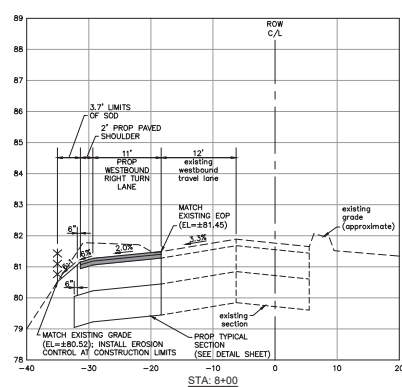
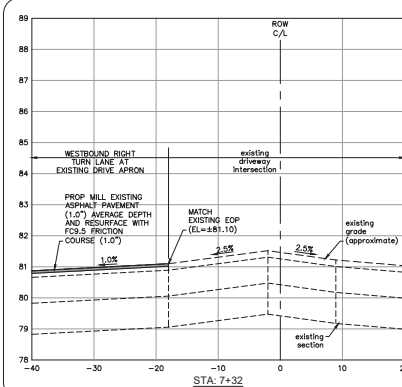
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US HWY 441 NORTHBOUND LEFT TURN LANE SECTIONS



147TH PLACE EASTBOUND LEFT TURN LANE SECTIONS



147TH PLACE WESTBOUND RIGHT TURN LANE SECTIONS

CONTRACTOR SHALL CALL  
SUNSHINE STATE ONE  
CALL OF FLORIDA, INC.  
AT LEAST 48 HOURS  
PRIOR TO EXCAVATION  
1-800-432-4770

NO.	DATE	DESCRIPTION
1	12/27/23	ISSUED FOR CONSTRUCTION
2	02/27/24	ISSUED FOR CONSTRUCTION
3	03/27/24	ISSUED FOR CONSTRUCTION

ORIGINAL SET: 01423  
REVISIONS:  
NATIVE  
engineers & architects  
12075 W. BOYD AVE. SUITE 200  
LAKELAND, FL 34601  
(813) 536-2539

FLORIDA  
NO. DATE

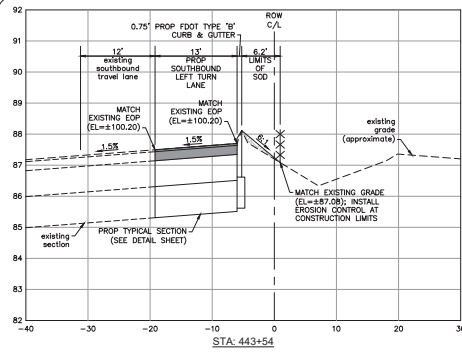
MAJOR SITE PLAN FOR CONVENIENCE  
STORE @ US HWY 441 & SE 147TH PLACE  
FOR  
AMPROP ENTERPRISES SUMMERFIELD LLC  
4201 W. CYPRESS STREET, TAMPA, FL 33607  
MARION COUNTY

OFF-SITE CROSS  
SECTIONS

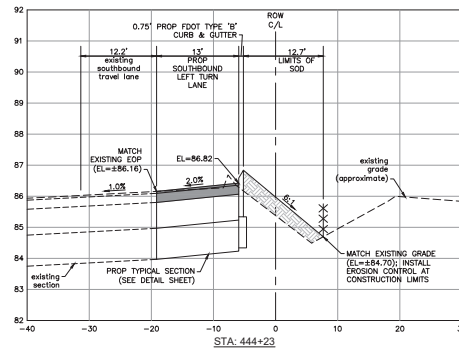
JOSHUA S. BRADLEY  
State of Florida  
Professional Engineer  
License No. 00036  
This site was not visually  
inspected and the design  
thereof was prepared by  
others. The design is based  
on the information provided  
and does not constitute a  
warranty of any kind.

SHEET NUMBER  
C9.0  
S.1.R.  
16-17-23

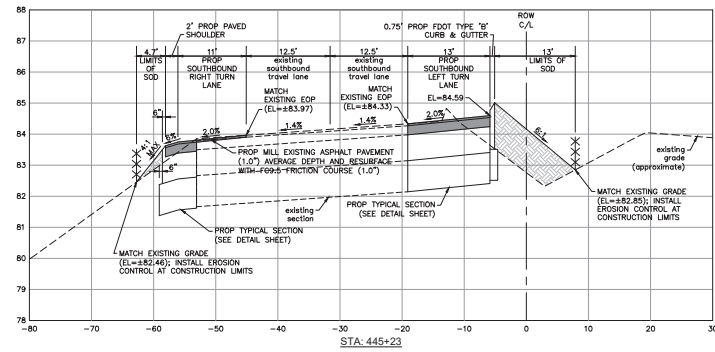
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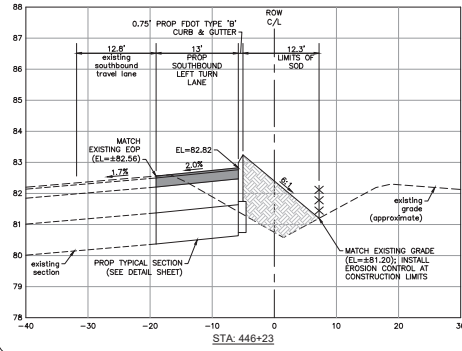
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STA: 444+23

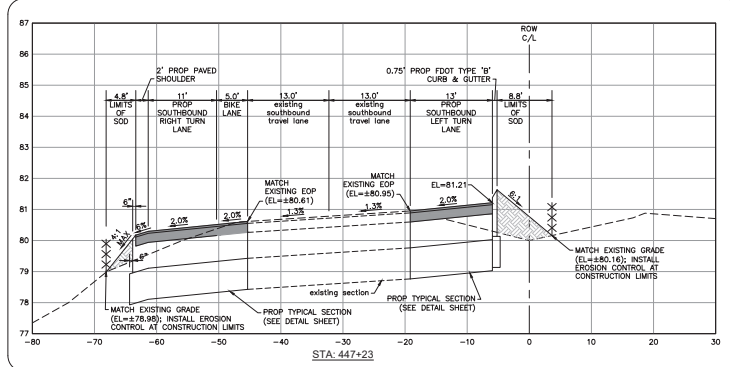


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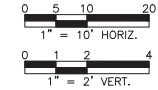
STA: 446+23

US HWY 441 SOUTHBOUND LEFT TURN LANE SECTIONS

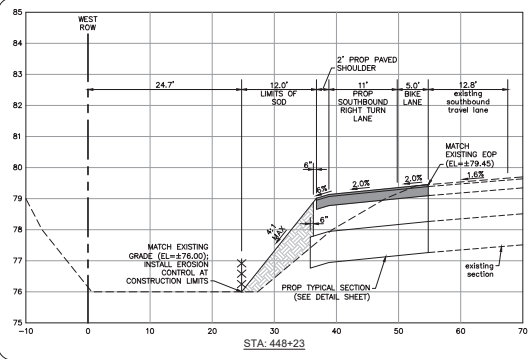


STA: 447+23

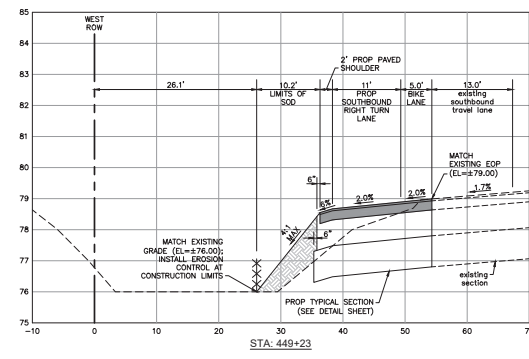
US HWY 441 SOUTHBOUND LEFT & RIGHT TURN LANE SECTIONS



CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL OF FLORIDA, INC. AT LEAST 48 HOURS PRIOR TO EXCAVATION 1-800-432-4770

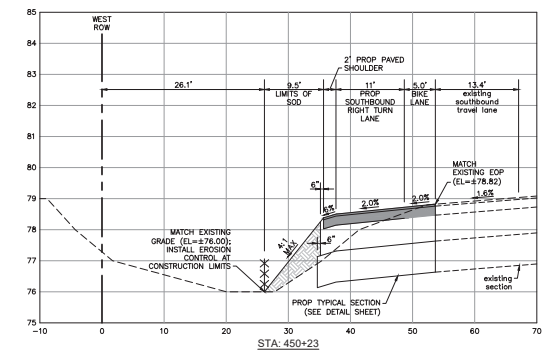


STA: 448+23



STA: 449+23

US HWY 441 SOUTHBOUND RIGHT TURN LANE SECTIONS



STA: 450+23

ORIGINAL SET: 04/23 REVISIONS:

1	12/22/23	ISSUED FOR CONSTRUCTION
2	12/22/23	ISSUED FOR CONSTRUCTION
3	12/22/23	ISSUED FOR CONSTRUCTION

NO. DATE DESCRIPTION

**NATIVE**  
Engineering, Inc.  
15075 W. US HWY 441, SUITE 200  
LAKES, FL 34469  
(813) 536-2539

MAJOR SITE PLAN FOR CONVENIENCE STORE @ US HWY 441 & SE 147TH PLACE FOR AMPROP ENTERPRISES SUMMERFIELD LLC

4201 W. CYPRESS STREET, TAMPA, FL 33607

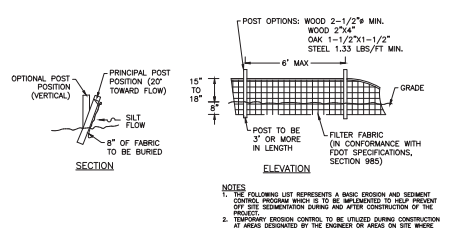
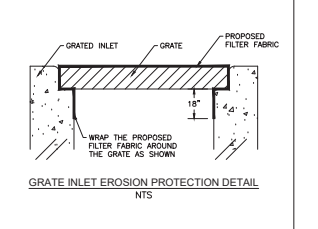
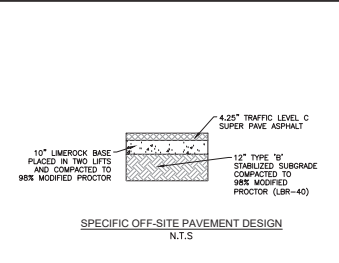
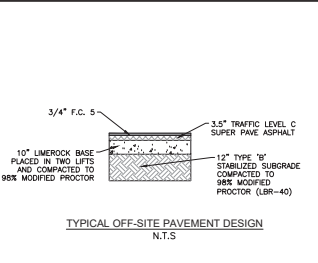
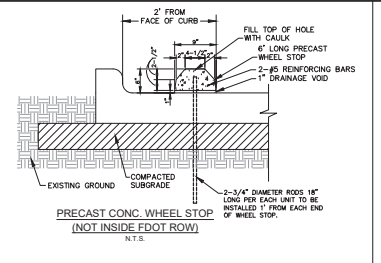
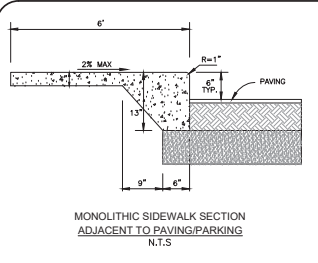
OFF-SITE CROSS SECTIONS

JOSHUA S. BRADLEY  
State of Florida  
Professional Engineer  
License No. 60206

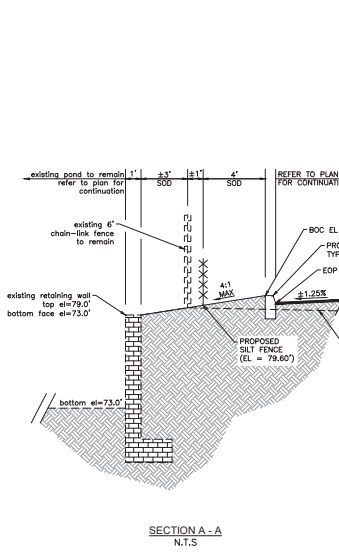
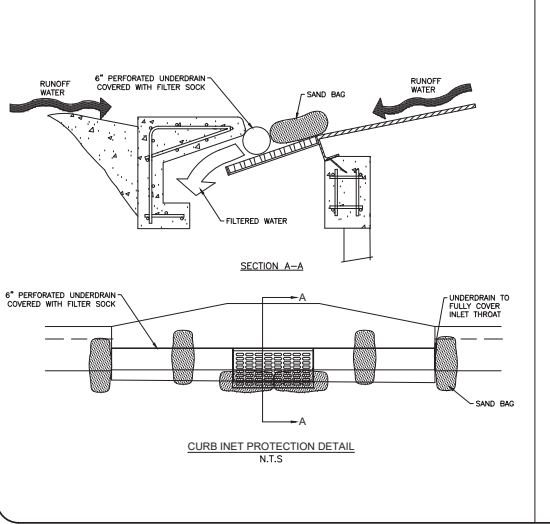
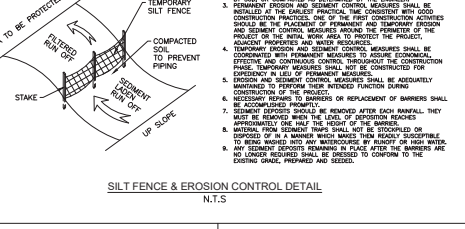
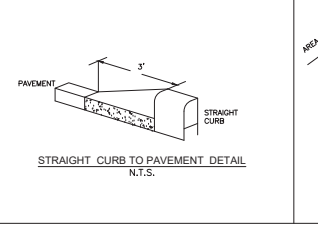
THIS SET OF BLUE PRINTS HAS BEEN PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA. I AM NOT PROVIDING CONTRACT ADMINISTRATION SERVICES.

SHEET NUMBER  
**C9.1**  
S-1-R  
16-17-23

C:\SHARED\_DRAWINGS\AMPROP\PROJECTS\121012.00 - 441 & 147th CONVENIENCE STORE\DRAWINGS\CD-0-C1-14.0 CROSS SECTIONS & DETAILS SHEETDWG - 12/22/2023 3:07 PM



- NOTES**
- THE FOLLOWING LIST REPRESENTS A BASIC DESIGN AND SEDIMENT CONTROL PROGRAM WHICH IS TO BE IMPLEMENTED TO HELP PREVENT OFF SITE SEDIMENTATION DURING AND AFTER CONSTRUCTION OF THE PROJECT.
  - TEMPORARY EROSION CONTROL TO BE UTILIZED DURING CONSTRUCTION AT AREAS INDICATED BY THE LOCATION OF AREAS ON THE SHEET. UNSTABILIZED GRADES MAY CAUSE EROSION PROBLEMS. EROSION CONTROL MAY BE REQUIRED WATER UPSTREAM AREAS AND BEYOND STABILIZED BY SOIL, OR COMPLETED AS DETERMINED BY THE ENGINEER.
  - PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AT THE LOCATION OF PERMANENT AREAS AND CONSTRUCTION PRACTICES. ONE OF THE FIRST CONSTRUCTION ACTIVITIES SHOULD BE THE PLACEMENT OF PERMANENT AND TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES. THE PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE PERMITTED BY THE ADEQUATE PROTECTIVE WORK AREA TO PROTECT THE PROJECT.
  - TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONFORMED WITH PERMANENT MEASURES TO AVOID ECONOMIC, ESTHETIC, AND ENVIRONMENTAL DAMAGE THROUGHOUT THE CONSTRUCTION PHASE. TEMPORARY MEASURES SHALL NOT BE CONSTRUCTED FOR EXISTING AT LEAST OF PERMANENT MEASURES.
  - EROSION AND SEDIMENT CONTROL MEASURES SHALL BE ADEQUATELY MAINTAINED TO PERFORM THEIR INTENDED FUNCTION DURING CONSTRUCTION OF THE PROJECT.
  - NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BARRIERS SHALL BE ACCOMPLISHED IMMEDIATELY.
  - SEDIMENT DEPOSIT SHOULD BE REMOVED AFTER EACH RAINFALL. THEY SHOULD BE REMOVED WHEN THE LEVEL OF SEDIMENT BARRIERS APPROACHES THE FACE OF THE BARRIER.
  - MATERIAL FROM SEDIMENT TRAPS SHALL NOT BE STOCKPILED OR DISPOSED OF IN A MANNER WHICH MIGHT BE HEAVILY SUSCEPTIBLE TO WIND EROSION AND MAY INTERFERE BY HEAVY OR HIGH WINDS. ANY SEDIMENT DEPOSIT REMAINING IN PLACE AFTER THE BARRIERS ARE NO LONGER REQUIRED SHALL BE GRADUATED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.



CONTRACTOR SHALL CALL  
 SUNSHINE STATE ONE CALL OF FLORIDA, INC.  
 AT LEAST 48 HOURS PRIOR TO EXCAVATION  
 S-1-R  
 1-888-452-4770

ORIGINAL SET: 01/4/23 REVISIONS:	NO.   DATE   DESCRIPTION	
1	12/22/23	ISSUED FOR CONSTRUCTION
2	12/22/23	ISSUED FOR CONSTRUCTION
3	12/22/23	ISSUED FOR CONSTRUCTION
4	12/22/23	ISSUED FOR CONSTRUCTION
5	12/22/23	ISSUED FOR CONSTRUCTION
6	12/22/23	ISSUED FOR CONSTRUCTION
7	12/22/23	ISSUED FOR CONSTRUCTION
8	12/22/23	ISSUED FOR CONSTRUCTION
9	12/22/23	ISSUED FOR CONSTRUCTION
10	12/22/23	ISSUED FOR CONSTRUCTION
NO.	DATE	DESCRIPTION

**NATIVE**  
 Engineering & Planning  
 4201 W. Cypress Street, Tampa, FL 33607  
 (813) 556-2559

MAJOR SITE PLAN FOR CONVENIENCE  
 STORE @ US HWY 441 & SE 147TH PLACE  
 FOR  
 AMPROP ENTERPRISES SUMMERFIELD LLC  
 MARION COUNTY  
 4201 W. CYPRESS STREET, TAMPA, FL 33607

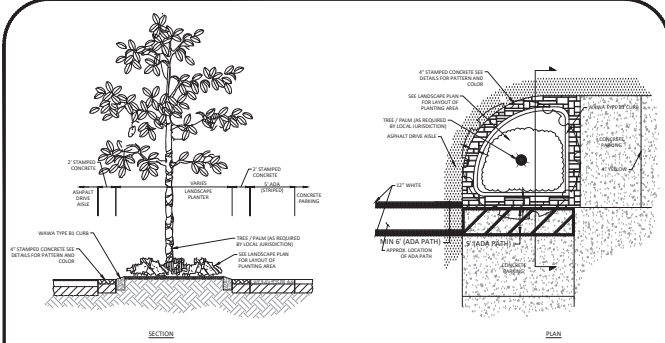
JOSHUA S. BRADLEY  
 State of Florida  
 Professional Engineer  
 License No. 00036

THIS SET OF BLUE PRINTS  
 HAS BEEN PREPARED BY  
 PROFESSIONAL ENGINEER  
 JOSHUA S. BRADLEY AND  
 THE ENGINEER HAS  
 REVIEWED AND APPROVED  
 THE SAME IN ACCORDANCE  
 WITH THE REQUIREMENTS  
 OF THE FLORIDA  
 STATUTES.

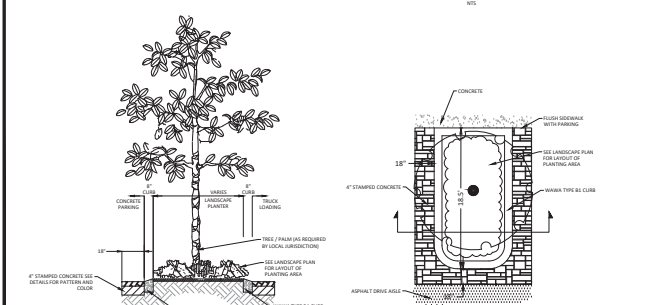
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**C10.0**  
 S-1-R  
 16-17-23

© SHARED, DRAWN: C:\PROJECTS\13012120 - 441 & 147H, CONVENIENCE STORE\DRAWINGS\CD-C110, CROSS SECTIONS & DETAILS, SHEETINGS - 6/15/2023, 3:53 PM

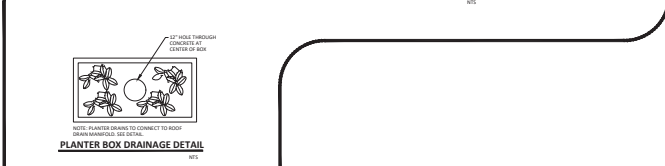
### WAWA PLANTER DETAILS



CORNER ISLAND LANDSCAPE DETAIL

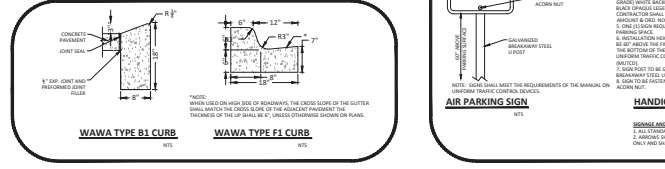


PARKING ISLAND LANDSCAPE DETAIL



PLANTER BOX DRAINAGE DETAIL

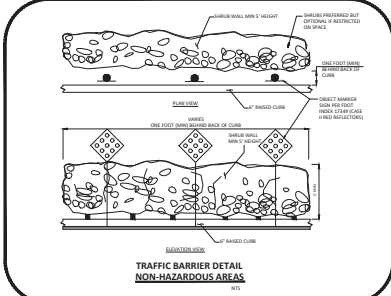
### WAWA CURB DETAILS



WAWA TYPE B1 CURB

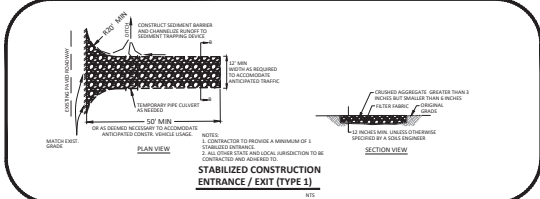
WAWA TYPE F1 CURB

### TRAFFIC CONTROL DETAILS



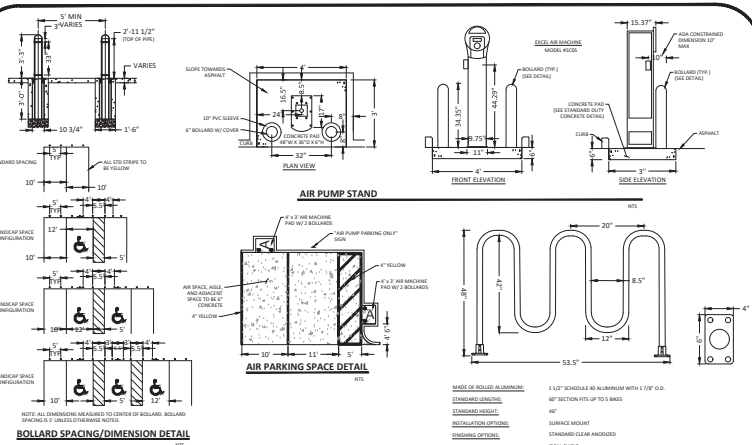
TRAFFIC BARRIER AREA NON-HAZARDOUS AREAS

### EROSION CONTROL DETAILS



STABILIZED CONSTRUCTION ENTRANCE / EXIT (TYPE 2)

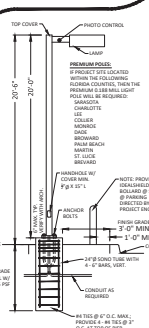
### WAWA GENERAL DETAILS



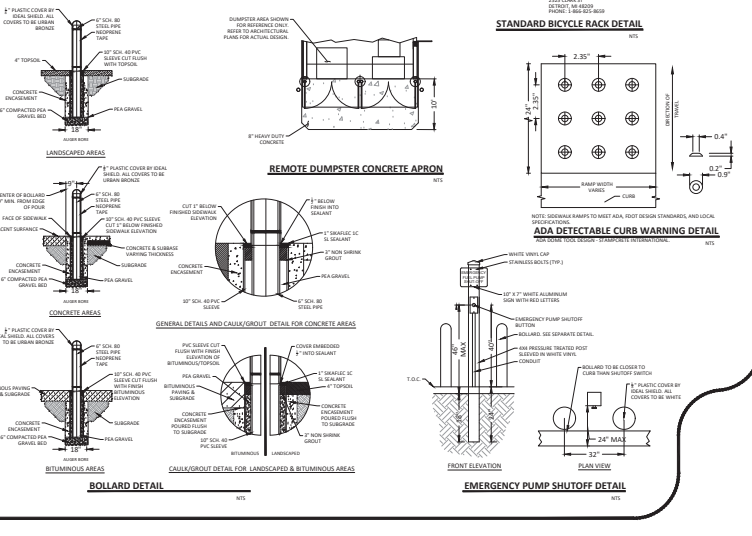
AIR PUMP STAND

AIR PARKING SPACE DETAIL

BOLLARD SPACING/DIMENSION DETAIL



LIGHT POLE WITH STANDARD ANCHORING DETAIL

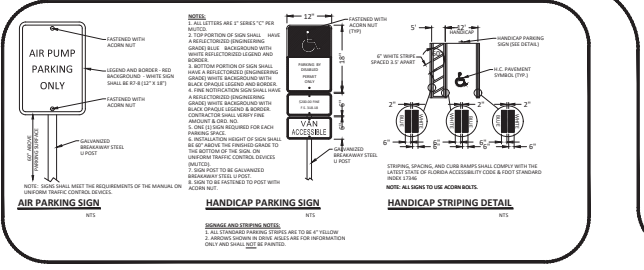


REMOTE DUMPSTER CONCRETE APRON

STANDARD BICYCLE RACK DETAIL

EMERGENCY PUMP SHUTOFF DETAIL

### WAWA SIGNAGE/STRIPING DETAILS

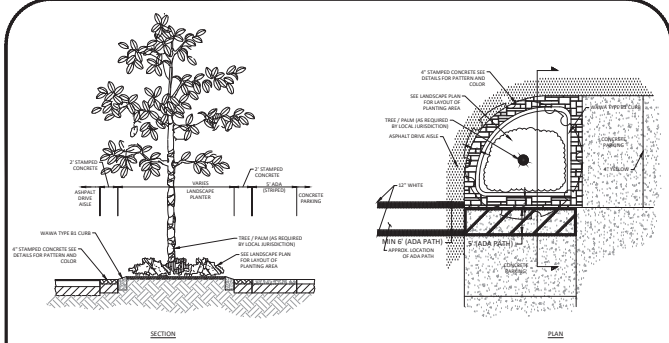


AIR PUMP PARKING ONLY

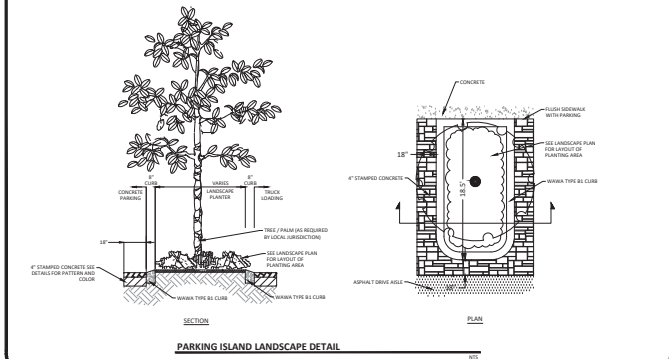
HANDICAP PARKING SIGN

HANDICAP STRIPING DETAIL

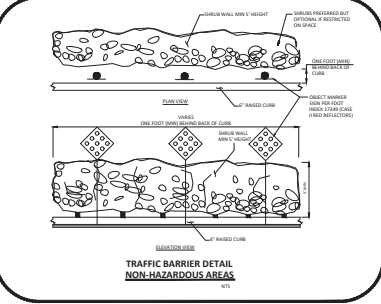
### WAWA PLANTER DETAILS



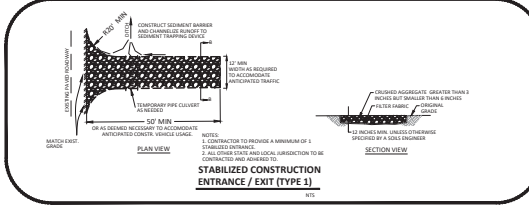
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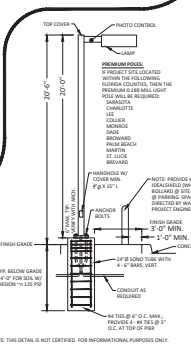
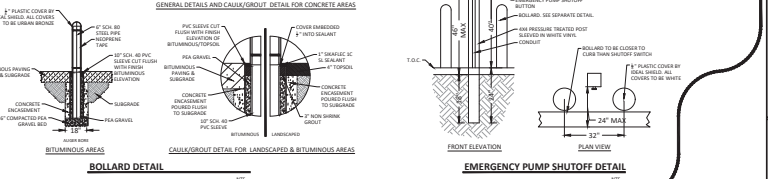
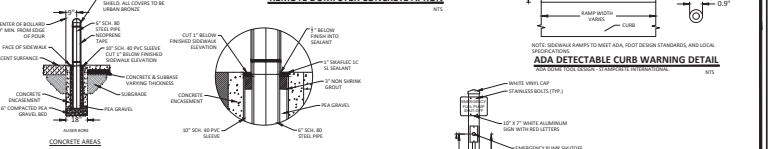
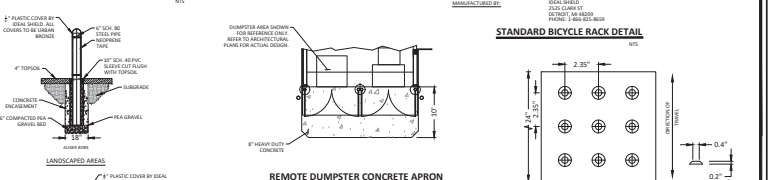
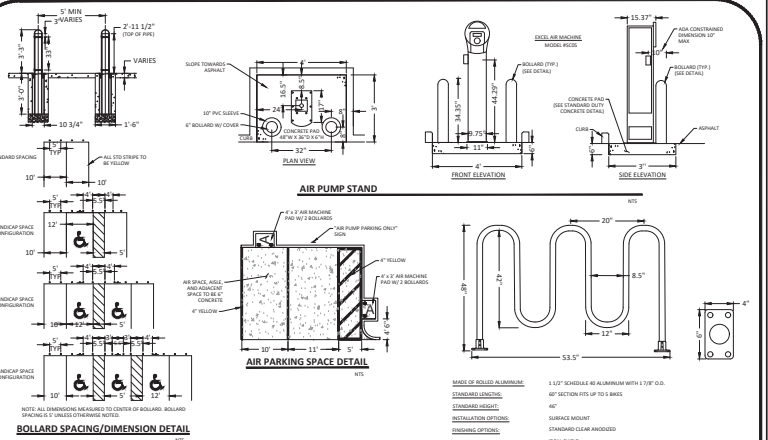
### TRAFFIC CONTROL DETAILS



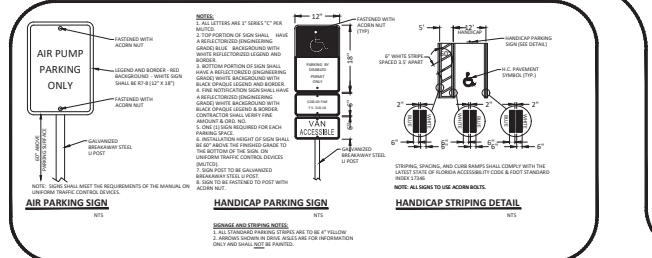
### EROSION CONTROL DETAILS



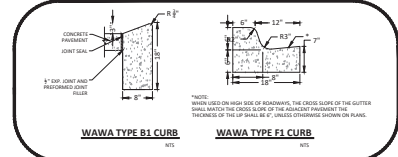
### WAWA GENERAL DETAILS



### WAWA SIGNAGE/STRIPING DETAILS



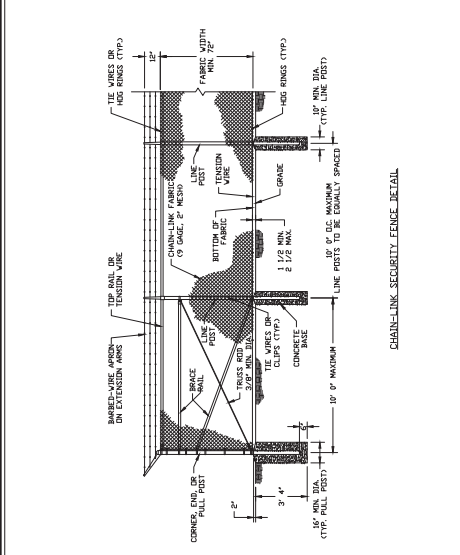
### WAWA CURB DETAILS



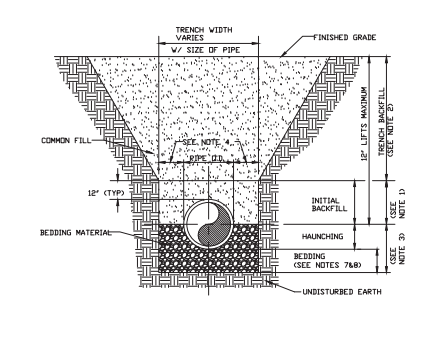




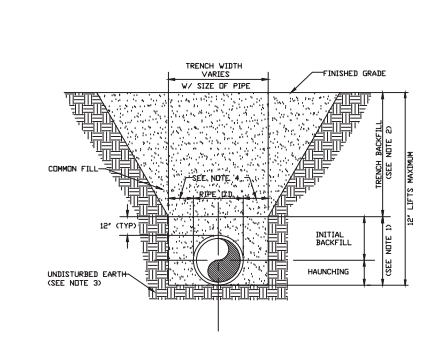
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CHAIN-LINK SECURITY FENCE DETAIL



- NOTES:
- INITIAL BACKFILL, COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-99.
  - TRENCH BACKFILL, COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-99.
  - TYPE A BEDDING MATERIAL SHALL CONFORM TO FDOT NO. 57 AGGREGATE.
  - 1 1/2" MAX. (2" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX. (2" MIN.) FOR PIPE DIAMETER 24" AND LARGER.
  - WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
  - ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
  - BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER UP TO 12" AND 6" MINIMUM FOR PIPE DIAMETER 12" AND LARGER.
  - DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE UTILITIES SHALL DETERMINE IN THE FIELD DURING CONSTRUCTION.
  - FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN MARION COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.



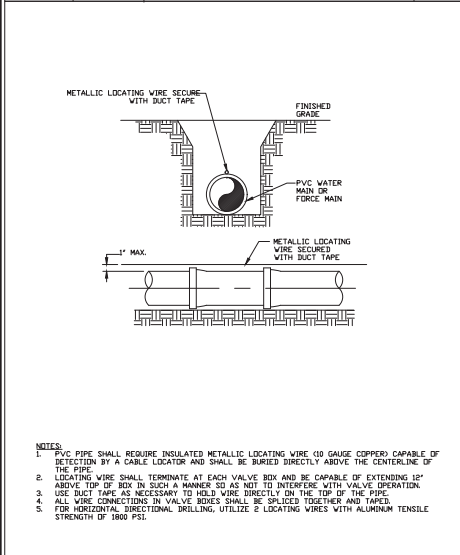
- NOTES:
- INITIAL BACKFILL AND HAUNCHING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A.
  - TRENCH BACKFILL, COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-99.
  - PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A.
  - PIPE BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY MNU.
  - 1 1/2" MAX. (2" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX. (2" MIN.) FOR PIPE DIAMETER 24" AND LARGER.
  - WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
  - FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN MARION COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.

	MCBCC ADOPTED 10/22/2013	7.3.2		MCBCC EFFECTIVE 04/27/2018 REVISION # 1	TYPE 'A' BEDDING AND TRENCHING	7.3.2
	REVISION #	UT 100				UT 102

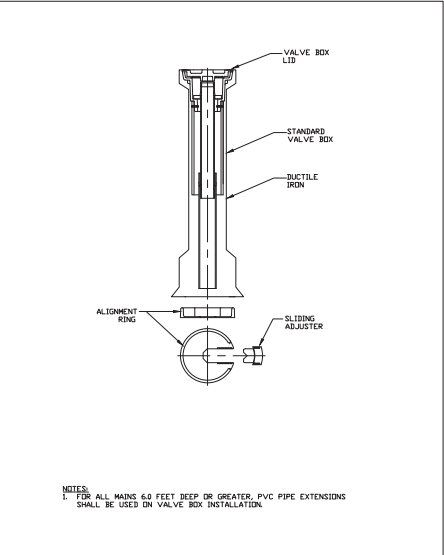
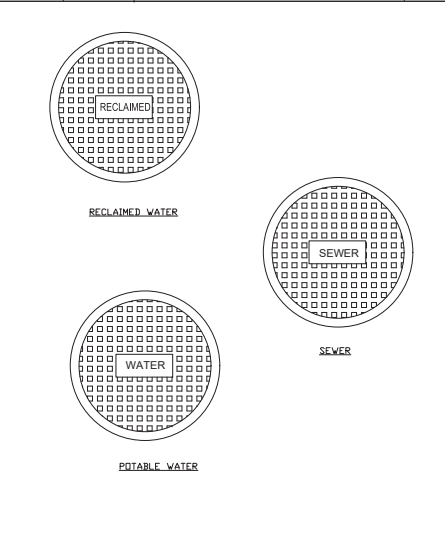
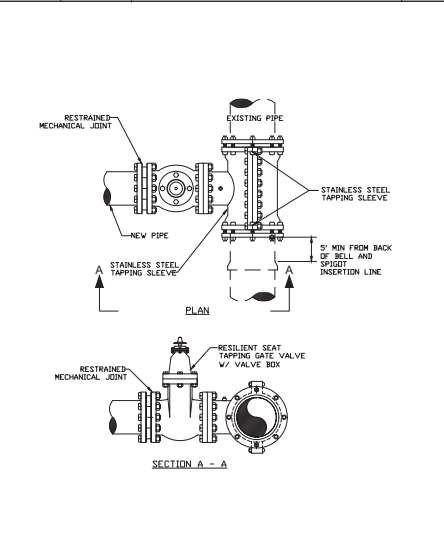
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	REVISION #	UT 100				UT 103

	MCBCC ADOPTED 10/22/2013	7.3.2		MCBCC EFFECTIVE 04/27/2018 REVISION # 1	TYPE 'A' BEDDING AND TRENCHING	7.3.2
	REVISION #	UT 100				UT 102

	MCBCC ADOPTED 10/22/2013	7.3.2		MCBCC EFFECTIVE 04/27/2018 REVISION # 1	TYPE 'B' BEDDING AND TRENCHING	7.3.2
	REVISION #	UT 100				UT 103



- NOTES:
- PVC PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (10 GAUGE COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE BURIED DIRECTLY ABOVE THE CENTERLINE OF THE PIPE.
  - LOCATING WIRE SHALL TERMINATE AT EACH VALVE BOX AND BE CAPABLE OF EXTENDING 12" ABOVE TOP OF BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION.
  - USE DUCT TAPE AS NECESSARY TO HOLD WIRE DIRECTLY ON THE TOP OF THE PIPE.
  - ALL WIRE CONNECTIONS IN VALVE BOXES SHALL BE SPLICED TOGETHER AND TAPED.
  - FOR HORIZONTAL, DIRECTIONAL, DRILLING, UTILIZE 2 LOCATING WIRES WITH ALUMINUM TENSILE STRENGTH OF 1800 PSI.



- NOTES:
- FOR ALL MAINS 4.0 FEET DEEP OR GREATER, PVC PIPE EXTENSIONS SHALL BE USED ON VALVE BOX INSTALLATION.

	MCBCC EFFECTIVE 04/27/2018	7.3.2		MCBCC EFFECTIVE 10/12/2013 REVISION # NA	M/J TAPPING SLEEVE AND GATE VALVE ASSEMBLY FOR WATER AND RECLAIMED WATER	7.3.2
	REVISION # 1	UT 104				UT 108

	MCBCC EFFECTIVE 10/12/2013	7.3.2		MCBCC EFFECTIVE 10/12/2013 REVISION # NA	TYPICAL VALVE BOX COVER	7.3.2
	REVISION # 1	UT 104				UT 110

	MCBCC EFFECTIVE 10/12/2013	7.3.2		MCBCC EFFECTIVE 04/27/2018 REVISION # 1	SEALED VALVE BOX, ADJUSTABLE	7.3.2
	REVISION # 1	UT 104				UT 111

	MCBCC EFFECTIVE 04/27/2018	7.3.2		MCBCC EFFECTIVE 04/27/2018 REVISION # 1	SEALED VALVE BOX, ADJUSTABLE	7.3.2
	REVISION # 1	UT 104				UT 111

ORIGINAL SET: 01/23  
 REVISIONS:

NO.	DATE	DESCRIPTION

**NATIVE**  
 engineering, llc  
 4000 W. CYPRUS STREET, TAMPA, FL 33607  
 (813) 556-2559

MAJOR SITE PLAN FOR CONVENIENCE STORE @ US HWY 441 & SE 147TH PLACE FOR AMPROP ENTERPRISES SUMMERFIELD LLC  
 MARION COUNTY 4201 W. CYPRUS STREET, TAMPA, FL 33607

UTILITY DETAILS SHEET

JOSHUA S. BRADLEY  
 State of Florida,  
 Professional Engineer,  
 License No. 80236

THIS SET HAS BEEN DIGITALLY REPRODUCED FROM THE ORIGINAL DRAWING. IT IS THE USER'S RESPONSIBILITY TO VERIFY THE ACCURACY OF THE ORIGINAL DRAWING. THE USER SHALL BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS.

SHEET NUMBER  
**C12.0**  
 8-1.8  
 16-11-23

0:\\$HARD\$DRIVES\CLIENTS\AMPROP\PROJECTS\12101220 - 441 & 147th CONVENIENCE STORE\DRAWINGS\CD-0-C140\_CROSS SECTIONS & DETAILS SHEETING - 12/22/2023\_307.PM

<p style="text-align: center;"><b>CHAIN LINK SECURITY FENCE DETAIL</b></p>	<p style="text-align: center;"><b>BEDDING AND TRENCHING 1</b></p>	<p style="text-align: center;"><b>BEDDING AND TRENCHING 2</b></p>
<p>7.3.2 UT 100</p>	<p>7.3.2 UT 102</p>	<p>7.3.2 UT 103</p>
<p style="text-align: center;"><b>PIPE LOCATING WIRE AND DETECTABLE TAPE</b></p>	<p style="text-align: center;"><b>TAPPING SLEEVE AND GATE VALVE ASSEMBLY</b></p>	<p style="text-align: center;"><b>TYPICAL VALVE BOX COVER</b></p>
<p>7.3.2 UT 104</p>	<p>7.3.2 UT 108</p>	<p>7.3.2 UT 110</p>
<p style="text-align: center;"><b>CHAIN LINK SECURITY FENCE DETAIL</b></p>	<p>7.3.2 UT 104</p>	<p style="text-align: center;"><b>SEALED VALVE BOX, ADJUSTABLE</b></p>
<p>7.3.2 UT 111</p>	<p>7.3.2 UT 111</p>	<p>7.3.2 UT 111</p>

ORIGINAL SET: 04/23  
REVISIONS:

1	12/22/23	REVISED FOR CONSTRUCTION COMMENTS
2	12/22/23	REVISED FOR CONSTRUCTION COMMENTS
3	12/22/23	REVISED FOR CONSTRUCTION COMMENTS
4	12/22/23	REVISED FOR CONSTRUCTION COMMENTS
5	12/22/23	REVISED FOR CONSTRUCTION COMMENTS
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7	12/22/23	REVISED FOR CONSTRUCTION COMMENTS
8	12/22/23	REVISED FOR CONSTRUCTION COMMENTS
9	12/22/23	REVISED FOR CONSTRUCTION COMMENTS
10	12/22/23	REVISED FOR CONSTRUCTION COMMENTS
NO.	DATE	DESCRIPTION

**NATIVE**  
Engineering, Inc.  
12075 W. BOYD AVE. SUITE 200  
LAKELAND, FL 34601  
(813) 536-2559

**MAJOR SITE PLAN FOR CONVENIENCE STORE @ US HWY 441 & SE 147TH PLACE**  
FOR  
**AMPROP ENTERPRISES SUMMERFIELD LLC**

MAJOR SITE PLAN FOR CONVENIENCE STORE @ US HWY 441 & SE 147TH PLACE  
FOR  
AMPROP ENTERPRISES SUMMERFIELD LLC

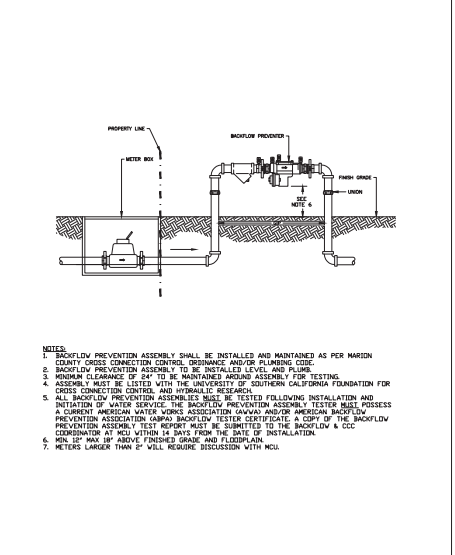
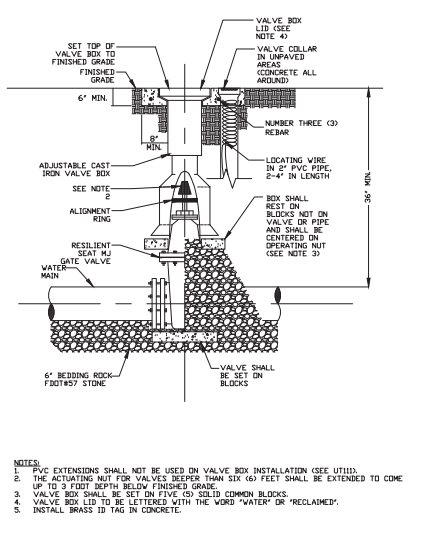
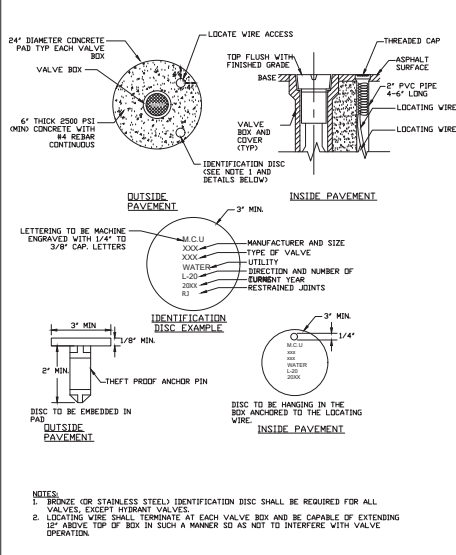
FLORIDA  
MARION COUNTY  
4201 W. CYPRESS STREET, TAMPA, FL 33607

**UTILITY DETAILS SHEET**

JOSHUA S. BRADLEY  
State of Florida,  
Professional Engineer,  
License No. 60336

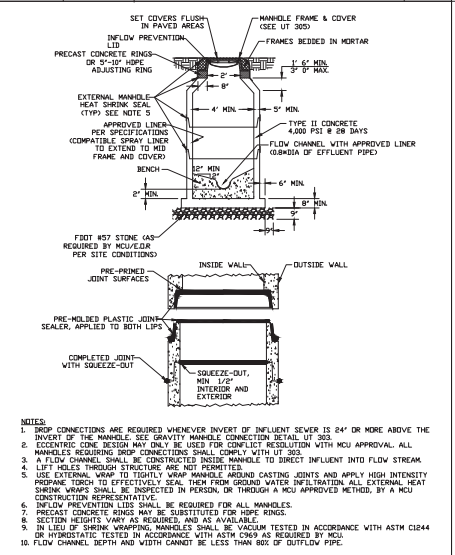
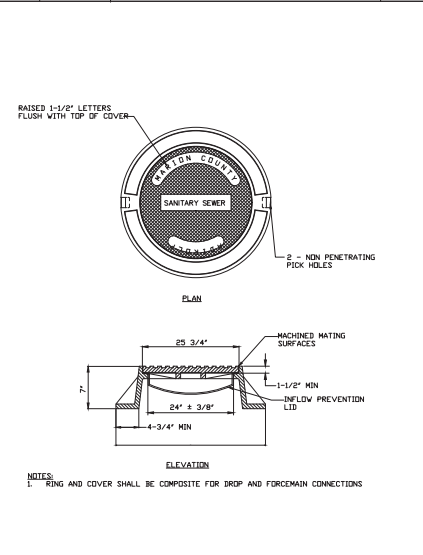
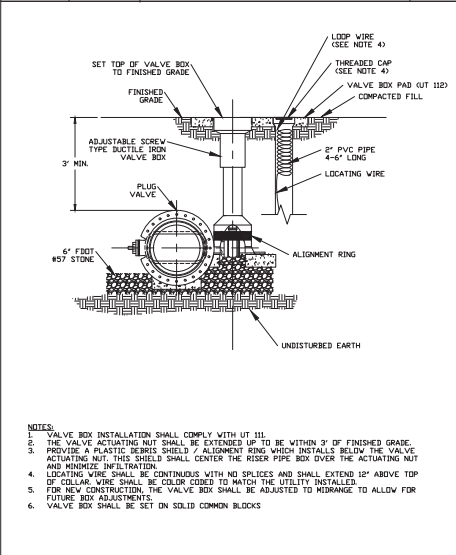
SHEET NUMBER  
**C13.0**  
S-1.R  
16-17-23

0:\SHARED\DRINKS\CLIENTS\AMPROP\PROJECTS\12101220 - 441 & 14TH\CONVENIENCE STORE\DRAWINGS\CD-0140\_CROSS SECTIONS & DETAILS\_SHEETING - 12/22/2023\_307.PLM



	MCBC EFFECTIVE 04/13/2023	7.3.2		GATE VALVE WATER AND RECLAIMED MAINS	7.3.2
	REVISION # 1	UT 112			UT 204

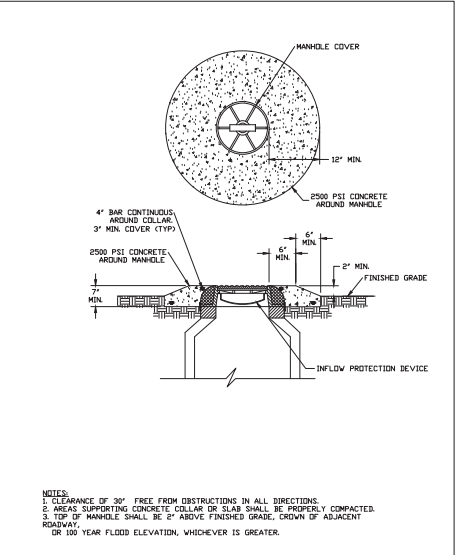
	MCBC EFFECTIVE 04/13/2023	7.3.2		2" AND SMALLER REDUCED PRESSURE AND/OR DOUBLE CHECK BACKFLOW ASSEMBLY	7.3.2
	REVISION # 1	UT 209			UT 209



	MCBC EFFECTIVE 04/13/2023	7.3.2		PLUG VALVE AND BOX	7.3.2
	REVISION # 2	UT 304			UT 304

	MCBC EFFECTIVE 04/13/2023	7.3.2		STANDARD SEWER MANHOLE FRAME AND COVER	7.3.2
	REVISION # 2	UT 305			UT 305

	MCBC EFFECTIVE 04/13/2023	7.3.2		PRECAST CONCRETE MANHOLE	7.3.2
	REVISION # 2	UT 306			UT 306



	MCBC EFFECTIVE 04/13/2023	7.3.2		MANHOLE IN NON-PAVED AREA	7.3.2
	REVISION # 1	UT 309			UT 309

ORIGINAL SET: 04/23  
 REVISIONS:

1	12/22/23	REVISED FOR CD SET & CHECK COMMENTS
2	12/22/23	REVISED FOR CD SET & CHECK COMMENTS
3	12/22/23	REVISED FOR CD SET & CHECK COMMENTS
4	12/22/23	REVISED FOR CD SET & CHECK COMMENTS
5	12/22/23	REVISED FOR CD SET & CHECK COMMENTS
6	12/22/23	REVISED FOR CD SET & CHECK COMMENTS
7	12/22/23	REVISED FOR CD SET & CHECK COMMENTS
8	12/22/23	REVISED FOR CD SET & CHECK COMMENTS
9	12/22/23	REVISED FOR CD SET & CHECK COMMENTS
10	12/22/23	REVISED FOR CD SET & CHECK COMMENTS
NO.	DATE	DESCRIPTION

NATIVE Engineering, Inc.  
 1500 N. W. 10th St., Suite 100  
 Ft. Lauderdale, FL 33304  
 LAND: 57 LAKES, FL 34459  
 (813) 536-2559

MAJOR SITE PLAN FOR CONVENIENCE STORE @ US HWY 441 & SE 147TH PLACE FOR AMPROP ENTERPRISES SUMMERFIELD LLC

UTILITY DETAILS SHEET

4201 W. CYPRESS STREET, TAMPA, FL 33607  
 MARION COUNTY

SHEET NUMBER  
**C14.0**  
 8-T-8  
 16-17-23

JOSHUA S. BRADLEY  
 State of Florida  
 Professional Engineer  
 License No. 60336

THIS SET HAS BEEN DIGITALLY  
 REPRODUCED FROM THE ORIGINAL  
 PAPER. THE ORIGINAL PAPER  
 SHALL BE THE AUTHORITY IN THE  
 EVENT OF A DISCREPANCY  
 BETWEEN THE DIGITALLY  
 REPRODUCED SET AND THE  
 ORIGINAL PAPER.

**SANITARY LIFT STATION CALCULATIONS**

Project Name: US Hwy 441 & SE 147th Place - Gas Station with Convenience Store  
 Revision Date: 23 Aug-23

**I. DESIGN CAPACITY**

Average Daily Flow (ADF): Distribution Location	# Toilets	Flow Rate Per 100 SF (GPD)	ADF
Service Station/Convenience Store	5	325	1625

Total Average Daily Flow in Gallons Per Day (GPD) = 1,625

B. Peak Hour Flow  
 Peak Factor (PF) = 4  
 Peak Hour Flow = (ADF x PF)/1440

Peak Hour Flow (GPM) = 4.5  
 Operating Point (GPM) = 28 (gpm) @ 55.0 (ft) (High)  
 37.5 (gpm) @ 52.5 (ft) (Low)

Size of Force Main (in.) = 2  
 Velocity at Operating Point (FPS) = 3.7  
 (Min. Velocity in Force Main = 2.0 FPS)

**II. WETWELL DESIGN**

A. Design Criteria:  
 \* Max pump motor cycle rate = 6 starts per hour  
 \* Max detention time and min flow = 30 minutes

B. Pump Control Level Settings:

Wetwell Volume Required (V) Between Lead Pump Start and Pump Shut-off Level:  
 $V = (\text{Cycle Period} \times Q_{avg}) / 4 \text{ (GAL)} = 11.3$   
 Wetwell Diameter (D) (FT) = 4  
 Wetwell Volume (GAL) (V) = 94  
 Wetwell Level Change Between Pump Stop and Lead Pump Start (FT) = 0.12  
 Design For (DN) = 6

Control Elevation Table	Elevation
Bottom	68.77
All Pumps Off	70.7
Lead Pump On	71.20
Lag Pump On	71.70
High Water Alarm	72.20
Influent Invert	72.70
Top of Slab	80.50

**III. SYSTEM CURVE CALCULATIONS**

A. Friction Loss

Pump Station Piping	Item	Size (inches)	Quantity	Equivalent Length (ft)	Total (ft)
	Top	2	1	19	19
	90 Degree Elbow	2	3	5	15
	Check Valve	2	1	22.5	22.5
	Gate Valve	2	1	2.5	2.5
	Side Outlet Cross			0	0
	Wye			0	0
	<b>TOTAL</b>			<b>59</b>	<b>59</b>

Length of pipe throughout pump station (H) = 9.80  
 Total Equivalent Length (H) = 69.8

Force Main Piping	Item	Size (inches)	Quantity	Equivalent Length (ft)	Total (ft)
	45 Degree Bend	2	9	2.66	23.94
	22.5 Degree Elbow	2	1	1.33	1.33
	Check Valve	2	1	2.5	2.5
	Gate/Plug Valve	2	2	2.5	5
	Side Outlet Cross			0	0
	Wye			0	0
	<b>TOTAL</b>			<b>36.27</b>	<b>36.27</b>

Length of fit to connection point (H) = 370  
 Total Equivalent Length (H) = 400.3

B. Static Head  
 Pipe CL at Highest Discharge Point = 78.50 (B1)  
 Low Water Level (All Pumps Off) = 76.7 (B2)  
 Total Static Head (B1-B2) = 7.80

**System Curve**

Description	Flow Rate (GPM)	0	10	20	30	40	50	60
PM Piping (2" @ 400.3')	0.000	1.242	4.879	9.882	16.116	24.397	34.184	
PS Piping (2" @ 59.8')	0.000	0.186	0.669	1.417	2.412	3.645	5.107	
Static Lift (FT)	7.80	7.80	7.80	7.80	7.80	7.80	7.80	
System Curve, Low (FT)	18	19	20	25	30	35	40	
System Curve, High (FT)	29	32	35	38	41	44	47	
TDBH (Low), FT	25.800	28.228	32.948	43.699	56.358	70.842	87.091	
TDBH (High), FT	36.800	41.228	47.948	56.699	67.358	79.842	94.091	

$hf = [10.44L \times (\text{flow}^1.85)] / (C^4.87)$

**IV. FLOTATION CALCULATIONS - CONCRETE WETWELL**

A. Assumptions  
 \* Concrete (Reinforced) [lb/ft<sup>3</sup>] = 150 \* (A) Wetwell Inside Diam. (FT) = 4  
 \* Fiberglass [lb/ft<sup>3</sup>] = 110 \* (B) Wetwell Outside Diam. (FT) = 4.3  
 \* Saturated Soil [lb/ft<sup>3</sup>] = 120 \* (C) Wetwell Base Slab (Dia.) (FT) = 7.3  
 \* Water [lb/ft<sup>3</sup>] = 62.4 \* (D) Wetwell Slab Thickness (FT) = 7  
 \* Dimensions in Feet \* (E) Wetwell Barrel Height (FT) = 11.13  
 \* No Water in Wetwell \* Round Wetwell Barrel  
 \* Neglect Top Slab Weight \* Circular Wetwell Base  
 \* Neglect Soil Friction \* Water table is 2' below grade per geotech report

B. Barrel Weight = (B<sup>2</sup> - A<sup>2</sup>) x (3.14)(E)(C) = 218 lbs

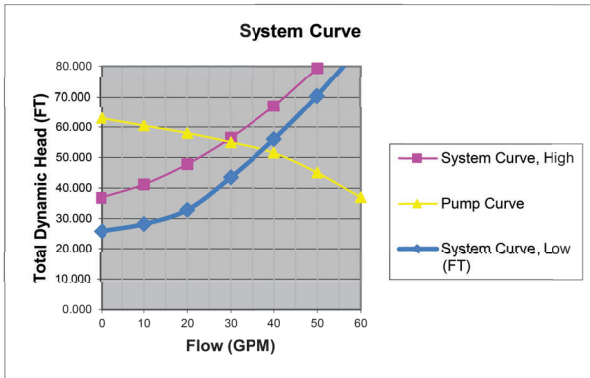
C. Bottom Slab Weight = (C<sup>2</sup>) x 3.14(D)(150) = 12550 lbs

D. Soil Weight = [(C<sup>2</sup>) - (B<sup>2</sup>)] x 3.14(D)(120 - 62.4) = 17518 lbs

E. TOTAL WEIGHT = 30286 lbs

F. Weight of Water Displaced = [(B<sup>2</sup>) x (3.14)(D)] x 62.4 = 13493 lbs

30,286 > 13,493; Therefore, Will Not Float Factor of Safety = 2.24



NO.	DATE	DESCRIPTION
1	12/22/2023	ISSUED FOR CONSTRUCTION
2	12/22/2023	ISSUED FOR CONSTRUCTION

**NATIVE**  
 Engineering & Planning  
 LAND OFFICES, FL 34439  
 (813) 536-2539

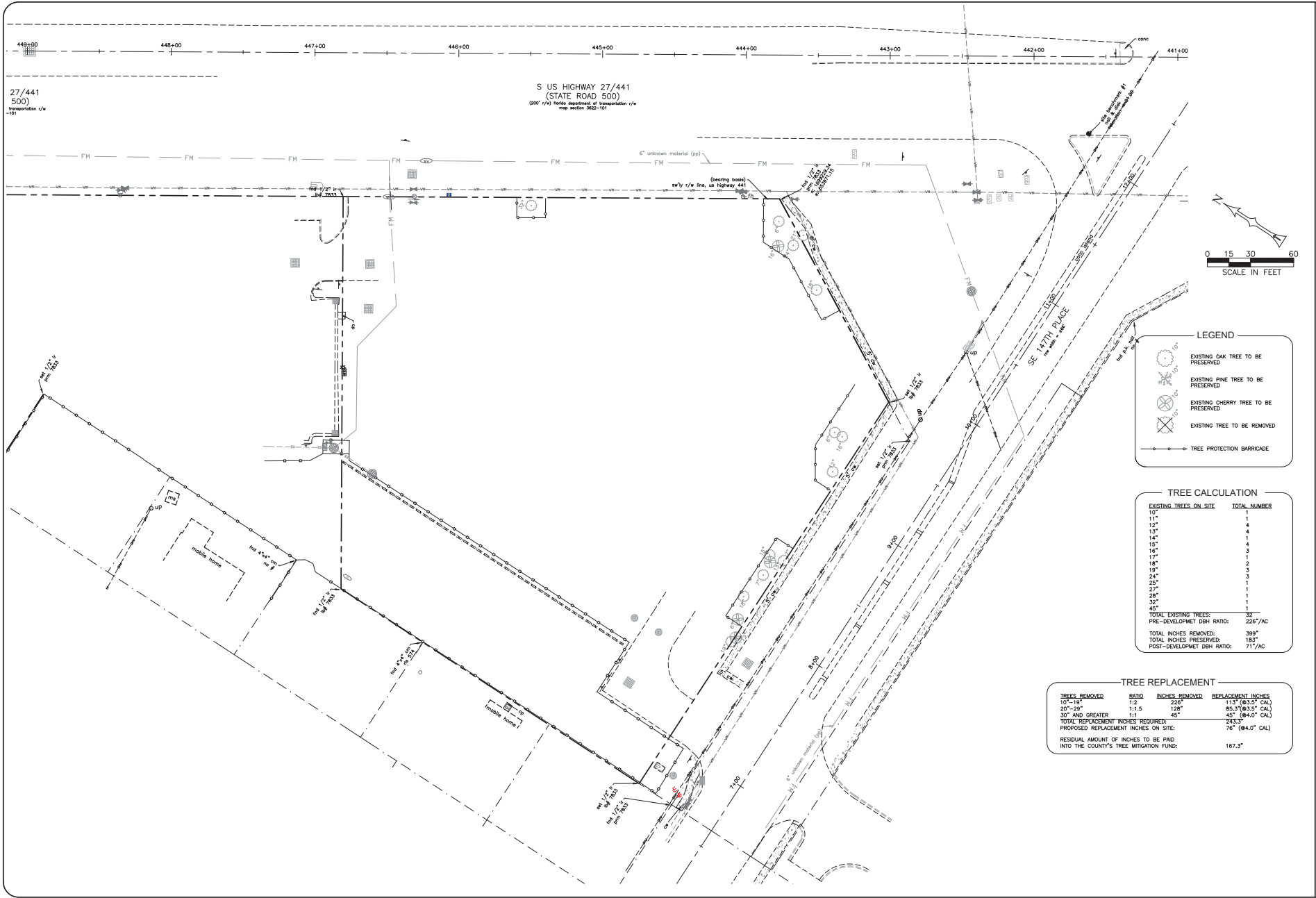
MAJOR SITE PLAN FOR CONVENIENCE STORE @ US HWY 441 & SE 147TH PLACE FOR AMPROP ENTERPRISES SUMMERFIELD LLC  
 WARDON COUNTY  
 4201 W. CYPRUS STREET, TAMPA, FL 33607  
 FLORIDA

LIFT STATION CALC

JOSHUA S. BRADLEY  
 State of Florida  
 Professional Engineer  
 License No. 60020

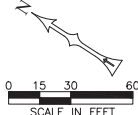
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 16-17-23

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27/441  
500  
Transportation 1/4  
101

S US HIGHWAY 27/441  
(STATE ROAD 500)  
(200' VAD Florida Department of Transportation 1/4  
map section 3622-101)



**LEGEND**

- EXISTING OAK TREE TO BE PRESERVED
- EXISTING PINE TREE TO BE PRESERVED
- EXISTING CHERRY TREE TO BE PRESERVED
- EXISTING TREE TO BE REMOVED
- TREE PROTECTION BARRICADE

**TREE CALCULATION**

EXISTING TREES ON SITE	TOTAL NUMBER
10"	1
12"	1
14"	1
15"	4
16"	3
17"	1
18"	2
19"	2
24"	3
26"	1
27"	1
28"	1
32"	1
42"	1
<b>TOTAL EXISTING TREES:</b>	<b>32</b>
PRE-DEVELOP MET DBH RATIO:	226"/AC
<b>TOTAL INCHES REMOVED:</b>	<b>399"</b>
<b>TOTAL INCHES PRESERVED:</b>	<b>183"</b>
POST-DEVELOP MET DBH RATIO:	71"/AC

**TREE REPLACEMENT**

TREES REMOVED	RATIO	INCHES REMOVED	REPLACEMENT INCHES
10"-19"	1:2	226"	113" (0.5" CAL)
20"-29"	1:1.5	128"	85.3" (0.5" CAL)
30" AND GREATER	1:1	45"	45" (0.4" CAL)
<b>TOTAL REPLACEMENT INCHES REQUIRED:</b>			<b>243.3"</b>
<b>PROPOSED REPLACEMENT INCHES ON SITE:</b>			<b>76" (0.4" CAL)</b>
<b>RESIDUAL AMOUNT OF INCHES TO BE PAID INTO THE COUNTY'S TREE MITIGATION FUND:</b>			<b>167.3"</b>

NO.	DATE	DESCRIPTION
1	12/22/23	ISSUED FOR CONSTRUCTION
2	12/22/23	ISSUED FOR CONSTRUCTION
3	12/22/23	ISSUED FOR CONSTRUCTION

**NATIVE**  
Engineering & Planning  
LAND OFFICES, FL 34439  
(813) 536-2539

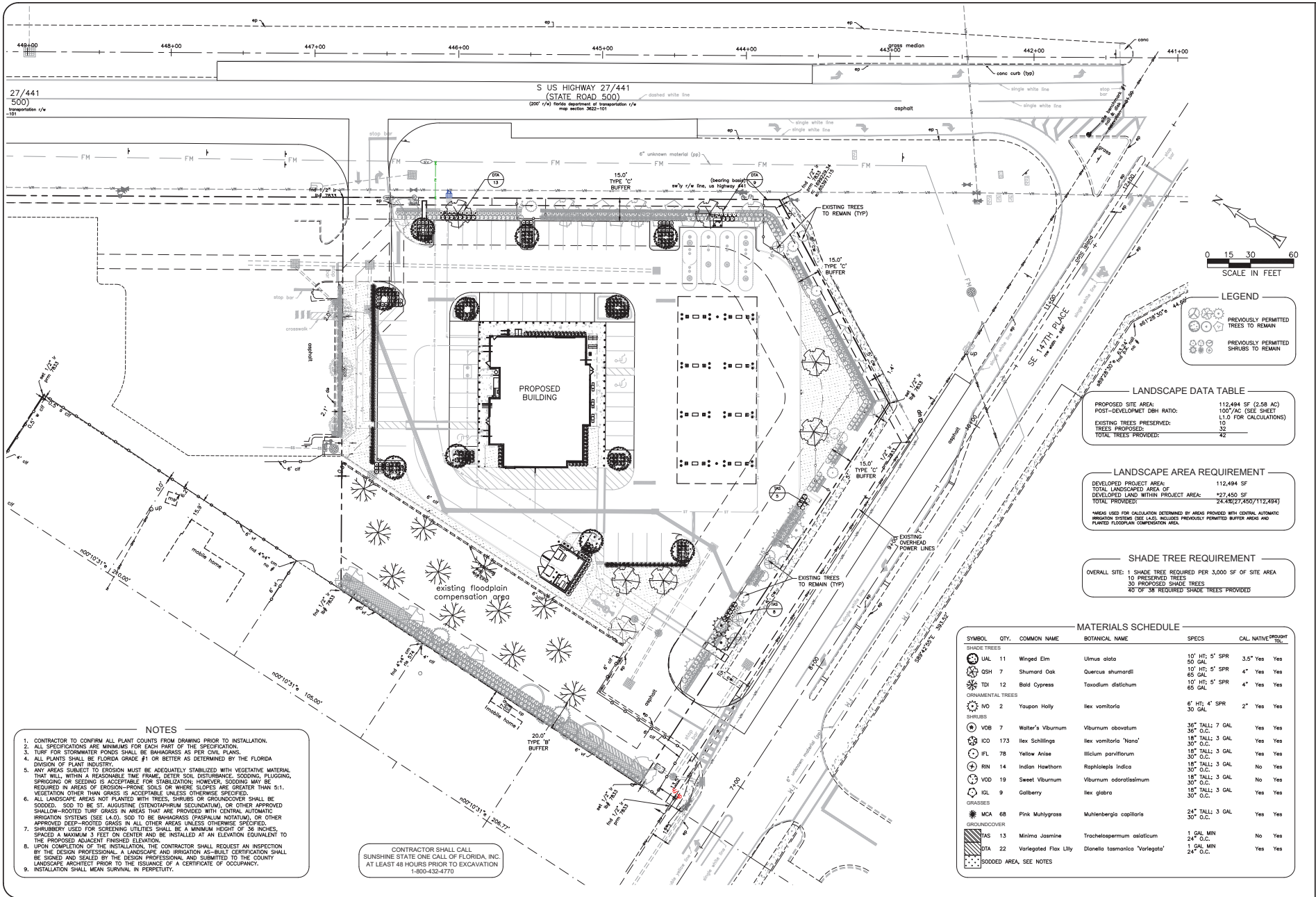
**MAJOR SITE PLAN FOR CONVENIENCE STORE  
@ US HWY 441 & SE 147TH PLACE**  
FOR  
**AMPROP ENTERPRISES SUMMERFIELD LLC**  
MARION COUNTY 4201 W. CYPRESS STREET, TAMPA, FL 33607

**TREE REMOVAL  
PLAN**

BRIAN BLAZEWICK  
State of Florida  
Registered Landscape  
Architect  
License No. LA0667484  
See the site plan legend  
for the tree tags and  
symbols used on this  
plan. The tree tags and  
symbols are used to  
identify the trees to be  
removed and the trees  
to be preserved.

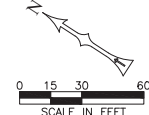
SHEET NUMBER  
**L1.0**  
S-1-R  
16-17-23

© SHARED DESIGN/CLIENTS/AMPROJ PROJECTS/1.21.01.25.00 - 441 & 147TH CONVENIENCE STORE/DRAWINGS/1.0 LANDSCAPE PLANS/IMG - 12/22/2023, 3:07 PM



27/441  
500  
transportation 1/4  
100'

S US HIGHWAY 27/441  
(STATE ROAD 500)  
100' 1/4" Florida Department of Transportation 1/4"  
map section 3622-151



**LEGEND**

	PREVIOUSLY PERMITTED TREES TO REMAIN
	PREVIOUSLY PERMITTED SHRUBS TO REMAIN

**LANDSCAPE DATA TABLE**

PROPOSED SITE AREA:	112,494 SF (2.58 AC)
POST-DEVELOPMENT DBH RATIO:	100%/AC (SEE SHEET 1.1.5 FOR CALCULATIONS)
EXISTING TREES PRESERVED:	10
TREES PROPOSED:	32
TOTAL TREES PROVIDED:	42

**LANDSCAPE AREA REQUIREMENT**

DEVELOPED PROJECT AREA:	112,494 SF
TOTAL LANDSCAPED AREA OF DEVELOPED LAND WITHIN PROJECT AREA:	*27,450 SF
TOTAL PROVIDED:	24,426(27,450/112,494)

\*AREAS USED FOR CALCULATION DETERMINED BY AREAS PROVIDED WITH CENTRAL AUTOMATIC IRRIGATION SYSTEM (SEE L.A.D. SCHEDULE) PREVIOUSLY PERMITTED BUFFER AREAS AND PLANTED FLOORPLAN COMPENSATION AREA.

**SHADE TREE REQUIREMENT**

OVERALL SITE:	1 SHADE TREE REQUIRED PER 3,000 SF OF SITE AREA
10 PRESERVED TREES	30 PROPOSED SHADE TREES
40 OF 38 REQUIRED SHADE TREES PROVIDED	

**MATERIALS SCHEDULE**

SYMBOL	QTY.	COMMON NAME	BOTANICAL NAME	SPECS	CAL. NATIVE*	PROFIT
<b>SHADE TREES</b>						
	11	Winged Elm	Ulmus alata	10' HT; 5" SPR	3.5"	Yes
	7	Shumard Oak	Quercus shumardii	10' HT; 5" SPR	4"	Yes
	12	Bald Cypress	Taxodium distichum	10' HT; 5" SPR	4"	Yes
<b>ORNAMENTAL TREES</b>						
	2	Yaupon Holly	Ilex vomitoria	6' HT; 4" SPR	2"	Yes
<b>SHRUBS</b>						
	7	Water's Viburnum	Viburnum obtovatum	36" TALL; 7 GAL		Yes
	173	Ilex Schillings	Ilex vomitoria 'Nana'	18" TALL; 3 GAL		Yes
	78	Yellow Anise	Illicium parviflorum	18" TALL; 3 GAL		Yes
	14	Indian Hawthorn	Raphirolepis Indica	18" TALL; 3 GAL		No
	19	Sweet Viburnum	Viburnum odoratissimum	18" TALL; 3 GAL		Yes
	9	Galberry	Ilex glabra	18" TALL; 3 GAL		Yes
<b>GRASSES</b>						
	68	Pink Muhlygrass	Muhlenbergia capillaris	24" TALL; 3 GAL		Yes
<b>GROUNDCOVER</b>						
	13	Minima Jasmine	Trachelospermum asiaticum	1 GAL MIN		No
	22	Variegated Flax Lily	Dianella tasmanica 'Variegata'	1 GAL MIN		Yes
						SEE NOTES

**NOTES**

- CONTRACTOR TO CONFIRM ALL PLANT COUNTS FROM DRAWING PRIOR TO INSTALLATION.
- ALL SPECIFICATIONS ARE MINIMUMS FOR EACH PART OF THE SPECIFICATION.
- TURF FOR STORMWATER PONDS SHALL BE BANAHASSAS AS PER CIVIL PLANS.
- ALL PLANTS SHALL BE FLORIDA GRADE #1 OR BETTER AS DETERMINED BY THE FLORIDA DIVISION OF PLANT INDUSTRY.
- ANY AREAS SUBJECT TO EROSION MUST BE ADEQUATELY STABILIZED WITH VEGETATIVE MATERIAL THAT WILL WITHIN A REASONABLE TIME FRAME, DETOUR SOIL DISTURBANCE, SOODING, FLODGING, SPREADING OR SEEDING IS ACCEPTABLE FOR STABILIZATION; HOWEVER, SOODING MAY BE REQUIRED IN AREAS OF EROSION-PRONE SOILS OR WHERE SLOPES ARE GREATER THAN 5:1. VEGETATION OTHER THAN GRASS IS ACCEPTABLE UNLESS OTHERWISE SPECIFIED.
- ALL LANDSCAPE AREAS NOT PLANTED WITH TREES, SHRUBS OR GROUNDCOVER SHALL BE SOODED. SOO TO BE ST. AUGUSTINE (STENOTAPHRUM SECUNDATUM), OR OTHER APPROVED SHALLOW-ROOTED TURF GRASS IN AREAS THAT ARE PROVIDED WITH CENTRAL AUTOMATIC IRRIGATION SYSTEMS (SEE 1.4.0). SOO TO BE BANAHASSAS (PASPALUM NOTATA), OR OTHER APPROVED DEEP-ROOTED GRASS IN ALL OTHER AREAS UNLESS OTHERWISE SPECIFIED. SHRUBS USED FOR SCREENING UTILITIES SHALL BE A MINIMUM HEIGHT OF 36 INCHES, SPACED A MAXIMUM 3 FEET ON CENTER AND BE INSTALLED AT AN ELEVATION EQUIVALENT TO THE PROPOSED ADJACENT FINISHED ELEVATION.
- UPON COMPLETION OF THE INSTALLATION, THE CONTRACTOR SHALL REQUEST AN INSPECTION BY THE DESIGN PROFESSIONAL. A LANDSCAPE AND IRRIGATION AS-BUILT CERTIFICATION SHALL BE SIGNED AND SEALED BY THE DESIGN PROFESSIONAL AND SUBMITTED TO THE COUNTY LANDSCAPE ARCHITECT PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
- INSTALLATION SHALL MEAN SURVIVAL IN PERPETUITY.

CONTRACTOR SHALL CALL  
SUNSHINE STATE ONE CALL OF FLORIDA, INC.  
AT LEAST 48 HOURS PRIOR TO EXCAVATION  
1-800-432-4770

ORIGINAL SET: 01/23  
REVISIONS:  
1 12/22/23 10:00 AM 2023 2023 2023  
2 12/22/23 10:00 AM 2023 2023 2023  
3 12/22/23 10:00 AM 2023 2023 2023  
NO. | DATE

NATIVE  
engineering,plc  
12075 W. Cypress Street, Tampa, FL 33607  
(813) 536-2539

FLORIDA

MAJOR SITE PLAN FOR CONVENIENCE STORE  
@ US HWY 441 & SE 147TH PLACE  
FOR  
AMPRO ENTERPRISES SUMMERFIELD LLC  
4201 W. CYPRESS STREET, TAMPA, FL 33607  
MARION COUNTY

LANDSCAPE PLAN

BRIAN BLAZEWICK  
State of Florida  
Registered Landscape  
Architect  
License No. LA0667484  
See the back cover of this  
book for the rules and  
regulations governing the  
practice of landscape  
architecture in Florida.

SHEET NUMBER  
**L2.0**  
S:1.00  
16-17-23







# WAWA, INC.

## TYPICAL FLORIDA PUMP STATION DETAIL

WAWA PREFERRED PRE-FABRICATED PUMP STATION VENDOR:

RILEY & Company, Inc.  
Sanford, FL 32773 (Ph. 407-265-9963)

**NO SUBSTITUTIONS - NO ALTERNATES**  
**LIFT STATION WILL BE PRIVATELY OWNED AND MAINTAINED.**

The H-20 Load Rated Fiberglass Wetwell Must Be Manufactured By L.F. Manufacturing, Giddings, Texas, Which Includes A Written 20 Yr. Warranty. Certification of the wetwell H-20 load rating must be supplied with submittals. H-20 certification must be signed and sealed by an engineer registered in the State of Florida.

After the H-20 load rated wetwell has been installed, the ASTM Certification Number and Serial Tracking Number must be visible.

### PUMPS: (3 YEAR WARRANTY)

Submersible grinder pumps shall be RILEY Model RC30045. Installed in the H-20 GP FRP wetwell utilizing a dual slide rail system. The grinder unit shall be capable of macerating materials normally found in domestic and commercial sewage into a fine slurry which will pass through the pump and the HDPE discharge piping.

Stator winding shall be open type with Class F insulation and shall be heat-shrink fitted into the stator housing. The use of pins, bolts, or other fastening devices is not acceptable.

A heat sensor thermostat shall be attached to the top end of the motor winding and shall be connected in series with the magnetic contactor coil in the control panel to stop motor if winding temperature exceeds 140 C., but shall automatically reset when the winding temperature returns to normal.

Two heat sensor thermostats shall be used on three phase motors. The pump motor grinder shaft shall be AISI 430F SS threaded to take the pump impeller and the grinder impeller. Upper & lower mechanical seats shall be Silicon Carbide vs Silicon Carbide.

MISCELLANEOUS: All wiring on the back panel shall be contained within the wiring duct. All wiring between the inner door and the back panel shall be contained within a plastic spiral wrap. Each wire shall have a wire number at each end to correspond to the as built drawing for field troubleshooting. The control panel must be manufactured in-house by lift station supplier and be a TUV (UL508A Certified) facility.

FASTENERS & APPURTANCES: All fasteners, lifting chains, float bracket, hinges, and appurtances shall be made of AISI 316SS. A 316SS slide/latch assembly shall be provided for holding the doors open on the wetwell and valve box. Slide rails shall be made of SCH.40 AISI 304SS pipe. Pump lifting cables shall be made of AISI 316 SS. Pump lifting bales shall be made of AISI 316 SS.

H-20 LOAD RATED WETWELL WITH LIFTING LUGS: The fiberglass wetwell must be H-20 load rated with integral lifting lugs, fiberglass slope in bottom of wetwell and valve box. Certification of the H-20 load rating must be supplied at the time of submittals to Engineer. The wetwell shall be manufactured of fiberglass reinforced polyester (FRP) of depth and diameter as shown on the lift station elevation detail. The wall thickness shall be adequate for the depth of the wetwell to maintain the H-20 LOAD RATING.

EXECUTION: Installation shall be in strict accordance with the manufacturer's recommendations in the locations shown on the drawing.

INSPECTION & TESTING: A factory representative shall be provide for a one (1) time start-up and shall have complete knowledge of the proper operation and maintenance of complete system.

Megger the motors. The pump motors shall be megged out prior to the start-up to ensure that the insulation of the pump motor/cable is intact. The pump controls and pumps shall be checked for mechanical reliability and proper operation.

PUMP DATA	
PRIMARY PUMP CAPACITY	28 GPM
PRIMARY TDH	55 'TDH
SECONDARY PUMP CAPACITY	37.5 GPM
SECONDARY TDH	52.5 'TDH
PUMP MANUFACTURER	Riley
PUMP MODEL #	RC30045
R.P.M.	3600
HORSEPOWER	3
IMPELLER DIAMETER	4-3/16"
ELECTRICAL / VOLTS / PHASE	208V/3
FULL LOAD AMPS / PER PUMP	12.7
PUMP DISCHARGE SIZE	2"
SEWER CHEWER DATA	
MODEL #	RCCA203A
HORSEPOWER	5.0
ELECTRICAL / VOLTS / PHASE	208V/3
FULL LOAD AMPS	20.0

ELEVATIONS	
TOP OF WETWELL	80.5
INLET INVERTS	72.70
HIGH LEVEL ALARM (HLA)	72.20
2nd PUMP ON (LAG)	71.70
1st PUMP ON (LEAD)	71.20
PUMPS OFF (OFF)	70.70
BOTTOM OF WETWELL	68.70
WETWELL DIAMETER	48"

**PRIVATE SANITARY SEWER PUMP STATION**

IN CASE OF EMERGENCY CONTACT THE FOLLOWING NUMBERS:

FACILITY OWNED BY: \_\_\_\_\_

PHONE NUMBER: \_\_\_\_\_

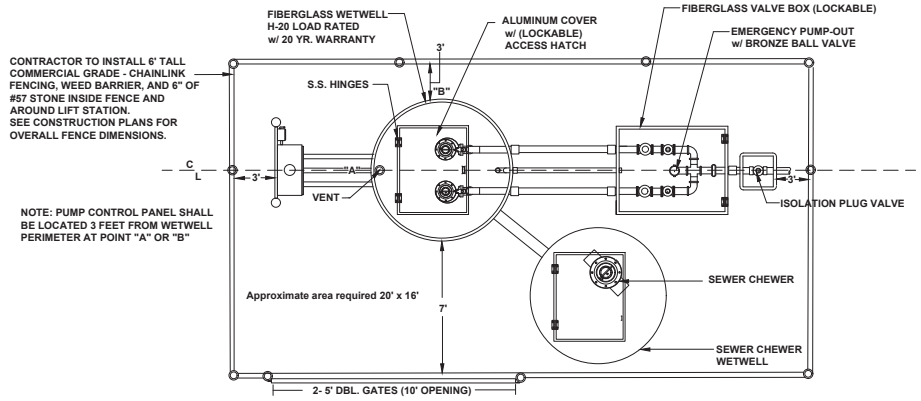
FACILITY MAINTAINED BY: \_\_\_\_\_

PHONE NUMBER: \_\_\_\_\_

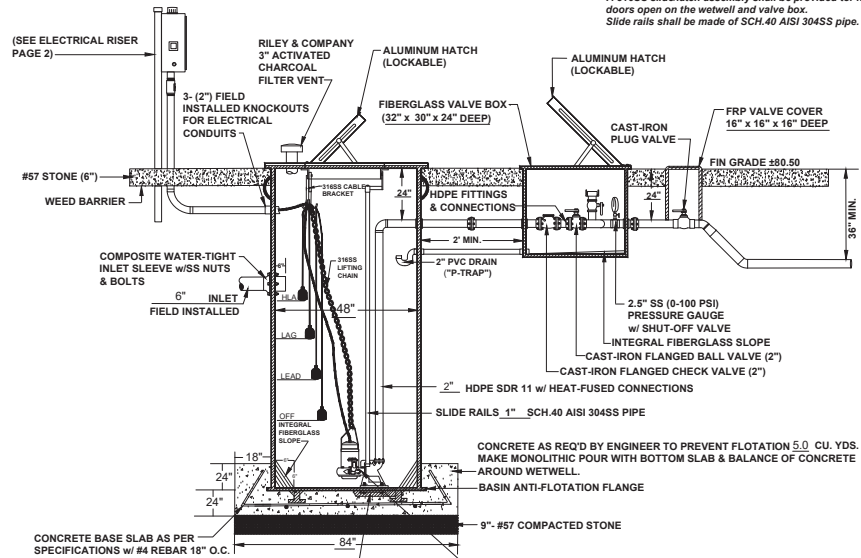
STATION NUMBER: \_\_\_\_\_

CONTRACTOR SHALL SUPPLY INFO. SIGN

- Water service with hose bibb and reduced pressure backflow preventer to be installed near lift station. (See Electrical Riser Illustration Page 2)
- Control panel shall be NEMA 4X fiberglass enclosure (30" x 30" x 10" Deep)
- All wiring shall be copper and shall meet all NEC and manufacturer's requirements
- Control panel and top hatch shall be located above the 100 yr. flood elevation.
- Wetwell access cover, valve box, and control panel shall be pad lockable.
- Control panel shall have audible and visual alarm system, motor overload, and phase/voltage protection.
- Electric service cable and conduit shall be sized per NEC and local codes.
- System shall be operated and maintained to provide uninterrupted service as required by Chapter 62-404.500.
- Approved Operation & Maintenance Manual(O&M) shall be kept available at a site acceptable to FDEP for use by operation and maintenance personnel or inspection by DEP personnel.
- All fasteners inside wetwell shall be stainless steel.
- A weather resistant emergency contact sign shall be installed at the lift station and made visible to the public (Lettering shall be min. 2" in height.)



SEWER CHEWER: Protects downstream equipment from being plugged or damaged from large solids, thus reducing expensive repairs and down time. Mechanical seal mounted on separate stainless steel sleeve for easy and quick replacement. Cutter cartridge consists of one assembly for quick replacement. All fasteners, lifting chains, hinges, and appurtances shall be made of AISI 316SS. A 316SS slide/latch assembly shall be provided for holding the doors open on the wetwell and valve box. Slide rails shall be made of SCH.40 AISI 304SS pipe.



REVISIONS	BY

RILEY & Company, Inc.  
5491 Benchmark Lane  
Sanford, FL 32773  
PH. 407-265-9963

WAWA LIFT STATION w/ SEWER CHEWER (PAGE 1 of 2)

DRAWN
CHECKED
DATE
SCALE
JOB NO.

06-11-2020

# WAWA, INC.

TYPICAL FLORIDA PUMP STATION DETAIL (Page 2 of 2)

WAWA PREFERRED PRE-FABRICATED PUMP STATION VENDOR:

RILEY & Company, Inc.  
Sanford, FL 32773 (Ph. 407-265-9963)

### DUPLEX CONTROL PANEL: (3 YEAR WARRANTY)

To insure complete unit and warranty responsibility the electrical control panel must be manufactured and built by the pump supplier. The pump supplier must be a TUV (UL508A CERTIFIED) manufacturing facility, with a minimum of 5 years history in the manufacturing of electrical control panels.

The enclosure shall be NEMA 4X, minimum 30" high x 30" wide x 10" deep fiberglass with 5 point latching system.

The enclosure shall have external mounting feet to allow for wall mounting.

The following components shall be mounted through the enclosure:

- 1- ea. Red Alarm Beacon (Light) 4" x 4" Minimum Diameter
- 1- ea. Alarm Horn (minimum 95 DdB)
- 1- ea. Generator Receptacle w/ weatherproof cover(SCM460 -UL 1686)
- 1- ea. Alarm Silence Pushbutton

The back panel shall be fabricated from .125, 5052-H32 marine alloy aluminum. All components shall be mounted by machined stainless steel screws.

The following components shall be mounted to back panel:

- 2- ea. Motor Contactors
- 1- ea. Volt Monitor (1 Ph) Phase Monitor (3 Ph) w/2 N/O & 1 N/C Contacts
- 1- ea. Control Transformer (480 Volt Only) (Min. 500VA)
- 1- ea. Silence Relay Module
- 1- ea. Duplex Alternator w/ Pump Selector Switch

- 1- ea. Model RCB5AH Battery Back-Up w/ Smart Charger For The High Level Alarm System

### 20- ea. Terminals For Field Connections

- 6- ea. Terminals For Motor Connections (Single Phase Only)
- 7- ea. Grounding Lugs
- 1- ea. Seal Failure Relay

The inner door shall be fabricated from .080, 5052-H32 marine alloy aluminum. The inner door shall have a continuous aluminum piano hinge.

The following components shall be mounted through the inner door:

- 1- ea. Main Circuit Breaker
- 1- ea. Emergency Circuit Breaker
- 1- ea. Mechanical Interlock For Emergency And Main Breakers (UL Listed)
- 2- ea. Short Circuit Protectors w/ Auxiliary Contacts
- 1- ea. Control Circuit Breaker
- 2- ea. Seal Failure Indicator Lights
- 1- ea. Hand-Off-Auto Selector Switches
- 2- ea. Pump Run Pilot Lights
- 1- ea. Power On Pilot Light
- 2- ea. Elapse Time Meters (Non-Resettable)
- 1- ea. GFI Duplex Convenience Outlet

### REMOTE ALARM PANEL: (3 YEAR WARRANTY)

Audio And Visual Alarm Panel w/ Alarm Silence Button FRP Enclosure (6" x 4" x 4" Deep)

### \* ELECTRICIAN NOTES:

1. DRAWING NOT TO SCALE
- \* 2. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES
- \* 3. ELECTRICIAN SHALL SEAL OFF CONDUIT RUNS
- \* 4. CONTRACTOR TO MOUNT LIGHTNING ARRESTOR AT SWITCH DISCONNECT
- \* 5. CONTRACTOR SHALL VERIFY POWER SOURCE PRIOR TO ORDERING EQUIPMENT
- \* 6. NEUTRAL TO BE SUPPLIED FOR 230V/3 PHASE OR 230V SINGLE PHASE POWER.
- \* 7. ELECTRICIAN MUST RUN WIRING AND CONDUIT FROM LIFT STATION CONTROL PANEL TO REMOTE AUDIO & VISUAL ALARM PANEL INSIDE BUILDING.

MISCELLANEOUS: All wiring on the back panel shall be contained within the wiring duct. All wiring between the inner door and the back panel shall be contained within a plastic spiral wrap. Each wire shall have a wire number at each end to correspond to the as built drawing for field troubleshooting.

The control panel must be manufactured in-house by lift station supplier and be a TUV (UL508A Certified) facility.

FASTENERS & APPURTANCES: All fasteners, lifting cables, float cable bracket, hinges, and appurtances shall be made of AISI 304SS.

A 304SS slide/latch assembly shall be provided for holding the doors open on the wetwell and valve box.

Slide rails shall be made of SCH.40 AISI 304SS pipe.

Pump lifting cables shall be made of AISI 304 SS.

Pump lifting bales shall be made of AISI 304 SS.

### COMPONENT SPECIFICATIONS:

All circuit breakers shall be molded thermal magnetic. The mechanical interlock shall prevent the normal and emergency main breakers being energized at the same time.

An emergency generator receptacle shall be supplied in accordance with DEP standards. The generator receptacle shall be adequately sized to meet the equipment operating conditions and shall meet IEC60300-1 & IEC6030-2 for interchange ability and compatibility.

NEUTRAL TO BE SUPPLIED FOR BOTH 208V 3PHASE OR 208V SINGLE PHASE POWER

All motor short circuit protection devices must provide for under voltage release and class 10 overload protection and thermal protection on all phases. Visible trip indication, test, and reset capability must be provided without opening inner door.

Open frame, across the line, contactors shall be rated per IEC standards and properly sized per the motor requirements. Contactors shall provide for safe touch power and control terminals.

Lightning Arrestor shall meet UL1449 3rd Edition or exceed the requirements of ANSI/IEEE Std. C82.21-1984 section 8.6.1, and 8.7.3 shall be supplied by electrician and mounted on the bottom side of the switch disconnect ahead of the pump control panel.

Surge Protection shall be provided within the control panel and will meet the UL1449 3rd Edition Type 4, Type 2 locations and UL60991 for visual fault & indicator, replaceable Modules and remote signalization.

A voltage monitor shall be supplied for single phase service.

A phase monitor shall be supplied for (3) phase service.

A green pilot light shall be supplied for each motor. The pilot light shall illuminate each time the motor is called to run.

Each pump shall have an Elapse Time Meter to record the accumulated run time. The ETM shall be 2" diameter, non-resettable, six digit, totally encapsulated unit.

A Red pilot light shall be supplied for control power. The pilot light shall illuminate when the control power is available inside the control panel.

Relays shall be ice-cube plug in type. Relay contacts shall be rated 10 amp minimum, DPDT.

Twenty (20) terminals shall be supplied for field connections. The terminals shall be rated 25 amps minimum.

Each motors over-temperature contact shall be connected to the terminal strip and shall open a contact to de-energize the appropriate motor upon a high temperature within the motor.

A 15 Amp GFI duplex receptacle shall be supplied and mounted on the innardoor.

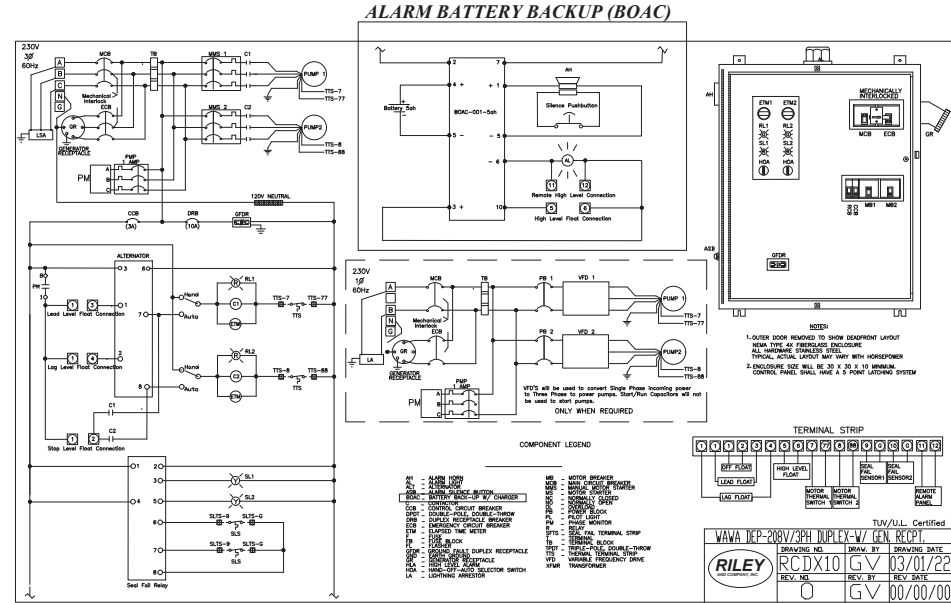
Ground lugs shall be supplied and appropriately sized for each motor and for service entrance.

### SEWER CHEWER CP REQUIREMENTS:

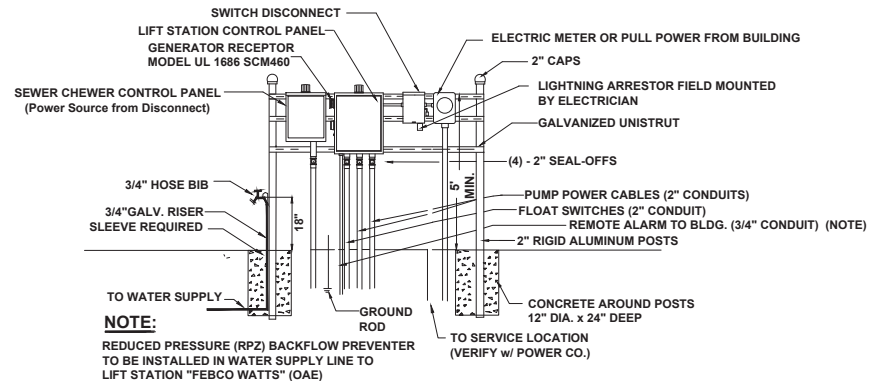
1. CONTROL PANEL MAX FRP WITH:
  - (A) MAIN BREAKER (30A 208v/3ph)
  - (B) PUMP PROTECTION
  - (C) REVERSING CONTACTOR
  - (D) AUTOMATIC OPERATION
  - (E) ALARM

### WAWA LIFT STATION REQUIREMENTS:

1. 2ND REMOTE ALARM TO BE CONNECTED TO MANAGER'S OFFICE. CONTRACTOR SHALL COORDINATE WITH WAWA MAINTENANCE GROUP FOR CONNECTION DETAILS.
2. VFD'S SHALL BE USED TO CONVERT SINGLE PHASE INCOMING POWER TO THREE PHASE TO POWER PUMPS. START/RUN CAPACITORS WILL NOT BE USED TO START PUMPS.
3. FORCE MAIN PIPE SIZE SHALL BE A MINIMUM OF 2-INCH. PIPE MATERIAL SHALL BE AS PER THE LOCAL JURISDICTION.
4. ELECTRICIAN NOTE: 3/4" CONDUIT FROM CONTROL PANEL TO MANAGER'S OFFICE INSIDE BUILDING



NOTE: ELECTRICIAN MUST RUN WIRING AND CONDUIT FROM LIFT STATION CONTROL PANEL TO REMOTE AUDIO & VISUAL ALARM PANEL INSIDE BUILDING.



## ELECTRICAL RISER FOR ILLUSTRATION PURPOSES ONLY

09-29-14

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WAWA W/ SEWER CHEWER  
ELECTRICAL LAYOUT (PAGE 2 OF 2)

DRAWN  
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DATE  
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