SUBMITTAL SUMMARY REPORT
30312

PLAN NAME:	CONVENIENCE STORE @ US HWY 441 & SE 147TH PL	**LOCATION:**	14700 S US HWY 441 SUMMERFIELD,
APPLICATION DATE:	06/19/2023	**PARCEL:**	4593-006-001
DESCRIPTION:	WAWA Convenience Store - Summerfield 441 & SE 147th PL Plans Expire 9/2026		

CONTACTS	NAME	COMPANY
Applicant	Josh Bradley	NATIVE ENGINEERING, PLLC
Engineer of Record	Josh Bradley	NATIVE ENGINEERING, PLLC
Engineer of Record	Richard Paulin	Native Engineering

SUBMITTAL	STARTED	DUE	COMPLETE	STATUS
OCE: Plan Review Revision (DR) v.1	06/25/2026	07/10/2026		In Review
OCE: Plan Review (DR) v.1	08/27/2024	08/29/2024	11/18/2025	Approved

SUBMITTAL DETAILS

OCE: Plan Review (DR) v.2

ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
911 Management (DR) (911 Management)		08/29/2024	11/17/2025	Approved

Comments

YES 2.12.8 - Legal description matches boundary on plan
YES 2.12.28 - Correct road names supplied Sheet 1.0 has SE Sunset Harbor RD incorrect as Sunset Harbor RD and S US HWY 441 incorrect as US HWY 27.
YES 6.2.1.F - North arrow and graphic drawing and written scale On Sheet C4.0 the North Arrow is not pointing True North.
N/A Additional 911 comments

Environmental Health (Plans) (Environmental Health)		08/29/2024	11/17/2025	Approved

Comments

YES Central Sewer Central Sewer
N/A Lot Size
N/A Total Flow
N/A Available Area
YES DEP Water Approval Central Water
N/A Operating Permit Required
N/A 2.12.6 - Location of septic systems & wells
N/A 2.12.36 - Location of water & septic systems
INFO Additional Health comments N/A

Fire Marshal (Plans) (Fire)		08/29/2024	11/17/2025	Approved

Comments

YES 6.18.2 - Fire Flow/Fire Hydrant
N/A 6.18.3 - Gated Communities/Properties
N/A 6.18.4 - Wildland Interface Area
N/A 6.18.5 - Access Control Box
N/A 6.18.2.D - Fire Department Connections
N/A NFPA 1 Chapter 11.10.1 - In Building Minimum Radio Signal Strength
YES 6.18.2.G - Painting and Marking of Fire Hydrants
YES NFPA 1 Chapter 18.2.3 - Fire Dept Access Roads
N/A Additional Fire comments

SUBMITTAL SUMMARY REPORT (30312)

ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
Growth Services Planning & Zoning (DR) (GS Planning and Zoning)		08/29/2024	11/17/2025	Approved

Comments

Land Use: Approval
YES 2.12.4.L(2)/3.2.3 - Use Consistent with FLU Designation?
N/A 2.12.4.L(3) - All applicable Developer's Agreements listed?
N/A 2.12.4.L(2,3, & 5)/6.3.1C(15)(g) - DRI/FQD Compliance Note?
N/A 3.2.3/6.6/5.2.5/flood - RESIDENTIAL - Complies with Min/Max Density?
YES 3.2.3 - NON-RESIDENTIAL - Complies with FAR?
YES 2.12.4.L(6) - Gross/wetland/floodplain acreage listed? While the flood plane is "X", please be advised that there is significant amount of flood prone area on the northern half of the property.
N/A 3.3.2.C - Complies with Approved ECSD PUD?
N/A 3.3.3.A(1)- Complies with Approved Rural Residential Cluster Plan?
N/A 3.3.3.A(2) - Complies with Approved Hamlet Plan?
N/A 2.12.4.L(5)/5.2 - [Applicable ESOZ/FPOZ Status Listed?]
YES 2.12.4.L(5)/5.4 - [Applicable Springs Protection Zone Listed?]
N/A 2.12.4.L(5)/5.7 - Wellhead Protection - P/S/T Zones Shown/Listed?
YES 2.12.4.L(7 & 9) - Building Uses/Identifiers/Designations Provided for 911?
N/A 4.1.4.J - [Greenway Setback Provided?]
YES 2.12.16/6.5 - [EALS or EALS-ER provided?] Please provide an EALS.
YES 6.5 & 6.6 - Habitat Preservation/Mitigation Provided? Please provide an EALS.
N/A 2.12.9 - [Show All Existing Surrounding & Intersecting R/Ws?]
N/A 6.12.2.A - [Local Road right-of-Way Provided?]
N/A 6.12.2.A - [Access Improvements R/W Provided (decel/accel/turn lanes)?]
YES 2.12.9/6.12.2.B - Comp Plan Future Thoroughfares R/W Provided (TE Map)?
N/A 6.11.4.C - [Additional/Atlernate/Interconnected Access (S/QS-L) Provided?]
YES 6.11.2, 4 & 5 - Internal Access Consistent with PUD/Master Plan/Plat?
YES 6.11.4.B & D/7.3.1 - [Cross/Parallel Access Required/Suitable?]
N/A 6.11.5 -[Driveways to Intersections Separated/Coordinated?]
N/A 6.11.4.E - [Sight Triangle Provided?]
N/A 6.11.5 - [Driveways to Driveways Separated/Coordinated?]
N/A 6.12.12 - [Sidewalks Internal/External Provided?]
YES 2.12.5/1.8.2.A - Concurrency/Traffic - Study/Capacity Available? Traffic Study Required; as of 1/3/24, a Study (AR# 30995) has been uploaded, but has not been formally submitted by the applicant as upload task has not been completed by the applicant. (Until completed by the applicant, review of the Study cannot be initiated.)
N/A 2.12.5/1.8.2.D - Concurrency - PRELIM Evaluation Required?
YES 2.12.5/1.8.2.F - Is Concurrency Approval or Deferral Elected? Note on Cover Sheet.
N/A 2.12.6, 35, & 36/6.14 - [Concurrency/Water Provided?]
N/A 2.12.6, 35, & 36/6.14 - [Concurrency/Sewer Provided?]
N/A Additional Planning Items:

Zoning: Approval
YES 2.12.4.C - Owner and applicant name
YES 2.12.4.L(1) - Parcel number
YES 2.12.21/6.3.1.C(10) - Land use and zoning on project and on adjacent properties shown
YES 2.12.4.L(4) - Zoning requirements: lot width, area , setbacks , coverage (floor area ratios) and parking
YES 2.12.23/4.2 -Setbacks, dimensions for all improvements, and easements
YES 2.12.24 - Landscape requirements/6.8.6 - Buffering
YES 2.12.4.L(7) - List and describe land use including floor area of particular use (example: office, warehouse, storage or assembly) these descriptions are often found in the summary of parking requirements but should be clearly shown on plan
N/A 2.12.6 - Location of water and sewer. Does this need a special use permit? defer to MCU
YES 2.12.9 - Show adjacent streets serving development
YES 2.12.32 - Show 100yr flood zone
YES 2.12.32 - Modified Environmental Assessment for Listed Species (LDC 6.5.4) -OR- EALS Exemption Application (LDC 6.5.3) submitted (including habitat assessment as necessary per LDC 6.6.4)
YES 2.12.4.L(10) - Parking requirements, service entrances, space size paved parking isle and access to parking area/6.11.8 - Off-street parking requirements/6.11.7 - Loading Areas/ 6.11.6 - Construction access/route
INFO 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. will there be any signs?
YES 2.12.19 - Provide dimensions and location of all existing site improvements; dimensions and location for all proposed site improvements with all setbacks
INFO 2.12.27 - Show location of outside storage areas will there be any outside storage?
YES 5.2 & 5.3 - Verify any overlay zones such as ESOZ, Springs Protection, or Flood Plain
N/A Additional Zoning comments

SUBMITTAL SUMMARY REPORT (30312)

ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
Landscape (Plans) (Parks and Recreation)		08/29/2024	11/17/2025	Approved

Comments

YES 2.12.18 - All trees 10" DBH and larger
N/A 2.12.25 - Marion Friendly Landscape Areas
YES 6.7.3 - Tree protection
YES 6.7.4 - Shade tree requirements
YES 6.7.6 - Tree removal submittal requirements All trees greater than 30" DBH to be removed shall be assessed for feasibility
PEND 6.7.8 - Protected tree replacement requirements
PEND 6.7.9 - Replacement trees; general requirements
YES 6.8.2 - Landscape plan requirements (details, schedule, calculations, notes)
YES 6.8.3 - Landscape design standards
YES 6.8.4 - Landscape area requirements for non-residential development
N/A 6.8.5 - Landscape area requirements for residential and mixed use developments
INFO 6.8.6 - Buffers Buffers in previously approved AR# 25853 shall be installed with this AR#30312 project, if not currently in place.
INFO 6.8.7 - Parking areas and vehicular use areas Consider sight triangles within parking area, Magnolias may obscure
YES 6.8.8 - Building landscaping
YES 6.8.9 - Service and equipment areas
N/A 6.13.3.C(5) - Landscaping of public stormwater management facilities
N/A 6.13.3.D(4) - Landscaping of private stormwater management facilities
INFO 6.8.10 - General planting requirements (specifications) All plant material to be Florida #1
INFO 6.8.11 - Landscape installation installation shall mean survival in perpituity
YES 6.8.12 - Landscape completion inspection requirements
YES 6.9.2 - Irrigation plan requirements (details, legend, notes) Provide controller location, rain sensor location, etc...
YES 6.9.3 - Irrigation design standards
YES 6.9.5 - Irrigation system installation
YES 6.9.6 - Completion inspection requirements
YES 6.19.3 - Outdoor lighting plan requirements Will there be outdoor lighting? if so, a photometric plan is required
PEND 6.19.4 - Exterior lighting design standards
N/A 5.5.4.B - Permitted uses within Springs Protection Overlay Zone
N/A Additional Landscape comments

OCE Design (Plans) (Office of the County Engineer)		08/29/2024	11/17/2025	Approved

Comments

YES 2.21.2.B - Major Site Plan fee of $250.00 + ($5.00 x total site acreage) made payable to Marion County BCC 8/2/24-fee due with resubmittal
6/20/24-fee due with resubmittal
7/24/23 - fee due with resubmittal
N/A 2.21.2.B - Plan review fee of $40.00 made payable to Marion County Health Department
N/A Traffic study / methodolgy fee of $200.00 made payable to Marion County BCC is required prior to plan approval. Refer to Resolution 10-R-630 for the current fee schedule.
N/A 2.1.6.A - $100 Resubmittal fee payable to Marion County BCC
N/A 2.1.7.A - $100 Revision fee payable to Marion County BCC
N/A 2.1.3 - Order of plan approval
YES 2.12.3 - Title block on all sheets denoting type of application; project name, location, county, and state; and date of original and all revisions
YES 2.12.4.A - Type of application on front page
YES 2.12.4.B - Project name centered at top of front page
YES 2.12.4.C - Name, address, phone number, and signature of owner and applicant on front sheet
YES 2.12.4.D - Owner's certification on front sheet: I hereby certify that I, my successors, and assigns shall perpetually maintain the improvements as shown on this plan
YES 2.12.4.E - The name, address, phone number, signature, date, license number, and seal of the responsible professional shall be shown on each plan sheet
YES 6.2.1.A - Name, street address, signature, date, license number, and seal of licensed professional on each sheet
YES 2.12.4.F - Licensed professional certification on cover sheet with signature and seal on all sheets after plan approval
YES 2.12.4.F(1) - Licensed Design Professional Certification: I hereby certify that these plans and calculations were completed in accordance with all applicable requirements of the Marion County Land Development Code, except as waived.
YES 2.12.4.G - A key location or vicinity map, with north arrow, with reference to surrounding properties, streets, municipal boundaries, sections, ranges, and township
YES 2.12.4.H - A portrait oriented minimal 3 inches x 5 inches space, located 2.75 inches from the right edge of paper and .75 inches from the top edge of paper, shall remain blank to allow for a County approval stamp
YES 2.12.4.I & 6.2.1.D - Index of sheets and numbering
INFO 2.12.4.K - List of approved waivers, their conditions, and the date of approval 7/24/23 - add waivers if requested in the future
YES 2.12.4.L(1) - Parcel number
YES 2.12.7 - A digital version of the plan in a format pre-approved by the Office of the County Engineer
N/A 2.21.2.A - Multi-phase Major Site Plans may include a separate sheet showing independent, stand alone phasing and shall not be subject to a separate Master Plan application
YES 6.2.1.B - Plans shall be legible and meet typical industry standards
YES 6.2.1.C - Standardized sheet size shall be 24" x 36"
YES 6.2.1.F - North arrow and graphic drawing and written scale
N/A Legal Documents
INFO Additional Development Review Comments 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.

SUBMITTAL SUMMARY REPORT (30312)

ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
OCE Property Management (Plans) (Office of the County Engineer)		08/29/2024	11/17/2025	Approved

Comments

INFO Major Site Plan 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]."

SUBMITTAL SUMMARY REPORT (30312)

ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
OCE Stormwater (Permits & Plans) (Office of the County Engineer)		08/29/2024	11/17/2025	Approved

Comments

YES 2.12.4.L(9)(b) - Data Block (Impervious Area)
YES 2.12.8 - Topographical Contours
YES 2.12.9/10 - Existing Drainage Right-of-Way/Easements
YES 2.12.9/10 - Proposed Drainage Right-of-Way/Easements
YES 2.12.13/14/15 - General Exhibits
YES 2.12.20 - Stormwater Infrastructure Supports Phasing
YES 2.12.38 - Stormwater Maintenance Entity
YES 6.13.2.C - Geotechnical Investigation Report Approved under AR 25853
YES 6.13.7 - Geotechnical Criteria Approved under AR 25853
YES 6.13.2 A(1)/(2) - Contributing Basins/Tc Approved under AR 25853
YES 6.13.2.B(1)/(2) - Runoff Analysis/ Tc Calculations Approved under AR 25853
YES 6.13.2.A(4) - Stormwater Features & Connective Elements Approved under AR 25853
YES 6.13.2.A(3) - Retention/Detention Area Design Parameters Approved under AR 25853
YES 6.13.3 - Type of Stormwater Facility Criteria Approved under AR 25853
YES 6.13.4 - Stormwater Quantity Criteria Approved under AR 25853
YES 6.13.2.B(4) - Hydrologic Analysis Approved under AR 25853
YES 6.13.4.C - Discharge Conditions Approved under AR 25853
YES 6.13.2.B(6) - Freeboard Approved under AR 25853
YES 6.13.4.D - Recovery Analysis Approved under AR 25853
YES 6.13.5 - Flood Plain & Protection Approved under AR 25853
YES 6.13.2.A(8) - Finish Floor Elevation Criteria
YES 6.13.6 - Stormwater Quality Criteria
N/A 6.12.6 - Roadway Flooding Level of Service
N/A 6.13.6.B - Alternative Treatment Techniques
YES 6.13.6.C - Best Management Practices
YES 6.13.8 - Stormwater Conveyance Criteria

YES 6.13.2.B(5) - Hydraulic Analysis
N/A 6.13.8.B(3) - Lane Spread Calculations
YES 6.13.2.A(9) - Access Accommodates Stormwater
YES 6.13.8.B(7) - Minimum Pipe Size

YES 6.13.2.A(5) - Existing/Proposed Stormwater Structures
YES 6.13.2.A(6) - Existing/Proposed Stormwater Pipes
YES 6.13.2.A(7) - Existing/Proposed Stormwater Swales
YES 6.13.9 - Grading Criteria
YES 6.13.2.A(11)(a) - Construction Entrance
YES 6.13.2.A(11)(b) - Erosion Control
YES 6.13.2.A(12)/6.12.5 - Stormwater Details, Cross Sections, References
YES 6.13.2.B(8) - Calculation & Plan Consistency
INFO 6.13.10.B - Copy of NPDES Permit or NOI Please provide a copy of the NPDES permit or NOI prior to construction.
INFO Copy of District Permit (County Interest) Please provide a copy of the District permit prior to construction.
YES 6.10 - Karst Topography and High Recharge Areas Approved under AR 25853
YES 7.1.3 - Drainage Construction Specifications
YES 6.13.12 - Operation and Maintenance Approved under AR 25853
YES Please provide a final signed and sealed hard copy signature page with references to the stormwater analysis or final hard copy of the full stormwater analysis. Approved under AR 25853
YES Additional Stormwater comments

OCE Survey (Plans) (Office of the County Engineer)		08/29/2024	11/17/2025	Approved

Comments

YES 6.2.1.A - The name, street address, signature, date, license number, and seal of the responsible professional shall be shown on each plan sheet.
YES 6.2.1.E - Provide drawing legend
YES 6.2.1.F - Provide north arrow and graphic drawing and written scale
YES 6.4.7.A(1) - Show a minimum of two bench marks per site
YES 6.4.7.A(2 & 3) - Bench mark information shown
N/A 6.4.7.A(2 & 3) - One copy of the vertical control field notes shall be submitted to the Office of the County Engineer for review
YES 6.4.7.B(1) - Show a minimum of two intervisible horizontal control points per site
YES 6.4.7.B(2) - Horizontal control points shall be monumented and referenced to the Florida State Plane Coordinate System
YES 6.4.7.B(4) - Provide a statement or table detailing horizontal datum, adjustment, and coordinate values
N/A 6.4.7.B(4) - One copy of the horizontal control notes along with reduction reports shall be submitted to the Office of the County Engineer for review
YES 6.4.7.D - The location of the existing one percent (100-year) flood plain as shown on FEMA FIRM, with zone, elevation, and vertical datum noted
YES 6.4.7.D - A note shall appear on the construction plans detailing source and survey field methods used to obtain and delineate the flood plain line shown
YES 6.4.7.E - Line and curve table must be shown on the sheet to which they apply
YES 6.4.7.F - All abbreviations used shall be clearly defined in the legend
YES 2.12.4.F.(2) - Surveyor and Mapper certification
YES 2.12.4.G - Show a location or vicinity map
YES 2.12.8 - Provide current boundary and topographic survey less than one year old
YES 2.12.9 - Provide location and dimensions of all rights-of-way serving the project
YES 2.12.10 - Show any known existing or proposed easement or land reservation
YES 2.12.11 - Provide an aerial map of the site with a layout of the development
YES 2.12.32 - Provide site analysis map depicting the existing (100-year) flood plain
N/A Additional Survey comments

SUBMITTAL SUMMARY REPORT (30312)

ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
OCE Traffic (Permits & Plans) (Office of the County Engineer)		08/29/2024	11/17/2025	Approved

Comments

YES 2.12.9 - Location and dimensions of streets and right-of-way
YES 2.12.20 - Phases of development
N/A 2.12.30 - Route Plan
YES 2.12.38 - Maintenance of improvements
YES 6.2.1.E - Drawing legend
YES 6.11.3 - Traffic Impact Analysis 1/1/24 - A traffic metholgy has been approved but the traffic study has not been submitted.

9/11/23 - The provided traffic study is rejected. As stated in the comment below a traffic methodology must be submitted and approved prior to conducting the study. A methodology was not approved. Additionally, traffic methodologies and studies require separate submittals with separate review fees. Please submit a traffic methodology for approval. The study can be resubmitted as a separate traffic study review once the methodology is approved and any modifications to the study have been made. A simply access management review is insufficient for a traffic study submitted to the County.

6/19/23 - A traffic study is required as stated in the waiver for the subdivision. A traffic study methodology must be approved prior to conducting the study.
YES 6.11.4.B - Cross access 9/11/23 - See previous comment.

6/19/23 - The cross access easement needs to be adjusted as there are objects including gas pumps in the middle of the easement.
YES 6.11.4.E - Sight triangle
YES 6.11.5 - Driveway access
N/A 6.11.6 - Construction route
INFO 6.11.9.A - Traffic signals The required signal modifications at the intersection of US 441 and SE 147th Place need to be permitted with the Florida Department of Transportation.
YES 6.11.9.B - Traffic signs
YES 6.11.9.C - Pavement marking
N/A 6.12.1.A. - Transportation Facilities - Purpose and Intent
N/A 6.12.2 - Right-of-way
YES 6.12.11 - Turn lanes 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.
YES 6.12.12 - Sidewalks
N/A 6.12.13 - Utility position in right-of-way
YES Additional Traffic comments 6/19/23 - Coordinate with FDOT on the previously approved driveway connection to US 441 due to the increased traffic from this development.

Utilities (OCE Plans) (Utilities)		08/29/2024	11/17/2025	Approved

SUBMITTAL SUMMARY REPORT (30312)

Comments

N/A Marion County Utilities Contact Information
YES Parcel numbers identified in project match proposed site plan layout 4593-006-001
YES 6.14.2.A(1) - Public water service area/provider MCU service area; connect to existing mains; no new mains required (sewer main crossing required)
YES 6.14.2.A(1) - Public sewer service area/provider
N/A 6.14.2.A(1) - Letter of Availability and Capacity (w/Location Map of water and/or sewer as app) from provider
YES 6.14.2.A - Water Connection Requirements
YES 6.14.2.A - Sewer Connection Requirements
YES 6.14.2.C.2(e) - Grease Trap, FOG Worksheet Download FOG worksheet from MCU's website https://utilities.marionfl.org/home/showpublisheddocument/21125/637320634150530000 and return with submittal. Grease trap shall be sized in accordance with Code & IP Ordinance; show flows to support sizing. Include specs and cleaning schedule. All of these items can be included in the "Documents" section as "FOG Package" for review at resubmittal.
N/A 6.14.2.C - Industrial Pretreatment
N/A 6.14.3 - Onsite Waste Treatment and Disposal System (OSTDS) - connection requirement on plan
YES 6.14.3.B - Springs Protection Zone secondary
YES 6.14.4 - Water (potable) Capital Charges and Flow Rates - proposed use identified to calculate Capacity Charges for sewer, domestic water, and irrigated water (as applicable) will be calculated at the time of building permit application, or meter(s) request - whichever comes first. A Capacity Charge calculator will be required to determine these fees, and will be invoiced as part of the connection fees, and when related to a building permit, required to be paid prior to the release of that building permit.
YES 6.14.4 - Water (irrigation) Capital Charges and Flow Rates - total irrigated area identified It is assumed in the absence of an irrigation meter on the utility plan that irrigation will be done by private well; CONFIRM
YES 6.14.4 - Sewer Capital Charges and Flow Rates - proposed use identified to calculate by water comment
YES 6.14.5.A(1) - Submittal Requirements - Existing on-site & off-site mains and service connections
YES 6.14.5.A(2) - Submittal Requirements - Proposed on-site & off-site mains and service connections
YES 6.14.5.A(3) - Submittal Requirements - Lift Stations layout, elevations, schedules 1. LS on this parcel vs. intent to drop into existing manhole and pump to LS to adjacent parcel as originally proposed.
2. LS data as markup sent to EoR 7/12/23 C14.0 & LS Details sheet 1
YES 6.14.5.A(6) - Submittal Requirements - Manhole locations, rim and invert elevations outside paved areas Locations of manholes on sheet C8.0 sent to EoR 7/12/23
YES 6.14.5.A(8) - Submittal Requirements - Connection to existing water system
YES 6.14.5.A(8) - Submittal Requirements - Connection to existing sanitary system Notes on C8.0 sent to EoR 7/12/23
YES 6.14.5.B - Construction Notes - Cover, horiz/vert datums, construction requirements
YES 6.14.5.B - Construction Notes - UT DETAILS - current LDC version New details as of 4/13/23 - please refer to MCU's website for CAD versions of all details: https://utilities.marionfl.org/i-want-to/find-construction-related-forms
YES 6.14.5.C - All issued permits related to this project shall be submitted to MCU (DOT, ROW, misc)
N/A 6.14.5.C - DEP permit for water mains to be constructed/owned by MCU
YES 6.14.5.C - DEP permit for water mains to be constructed/owned by developer Site Plan shall be DRC-approved prior to release of any DEP PWS or WW permit applications being signed out by MCU.
N/A 6.14.5.C - DEP permit for sewer mains to be constructed/owned by MCU
YES 6.14.5.C - DEP permit for sewer mains to be constructed/owned by developer by water comment
N/A 6.14.5.D - Hydraulic Analysis
N/A 6.14.6 - Design Criteria for Utility Systems to be owned/maintained by MCU
YES 6.14.7 - Construction Inspection - PLAN NOTE: Sheet C8.0 revise note 13 from Alejandro Rad/Construction Manager/352-307-6012 to Construction Officer/352-433-3128.
N/A 6.14.8.A - Completion and Closeout - PLAN NOTE: As-builts
N/A 6.14.9.A - Developer's Agreement
YES 6.14.9.B - Transfer of Facilities to Marion County Utilities - PLAN NOTE: In an effort to provide MCU's multiple division review support, confirm points of private/public demarcation, more efficiently process DEP permits/clearances, and expedite Bill of Sale documents when applicable, MCU requests mains and appurtances to be CONVEYED TO MCU for operation and maintenance be shown on the Utility Sheets as BLUE for water and GREEN for sewer. Utility features remaining under private/developer ownership post-Clearance can remain in black text. Developers not wishing to color-code Utility Sheets within ePlans shall submit highlighted utility sheets with respective DEP permit applications prior to MCU's approval of those documents. Identify if developer (a) has complied with the former at resubmittal, (b) will defer this identification to DEP permit application, or (c) does not apply (system and components remain developer retained post Clearance).
YES 6.14.9.B - Bill of Sale Required prior to DEP Clearance application sign-out for any assets to be owned/operated by MCU.
YES 6.15.1 - Potable Water Distribution System
N/A 6.15.2 - Decentralized Water System (WTP)
YES 6.15.3 - Fire Protection/Fire Flow Capacity defer to MCFR
YES 6.15.4 - Water Main Piping Installation
YES 6.15.5 - Water Service and Connection
YES 6.15.6.A - Potable Water Metering - individual/banked, size
N/A 6.15.6.B - Irrigation Water Metering - size nothing shown for MCU-metered irrigation
N/A 6.15.6.C - Sewer service only (water meter required/shown)
N/A 6.15.6.D - Meter Location
N/A 6.15.6.E - Meter Easements
N/A 6.15.6.F - Meter Boxes
YES 6.15.6.G & H - Meter Sizing
YES 6.15.7 - Cross Connection Control and Backflow Prevention
N/A 6.15.8 - Public Water Well Standards
N/A 6.15.9 - Wellfield and Water Supply
N/A 6.15.10 - Water Treatment Plants (WTP)
N/A 6.16.2 - Decentralized Wastewater Treatment Plant (WWTP)
N/A 6.16.4 - Wastewater Collection Systems (Gravity/Pressurized) Design
YES 6.16.5.A & B - Private Wastewater Pump Stations see comments emailed to EoR 7/12/23
N/A 6.16.5.C - Public Wastewater Pump Stations (MCU Standards)
N/A 6.17 - Water Reclamation/Reuse Facilities
N/A Article 7 - Construction Standards - PLAN NOTE:
YES Utilities Plan Review Fee per Resolution 15-R-583 - payable to Marion County Utilities POSTED IN CDPLUS
$130 review fee - this payment can be made by phone by calling 352-671-8686 prior to resubmittal to clear this checklist item.
YES Additional Utilities comments The former sheet C14.0 Lift Station Calcs was replaced by a new sheet C15.0 Lift Station Calcs but the original sheet still remains in the Documents view. Remove or reversion - to do this contact Development Review at 352-671-8686

for assistance. Both sheets cannot be in final approved set as they are conflicting.
N/A Additional Utilities comments
N/A Additional Utilities comments
N/A Additional Utilities comments
N/A Additional Utilities comments
N/A Additional Utilities comments
N/A Additional Utilities comments
N/A Additional Utilities comments
N/A Additional Utilities comments
N/A Additional Utilities comments

OCE: Plan Review Revision (DR) v.1

ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
911 Management (DR) (911 Management)	Jamie Waldron	07/10/2026	06/29/2026	Approved
Environmental Health (Plans) (Environmental Health)	Evan Searcy	07/10/2026	06/25/2026	Approved
Fire Marshal (Plans) (Fire)	Jonathan Kenning	07/10/2026	06/25/2026	Approved
Growth Services Planning & Zoning (DR) (GS Planning and Zoning)	Kenneth Odom	07/10/2026		Pending Assignment
Landscape (Plans) (Parks and Recreation)	Susan Heyen	07/10/2026	07/01/2026	Requires Re-submit

Comments 1. Tree mitigation calculations to be revised; show required inches, preserved inches, proposed inches 2. Label existing buffer previously approved 3. Shade tree quantities to be revised per tree mitigation revision 4. No more than 50% of one shade tree species for bio-diversity requirements 5. Provide buffer data tables showing required and provided plant materials 6. Adjust trees in south buffer and swap ornamental for shade trees. Check container sizes with Fla Grades and Standards 7. No volcano mulching or mulch against tree trunks will be accepted.

OCE Design (Plans) (Office of the County Engineer)	William Poole	07/10/2026	07/07/2026	Approved
OCE Property Management (Plans) (Office of the County Engineer)		07/10/2026		Pending Assignment

Comments
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]."

OCE Stormwater (Permits & Plans) (Office of the County Engineer)	Alexander Turnipseed	07/10/2026	06/25/2026	Informational

Comments Please provide a copy of the NPDES permit or NOI as well as the district permit prior to construction.

SUBMITTAL SUMMARY REPORT (30312)

ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
OCE Survey (Plans) (Office of the County Engineer)	Theresa Smail	07/10/2026	07/02/2026	Requires Re-submit
Corrections	6.4.7. Construction Plans - Survey Requirements (**Not Resolved**) - 6.4.7. Construction Plans - Survey Requirements: Survey information to support construction plans, including but not limited to Mass Grading, Improvement, or Major Site plans, shall meet requirements as set forth in Ch. 5J-17 FAC in addition to the following as identified in Section 6.4.7.A. through H. of the LDC.			
Corrections	6.2.1.F - North Arrow (**Not Resolved**) - 6.2.1.F - North Arrow: Provide north arrow and graphic drawing and written scale			
Corrections	Additional Survey Comments (**Not Resolved**) - Additional Survey Comments			
Corrections	6.2.1.A. - Licensed Professional (**Not Resolved**) - 6.2.1.A. - Licensed Professional: Plans shall be prepared by a professional licensed by the State of Florida. The name, street address, signature, date, license number, and seal of the responsible professional shall be shown on each plan sheet. The same shall be provided on the cover page of any supporting documents and calculations.			
Corrections	2.12.10 - Easement or land reservation (**Not Resolved**) - **Corrective Action:** Please provide - 2.12.10 - Easement or land reservation: Show any known existing or proposed easement or land reservation			
Corrections	Major Site Plan (**Not Resolved**) - Please provide current boundary and topographic (less than 12 months old) survey with all required information.			
Corrections	2.12.8. - Current boundary and topographic survey (**Not Resolved**) - 2.12.8. - Current boundary and topographic survey: Current boundary and topographic survey (one foot contour intervals extending 100 feet beyond the project boundary) based upon accepted vertical datum. Surveys will be less than 12 months old and accurately reflect current site conditions, meeting standards set forth in Ch. 5J-17 FAC. Alternate topographic data may be accepted if pre-approved by the Marion County Land Surveyor.			
Corrections	6.2.1.E - Drawing legend (**Not Resolved**) - 6.2.1.E - Drawing legend: Provide a drawing legend as needed.			
OCE Traffic (Permits & Plans) (Office of the County Engineer)	Sydney Oberdorfer	07/10/2026	06/26/2026	Approved
Utilities (OCE Plans) (Utilities)	Heather Proctor	07/10/2026	06/26/2026	Approved
Comments	The parcel is within the Marion County Utilities service area and is currently connected to public water and sewer service. Marion County Utilities previously approved the utility connections under Plan No. 30312 on September 9, 2024. With the proposed landscape changes, please ensure that no plants are installed within 5 feet of the water meters and that no trees are planted within 10 feet of the water meters or water service line.			

SITE CONSTRUCTION PLANS

FOR

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

SECTION 16, TOWNSHIP 17, RANGE 23

MARION COUNTY, FL

SITE ADDRESS:

TBD

PREPARED FOR:

AMPROP ENTERPRISES

SUMMERFIELD LLC

4201 W CYPRESS STREET, TAMPA, FL 33607

813-854-2211

SITE DATA

PARCEL ID NUMBERS:	4593-006-001
SITE ADDRESS:	TBD
EXISTING ZONING:	B2 – COMMUNITY BUSINESS
EXISTING LAND USE:	VACANT COMMERCIAL
EXISTING OVERLAY ZONE:	SECONDARY SPRINGS OVERLAY ZONE
EXISTING FLOOD ZONE:	ZONE 'X' PANEL #: 12083C 0745 D, COMMUNITY # 120160 DATED: 8/28/08
DEVELOPMENT TYPE:	COMMERCIAL
BUILDING USE:	GAS STATION WITH CONVENIENCE STORE
BUILDING GROSS FLOOR AREA:	5,915 SF
MAX BUILDING HEIGHT:	50'
PARKING CALCULATIONS:	
TOTAL REQUIRED PARKING: (1 SPACE / 300 SF)	20 SPACES (5,915/300)
PROVIDED PARKING:	53 SPACES
PRE-DEVELOPED IMPERVIOUS SURFACE:	
TOTAL AREA (BUILDINGS, PAVEMENT, ETC.):	17,344 SF
TOTAL AREA TO BE DEMOLISHED:	12,350 SF
POST-DEVELOPED IMPERVIOUS SURFACE:	
EXISTING IMPERVIOUS AREA TO REMAIN:	4,994 SF
BUILDINGS:	5,915 SF
*PEDESTRIAN CONCRETE:	3,761 SF
*VEHICLE USE CONCRETE:	24,047 SF
*PAVEMENT (VUA):	32,138 SF
TOTAL:	70,855 SF = 1.627 AC (63.0%)
EXISTING FLOODPLAIN COMPENSATION AREA:	17,811 SF = 0.409 AC (15.8%)
OPEN SPACE:	23,828 SF = 0.547 AC (21.2%)
TOTAL AREA:	112,494 SF = 2.583 AC (±)
F.A.R.:	5,915 SF/112,494 SF = 0.05
*NOT INCLUDING IMPERVIOUS AREAS INSIDE THE RIGHT-OF-WAY	
OWNER:	AMPROP ENTERPRISES SUMMERFIELD, LLC 4201 W CYPRESS ST TAMPA, FL 33607 813-854-2211
APPLICANT:	SAME AS OWNER
SURVEYOR:	ALTAMAX SURVEYING 910 BELLE AVENUE, SUITE 1100 CASSELBERRY, FL 32708 407-677-0200

SHEET INDEX

SHEET #	DESCRIPTION
C1.0	COVER
C2.0	GENERAL NOTES
C3.0	EXISTING CONDITIONS & DEMOLITION PLAN
C3.1-C3.2	OFF-SITE DEMOLITION PLAN
C4.0	EROSION CONTROL PLAN
C5.0	SITE PLAN
C5.1-C5.2	OFF-SITE SIGNING & MARKING PLAN
C6.0	PAVING & GRADING PLAN
C6.1-C6.2	OFF-SITE PAVING & GRADING PLAN
C7.0	DRAINAGE PLAN
C8.0	UTILITY PLAN
C9.0-C9.1	OFF-SITE CROSS SECTIONS
C10.0	CROSS SECTIONS & DETAILS SHEET
C11.0	DETAILS SHEET
C12.0	DETAILS SHEET
C13.0	UTILITY DETAILS SHEET
C14.0	UTILITY DETAILS SHEET
C15.0	LIFT STATION CALCULATIONS
L1.0	TREE REMOVAL PLAN
L2.0	LANDSCAPE PLAN
L3.0	LANDSCAPE DETAILS
L4.0	IRRIGATION PLAN

SUPPLEMENTAL SHEET INDEX

LIFT STATION DETAILS (BY OTHERS)

SURVEY (BY OTHERS)

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30312

APPROVAL DATE: 9/9/24

EXPIRATION DATE: 9/9/26

All construction shall conform to the construction standards contained in the Marion County Land Development Code, latest revision. Areas of the right-of-way disturbed during construction shall be dressed and sodded. Seed and mulch may be used if approved by the County Engineer or designee.

NOTICE

The approval of these plans is limited to construction under the jurisdiction of Marion County and does not substitute nor waive the requirements of other agencies for additional permits, as applicable, by state and/or federal laws.



LOCATION MAP

N.T.S

COUNTY REVISION NOTE

NO CHANGE TO THE WORK AS SHOWN ON THE APPROVED PLANS SHALL BE MADE WITHOUT NOTIFICATION TO AND APPROVAL BY THE OFFICE OF THE COUNTY ENGINEER.

N

N.T.S

CONCURRENCY NOTE

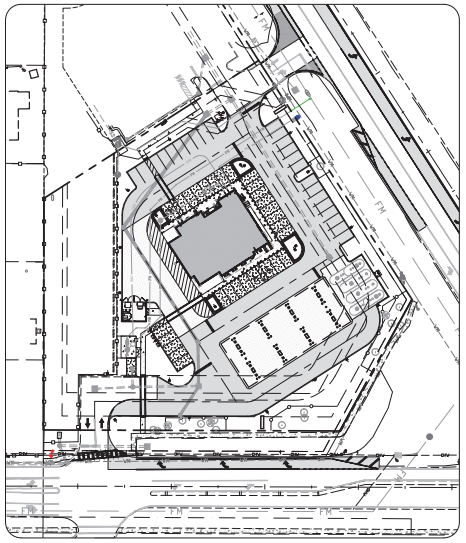
THIS PROJECT HAS NOT BEEN GRANTED CONCURRENCY APPROVAL AND/OR GRANTED AND/OR RESERVED ANY PUBLIC FACILITY CAPACITIES. FUTURE RIGHTS TO DEVELOP THE PROPERTY ARE SUBJECT TO A DEFERRED CONCURRENCY DETERMINATION, AND FINAL APPROVAL TO DEVELOP THE PROPERTY HAS NOT BEEN OBTAINED. THE COMPLETION OF CONCURRENCY REVIEW AND/OR APPROVAL HAS BEEN DEFERRED TO LATER DEVELOPMENT REVIEW STAGES, SUCH AS, BUT NOT LIMITED TO, OFF-SITE IMPROVEMENT PLAN PER SECTION 1.8.2.C (5).

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

LEGAL DESCRIPTION

A PORTION OF A REPLAT OF BLOCK F, LITTLE LAKE WEIR SUBDIVISION, FIRST ADDITION, AS RECORDED IN PLAT BOOK G, PAGE 92, PUBLIC RECORDS OF MARION COUNTY, FLORIDA AND FURTHER DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHWEST CORNER OF SAID BLOCK F OF LITTLE LAKE WEIR SUBDIVISION, FIRST ADDITION THENCE RUN N00°08'49"E, ALONG THE WEST BOUNDARY OF SAID BLOCK F, ALSO BEING THE EAST BOUNDARY OF SAID LEXINGTON HEIGHTS REVISED SUBDIVISION, A DISTANCE OF 27.00 FEET FOR A POINT OF BEGINNING; THENCE N00°08'49"E, CONTINUING ALONG SAID WEST BOUNDARY OF BLOCK F AND SAID EAST BOUNDARY OF LEXINGTON HEIGHTS REVISED SUBDIVISION, A DISTANCE OF 297.97 FEET; THENCE N57°18'27"E, LEAVING SAID WEST BOUNDARY OF BLOCK F AND SAID EAST BOUNDARY OF LEXINGTON HEIGHTS SUBDIVISION, A DISTANCE OF 272.85 FEET TO THE SOUTHWESTERLY RIGHT OF WAY LINE OF STATE ROAD 500 (U.S. HIGHWAY 441 SOUTH FLORIDA DEPARTMENT OF TRANSPORTATION) 200' RIGHT OF WAY MAP FOR STATE ROAD 500, SECTION 3622-101; THENCE RUN S39°41'57"E, ALONG SAID SOUTHWESTERLY RIGHT OF WAY, A DISTANCE OF 303.49 FEET; THENCE RUN S28°45'15"W, LEAVING SAID SOUTHWESTERLY RIGHT OF WAY, A DISTANCE OF 160.46 FEET; THENCE N89°47'43"W, A DISTANCE OF 317.00 FEET TO THE POINT OF BEGINNING.



PREPARED BY:

NATIVE engineering,pllc

P.O. BOX 2995

LAND O' LAKES, FL 34639

(813) 536-2539

ORIGINAL SET: JUNE 2023

REVISIONS

NO.	DATE	DESCRIPTION
-		
-		
-		
3	12/21/23	REVISED PER COUNTY & CLIENT COMMENTS
2	10/04/23	REVISED PER FDOT ACCESS COMMENTS
1	08/21/23	REVISED PER COUNTY & FDOT COMMENTS

WAIVERS REQUESTED

LDC SECTION & TITLE OF CODE	WAIVER REQUEST	CONDITIONS	MOTION RESULTS AND DRC DATE
LDC SECTION 6.13.8.(C7) – STORMWATER CONVEYANCE CRITERIA	CODE STATES SIZES, STORMWATER CONVEYANCE PIPES AND CROSS CULVERTS SHALL BE A MINIMUM OF 18 INCHES DIAMETER OR EQUIVALENT, DRIVEWAY CULVERTS SHALL BE A MINIMUM OF 15 INCHES DIAMETER OR EQUIVALENT FOR RESIDENTIAL USE AND A MINIMUM OF 18 INCHES DIAMETER OR EQUIVALENT FOR COMMERCIAL USE. ROOF DRAINS, PRIOR TO CONNECTION TO THE OVERALL STORMWATER SYSTEM, ARE EXEMPT FROM MINIMUM DIAMETER REQUIREMENTS. APPLICANT REQUESTS WAIVER BECAUSE THE STORM TABULATIONS, INCLUDED WITH OUR PIPE SIZING, SHOW THAT 15" STORM PIPING IS MORE APPROPRIATE FOR FOUR (4) OF THE PIPE RUNS; FROM ST-101 TO ST-102, ST-104 TO ST-106, ST-108 TO ST-102, AND ST-106 TO ST-103. FOR ALL OF THESE 15" PIPE RUNS, THE STORM TABS RESULT IN LESS THAN THE TYPICAL DESIGN VELOCITY OF 2.5 FPS. AN 18" PIPE WOULD RESULT IN EVEN SLOWER VELOCITIES. IN ADDITION, ALL STRUCTURES ARE BELOW THE HGEL.	----	----

I HEREBY CERTIFY THAT THESE PLANS AND CALCULATIONS WERE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS OF THE MARION COUNTY LAND DEVELOPMENT CODE (LDC), EXCEPT AS WAIVED;

4/8/26

JOSHUA S. BRADLEY, PE — DATE

ENGINEER'S CERTIFICATION

I HEREBY CERTIFY THAT I, MY SUCCESSORS, AND ASSIGNS SHALL PERPETUALLY MAINTAIN THE IMPROVEMENTS AS SHOWN ON THIS PLAN.

4/8/26

ERIC SCHOESSLER — DATE

AMPROP ENTERPRISES SUMMERFIELD, LLC

4201 W CYPRESS ST

TAMPA, FL 33607

813-854-2211

OWNER'S CERTIFICATION

JOSHUA S. BRADLEY

State of Florida, Professional Engineer,

License No. 60020

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JOSHUA S. BRADLEY, PE ON THE DATE INDICATED HERE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

C1.0

G:\SHARED DRIVES\CLIENTS\AMPROP\PROJECTS\1.23.012.00 - 441 & 147TH CONVENIENCE STORE\DRAWINGS\C1.0 COVER.DWG - 8/26/2024 11:02 AM

GENERAL NOTES

1. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS SPECIFIED BY THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE PROPOSED IMPROVEMENTS, THE ENGINEER, AND THE ARCHITECT.
2. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, AND SCHEDULE ANY NECESSARY INSPECTIONS ACCORDING TO AGENCY INSTRUCTIONS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE DEWATERING PLAN APPROVED BY THE WATER MANAGEMENT DISTRICT OR FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, AS APPLICABLE.
3. ALL SPECIFICATIONS AND DOCUMENTS REFERRED TO IN THESE PLANS SHALL BE OF THE CURRENT REVISION.
4. THE FOLLOWING DOCUMENTS ARE CONSIDERED THE GOVERNING STANDARDS FOR THE PREPARATION OF THE SITE CONSTRUCTION PLANS.
   - FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION)
   - FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS (LATEST EDITION)
   - MARION COUNTY LAND DEVELOPMENT CODE FOR DESIGN AND CONSTRUCTION STANDARDS
5. THE CONTRACTOR SHALL OBTAIN AND FULLY FAMILIARIZE HIMSELF WITH THE CONTENTS OF THE ABOVE SPECIFICATIONS AND GUIDELINES. IN THE EVENT THAT A DISCREPANCY OCCURS BETWEEN THESE PLANS AND THE AFOREMENTIONED SPECIFICATIONS, THE SPECIFICATIONS SHALL TAKE PRECEDENCE, UNLESS OTHERWISE DIRECTED BY THE ENGINEER IN WRITING. THE CONTRACTOR SHALL MAINTAIN AN 'APPROVED FOR CONSTRUCTION' PLANS SET ALONG WITH A COPY OF ALL THE DOCUMENTS NOTED ABOVE ON THE PROJECT SITE AT ALL TIMES.
6. ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK. ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP ARE TO BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE MARION COUNTY CODE OF ORDINANCES AND STANDARDS.
7. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL PRE–CAST AND MANUFACTURED ITEMS TO THE ENGINEER FOR APPROVAL. FAILURE TO OBTAIN APPROVAL BEFORE FABRICATION AND/OR INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE. A MINIMUM OF TWO WEEKS SHOULD BE PROVIDED FOR ENGINEER'S REVIEW.
8. WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED BY OTHER CONTRACTORS AND UTILITY COMPANIES WITHIN AND ADJACENT TO THIS PROJECT. IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES, WHERE NECESSARY, WITH OTHER CONTRACTORS AND UTILITY COMPANIES (INCLUDING, BUT NOT LIMITED TO LIGHTING, POWER, TELEPHONE, CABLE, GAS, ETC...).
9. THE WATER, SANITARY SEWER, AND STORM DRAINAGE FACILITIES ARE SUBJECT TO THE REVIEW AND APPROVAL OF APPLICABLE AGENCIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN THE REQUIRED PERMITS TO PERFORM WORK IN THE PUBLIC RIGHT–OF–WAY, IF APPLICABLE.
10. IT WILL BE NECESSARY TO EXAMINE, COORDINATE AND ADJUST ACCORDINGLY THE PROPOSED LOCATIONS OF THE VARIOUS COMPONENTS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT COORDINATION DRAWINGS SHOWING PIPE SIZES, STRUCTURES, AND ELEVATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SCHEDULING AND COORDINATION OF THE UNDERGROUND WORK ASSOCIATED WITH THIS PROJECT.
11. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY ENVIRONMENTAL PROTECTION AGENCY PERMITTING WHERE REQUIRED. THIS INCLUDES FILING A NPDES NOTICE OF INTENT.
12. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR CALLED FOR IN THIS CONTRACT.
13. ALL UNDERGROUND UTILITIES MUST BE IN PLACE AND TESTED OR INSPECTED PRIOR TO BASE AND PAVEMENT CONSTRUCTION.
14. FORTY–EIGHT (48) HOUR NOTICE IS REQUIRED TO THE ENGINEER PRIOR TO SITE INSPECTIONS AND/OR WITNESSING OF STORM, WATER, AND SEWER TESTING.
15. CONTRACTOR SHALL SCHEDULE AND COORDINATE A PRE–CONSTRUCTION CONFERENCE WITH AGENCIES HAVING JURISDICTION.
16. CONTRACTOR SHALL VERIFY LOCATIONS AND DEPTHS OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE OWNER OR ENGINEER IMMEDIATELY FOR RESOLUTION.
17. THE DIMENSIONS AND LOCATIONS OF THE PROPOSED BUILDINGS SHOWN HEREON ARE APPROXIMATE ONLY. DO NOT UTILIZE SAID MEASUREMENTS FOR BUILDING LAYOUT. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS, LOCATION, AND CONNECTION TO ADJACENT STRUCTURES, DESIGNED BY OTHERS.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES WHETHER OR NOT THEY ARE INDICATED ON THESE PLANS, AND SHALL NOTIFY ALL UTILITY OWNERS A MINIMUM OF 48 HOURS IN ADVANCE OF CONSTRUCTION COMMENCEMENT. CONTRACTOR SHALL ABIDE BY FLA, STATUTE UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT (CALL 1–800–432–4770). THE CONTRACTOR IS RESPONSIBLE FOR THE REPLACEMENT TO AS–NEW CONDITION OF ANY EXISTING FACILITY OR UTILITY DAMAGED BY HIM, WHETHER OR NOT SHOWN HEREON. THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH ALL UTILITY COMPANIES AND GOVERNING AGENCIES NECESSARY FOR CONSTRUCTION OF THE PROJECT, INCLUDING BUT NOT LIMITED TO THE MARION COUNTY WATER & WASTEWATER DEPARTMENTS, SUMTER ELECTRIC COOPERATIVE, TECO PEOPLES GAS, FRONTIER, AND SPECTRUM.
19. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN PERMITS FOR ALL ON–SITE AND OFF–SITE WORK REQUIRED BY APPROPRIATE AGENCIES.
20. DEVIATIONS FROM THIS DRAWING ARE NOT PERMITTED WITHOUT THE WRITTEN CONSENT OF THE ENGINEER. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES IN THE DRAWINGS PRIOR TO PROCEEDING.
21. ALL REQUIRED FILL SHALL MEET THE ARCHITECT'S SPECIFICATIONS.
22. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND LABOR REQUIRED FOR THE CONSTRUCTION, TESTING, INSPECTION AND COMPLETION OF THE PROJECT.
23. THE CONTRACTOR SHALL REPLACE ALL SURVEY STAKES DESTROYED.
24. THE CONTRACTOR SHALL NOTIFY ALL MARION COUNTY INSPECTION PERSONNEL OF THE CONSTRUCTION SCHEDULE AS THEY SO REQUIRE.
25. IT IS THE INTENT OF THIS DESIGN TO CONFORM TO ALL APPLICABLE ADA CODES AND REGULATIONS, BUT THE ENGINEER DOES NOT WARRANT OR GUARANTEE SAME TO THE USER OF THESE PLANS. THE USER OF THIS PLAN SHALL BECOME FAMILIAR WITH SAID ADA PROVISIONS AND ADD SAME TO THIS PLAN AS NECESSARY TO CONFORM TO SAID CODES.
26. ALL CONSTRUCTION WILL COMPLY WITH THE LATEST FLORIDA FIRE PREVENTION CODE AND FLORIDA BUILDING CODE.
27. PRIOR TO CONSTRUCTION COMMENCEMENT, THE CONTRACTOR SHALL OBTAIN FROM THE ENGINEER AND/OR THE OWNER COPIES OF ALL PERTINENT PERMITS AND APPROVALS RELATED TO THIS PROJECT. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE PERMIT CONDITIONS AND INSPECTION REQUIREMENTS SPECIFIED BY THE PERMITS AND VARIOUS GOVERNMENTAL AGENCIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY POST ALL PERMITS ON–SITE AND TO ASSURE ALL CONSTRUCTION ACTIVITIES ARE IN COMPLIANCE WITH THE CONDITIONS OF ALL PERMITS AND APPROVALS. THE CONTRACTOR SHALL SCHEDULE ANY NECESSARY INSPECTIONS ACCORDING TO AGENCY INSTRUCTIONS.
28. AREAS DISTURBED BY THE CONTRACTOR OUTSIDE OF THE CONSTRUCTION SITE SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE PRE–CONSTRUCTION CONDITION.
29. THE CONTRACTOR SHALL NOT UNDERTAKE ANY WORK HE BELIEVES OR DEEMS WILL CONSTITUTE A CHANGE ORDER WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER AND THE OWNER.
30. THE CONTRACTOR SHALL MAINTAIN A SET OF FIELD DRAWINGS DEPICTING AS–BUILT CONDITIONS OF ALL IMPROVEMENTS, NOTING ANY FIELD ADJUSTMENTS. THE DRAWINGS SHALL INCLUDE VERTICAL AND HORIZONTAL LOCATIONS OF ALL IMPROVEMENTS AND SYSTEMS, INCLUDING SLOPE OF PIPES; TYPES OF PIPE FOR UTILITY SYSTEMS IF DIFFERENT FROM DESIGN; STORM STRUCTURES AND PIPE INVERTS, INCLUDING OUTFALL PIPE DATA; UTILITY CROSSING DETAILS IF DIFFERENT FROM DESIGN; HORIZONTAL LOCATION OF PRESSURE PIPE SYSTEMS IF DIFFERENT FROM DESIGN LOCATIONS; AND ALL OTHER DATA INDICATING DEVIATIONS FROM DESIGN, AS APPLICABLE. THE CONTRACTOR SHALL BE RESPONSIBLE TO SUBMIT A CERTIFIED SET OF "AS BUILTS", PREPARED IN ACCORDANCE WITH F.A.C. RULE 5J–17.052(1), TO THE ENGINEER. EACH SHEET OF THE PLANS SHALL BE SIGNED, SEALED AND DATED BY A PROFESSIONAL LAND SURVEYOR LICENSED TO PERFORM LAND SURVEYING SERVICES IN THE STATE OF FLORIDA. THE ENGINEER SHALL REVIEW THE "AS BUILTS" AND CONVERT THEM INTO RECORD DRAWINGS.
31. WORK PERFORMED BY THE CONTRACTOR SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED ON SITE OR ADJACENT TO THE SITE, BY OTHER CONTRACTORS AND UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES, WHERE NECESSARY, WITH OTHER CONTRACTORS AND UTILITY COMPANIES, INCLUDING BUT NOT LIMITED TO COUNTY SUBCONTRACTORS AND UTILITY COMPANIES LISTED IN NOTE 5 ABOVE.
32. CONSTRUCTION HYGEINE AND OVERALL CLEANUP SHALL BE ACCOMPLISHED BY THE CONTRACTOR IN ACCORDANCE WITH STATE AND COUNTY STANDARDS, OR AS DIRECTED BY THE ENGINEER AND OWNER, TO THE SATISFACTION OF THE OWNER.
33. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ACCESS TO PRIVATE PROPERTY. ANY DAMAGE CAUSED BY THE CONTRACTOR IN THE PERFORMANCE OF HIS WORK SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER AND THE OWNER AT THE CONTRACTOR'S EXPENSE.
34. ANY DAMAGE TO STATE, COUNTY, OR LOCAL ROADS CAUSED BY THE CONTRACTOR'S HAULING OR EXCAVATION EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER, THE OWNER, AND THE APPLICABLE GOVERNMENTAL AGENCY.
35. ANY U.S.C. & G.S. MONUMENT WITHIN LIMITS OF CONSTRUCTION IS TO BE PROTECTED BY THE CONTRACTOR.
36. THIS DRAWING DELINEATES PAVEMENT AND DRAINAGE CONSTRUCTION ONLY (TO WITHIN 5 FT. OF ANY BUILDING) AND EXCLUDES WATERPROOFING, RETAINING WALL, VENTILATION OR STRUCTURAL DESIGNS. THE CONTRACTOR SHALL REFER TO THE DRAWINGS BY OTHERS TO INSURE SAID SUPPORT DESIGNS ARE COMPLETE AND DO NOT CONFLICT WITH THIS DRAWING PRIOR TO ANY OTHER CONSTRUCTION.
37. EROSION / SEDIMENTATION CONTROL – THE CONTRACTOR SHALL SUPPLY ALL EROSION / SEDIMENTATION BARRIERS (HAY BALES OR SILTATION CURTAIN) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS AND WATERWAYS. IN ADDITION, THE CONTRACTOR SHALL PLACE STRAW, MULCH OR OTHER SUITABLE MATERIAL ON THE GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT THE SITE. EROSION CONTROL MEASURES ARE TO BE IN PLACE AT THE START OF CONSTRUCTION AND TO REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETED. THE CONTRACTOR IS TO INSPECT BARRIERS FOR DAMAGE DURING CONSTRUCTION AND MAINTAIN AS NEEDED. IF, IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF–SITE EITHER BY NATURAL DRAINAGE OR BY VEHICULAR TRAFFIC, THE CONTRACTOR IS TO REMOVE AND CLEAN SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES.
38. THE SITE SHALL BE FINE GRADED SUCH THAT ONLY STORM WATER RUNOFF INTENDED TO ENTER THE POND SHALL DO SO. ALL OTHER RUNOFF SHALL BE DIVERTED AROUND THE POND SO AS NOT TO CREATE A POINT DISCHARGE OR DETRIMENTALLY AFFECT ANY ADJACENT PROPERTIES OR RIGHTS–OF–WAY.
36. ALL METALLIC CULVERT PIPE MUST BE BITUMINOUS COATED PER AASHOM–190. ONLY D.I.P. AND R.C.P. CULVERT PIPE MAY BE INSTALLED WITHIN THE MARION COUNTY RIGHTS–OF–WAY. ONLY FLORIDA REGISTERED STORM SEWER CONTRACTORS MAY INSTALL DRAINAGE CULVERTS WITHIN PRIVATE PROPERTY. REGISTERED UTILITY CONTRACTORS MAY INSTALL CULVERT PIPES WITHIN MARION COUNTY RIGHTS–OF–WAY.
37. CONSTRUCTION SHOWN ON THIS PLAN IS PERMITTED ONLY FOR THE WORK LOCATED WITHIN PRIVATE PROPERTY. ALL WORK WITHIN CITY RIGHTS–OF–WAY AND EASEMENTS WILL REQUIRE A SEPARATE PERMIT (TO BE OBTAINED BY THE CONTRACTOR) AND MAY REQUIRE ALTERATION TO THE CONSTRUCTION OR MATERIALS SHOWN ON THESE PLANS. RIGHT–OF–WAY PERMIT APPLICATIONS SHOULD BE SUBMITTED NO LATER THAN 30 DAYS BEFORE THE RIGHT–OF–WAY OR EASEMENT WORK IS TO COMMENCE. RIGHT–OF–WAY PERMIT REQUIRED PRIOR TO INITIATING CONSTRUCTION WITHIN CITY RIGHT–OF–WAY.
38. ALL SIGNAGE AND STRIPING TO COMPLY WITH THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.), LATEST EDITION.
39. WITHIN 30 DAYS OF CONSTRUCTION COMPLETION THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH AN AS–BUILT SURVEY SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR SHOWING ALL DIMENSIONS, ELEVATIONS AND IMPROVEMENTS SHOWN ON THIS PLAN TO SUCH DETAIL AS THE ENGINEER NEEDS IN ORDER TO VERIFY WHETHER CONSTRUCTION HAS BEEN COMPLETED IN ACCORDANCE WITH THE DESIGN DRAWINGS.
40. ALL INLETS AND GRATE TOPS SHALL BE DESIGNED AND FURNISHED AS H–20 LOAD BEARING.
41. ALL EXISTING STORM MANHOLES THAT CONFLICT WITH THE PROPOSED ROAD AND/OR SIDEWALK GRADE SHALL BE ADJUSTED TO MATCH THE PROPOSED ROAD OR SIDEWALK ELEVATION IN ACCORDANCE WITH CITY STANDARDS, UNLESS OTHERWISE NOTED IN THE PLANS. ADJUSTED MANHOLE LIDS SHALL BE REPLACED WITH U.S. FOUNDRY 575 RING AND COVER.
42. ASPHALT & BASE TESTING REQUIREMENTS SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) AND AS NOTED BELOW.
   - 42.a. LOT SIZE SHALL BE BASED ON 2,000 TONS OF ASPHALT WITH A MINIMUM OF TWO PAVEMENT CORE SAMPLES REQUIRED PER SUBLOT. CORE SAMPLE LOCATIONS SHALL BE RANDOMLY SELECTED BY THE ENGINEER.
   - 42.b. BASE TESTING SHALL BE IN ACCORDANCE WITH SECTION 200. ALL TESTING RESULTS SHALL BE PROVIDED TO THE ENGINEER PRIOR TO ACCEPTANCE.

FDOT GENERAL NOTES:

ALL CONSTRUCTION AND/OR MAINTENANCE ON THE FDOT RIGHT OF WAY SHALL CONFORM TO THE CURRENT FEDERAL MANUAL ON UNIFORM TRAFFIC DEVICES (MUTCD), THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL (LATEST EDITION), THE FDOT DESIGN MANUAL (FDM), THE STANDARD PLANS FOR ROAD CONSTRUCTION, THE STANDARD SPECIFICATIONS FOR BRIDGE CONSTRUCTION, PLANS PREPARATION MANUAL AND DRAINAGE MANUAL.

1. ANY NEW PROPOSED PLAN SHALL INCLUDE CROSS SECTIONS OF THE STATE ROAD ADEQUATELY REFLECTING ALL RIGHT OF WAY FEATURES INCLUDING EXISTING UTILITIES, STORM DRAIN STRUCTURES AND ANY ABOVE OR BELOW GROUND APPURTENANCES WHERE APPLICABLE.
2. ALL FDOT RIGHT–OF–WAY MUST BE RESTORED WITH ARGENTINA BAHIA SOD, MESH FREE.
3. FOR ANY EXISTING DRIVEWAYS AND ROADWAY TIE–IN POINTS THAT ARE TO BE REMOVED, THE DROP CURB AND DRIVEWAY/ROADWAY APRONS SHALL BE REMOVED AND AREA RE–GRADED AND RESTORED WITH TYPE 'F' CURB AND STANDARD SIDEWALK THAT CONFORMS WITH F.D.O.T. STANDARD PLANS INDEX #520–001 & 522–001.
4. PRIOR TO REMOVAL OF ANY MATERIALS THE AREA MUST BE SAWCUT TO PREVENT ANY DAMAGE TO THE ROADWAY.
5. OPEN CUTTING OF ANY ROADWAY, DRIVEWAY OR SIDEWALK OUTSIDE THOSE LIMITS IDENTIFIED WITHIN THE PERMIT ARE NOT ALLOWED WITHOUT PRIOR APPROVAL OF BY THE F.D.O.T.
6. NO STOCK PILING, STORING OR SEMI–PERMANENT USE OF THE RIGHT OF WAY IS AUTHORIZED UNLESS SPECIFICALLY IDENTIFIED WITHIN THE PERMIT.
7. CONTRACTOR IS REQUIRED TO HAVE A PRE–CONSTRUCTION MEETING 2 WEEKS PRIOR TO ANY CONSTRUCTION.
8. NO WORK SHALL BE PERFORMED DURING THE WEEKS OF ANY STATE OR FEDERAL HOLIDAYS UNLESS OTHERWISE APPROVED IN WRITING BY THE F.D.O.T.
9. THE CONTRACTOR SHALL HAVE AN AUTHORIZED PERSON AVAILABLE AT / OR NEAR THE WORK SITE ON A 24 HOUR BASIS, 7 DAYS A WEEK IN ORDER TO ADDRESS EMERGENCY ISSUES ASSOCIATED WITH THE PROJECT.
10. NO LANE CLOSURES FROM 8:00 AM TO 7:00 PM NORTHBOUND AND NO LANE CLOSURES FROM 7:00 AM TO 6:00 PM SOUTHBOUND.
11. THE PERMITTED WORK SCHEDULE IS DEFINED AS MONDAY THROUGH FRIDAY 7:00 AM TO 5:30 PM UNLESS OTHERWISE NOTED WITHIN THE PERMIT. ANY WORK DESIRED OUTSIDE OF THIS PERIOD MUST BE REQUESTED IN ADVANCE AND APPROVED BEFORE WORKING THE ALTERNATE SCHEDULE.
12. ALL TRAFFIC STRIPES AND PAVEMENT MARKINGS ARE TO BE LEAD–FREE, NON–SOLVENT BASED THERMOPLASTIC. THE PERMITTEE SHALL FURNISH THE DEPARTMENT WITH THE MANUFACTURER'S CERTIFICATION THAT THE THERMOPLASTIC IS "LEAD–FREE". REMOVAL OF EXISTING STRIPING SHALL BE DONE BY MILLING AND RESURFACING OF THE FRICTION/SURFACE COURSE TO OBLITERATE OBSOLETE PAVEMENT MARKINGS.
13. ALL PROPOSED TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH AND CONSTRUCTED TO THE FDOT DESIGN STANDARDS INDEX SERIES 700–010 AND 711–001 SERIES. THE PROPERTY OWNER MUST MAINTAIN THE TRAFFIC SIGNS AND MARKINGS FOR THE DRIVEWAY.
14. THE FDOT REQUIRES DOCUMENTATION FOR SUCCESSFUL COMPLETION OF AN APPROVED WORK ZONE TRAFFIC CONTROL TRAINING COURSE FOR THE AGENCY, UTILITY OR CONTRACTOR EMPLOYEE(S) DESIGNING, INSTALLING AND/OR MAINTAINING THE APPROVED MAINTENANCE OF TRAFFIC PLAN. DOCUMENTATION IS TO BE FURNISHED TO THE DEPARTMENT AT THE PRE–CONSTRUCTION MEETING OR BEFORE OCCUPYING STATE RIGHT–OF–WAY DEMONSTRATING COMPLIANCE WITH DEPARTMENT PROCEDURE, TOPIC NO. 625–010–010.
15. MAINTENANCE OF TRAFFIC PLAN FOR WORK ZONES SHALL BE IN CONFORMANCE WITH ALL APPLICABLE INDICES OF THE FDOT STANDARD PLANS INDEX 102–600, 102–602, & 102–660 SERIES ACCORDING TO THE TYPE OF ROADWAY AND TYPE OF WORK BEING PERFORMED.
16. POSTED SPEED ALONG SR441 (US HWY 27) IS 55 MPH. ALL TEMPORARY TRAFFIC CONTROL DEVICES MUST BE DESIGNED AND CONSTRUCTED TO MEET THIS POSTED SPEED.
17. NO PEDESTRIAN PATHWAY IS TO BE REMOVED, BLOCKED, OR DISTURBED WITHOUT HAVING A SUFFICIENT DESIGNATED TEMPORARY PEDESTRIAN PATHWAY WITH ALL APPROPRIATE PEDESTRIAN MAINTENANCE OF TRAFFIC SIGNS (STANDARD PLANS INDEX 102–660) IN PLACE PRIOR TO PATHWAY BEING AFFECTED.
18. **THE DETECTIBLE WARNING SURFACE MATERIALS MUST BE ON THE STATE'S APPROVED PRODUCTS LIST. (NON–PROPRIETARY).
19. **MAINTENANCE OF TRAFFIC PLAN MUST INCLUDE FDOT STANDARD PLANS INDEX 102–660 PEDESTRIAN CONTROL FOR CLOSURE OF SIDEWALKS. A TEMPORARY PEDESTRIAN PATHWAY SHALL BE CONSTRUCTED BETWEEN THE EXISTING BACK–OF–CURB AND THE PROPOSED SIDEWALK. THIS TEMPORARY PEDESTRIAN PATHWAY IS TO BE CONSTRUCTED PRIOR TO THE REMOVAL OF THE EXISTING SIDEWALK AND SHALL REMAIN IN PLACE UNTIL PROPOSED SIDEWALK IS COMPLETED.

**FOR EXISTING FACILITIES WITH PUBLIC SIDEWALK WITHIN FDOT RIGHT OF WAY.

20. ALL TEMPORARY PEDESTRIAN PATHWAYS MUST BE FIRM AND UNYIELDING.
21. USE STANDARD #520–001, #522–002, AND #522–001 FOR THE CONSTRUCTION OR RECONSTRUCTION OF SIDEWALK & CURB – MUST MEET CURRENT ADA STANDARDS AND ALL CONCRETE PLACED IN THE RIGHT–OF–WAY SHALL BE A MINIMUM OF 6" THICK, CLASS 1, NON–STRUCTURAL 3,000 PSI WITH FIBER MESH MATERIAL.
22. ALL CONCRETE PLACED IN THE RIGHT–OF–WAY SHALL BE A MINIMUM OF 6" THICK, FDOT CLASS 1 NON–STRUCTURAL, 2,500 PSI CONCRETE WITH FIBER MESH MATERIAL FROM A STATE APPROVED PLANT.
23. ANY SIDEWALK DAMAGED DURING CONSTRUCTION SHALL BE REMOVED AND REPLACED WITHIN 72 HOURS WITH A MINIMUM OF 6" THICK, CLASS 1, NON–STRUCTURAL 2,500 PSI WITH FIBER MESH MATERIAL.
24. ALL CHANGES MUST GO THROUGH THE EOR AND BE SUBMITTED AS A REVISION REQUEST IN OSP, THE DEPARTMENT MUST APPROVE ALL CHANGES.
25. THE PERMITTEE SHALL NOTIFY THE FDOT OF DATE COMPLETION, REQUEST A FINAL INSPECTION AND A NOTICE OF FINAL ACCEPTANCE.
26. THE DEPARTMENT RESERVES THE RIGHT TO MAKE ADJUSTMENTS TO ANY PERMITTED METHODS OF INSTALLATION, SCOPE OF WORK AND RESTORATION THAT MAYBE REQUIRED TO POSITIVELY SUPPORT LIFE, SAFELY AND ENVIRONMENTAL WELL–BEING OF ALL USERS OF THE TRANSPORTATION SYSTEM.
27. PIPE CULVERTS SHOWN ON THE PERMIT MUST MEET FDOT SPECIFICATIONS, TYPE, SIZE, AND LENGTH AS DESCRIBED ON THE PERMIT. EACH JOINT OR LENGTH OF PIPE SHALL HAVE FDOT STAMPS AFFIXED VERIFYING THIS APPROVAL. ALL CONCRETE PIPE JOINTS OTHER THAN 1" RING JOINTS MUST BE DIAPERED. ALL CULVERTS TO BE INSPECTED BY FDOT PRIOR TO PLACEMENT OF FILL.
28. ROADWAY RESTORATION SHALL UTILIZE 100 PSI FLOWABLE FILL MATERIAL AND ASPHALT PLACED WITHIN THE STATE RIGHT OF WAY SHALL BE PLACED "FULL DEPTH", (2) 2.5 LIFTS OF SP 12.5, AND (2) LIFTS OF SP 9.5 AT 1.5" EACH TYPICAL SECTIONS WILL NEED TO BE PROVIDED WITHIN THE PLANS FOR THE PAVEMENT PLACEMENT. A STAIR STEP METHOD SHOULD BE INCORPORATED, PRIOR TO PLACING ASPHALT, IN ORDER TO AVOID VERTICAL JOINTS. MILLING OF THE PATCH MAY BE REQUIRED BASED ON THE PATCHED SURFACE PERFORMANCE. THE MILLING SHALL BE UTILIZED FOR SURFACE LEVELING TO A THICKNESS EQUAL TO OR GREATER THAN THE EXISTING FRICTION COURSE MATERIAL. THE MILLING LIMITS ARE 50 FT OF THE PATCH ALONG THE LONGITUDINAL PATH OF THE LANE, FULL LANE WIDTH AND TO INCLUDE ANY ADJACENT BIKE LANES, SHARED PATH OR URBAN SHOULDER SECTIONS.
29. THE DEPARTMENT WILL REVIEW THE REVISIONS TO THE PLANS AND IF NEEDED CHANGES ARE NECESSARY THE DEPARTMENT WILL ADDRESS IT AT THAT TIME.
30. ANY SIDEWALK FRONTING THE PROPERTY THAT IS CRACKED, DAMAGED OR UNSTABLE AND IS CREATING AN ADA TRIP HAZARD MUST BE REPLACED BY SECTION, USING STANDARD #520–001, #522–002, AND #522–001 FOR THE CONSTRUCTION OF SIDEWALK AND MEET CURRENT ADA STANDARDS.
31. IF THE EXISTING HAND HOLES IN THE SIDEWALK NEED TO BE ADJUSTED DURING THE RESTORATION OF THE SIDEWALK PLEASE CONTACT THE UTILITY TO HAVE THE HAND HOLES ADJUSTED OR NOTIFY THE UTILITY THAT THE CONTRACTOR WILL BE ADJUSTING THEM.
32. CONTRACTOR TO PROVIDE C.E.I. INSPECTION PER FDOT SPECIFICATION 105 "CONTRACTOR QUALITY CONTROL GENERAL REQUIREMENT".
33. CONTRACTOR TO CONTACT FDOT 48 HOURS BEFORE WORKING IN FDOT ROW 352–620–3000.
34. CONTRACTOR TO PROVIDE DENSITY TESTING IN FDOT ROW PER FDOT SPECIFICATIONS 120 & 125.
35. FOR WORK WITHIN FDOT RIGHT–OF–WAY, THE CONTRACTOR SHALL PROVIDE A TEMPORARY TRAFFIC CONTROL PLAN PREPARED UNDER THE DIRECTION OF, AND SIGNED AND SEALED BY, A LICENSED FLORIDA PROFESSIONAL ENGINEER WHO IS EXPERIENCED IN PREPARING TRAFFIC CONTROL PLANS AND WHO IS CERTIFIED PER FDOT PROCEDURE, TOPIC NO. 625–010–010. FOR WORK WITHIN FDOT RIGHT–OF–WAY, THE FDOT REQUIRES DOCUMENTATION FOR SUCCESSFUL COMPLETION OF AN APPROVED WORK ZONE TRAFFIC CONTROL TRAINING COURSE FOR THE AGENCY, UTILITY, OR CONTRACTOR EMPLOYEE(S) DESIGNING, INSTALLING, AND/OR MAINTAINING THE APPROVED MAINTENANCE OF TRAFFIC PLAN IN ACCORDANCE WITH DEPARTMENT PROCEDURE, TOPIC NO. 625–010–010. ALL TEMPORARY TRAFFIC CONTROL DEVICES FOR THE FOLLOWING FACILITIES SHALL BE DESIGNED AND INSTALLED TO MEET THE EXISTING POSTED SPEEDS AS STATED FOR ALL TRAFFIC CONTROL PHASES: SR 441 (US HWY 27) 55 MPH.
36. DESIGN CRITERIA ELEMENTS FOR US HWY 27 IS BASED ON DESIGN SPEED 55 MPH.
37. CONTRACTOR SHALL COMPLY WITH OSHA'S STANDARDS 29 CFR PART 1926, SUBPART CC FOR VERTICAL AND HORIZONTAL CLEARANCES TO THE OVERHEAD DISTRIBUTION AND TRANSMISSION POWER LINES.
38. CONTACT MARION COUNTY SIGNAL DEPARTMENT 48–HOURS PRIOR TO WORKING WITHIN THE RIGHT OF WAY. CONTACT IS STAN TAYLOR AT 352–671–8686.

SAFETY NOTES

1. DURING THE CONSTRUCTION AND MAINTENANCE OF THIS PROJECT, ALL OSHA SAFETY REGULATIONS ARE TO BE ENFORCED. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HIS PERSONNEL.
2. THE CONTRACTOR'S MAINTENANCE OF TRAFFIC PLAN MUST BE SUBMITTED AND APPROVED BY APPLICABLE AGENCIES AND ENGINEER PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES.
3. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF TRANSPORTATION AND CONSTRUCTION WORK PER STANDARD 1910.12.
4. CONTRACTOR SHALL PROVIDE AND MAINTAIN ITS OWN SAFETY EQUIPMENT IN ACCORDANCE WITH ITS HEALTH & SAFETY PROGRAM AND ALL OTHER APPLICABLE LEGAL AND HEALTH AND SAFETY REQUIREMENTS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING ITS EMPLOYEES AND SUB CONTRACTORS WITH ADEQUATE INFORMATION AND TRAINING TO ENSURE THAT ALL EMPLOYEES AND SUB CONTRACTORS AND SUB CONTRACTOR'S EMPLOYEES COMPLY WITH ALL APPLICABLE REQUIREMENTS. CONTRACTOR SHALL REMAIN IN COMPLIANCE WITH ALL OCCUPATION SAFETY AND HEALTH REGULATIONS AS WELL AS THE ENVIRONMENTAL PROTECTION LAWS. THE FOLLOWING IS NOT TO BE PERCEIVED AS THE ENTIRE SAFETY PROGRAM BUT JUST BASIC REQUIREMENTS.
5. ALL EXCAVATIONS BY THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF LABOR'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION RULES AND REGULATIONS AND FLORIDA TRENCH SAFETY ACT. PARTICULAR ATTENTION MUST BE PAID TO THE CONSTRUCTION STANDARDS FOR EXCAVATIONS, 29 CFR PART 1926, SUBPART P.
6. THE MINIMUM STANDARDS AS SET FORTH IN THE CURRENT EDITION OF "THE STATE OF FLORIDA, MANUAL ON TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS" SHALL BE FOLLOWED IN THE DESIGN APPLICATION, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND WORKMEN FROM HAZARDS WITHIN THE PROJECT LIMITS.
7. ALL TRAFFIC CONTROL MARKINGS AND DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PREPARED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION.
8. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATIONS.
9. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE UTILITY COMPANIES PRIOR TO CONSTRUCTION TO OBTAIN FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES. CALL SUNSHINE STATE ONE CALL AT 800–432–4770.

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30312
APPROVAL DATE: 9/9/24
EXPIRATION DATE: 9/9/26

All construction shall conform to the construction standards contained in the Marion County Land Development Code, latest revision. Areas of the right-of-way disturbed during construction shall be dressed and sodded. Seed and mulch may be used if approved by the County Engineer or designee.

NOTICE

The approval of these plans is limited to construction under the jurisdiction of Marion County and does not substitute nor waive the requirements of other agencies for additional permits, as applicable, by state and/or federal laws.

TESTING NOTES

1. TESTS SHALL BE LOCATED NO MORE THAN 500 FEET APART. TESTS SHALL BE PERFORMED ON EACH LIFT, EXCEPT THAT TESTS SHALL NOT BE FURTHER APART THAN ONE (1) FOOT VERTICALLY. FIELD DENSITIES SHALL BE TAKEN OVER ALL ROAD CROSSINGS. FIELD DENSITIES FOR SANITARY LINES SHALL BE STAGGERED TO INCLUDE RESULTS OVER SERVICE LATERALS. THERE SHALL BE A MINIMUM OF ONE (1) TEST SERIES FOR EACH 6 INCHES OF LIFT OVER PIPELINE BETWEEN MANHOLES. TESTS AROUND STRUCTURES SHALL BE SPIRALED IN 6 INCH LIFTS. TESTS AROUND BOX CULVERTS SHALL DONE ON BOTH SIDES EVERY LIFT.
2. FOR FLEXIBLE PIPE (CORRUGATED STEEL OR ALUMINUM), 95% OF MAXIMUM DENSITY (AASHTO–T99) PER FDOT SUPPLEMENTAL SPECIFICATIONS SUB ARTICLE 125–8.3.2 AS MODIFIED.
3. TESTS SHALL BE LOCATED NO MORE THAN 300 FEET APART. THERE SHALL BE NO LESS THAN THREE (3) TESTS PER ROAD.
4. APPLIES TO SITE CONCRETE SUCH AS CURBS, GUTTERS, FLUMES, DRIVEWAYS AND SIDEWALKS.
5. ENGINEER OF RECORD SHALL RECEIVE MATERIAL TESTING REPORTS NO LATER THAN ONE (1) WEEK FROM THE TEST DATE.
6. TESTING FOR RCP SHALL BEGIN AT THE SPRING LINE OF THE PIPE.
7. EMBANKMENT, FILL, AND BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED IN LIFTS NOT TO EXCEED TWELVE (12) INCHES VERTICALLY. EACH COMPACTED LIFT SHALL PASS THE AFOREMENTIONED TESTING CRITERIA BEFORE PROCEEDING TO THE NEXT VERTICAL LIFT.
8. DENSITY TESTS SHALL BE PERFORMED AT A MINIMUM FREQUENCY OF ONE TEST PER EVERY 250 SQUARE YARDS OF FILL MATERIAL BEING PLACED, PER VERTICAL LIFT.
9. IF SUCCESSIVE VERTICAL LIFTS ARE PLACED, THE DENSITY TESTS SHALL BE STAGGERED SO AS TO NOT BE REPEATED IN THE SAME LOCATION.

TESTING SCHEDULE

ITEM	TEST	TEST FREQUENCY
PIPE TRENCH BACK FILL OVER PIPELINES AND AROUND STRUCTURES FROM R.O.W. LINE TO R.O.W. LINE AND IN STRUCTURAL AREAS	OPTIMUM MOISTURE/MAXIMUM DENSITY 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T180–57 (ASTM D1557–70)	PER SOIL TYPE (SEE NOTES 1 AND 2 IN TESTING NOTES)
STABILIZED SUB GRADE	OPTIMUM MOISTURE/MAXIMUM DENSITY MINIMUM 40 LBR 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T180–57 (ASTM D1557–70)	PER MATERIAL TYPE PER MATERIAL TYPE (SEE NOTES 1 & 3 IN TESTING NOTES)
BASE (OTHER THAN SOIL CEMENT)	OPTIMUM MOISTURE/MAXIMUM DENSITY MINIMUM 100 LBR 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T180–57 (ASTM D1557–70)–NO TOLERANCE GRADATION, ATTERBURG LIMITS	PER SOURCE PER SOURCE (SEE NOTE 3 IN TESTING NOTES) EACH LIFT PER SOURCE
BASE (SOIL CEMENT)	SOIL CEMENT SHALL BE PLANT MIX OR PUG MILL MIX – NO MIX IN PLACE 95% MAXIMUM DRY DENSITY AS DETERMINED BY AASHTO T–134 MINIMUM COMPRESSIVE STRENGTH AT 7 DAYS THICKNESS TEST CORES	1 PER 300 LF (MIN 1 PER STREET) 3 SAMPLES COMPACTED DAILY (300 PSI) 300 FT. INTERVALSS (MIN 1 PER STREET)
CONCRETE (SEE NOTE 4 IN TESTING NOTES) (PER AASHTO & ASTM SPECS)	SLUMP TEST MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS COMPRESSIVE STRENGTH CYLINDERS AIR CONTENT	ONE PER SET OF CYLINDERS 3,500 PSI ONE SET OF THREE (3) CYLINDERS FOR 100 CUBIC YARDS OR FRACTION THEREOF ONE PER SET OF CYLINDERS
ASPHALTIC CONCRETE (PER FDOT SECTION 320)	AGGREGATE ANALYSIS DESIGN MIX BITUMEN CONTENT GRADATION STABILITY FLOW PROPERTIES OF IN–PLACE MATERIALS (MARSHALL) THICKNESS 95% OF LAB DENSITY	ONE PER DESIGN ONE PER TYPE ONE PER DAY ONE PER DAY ONE PER DAY (SEE NOTE 3 IN TESTING NOTES) (SEE NOTE 3 IN TESTING NOTES)

SEPARATION OF WATER AND SEWER LINES

HORIZONTAL SEPARATION OF PIPELINES

MINIMUM SEPARATION DISTANCE	BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED WASTEWATER LINE WHEN POSSIBLE
THREE FEET, AND PREFERABLY TEN FEET	STORM SEWER, STORMWATER FORCE MAIN, OR RECLAIMED WATER MAIN
THREE FEET, AND PREFERABLY TEN FEET	VACUUM–TYPE SANITARY SEWER.
SIX FEET, AND PREFERABLY TEN FEET	GRAVITY– OR PRESSURE–TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR RECLAIMED WATER MAIN NOT REGULATED UNDER PART III OF CHAPTER 62–610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY–TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.
TEN FEET	"ON–SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM"

ALTERNATE CONSTRUCTION

WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND JOINTS IN THE WATER MAIN ARE BEING LOCATED LESS THAN THE REQUIRED MINIMUM DISTANCE FROM JOINTS IN THE OTHER PIPELINE

1. USE OF PRESSURE–RATED PIPE CONFORMING TO THE AMERICAN WATER WORKS ASSOCIATION STANDARDS INCORPORATED INTO RULE 62–555.330, F.A.C., FOR THE OTHER PIPELINE IF IT IS A GRAVITY– OR VACUUM–TYPE PIPELINE;
2. USE OF WELDED, FUSED, OR OTHERWISE RESTRAINED JOINTS FOR EITHER THE WATER MAIN OR THE OTHER PIPELINE; OR
3. USE OF WATERTIGHT CASING PIPE OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR EITHER THE WATER MAIN OR THE OTHER PIPELINE.

VERTICAL SEPARATION OF PIPELINES

MINIMUM SEPARATION DISTANCE FROM THE (OUTSIDE TO THE OUTSIDE)	NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED
6 INCHES, PREFERABLY 12 INCHES ABOVE	GRAVITY– OR VACUUM–TYPE SANITARY SEWER OR STORM SEWER
12 INCHES BELOW	GRAVITY– OR VACUUM–TYPE SANITARY SEWER OR STORM SEWER
12 INCHES ABOVE OR BELOW	PRESSURE–TYPE SANITARY SEWER, WASTEWATER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER MAIN

ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM–TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR RECLAIMED WATER MAINS, AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY– OR PRESSURE–TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR RECLAIMED WATER MAINS.

WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THREE FEET HORIZONTALLY FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND IS BEING LAID LESS THAN THE REQUIRED MINIMUM VERTICAL DISTANCE FROM THE OTHER PIPELINE

1. USE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25–INCH–THICK DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE WATER MAIN; AND
2. USE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25–INCH–THICK DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE OTHER PIPELINE IF IT IS NEW AND IS CONVEYING WASTEWATER OR RECLAIMED WATER.

ORIGINAL SET: 6/14/23
REVISIONS

NO.	DATE	DESCRIPTION
–	–	–
–	–	–
3	12/21/23	REVISED PER COUNTY & CLIENT COMMENTS
2	10/04/23	REVISED PER FDOT ACCESS COMMENTS
1	08/21/23	REVISED PER COUNTY & FDOT COMMENTS

NATIVE engineering,pllc
P.O. BOX 2995
LAND O' LAKES, FL 34639
(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

MARION COUNTY FLORIDA

GENERAL NOTES

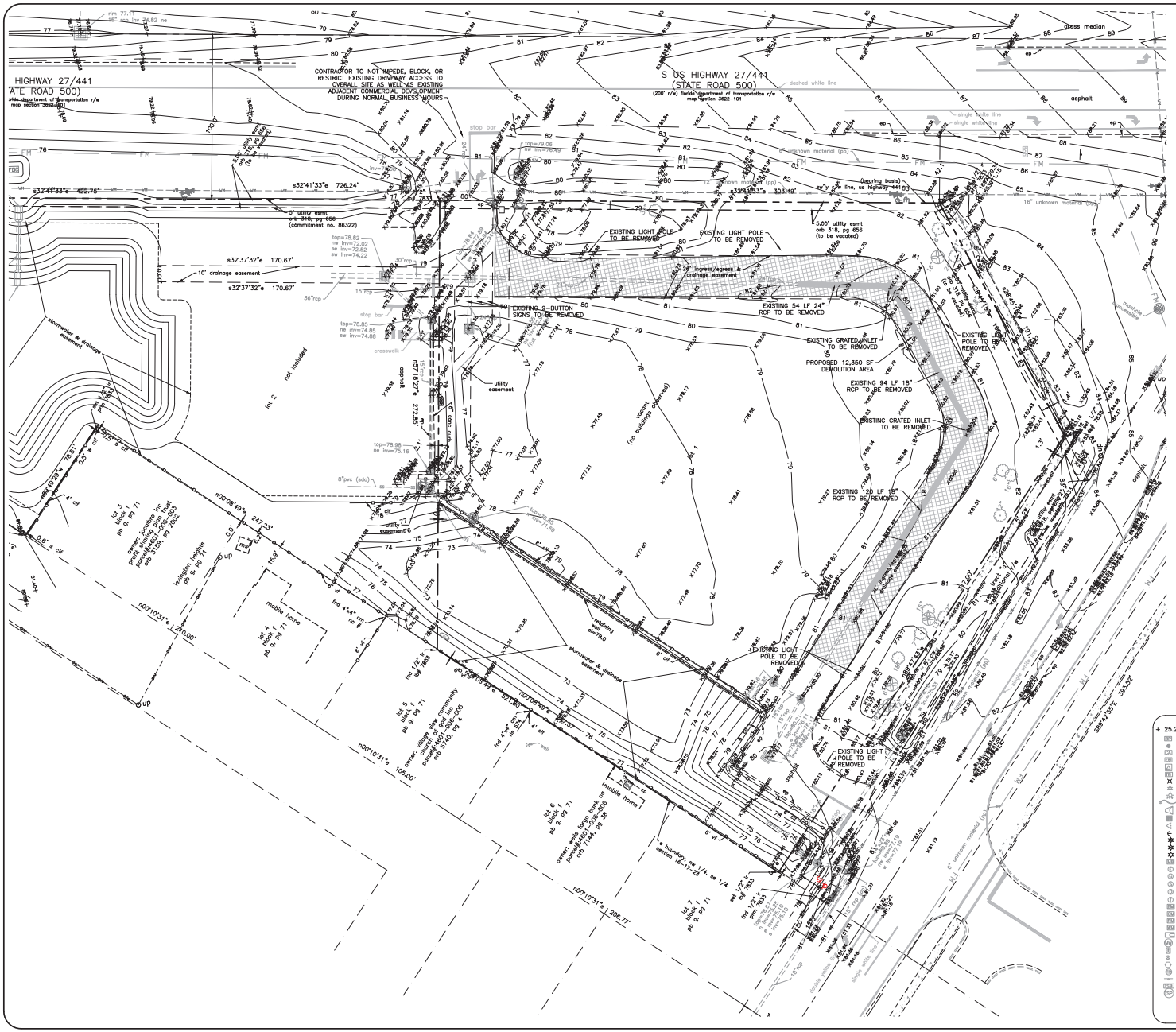
JOSHUA S. BRADLEY
State of Florida,
Professional Engineer,
License No. 60020

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SHEET NUMBER
C2.0

S-T-R
16-17-23

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0 15 30 60
SCALE IN FEET

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30312
APPROVAL DATE: 9/9/24
EXPIRATION DATE: 9/9/26

All construction shall conform to the construction standards contained in the Marion County Land Development Code, latest revision. Areas of the right-of-way disturbed during construction shall be dressed and sodded. Seed and mulch may be used if approved by the County Engineer or designee.

NOTICE
The approval of these plans is limited to construction under the jurisdiction of Marion County and does not substitute nor waive the requirements of other agencies for additional permits, as applicable, by state and/or federal laws.

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

LEGEND

EXISTING OAK TREE TO BE PRESERVED
EXISTING PINE TREE TO BE PRESERVED
EXISTING TREE TO BE REMOVED

BENCHMARK NOTE

BASED ON A BENCHMARK DESIGNATION Q 424 HAVING AN ELEVATION OF 85.18 NAVD88

ENGINEER'S NOTE

THIS IS NOT A SURVEY. THIS PLAN WAS CREATED BY NATIVE ENGINEERING, PLLC, IN REFERENCE TO A SURVEY DONE BY ALTAMAX SURVEYING.

SURVEYORS NOTES

1. BEARING STRUCTURE IS BASED ON THE MONUMENTED SOUTHWESTERLY RIGHT OF WAY LINE OF US HIGHWAY 441, BEING S32°41'33"E PER OFFICIAL RECORD BOOK 4179, PAGE 669, OF THE PUBLIC RECORDS FOR MARION COUNTY, FLORIDA.
2. THIS SURVEY REFLECTS ONLY MATTERS OF RECORD AS PROVIDED BY THE CLIENT OR CLIENTS REPRESENTATIVE.
3. THIS SURVEY WAS MADE ON THE GROUND. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. ENGINEER AND CONTRACTOR SHALL VERIFY MEASUREMENTS OF CONNECTIONS TO EXISTING UTILITIES BEFORE ORDERING MATERIALS AND BEFORE COMMENCEMENT OF CONSTRUCTION. IF THERE IS A DISCREPANCY BETWEEN THE MEASUREMENTS SHOWN HEREON AND THE VERIFYING MEASUREMENTS, THIS SURVEYOR SHALL BE CONTACTED IMMEDIATELY TO FURTHER VERIFY THE DISCREPANCY.
4. THIS SITE LIES IN ZONE(S) "X", BASED ON FLOOD INSURANCE RATE MAP NO. 12083C0745D, COMMUNITY NO. 120160, UN-INCORPORATED MARION COUNTY, FLORIDA, HAVING AN EFFECTIVE DATE OF 08-28-2008.
5. ACCORDING TO FLORIDA STATUTES, CHAPTER 472.025, A LAND SURVEYOR SHALL NOT AFFIX HIS SEAL OR NAME TO ANY PLAN OR DRAWING WHICH DEPICTS WORK WHICH HE IS NOT LICENSED TO PERFORM OR WHICH IS BEYOND HIS PROFESSION OR SPECIALTY THEREIN. THEREFORE, WE ARE UNABLE TO CERTIFY AS TO MUNICIPAL ZONING COMPLIANCE, INTERPRETATION OF ZONING CODES OR THE DETERMINATION OF VIOLATIONS THEREOF.
6. THIS SURVEY MADE WITH BENEFIT OF COMMITMENT FOR TITLE NO. 863222, EFFECTIVE: MARCH 20, 2020, ISSUED BY OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY AND COMMITMENT FOR TITLE NO. 863204, EFFECTIVE: MARCH 18, 2020, ISSUED BY OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY. THE LEGAL DESCRIPTION SHOWN HEREON IS THE SAME AS THE LEGAL DESCRIPTION SET FORTH IN SCHEDULE A OF THE TITLE COMMITMENT REFERENCED HEREIN.
7. THIS "BOUNDARY AND TOPOGRAPHIC SURVEY" WAS MADE IN ACCORDANCE WITH LAWS AND/OR STANDARDS OF PRACTICE FOR THE STATE OF FLORIDA.
8. THE PROPERTY HAS DIRECT ACCESS TO 147TH STREET, US HIGHWAY 441, PAVED PUBLIC RIGHT-OF-WAY AND DIRECT ACCESS TO SE 146TH STREET ROAD AND SE 87TH COURT, A GRAVEL PUBLIC RIGHT-OF-WAY.
9. OBSERVABLE SURFACE EVIDENCE OF UTILITIES SERVING THE PROPERTY AND STORM DRAINAGE FACILITIES ARE SHOWN HEREON.
10. ALL PARCELS AND/OR LOTS SHOWN HEREON ARE CONTIGUOUS BETWEEN SAID PARCELS AND/OR LOTS AND DO NOT CREATE ANY GAPS, GORES OR HATUSES.
11. NO SURFACE EVIDENCE OF SITE USE AS A CEMETERY WAS OBSERVED.
13. ELEVATIONS ARE BASED ON BENCHMARK DESIGNATION Q 424, BEING: 85.18 FEET, (NAVD 88), PUBLISHED BY NATIONAL GEODETIC SURVEY.
14. THE MAPPED FEATURES SHOWN HEREON ARE RELATIVE TO FLORIDA STATE PLANE COORDINATE SYSTEM WEST ZONE, NAD(83)–(2011)–(EPOCH 2010.0000), ESTABLISHED PER FDOT FPRN.

NOTES PERTAINING TO TABLE A ITEMS OF ALTA/NSPS LAND TITLE SURVEY STANDARDS:

ITEM 16: NO EVIDENCE OF CURRENT EARTH MOVING WORK, BUILDING CONSTRUCTION OR ADDITIONS WAS OBSERVED.
ITEM 17: SURVEYOR IS NOT AWARE OF ANY PROPOSED CHANGES IN STREET RIGHT-OF-WAY LINES AND DID NOT OBSERVE ANY EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS.
ITEM 18: NO DELINEATED WETLANDS WERE OBSERVED.
ITEM 19: CLIENT PROVIDED NO RECORDING INFORMATION FOR OFFSITE EASEMENTS.

SURVEYORS LEGEND

+ 25.25 = POINT OF ELEVATION
= BACKFLOW PREVENTER
= BOLLARD or POST
= BOX, CABLE TELEVISION
= BOX, ELECTRIC UTILITY
= BOX, ELECTRIC UTILITY (TRANSFORMER)
= BOX, TELEPHONE
= DECORATIVE LIGHT POLE
= ELECTRIC OUTLET
= FIRE HYDRANT
= FLAGPOLE
= FLARED END SECTION
= GRATE INLET
= GROUND LIGHT
= GUY ANCHOR
= LIGHT POLE, CONCRETE
= LIGHT POLE, METAL
= LIGHT POLE, WOOD
= MAILBOX
= MANHOLE, ELECTRIC
= MANHOLE, GREASE TRAP
= MANHOLE, SANITARY SEWER
= STORM SEWER STRUCTURE
= MANHOLE, TELEPHONE
= METER, ELECTRIC
= METER, GAS
= METER, RECLAIMED WATER
= METER, WATER
= MITERED END SECTION
= MONITORING WELL
= PEDESTRIAN CROSSING SIGNAL
= SANITARY CLEANOUT
= SCHEDULE B-2 ITEM
= TELEPHONE RISER
= TRAFFIC SIGN
= TRAFFIC SIGNAL BOX
= TRAFFIC SIGNAL POLE
= UNDERGROUND CABLE TELEVISION MARKER
= UNDERGROUND CABLE TELEVISION WARNING SIGN
= UNDERGROUND ELECTRIC MARKER
= UNDERGROUND ELECTRIC WARNING SIGN
= UNDERGROUND FIBER OPTIC MARKER
= UNDERGROUND FIBER OPTIC WARNING SIGN
= UNDERGROUND FORCEMAIN MARKER
= UNDERGROUND FORCEMAIN WARNING SIGN
= UNDERGROUND GAS MARKER
= UNDERGROUND GAS WARNING SIGN
= UNDERGROUND RECLAIMED WATER MARKER
= UNDERGROUND RECLAIMED WATER WARNING SIGN
= UNDERGROUND SANITARY SEWER MARKER
= UNDERGROUND SANITARY SEWER WARNING SIGN
= UNDERGROUND TELEPHONE MARKER
= UNDERGROUND TELEPHONE WARNING SIGN
= UNDERGROUND WATER MARKER
= UNDERGROUND WATER WARNING SIGN
= UTILITY POLE, CONCRETE
= UTILITY POLE, METAL
= UTILITY POLE, WOOD
= VALVE, GAS
= VALVE, RECLAIMED WATER
= VALVE, SANITARY
= VALVE, WATER
= WELL
= TOP OF BANK
= TOE OF SLOPE
= 6' CHAIN LINK FENCE
= OVERHEAD UTILITY LINES
= UNDERGROUND GAS LINE
= UNDERGROUND WATER LINE
= UNDERGROUND FORCEMAIN
= UNDERGROUND RECLAIMED WATER LINE
= UNDERGROUND SANITARY SEWER LINE
= UNDERGROUND STORM SEWER LINE

NO	DATE	DESCRIPTION
1	12/21/23	REVISED PER COUNTY & FDOT COMMENTS
2	10/24/23	REVISED PER 200' ACCESS COMMENTS
3	08/17/23	REVISED PER COUNTY & FDOT COMMENTS

ORIGINAL SET: 8/14/23
REVISIONS

NATIVE engineering,plic
P.O. BOX 2985
LAND O LAKES, FL 34639
(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
MARION COUNTY FLORIDA

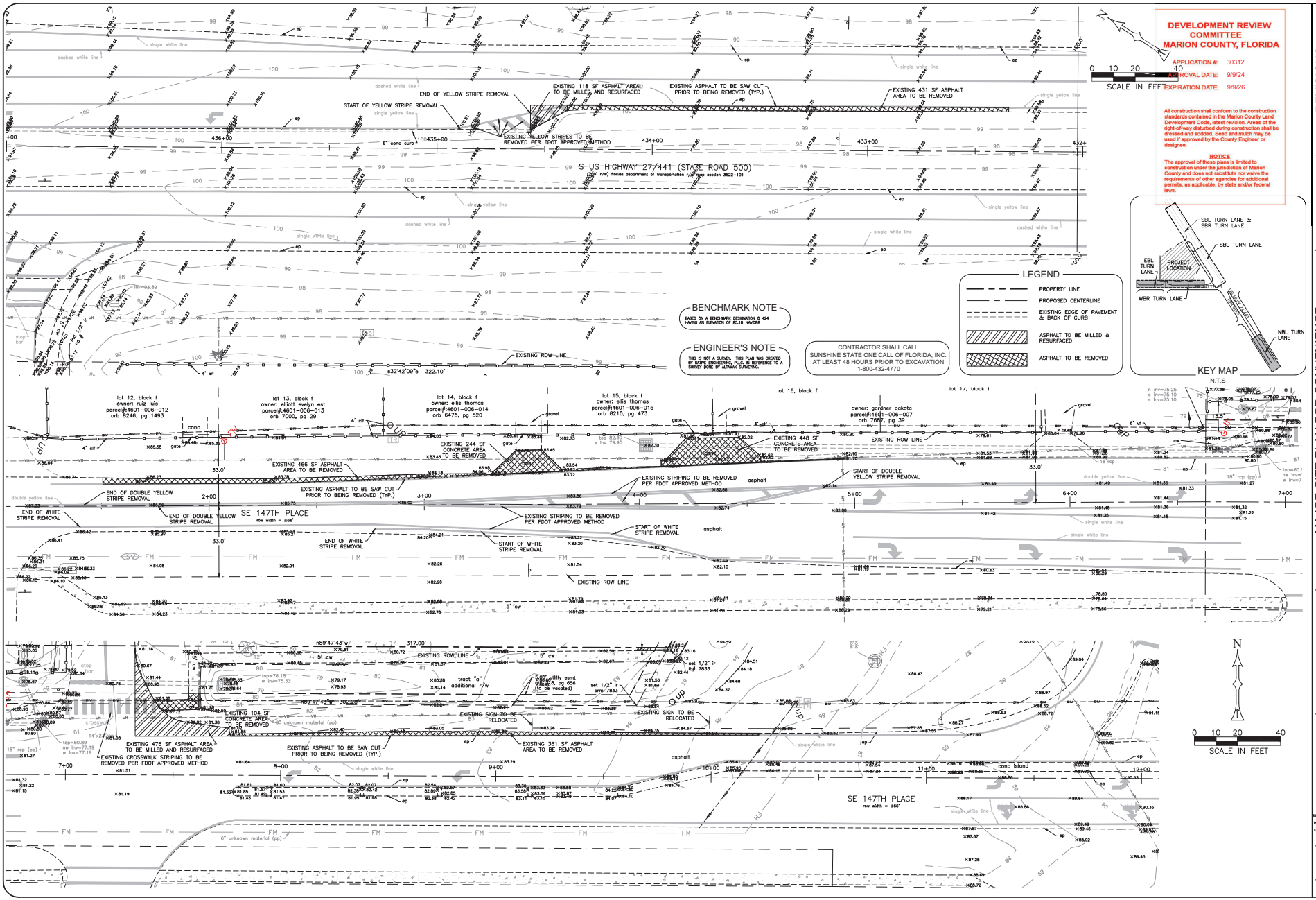
EXISTING CONDITIONS & DEMOLITION PLAN

JOSHUA S. BRADLEY
State of Florida,
Professional Engineer,
License No. 60020
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SHEET NUMBER
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S-T-R
16-17-23

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DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30312
APPROVAL DATE: 9/9/24
EXPIRATION DATE: 9/9/26

All construction shall conform to the construction standards contained in the Marion County Land Development Code, latest revision. Areas of the right-of-way disturbed during construction shall be dressed and sodded. Seed and mulch may be used if approved by the County Engineer or designee.

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BENCHMARK NOTE
BASED ON A BENCHMARK DESIGNATION Q 424 HAVING AN ELEVATION OF 85.18 NAVD88

ENGINEER'S NOTE
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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

KEY MAP
N.T.S

REVISIONS

NO.	DATE	DESCRIPTION
1	11/21/23	REVISED PER COUNTY & FDOT COMMENTS
2	10/04/24	REVISED PER FDOT ACCESS COMMENTS
3	08/27/24	REVISED PER COUNTY & FDOT COMMENTS

NATIVE engineering,plic
P.O. BOX 2985
LAND O' LAKES, FL 34639
(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 DEMOLITION PLAN

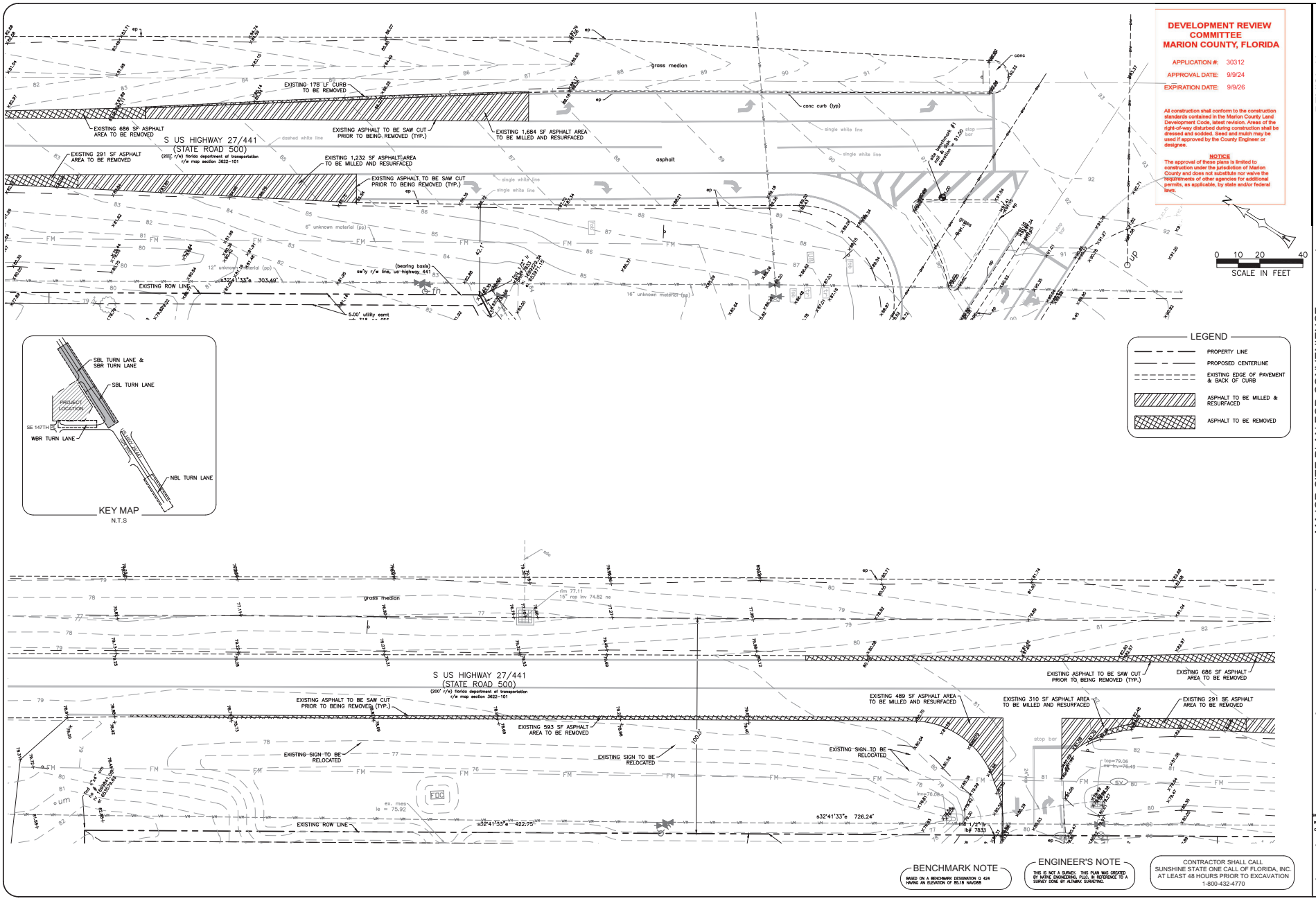
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SHEET NUMBER
C3.1

S-T-R
16-17-23

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REVISIONS

NO	DATE	DESCRIPTION
1	12/21/23	REVISED PER COUNTY & FDOT COMMENTS
2	10/04/24	REVISED PER FDOT ACCESS COMMENTS
3	08/27/25	REVISED PER COUNTY & FDOT COMMENTS

NATIVE engineering,pllc
P.O. BOX 2985
LAND O LAKES, FL 34639
(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 DEMOLITION PLAN

JOSHUA S. BRADLEY
State of Florida,
Professional Engineer,
License No. 60020
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SHEET NUMBER
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S-T-R
16-17-23

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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 "NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM" (NPDES) GENERAL PERMIT.

THE FOLLOWING ENTITIES ARE IDENTIFIED AS TEAM MEMBERS OF "THE PLAN"; NATIVE ENGINEERING, PLLC., THE DEVELOPER AS IDENTIFIED IN THE TITLE BOX OF THESE PLANS, AND THE SITE CONTRACTOR AND HIS SUB-CONTRACTORS. EACH TEAM MEMBER HAS SPECIFIC RESPONSIBILITIES AND OBLIGATIONS. IN GENERAL, ALL TEAM MEMBERS, WITH REGARD TO THEIR INVOLVEMENT AND RESPONSIBILITIES ON THE PROJECT, ARE TO IMPLEMENT ALL NECESSARY STORM WATER MANAGEMENT CONTROLS TO ASSURE COMPLIANCE WITH THE NPDES GENERAL PERMIT FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES, THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT PERMIT, THE APPLICABLE LOCAL GOVERNING AGENCY MARION COUNTY AND THE GUIDELINES LISTED IN THE SWPPP. THE DUTIES AND RESPONSIBILITIES OF THE TEAM MEMBERS AS THEY PERTAIN TO THE SWPPP ARE AS FOLLOWS:

NATIVE ENGINEERING, PLLC.

1. DEVELOP STORM WATER POLLUTION PREVENTION PLAN (SWPPP) INCLUDING, BUT NOT LIMITED TO, RETENTION/DETENTION PONDS, CONTROL STRUCTURES, EROSION CONTROL METHODS AND LOCATIONS AND STABILIZATION CRITERIA. THIS DESIGN IS INCLUDED WITHIN THESE CONSTRUCTION PLANS AND THE FOLLOWING NOTES AND INSTRUCTIONS.
2. SUBMIT AND OBTAIN THE NECESSARY DESIGN RELATED STORM WATER PERMITS FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT (SJRWMD) 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 SJRWMD PERMIT OR COMPLETENESS LETTER IF THE PERMIT IS NOT YET AVAILABLE. THIS SUBMITTAL WILL BE MADE NO LATER THAN 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION.
4. SUBMIT TO SJRWMD AND THE OPERATOR OF THE MUNICIPAL SEPARATE STORM WATER SYSTEM, IF APPLICABLE, A LETTER OF CONSTRUCTION COMMENCEMENT.
5. COMPLETE AND SUBMIT A NOTICE OF TERMINATION AND CERTIFICATION FOR DEVELOPER AND CONTRACTOR. THE NOTE'S SHALL BE SUBMITTED NO MORE THAN 30 DAYS AFTER
   5.a. COMPLETION OF THE PROJECT AND FINAL STABILIZATION OF THE SITE OR
   5.b. WHEN RESPONSIBILITY FOR THE SITE HAS ENDED. FINAL STABILIZATION AS DEFINED BY FDEP AND EPA IS WHEN ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND A UNIFORM (E.G. EVENLY DISTRIBUTED, WITHOUT LARGE BARE AREAS) PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70% OF THE NATIVE BACKGROUND VEGETATIVE COVER FOR THE AREA HAS BEEN ESTABLISHED ON ALL UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES. AS AN ALTERNATIVE, EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS RIPRAP, GABIONS, OR GEOTEXTILES) MAY BE EMPLOYED. BOTH THE CLIENT AND CONTRACTOR SHALL NOTIFY NATIVE ENGINEERING WHEN ONE OF THESE CRITERIA HAS BEEN MET.

CONTRACTOR

1. SIGN AND RETURN TO NATIVE ENGINEERING A NOTICE OF INTENT AND CERTIFICATION OF STORM WATER POLLUTION PREVENTION PLAN NO LATER THAN 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION. COPY NATIVE ENGINEERING AND THE DEVELOPER ON THE NOI PERMIT WHEN RECEIVED. ALSO, EACH SUBCONTRACTOR AFFECTED BY THE SWPPP MUST CERTIFY TO THE CONTRACTOR THAT THEY UNDERSTAND AND SHALL COMPLY WITH THE NPDES 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 NPDES GENERAL PERMIT FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES.
3. MAINTAIN A COPY OF THE CONSTRUCTION PLANS, WHICH INCLUDE THE STORM WATER POLLUTION PREVENTION PLAN BOTH NOI'S AND ALL INSPECTION REPORTS AND CERTIFICATIONS ON SITE.
4. UNDERTAKE ALL REASONABLE BEST MANAGEMENT PRACTICES (BMP'S) TO ASSURE THAT SILTED 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 SODDING. STRUCTURAL EROSION AND SEDIMENT CONTROL BMP'S THAT SHALL BE USED INCLUDE: SILT FENCES (AS SHOWN, THIS SHEET) & EXISTING STORM DRAIN INLET PROTECTION (PER DETAIL THIS SHEET), ADDITIONAL BMP'S THAT MAY NEED TO BE IMPLEMENTED INCLUDE: (1) PROVIDING PROTECTED STORAGE AREAS FOR CHEMICALS, POINTS, SOLVENTS, FERTILIZERS, AND OTHER POTENTIALLY TOXIC MATERIALS; (2) PROVIDING WASTE RECEPTACLES AT CONVENIENT LOCATIONS AND PROVIDING REGULAR COLLECTION OF WASTES, INCLUDING BUILDING MATERIAL WASTES; (3) MINIMIZING OFF-SITE TRACKING OF SEDIMENTS; (4) MAKING ADEQUATE PREPARATIONS, INCLUDING TRAINING AND EQUIPMENT TO CONTAIN SPILLS OF OIL AND HAZARDOUS MATERIALS; AND (5) COMPLYING WITH APPLICABLE STATE OR LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS AND THE USE OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR ALLOWABLE NON-STORM WATER COMPONENTS OF DISCHARGE.
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, PESTICIDES, OTHER CHEMICALS, ETC.). THIS NOTIFICATION SHOULD BE ACCOMPANIED WITH THE CONTRACTOR'S DESIGN AND METHODS TO PREVENT POLLUTION RUN-OFF FROM THESE SOURCES.
6. DEVELOP A MAINTENANCE AND INSPECTION PLAN WHICH INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:
   6.a. THE SPECIFIC AREAS TO BE INSPECTED AND MAINTAINED THAT INCLUDES ALL THE DISTURBED AREAS AND MATERIAL STORAGE AREAS OF THE SITE;
   6.b. THE EROSION AND SEDIMENT CONTROLS IDENTIFIED IN THE SWPPP TO BE MAINTAINED AND INSPECTED AND THOSE ADDITIONAL CONTROLS THAT THE CONTRACTOR DEEMS NECESSARY;
   6.c. MAINTENANCE PROCEDURES;
   6.d. THE PROCEDURE TO FOLLOW IF ADDITIONAL WORK IS REQUIRED OR WHOM TO CALL;
   6.e. INSPECTIONS AND MAINTENANCE FORMS; AND
   6.f. THE PERSONNEL ASSIGNED TO EACH TASK;

   THE FOLLOWING SHALL BE INSPECTED A MINIMUM OF ONCE A WEEK OR WITHIN 24 HOURS AFTER 0.25 INCHES OF RAINFALL:
   STABILIZATION MEASURES (ONCE A MONTH IF FULLY STABILIZED);
   STRUCTURAL CONTROLS;
   DISCHARGE POINTS;
   CONSTRUCTION ENTRANCE AND EXITS; AND
   AREAS USED FOR STORAGE OF EXPOSED MATERIALS.

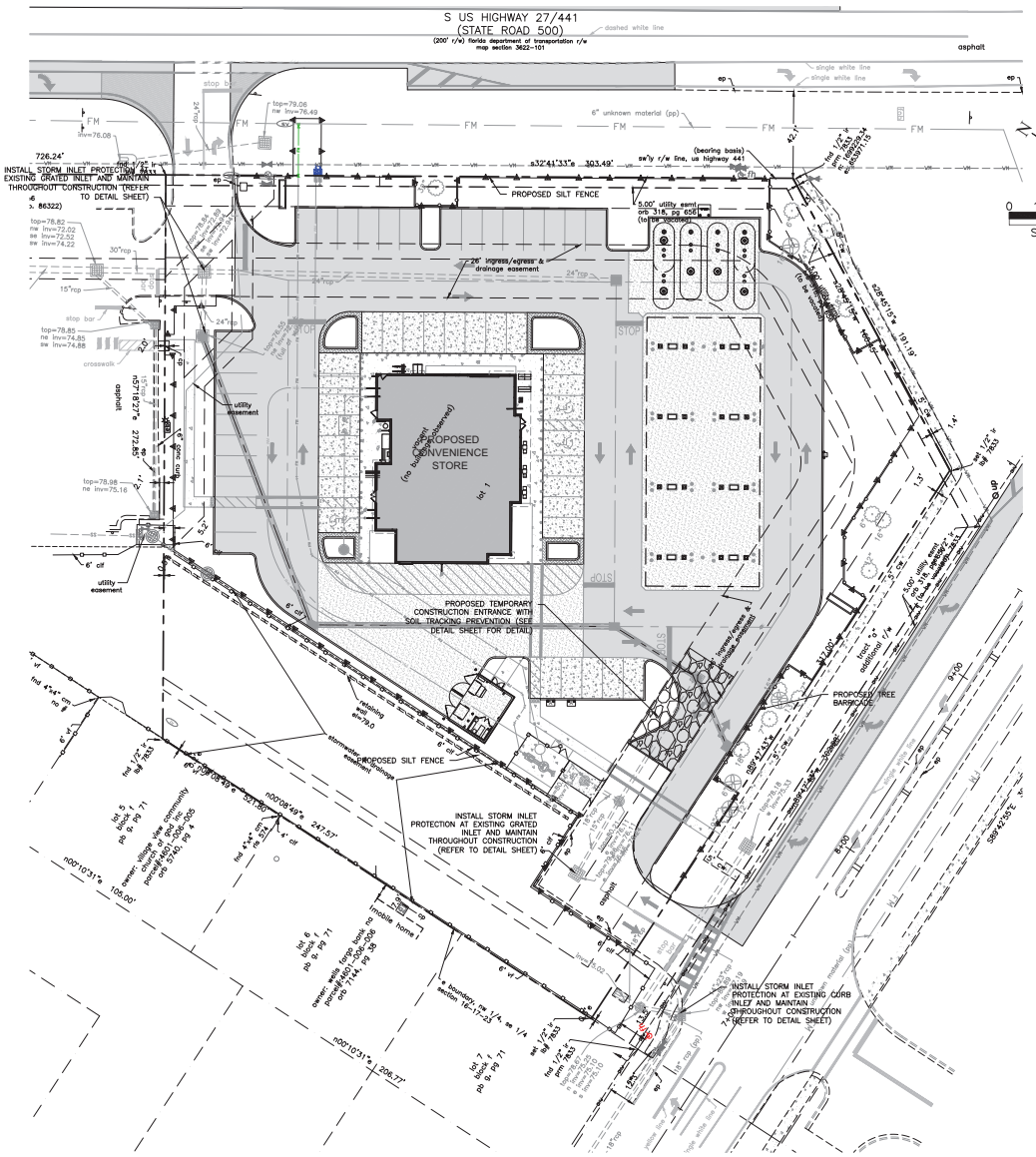
   AN INSPECTION FORM SHALL BE COMPLETED FOR EACH INSPECTION. ANY PERMIT VIOLATIONS SHOULD BE NOTED AND CORRECTIVE MEASURES TO BE TAKEN SHALL BE NOTED. IF REVISIONS TO THE SWPPP ARE NEEDED, A REPORT FORM FOR CHANGES IN THE SWPPP SHALL BE COMPLETED AND A COPY SENT TO NATIVE ENGINEERING. THE ORIGINAL SHALL BE KEPT ON-SITE AS DOCUMENTATION OF THE CHANGE. IF THE INSPECTION PASSES, A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE SWPPP AND THE NPDES PERMIT MUST BE SIGNED BY ONE OF THE FOLLOWING: THE PRINCIPAL EXECUTIVE OFFICE OR RANKING ELECTED OFFICIAL OF THE OPERATOR OF THE SWPPP OR A DULY AUTHORIZED REPRESENTATIVE OF THE PRINCIPAL EXECUTIVE OFFICIAL OF THE OPERATOR OF THE SWPPP. IF REQUIRED, STORM WATER DISCHARGE SAMPLES ARE TO BE TAKEN AT THE LOCATIONS SPECIFIED BY THE ENGINEER OF RECORD. THE SAMPLING SHOULD BE PERFORMED ACCORDING TO THE FOLLOWING CRITERIA: A GRAB BAG SAMPLE WILL BE TAKEN DURING REGULAR WORKING HOURS (ONCE PER MONTH) WITHIN THE FIRST 30 MINUTES OF A QUALIFYING EVENT (A RAIN EVENT AT 0.5 INCHES OR GREATER IN A 24 HOUR PERIOD) OR WITHIN THE FIRST 30 MINUTES OF THE BEGINNING OF THE DISCHARGE OF A PREVIOUSLY COLLECTED QUALIFYING EVENT FOR SETTABLE SOLIDS, TOTAL SUSPENDED SOLIDS, OR TURBIDITY FLOW. THIS DATA IS TO BE RECORDED AND SUBMITTED TO USEPA AND FDEP ONCE PER MONTH. RETAIN INSPECTION REPORTS AND CERTIFICATIONS FOR AT LEAST THREE YEARS.
7. INITIATE SITE STABILIZATION MEASURES NO MORE THAN 14 DAYS AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED ON ANY MAJOR PORTION OF THE SITE EXCEPT WHEN CONSTRUCTION WILL RESUME WITHIN 21 DAYS.
8. NOTIFY NATIVE ENGINEERING WHEN IT IS TIME TO SUBMIT A NOTICE OF TERMINATION AS DEFINED UNDER PART E OF THE NATIVE ENGINEERING, INC. SECTION OF THE SWPPP. SIGN AND RETURN TO NATIVE ENGINEERING THE NOTICE OF TERMINATION FORM AND CERTIFICATION.

DEVELOPER

1. NOTIFY NATIVE ENGINEERING OF YOUR INTENT TO COMMENCE CONSTRUCTION. SIGN THE NOTICE OF INTENT FORM AS OPERATOR OF THE STORM WATER DISCHARGE FACILITY AND PERMITTEE AND RETURN TO NATIVE ENGINEERING ON THE NOI PERMIT WHEN IT IS RECEIVED.
2. SIGN A CERTIFICATION OF STORM WATER POLLUTION PREVENTION PLAN AND RETURN TO NATIVE ENGINEERING.
3. NOTIFY NATIVE ENGINEERING WHEN IT IS TIME TO SUBMIT A NOTICE OF TERMINATION AS DEFINED UNDER PART E OF THE NATIVE ENGINEERING, PLLC. SECTION OF THE SWPPP. SIGN AND RETURN TO NATIVE ENGINEERING FOR SUBMITTAL TO EPA A NOTICE OF TERMINATION FORM AND CERTIFICATION. PRE-DEVELOPED SITE INFORMATION:
   3.a. TOTAL SITE ACREAGE: 2.58 AC
   3.b. LAND USE: VACANT/COMMERCIAL
   3.c. VEGETATION: GRASS/WOODED
   3.d. SOIL TYPES: CANDLER SAND
   3.e. ENDANGERED SPECIES: N/A

PROJECT INFORMATION

1. PROJECT TYPE: COMMERCIAL
2. ANTICIPATED CONSTRUCTION SEQUENCE IS AS FOLLOWS:
   2.a. EROSION AND SEDIMENT CONTROL INSTALLATION
   2.b. CLEARING AND GRUBBING
   2.c. EARTHWORK ACTIVITIES
   2.d. STORM WATER SYSTEM CONSTRUCTION
   2.e. UTILITY CONSTRUCTION
   2.f. BASE AND PAVEMENT CONSTRUCTION
   2.g. FINAL STABILIZATION
3. ANTICIPATED START DATE: 09/2023
4. ANTICIPATED COMPLETION DATE: 09/2024
5. TOTAL ACRES DISTURBED: 2.00 AC.(±)
6. PRE-DEVELOPED IMPERVIOUS AREA: 0.40 AC. (±)
7. POST-DEVELOPED IMPERVIOUS AREA: 1.63 AC. (±)
8. THE STORM WATER MANAGEMENT SYSTEM, UPON COMPLETION OF CONSTRUCTION AND APPROPRIATE CERTIFICATION AND AS-BUILT SUBMITTALS WILL BE OPERATED AND MAINTAINED BY AMPROP ENTERPRISES SUMMERFIELD, LLC.
9. THE POTENTIAL SOURCE OF POLLUTION FROM THIS PROJECT IS ON-SITE DEVELOPMENT AND CONSTRUCTION ACTIVITY.
10. DOES THE PROJECT DISCHARGE INTO A WATER BODY LISTED ON THE 1998 EPA APPROVED 303 (D) LIST FOR WATER SEGMENTS WHICH ARE IMPAIRED DUE TO TOTAL SUSPENDED SOLIDS? NO. IF SO, SAMPLING IS REQUIRED AS OUTLINED IN SECTION F.



DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30312

APPROVAL DATE: 9/9/24

EXPIRATION DATE: 9/9/26

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LEGEND
SILT FENCE
TREE BARRICADE

EROSION CONTROL NOTES

1. PROPOSED SILT FENCE MUST REMAIN IN PLACE UNTIL FINISH GRADING FOR THE LANDSCAPE IS COMPLETE.
2. CONTRACTOR MUST CLEAN PAVEMENT AREAS DAILY DURING EARTHWORK OPERATIONS.
3. EXISTING ENTRANCE DEMOLITION AREA & REPLACEMENT (WITH NEW DRIVEWAY, SIDEWALK, AND/OR GROUND COVER) IS TO BE COMPLETED WITHIN A SINGLE WORK PERIOD.
4. WRAP ALL EXISTING ON-SITE GRATES PER GRATE INLET EROSION PROTECTION DETAIL (REFER TO DETAIL).
5. UNDER THE DRIPLINE OF ALL EXISTING TREES (ON-SITE OR OFF-SITE) TO BE SAVED, SILT FENCE MUST BE BACKFILLED, NOT TRENCHED, TO AVOID NEGATIVE ROOT IMPACTS.
6. EROSION CONTROL INSPECTIONS. – THE CONTRACTOR SHALL SUPPLY ALL EROSION/SEDIMENTATION BARRIERS TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS AND WATERWAYS. IN ADDITION, THE CONTRACTOR SHALL PLACE STRAW, MULCH OR OTHER SUITABLE MATERIAL ON THE GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT THE SITE. EROSION CONTROL MEASURES ARE TO BE IN PLACE PRIOR TO THE START OF CONSTRUCTION AND TO REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETED. THE CONTRACTOR IS TO INSPECT BARRIERS FOR DAMAGE DURING CONSTRUCTION AND MAINTAIN AS NEEDED. IF, IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE, EITHER BY WATER, WIND AND/OR VEHICULAR TRAFFIC, THE CONTRACTOR SHALL REMOVE AND CLEAN SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES.
7. ALL EROSION SILT FENCING AND CONSTRUCTION PRIVACY FENCING SHALL NOT BE INSTALLED WITHIN ANY SIGHT LINES PER FDOT DESIGN MANUAL 212.11.1.

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 GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER.

TBD DATE

RESPONSIBLE AUTHORITY CERTIFICATION STATEMENT

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

TBD DATE

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

ORIGINAL SET: 8/14/23

NO	DATE	DESCRIPTION
-	-	-
1	12/21/23	REVISED PER COUNTY & FDOT COMMENTS
2	10/24/24	REVISED PER FDOT ACCESS COMMENTS
3	08/27/25	REVISED PER COUNTY & FDOT COMMENTS

NATIVE engineering,pllc
P.O. BOX 2985
LAND O' LAKES, FL 34639
(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
MARION COUNTY FLORIDA

EROSION CONTROL PLAN

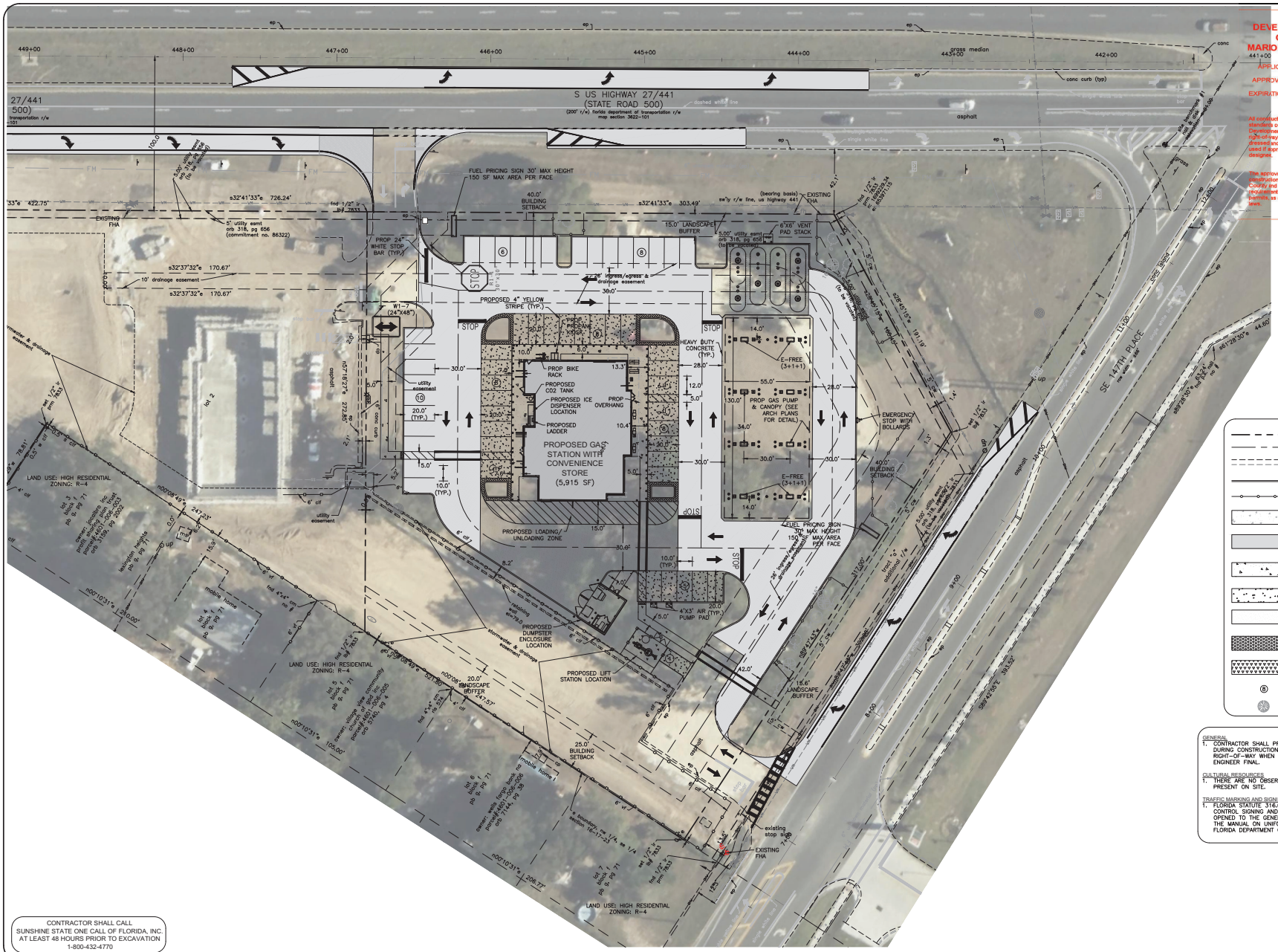
JOSHUA S. BRADLEY
State of Florida,
Professional Engineer,
License No. 60020

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SHEET NUMBER
C4.0

S-T-R
16-17-23

G:\SHARED DRIVES\CLIENTS\AMPROP\PROJECTS\1.23.012.00 - 441 & 147TH CONVENIENCE STORE\DRAWINGS\C4.0 EROSION CONTROL PLAN.DWG - 12/22/2023 3:05 PM



DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30312
APPROVAL DATE: 9/9/24
EXPIRATION DATE: 9/9/26

All construction shall conform to the construction standards contained in the Marion County Land Development Code, latest revision. Areas of the right-of-way disturbed during construction shall be re-sodded and sodded. Seed and mulch may be used if approved by the County Engineer or designee.

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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
- (8) PARKING NUMBERS
- EXISTING TREE TO REMAIN

NOTES

GENERAL
1. 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
1. THERE ARE NO OBSERVED REGISTERED CULTURAL RESOURCES PRESENT ON SITE.

TRAFFIC MARKING AND SIGNING
1. 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

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NO	DATE	DESCRIPTION
-	-	-
-	-	-
1	12/21/23	REVISED PER COUNTY & FDOT COMMENTS
2	10/04/24	REVISED PER FDOT ACCESS COMMENTS
3	08/27/25	REVISED PER COUNTY & FDOT COMMENTS

REVISIONS

NATIVE engineering,plic
P.O. BOX 2985
LAND O' LAKES, FL 34639
(813) 536-2539

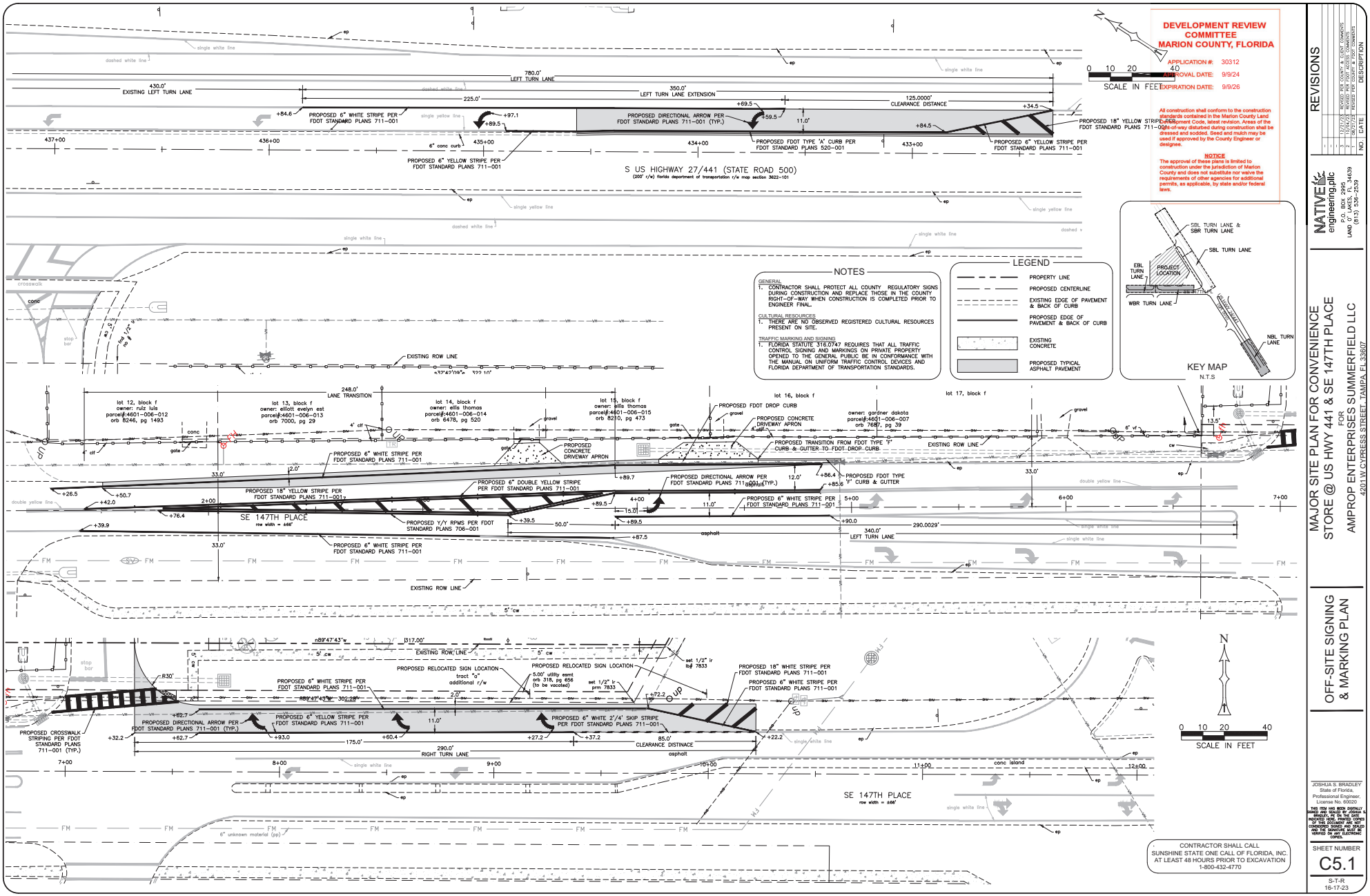
MAJOR SITE PLAN FOR CONVENIENCE STORE @ US HWY 441 & SE 147TH PLACE
FOR
AMPROP ENTERPRISES SUMMERFIELD LLC
4201 W CYPRESS STREET, TAMPA, FL 33607

SITE PLAN

JOSHUA S. BRADLEY
State of Florida,
Professional Engineer,
License No. 60020
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C5.0

S-T-R
16-17-23



DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30312
APPROVAL DATE: 9/9/24
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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

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	11/21/23	REVISED PER COUNTY & FDOT COMMENTS
2	10/04/24	REVISED PER FDOT ACCESS COMMENTS
3	08/27/24	REVISED PER COUNTY & FDOT COMMENTS

REVISIONS

NATIVE engineering,plic
P.O. BOX 2983
LAND O' LAKES, FL 34639
(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

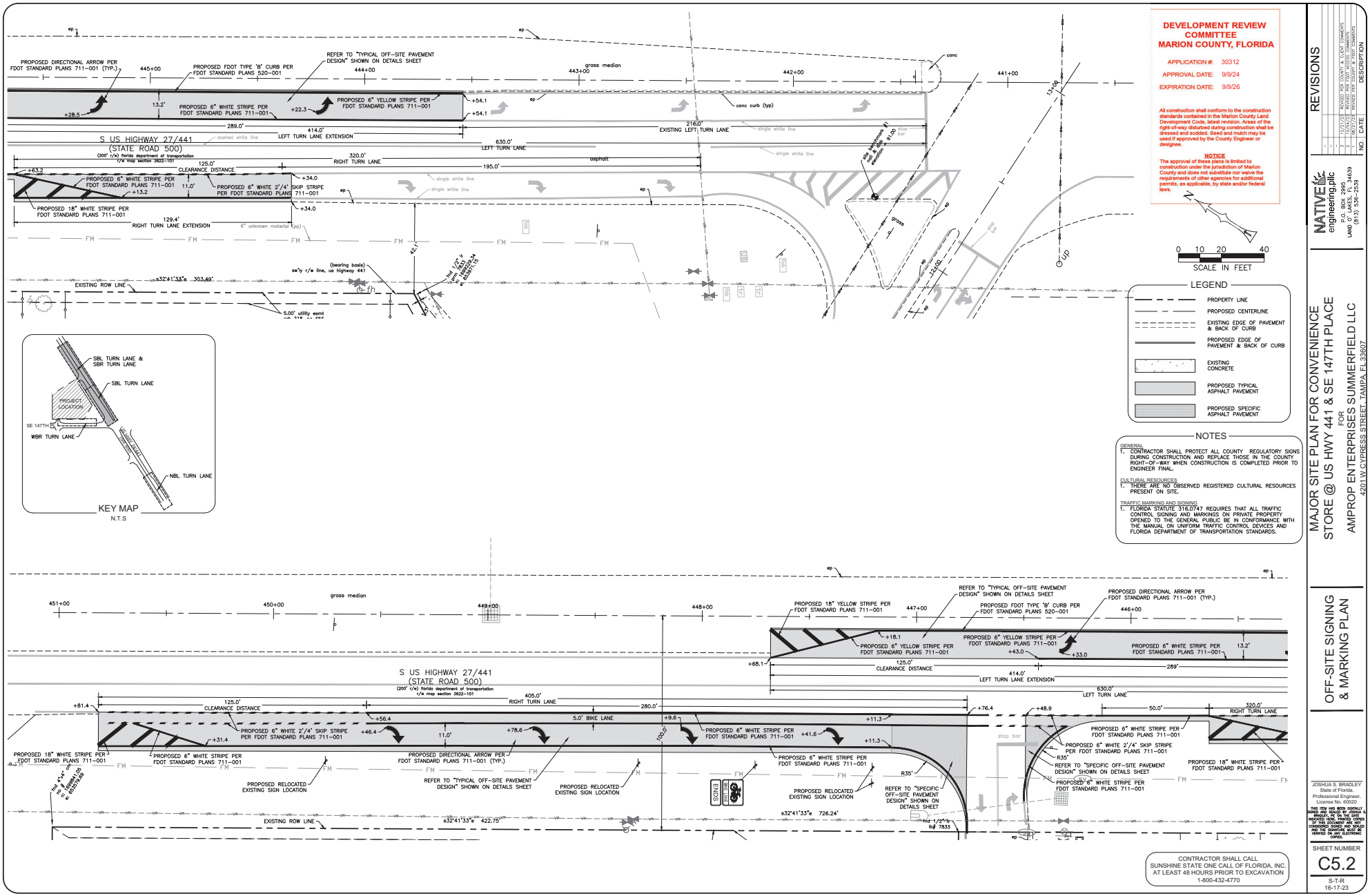
OFF-SITE SIGNING & MARKING PLAN

JOSHUA S. BRADLEY
State of Florida,
Professional Engineer,
License No. 60020
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16-17-23

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REVISIONS

NO	DATE	DESCRIPTION
1	12/21/23	REVISED PER COUNTY & FDOT COMMENTS
2	10/04/24	REVISED PER FDOT ACCESS COMMENTS
3	08/27/24	REVISED PER COUNTY & FDOT COMMENTS

NATIVE engineering,plic
P.O. BOX 2995
LAND O' LAKES, FL 34639
(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

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16-17-23

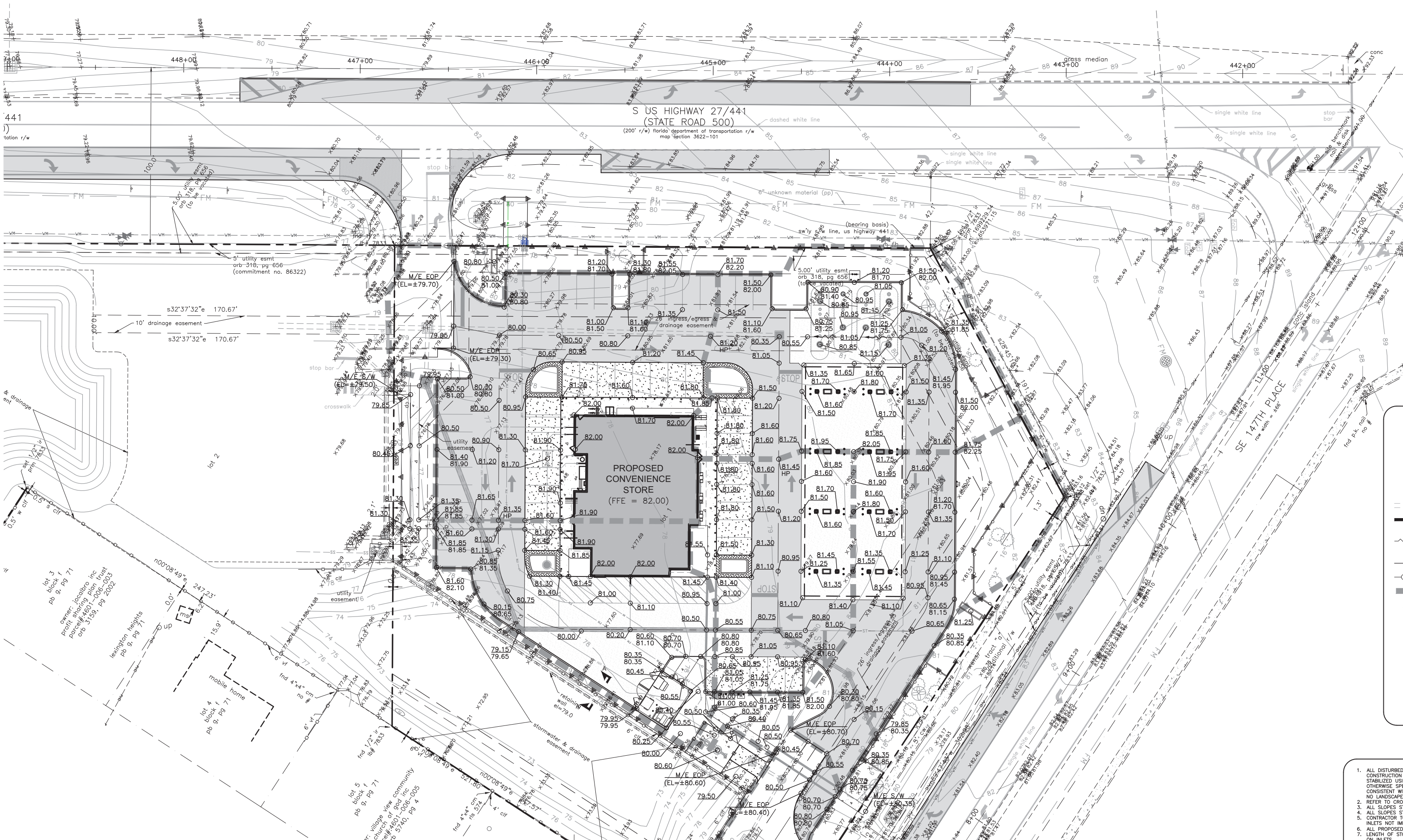
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DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30312
APPROVAL DATE: 9/9/24
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FLOOD ZONE INFORMATION

SUBJECT PROPERTY SHOWN HEREON APPEARS TO BE LOCATED IN FLOOD ZONE X PER F.I.R.M. NUMBER 12083C 0745 D; DATED 8/28/08. THE LOCAL F.E.M.A. AGENT SHOULD BE CONTACTED FOR VERIFICATION.

GEOTECH NOTE

REFER TO REPORT BY GULF COAST TESTING LABORATORY INC. DATED 3/1/21, SECTION 4.4 (SUBSURFACE CONDITIONS) FOR RECOMMENDATION FOR REMOVAL OF UNSUITABLE EXISTING SOIL, IF APPLICABLE.

BENCHMARK NOTE

BASED ON A BENCHMARK DESIGNATION Q 424 HAVING AN ELEVATION OF 85.18 NAVD88

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

LEGEND

- EXISTING SPOT ELEVATION (+15.00)
- EOP / BOC/TOP OF S/W (16.90 / 16.90)
- FLOW ARROW
- APPROXIMATE SOIL BORING LOCATIONS (B2)
- EXISTING STORM SEWER
- PROPOSED TOP OF BANK
- PROPOSED ROOT PRUNING (TO BE DONE WITH DOSCO ROOT CUTTER OR APPROVED EQUAL)
- PROPOSED SILT FENCE
- PROPOSED TREE BARRICADE
- PROPOSED SUB-BASIN LINE
- PROPOSED ASPHALT PAVEMENT
- 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

GRADING NOTES

1. ALL DISTURBED AREAS, WHETHER INCIDENTAL TO CONSTRUCTION AND OUTSIDE THE CONSTRUCTION LIMITS OR WITHIN THE CONSTRUCTION LIMITS, SHALL BE SODDED OR STABILIZED USING ALTERNATIVE METHODS APPROVED BY THE ENGINEER, UNLESS OTHERWISE SPECIFIED IN THE CONSTRUCTION PLANS. SOD SPECIES SHALL BE CONSISTENT WITH THE SPECIES SPECIFIED ON THE ASSOCIATED LANDSCAPE PLANS. IF NO LANDSCAPE PLANS ARE PROVIDED, SOD TYPE SHALL BE BAHIA.
2. REFER TO CROSS SECTIONS SHEET FOR CROSS SECTIONS DEPICTED ON THIS PLAN.
3. ALL SLOPES STEEPER THAN 5:1 SHALL BE SODDED.
4. ALL SLOPES STEEPER THAN 3:1 SHALL BE REINFORCED WITH STAKED SOD.
5. CONTRACTOR TO ADJUST CROSS SLOPE IN ACCORDANCE WITH E.O.R. DIRECTION FOR INLETS NOT IMMEDIATELY ADJACENT TO LOW POINT CENTERLINE OF ROADWAY.
6. ALL PROPOSED CURB SHALL BE FDOT TYPE "D" CURB UNLESS OTHERWISE NOTED.
7. LENGTH OF STORM DRAINAGE PIPES IS APPROXIMATE – MEASURED FROM THE CENTER ON INLETS.
8. EXISTING OFF-SITE DRAINAGE PATTERNS SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
9. DURING THE CONSTRUCTION PERIOD, EXISTING GRATED INLETS AND JUNCTION BOX OPENINGS SHALL BE COVERED WITH AN APPROVED FILTER FABRIC (MIRAFI 140N OR APPROVED EQUAL) TO PREVENT DEBRIS FROM ENTERING THE INLET.
10. ALL DRAINAGE CULVERT JOINTS SHALL BE WRAPPED PER FDOT INDEX 400-289.
11. EXISTING SIDEWALKS DAMAGED DURING CONSTRUCTION SHALL BE RECONSTRUCTED.
12. CONTRACTOR SHALL USE 3500 PSI REINFORCED CONCRETE FOR ROADWAY USE AND/OR DRAINAGE STRUCTURES.
13. ALL ROOF RUNOFF FROM PROPOSED BUILDING SHALL BE ROUTED TOWARDS & THROUGH PROPOSED DRAINAGE SYSTEM.
14. WHERE PROPOSED ASPHALT PAVEMENT IS SHOWN FLUSH WITH PROPOSED CURBING, THE CONTRACTOR SHALL INSTALL A 3' (MIN.) TO 6' (MAX.) TRANSITION FROM NORMAL CURBING TO FLUSH.
15. WHERE DETECTIBLE WARNING MATS ARE REQUIRED, INSTALL YELLOW ADA COMPLIANT DETECTIBLE WARNING MATS.
16. AC CONDENSATE DRAIN LINES SHALL DISCHARGE TO THE PUBLIC STORM SYSTEM, DRY WELL, GRASS AREAS, OR TO WHERE THEY DON'T CREATE A TRIP AND FALL HAZARD BUT NOT TO THE SANITARY SEWER SYSTEM.
17. WHERE ADA ACCESSIBLE ROUTES ARE LOCATED, SIDEWALK, LANDINGS, AND/OR DRIVE AREAS SHALL MEET FLORIDA ADA STANDARDS INCLUDING, BUT NOT LIMITED TO, 2% MAX CROSS SLOPE AND 5% MAX LONGITUDINAL SLOPE (50' MAX). IF THIS PLAN SHOWS PROPOSED GRADES EXCEEDING THESE SLOPES, CONTRACTOR SHALL CONTACT EOR IMMEDIATELY TO DISCUSS BEFORE CONSTRUCTING THE ROUTE. ANY NEWLY CONSTRUCTED SIDEWALK THAT IS NOT ADA COMPLIANT WILL NOT BE CERTIFIED BY THE EOR.
18. CONCRETE PAVEMENT JOINTS SHALL BE PER FDOT SP INDEX 000-515 AND 350-001. CONTRACTOR SHALL SUBMIT CONCRETE JOINTING DETAIL PRIOR TO CONCRETE PAVING POUR. 1/2" EXPANSION JOINTS SHALL BE CENTERED AT A MINIMUM SPACING OF 50' AND AT ALL CONCRETE SLAB TO CONCRETE DRIVE TRANSITIONS, INCLUDING ALL COLD JOINTS BETWEEN EXISTING AND NEW CONCRETE SLABS. EXPANSION JOINT FILLER MATERIAL SHALL BE ASPHALT FIBER IMPREGNATED PREFORMED JOINT FILLER FROM BASE OF CONCRETE TO 2" BELOW CONCRETE SURFACE WITH 1/2"x1/2" SINGLE COMPONENT ELASTIC SEALANT (ADEKA P-201 OR EQUAL) FOLLOWED BY 5/8" BACKER ROD WITH SELF-LEVELING PETROLEUM RESISTANT JOINT SEALER TO CONCRETE SURFACE.
19. UNLESS OTHERWISE SPECIFIED IN THE ARCHITECTURAL/LANDSCAPE DRAWINGS, ALL CONCRETE SIDEWALK JOINTS SHALL BE PER FDOT SP INDEX 522-001. ALL CONTROL JOINTS TO BE SAWED, NOT TOOLED.

ORIGINAL SET: 6/14/23
REVISIONS

NO.	DATE	DESCRIPTION
3	12/21/23	REVISED PER COUNTY & CLIENT COMMENTS
2	10/04/23	REVISED PER FDOT ACCESS COMMENTS
1	08/21/23	REVISED PER COUNTY & FDOT COMMENTS

NATIVE engineering,pllc
P.O. BOX 2995
LAND O' LAKES, FL 34639
(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

MARION COUNTY FLORIDA

PAVING & GRADING PLAN

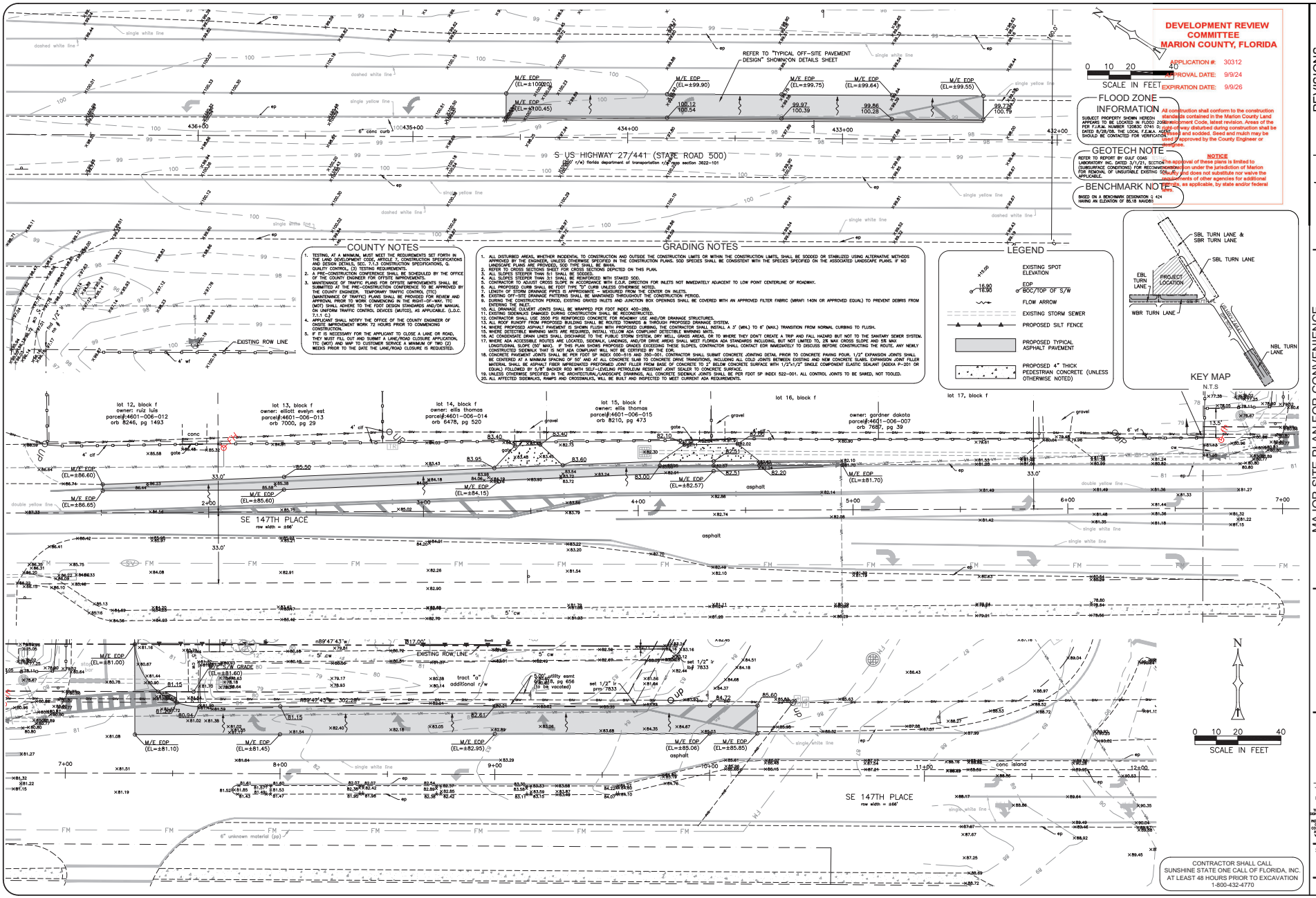
JOSHUA S. BRADLEY
State of Florida,
Professional Engineer,
License No. 60020

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SHEET NUMBER
C6.0

S-T-R
16-17-23

G:\SHARED DRIVES\CLIENTS\AMPROP\PROJECTS\1.23.012.00 – 441 & 147TH CONVENIENCE STORE\DRAWINGS\C6.0 PAVING & GRADING PLAN.DWG – 12/22/2023 3:06 PM



DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30312
APPROVAL DATE: 9/9/24
EXPIRATION DATE: 9/9/26

FLOOD ZONE INFORMATION

SUBJECT PROPERTY SHOWN HEREON APPEARS TO BE LOCATED IN FLOOD ZONE X PER F.I.R.M. NUMBER 12083C 0745 G DATED 8/28/08. THE LOCAL F.E.M.A. AGENCY SHOULD BE CONTACTED FOR VERIFICATION.

All construction shall conform to the construction standards contained in the Marion County Land Development Code, latest revision. Areas of the right-of-way disturbed during construction shall be sodded. Seed and mulch may be used if approved by the County Engineer or designee.

GEOTECH NOTE

REFER TO REPORT BY GULF COAST LABORATORY INC. DATED 3/1/21, SECTION (SUBSURFACE CONDITIONS) FOR RECOMMENDATIONS FOR REMOVAL OF UNSUITABLE EXISTING SOILS, IF APPLICABLE.

BENCHMARK NOTE

BASED ON A BENCHMARK DESIGNATION Q 424 HAVING AN ELEVATION OF 85.18 NAVD88

NOTICE
The approval of these plans is limited to construction under the jurisdiction of Marion County and does not substitute nor waive the requirements of other agencies for additional permits as applicable, by state and/or federal agencies.

COUNTY NOTES

1. TESTING, AT A MINIMUM, MUST MEET THE REQUIREMENTS SET FORTH IN THE LAND DEVELOPMENT CODE, ARTICLE 7, CONSTRUCTION SPECIFICATIONS AND DESIGN DETAILS, SEC. 7.1.3 CONSTRUCTION SPECIFICATIONS, Q. QUALITY CONTROL, (3) TESTING REQUIREMENTS.
2. A PRE-CONSTRUCTION CONFERENCE SHALL BE SCHEDULED BY THE OFFICE OF THE COUNTY ENGINEER FOR OFFSITE IMPROVEMENTS.
3. MAINTENANCE OF TRAFFIC PLANS FOR OFFSITE IMPROVEMENTS SHALL BE SUBMITTED TO THE TRAFFIC OPERATIONS DIVISION FOR REVIEW AND APPROVAL BY THE COUNTY ENGINEER. TEMPORARY TRAFFIC CONTROL, TTC, APPROVED BY (MAINTENANCE OF TRAFFIC) PLANS SHALL BE PROVIDED FOR REVIEW AND APPROVAL PRIOR TO WORK COMMENCING IN THE RIGHT-OF-WAY. TTC (MOT) SHALL ADHERE TO THE FDOT DESIGN STANDARDS AND/OR MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AS APPLICABLE. (L.D.C. 7.1.1 C.)
4. APPLICANT SHALL NOTIFY THE OFFICE OF THE COUNTY ENGINEER OF ONSITE IMPROVEMENT WORK 72 HOURS PRIOR TO COMMENCING CONSTRUCTION.
5. IF IT IS NECESSARY FOR THE APPLICANT TO CLOSE A LANE OR ROAD, THEY MUST FILL OUT AND SUBMIT A LANE/ROAD CLOSURE APPLICATION. TTC (MOT) AND MAP TO CUSTOMER SERVICE A MINIMUM OF TWO (2) WEEKS PRIOR TO THE DATE THE LANE/ROAD CLOSURE IS REQUESTED.

GRADING NOTES

1. ALL DISTURBED AREAS, WHETHER INCIDENTAL TO CONSTRUCTION AND OUTSIDE THE CONSTRUCTION LIMITS OR WITHIN THE CONSTRUCTION LIMITS, SHALL BE SODDED OR STABILIZED USING ALTERNATIVE METHODS APPROVED BY THE ENGINEER, UNLESS OTHERWISE SPECIFIED IN THE CONSTRUCTION PLANS. SOD SPECIES SHALL BE CONSISTENT WITH THE SPECIES SPECIFIED ON THE ASSOCIATED LANDSCAPE PLANS. IF NO LANDSCAPE PLANS ARE PROVIDED, SOD TYPE SHALL BE BAHIA.
2. REFER TO CROSS SECTIONS SHEET FOR CROSS SECTIONS DEPICTED ON THIS PLAN.
3. ALL SLOPES STEEPER THAN 6:1 SHALL BE SODDED.
4. ALL SLOPES STEEPER THAN 3:1 SHALL BE REINFORCED WITH STAKED SOD.
5. ALL SOD SHALL BE HEAVY DUTY SOD.
6. ALL PROPOSED CURB SHALL BE FDOT TYPE "F" CURB UNLESS OTHERWISE NOTED.
7. LENGTH OF STORM DRAINAGE PIPES IS APPROXIMATE – MEASURED FROM THE CENTER ON INLETS.
8. EXISTING OFF-SITE DRAINAGE PATTERNS SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
9. DURING THE CONSTRUCTION PERIOD, EXISTING GRATED INLETS AND JUNCTION BOX OPENINGS SHALL BE COVERED WITH AN APPROVED FILTER FABRIC (MIRAFI 140N OR APPROVED EQUAL) TO PREVENT DEBRIS FROM ENTERING THE INLET.
10. ALL DRAINAGE CULVERT JOINTS SHALL BE WRAPPED PER FDOT INDEX 400–289.
11. EXISTING SIDEWALKS DAMAGED DURING CONSTRUCTION SHALL BE RECONSTRUCTED.
12. CONTRACTOR SHALL USE 3500 PSI REINFORCED CONCRETE FOR ROADWAY USE AND/OR DRAINAGE STRUCTURES.
13. ALL ROOF RUNOFF FROM PROPOSED BUILDING SHALL BE ROUTED TOWARDS & THROUGH PROPOSED DRAINAGE SYSTEM.
14. WHERE PROPOSED ASPHALT PAVEMENT IS SHOWN FLUSH WITH PROPOSED CURBING, THE CONTRACTOR SHALL INSTALL A 3" (MIN.) TO 6" (MAX.) TRANSITION FROM NORMAL CURBING TO FLUSH.
15. WHERE DETECTIBLE WARNING MATS ARE REQUIRED, INSTALL YELLOW ADA COMPLIANT DETECTIBLE WARNING MATS.
16. AC CONDENSATE DRAIN LINES SHALL DISCHARGE TO THE PUBLIC STORM SYSTEM, DRY WELL, GRASS AREAS, OR TO WHERE THEY DON'T CREATE A TRIP AND FALL HAZARD BUT NOT TO THE SANITARY SEWER SYSTEM.
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18. CONCRETE PAVEMENT JOINTS SHALL BE PER FDOT SP INDEX 350–051 AND 350–001. CONTRACTOR SHALL SUBMIT CONCRETE JOINTING DETAIL PRIOR TO CONCRETE PAVING POUR. 1/2" EXPANSION JOINTS SHALL BE CENTERED AT A MINIMUM SPACING OF 50' AND AT ALL CONCRETE SLAB TO CONCRETE DRIVE TRANSITIONS, INCLUDING ALL COLD JOINTS BETWEEN EXISTING AND NEW CONCRETE SLABS. EXPANSION JOINT FILLER MATERIAL SHALL BE ASPHALT FIBER IMPREGNATED PREFORMED JOINT FILLER FROM BASE OF CONCRETE TO 2" BELOW CONCRETE SURFACE WITH 1/2"x1/2" SINGLE COMPONENT ELASTIC SEALANT (ADEKA P–201 OR EQUAL) FOLLOWED BY 5/8" BACKER ROD WITH SELF–LEVELING PETROLEUM RESISTANT JOINT SEALER TO CONCRETE SURFACE.
19. UNLESS OTHERWISE SPECIFIED IN THE ARCHITECTURAL/LANDSCAPE DRAWINGS, ALL CONCRETE SIDEWALK JOINTS SHALL BE PER FDOT SP INDEX 522–001. ALL CONTROL JOINTS TO BE SAWED, NOT TOOLED.
20. ALL AFFECTED SIDEWALKS, RAMPS AND CROSSWALKS, WILL BE BUILT AND INSPECTED TO MEET CURRENT ADA REQUIREMENTS.

LEGEND

- EXISTING SPOT ELEVATION (+15.00)
- EOP (16.90)
- BOC/TOP OF S/W (16.90)
- FLOW ARROW
- EXISTING STORM SEWER
- PROPOSED SILT FENCE
- PROPOSED TYPICAL ASPHALT PAVEMENT
- PROPOSED 4" THICK PEDESTRIAN CONCRETE (UNLESS OTHERWISE NOTED)

KEY MAP

N.T.S

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	11/21/23	REVISED PER COUNTY & FDOT COMMENTS
2	10/04/24	REVISED PER FDOT ACCESS COMMENTS
3	06/27/24	REVISED PER COUNTY & FDOT COMMENTS

NATIVE engineering,pllc
P.O. BOX 2984
LAND O LAKES, FL 34639
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MAJOR SITE PLAN FOR CONVENIENCE STORE @ US HWY 441 & SE 147TH PLACE
FOR
AMPROP ENTERPRISES SUMMERFIELD LLC
4201 W CYPRESS STREET, TAMPA, FL 33607

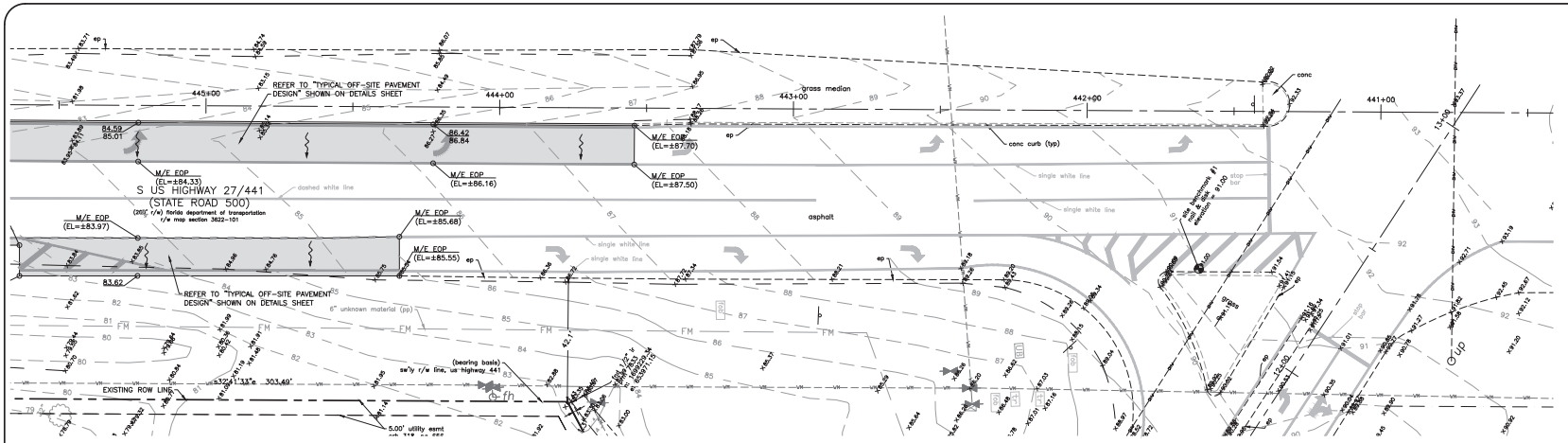
OFF-SITE PAVING & GRADING PLAN

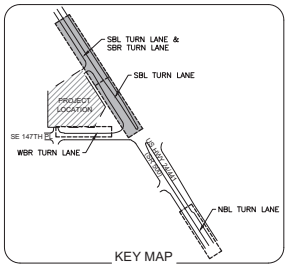
JOSHUA S. BRADLEY
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SHEET NUMBER
C6.1

S-T-R
16-17-23

G:\SHARED DRIVES\CLIENTS\AMPROP\PROJECTS\1.23.012.000 – 441 & 147TH CONVENIENCE STORE\DRAWINGS\C6.1–C6.2 OFF–SITE PAVING & GRADING PLANS.DWG – 6/14/2024 1:34 AM





GRADING NOTES

1. ALL DISTURBED AREAS, WHETHER INCIDENTAL TO CONSTRUCTION AND OUTSIDE THE CONSTRUCTION LIMITS OR WITHIN THE CONSTRUCTION LIMITS, SHALL BE SODDED OR STABILIZED USING ALTERNATIVE METHODS APPROVED BY THE ENGINEER, UNLESS OTHERWISE SPECIFIED IN THE CONSTRUCTION PLANS. SOD SPECIES SHALL BE CONSISTENT WITH THE SPECIES SPECIFIED ON THE ASSOCIATED LANDSCAPE PLANS. IF NO LANDSCAPE PLANS ARE PROVIDED, SOD TYPE SHALL BE BAHIA.
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4. ALL SLOPES STEEPER THAN 3:1 SHALL BE REINFORCED WITH STAKED SOD.
5. ALL SWALES SHALL BE GRADED TO PROVIDE DRAINAGE WITH E.O.R. DIRECTION FOR INLETS NOT IMMEDIATELY ADJACENT TO LOW POINT CENTERLINE OF ROADWAY.
6. ALL PROPOSED CURB SHALL BE FDOT TYPE "D" CURB UNLESS OTHERWISE NOTED.
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LEGEND

- EXISTING SPOT ELEVATION (+15.00)
- EOP (16.90 / 16.90) / TOP OF S/W
- FLOW ARROW
- EXISTING STORM SEWER
- PROPOSED SILT FENCE
- PROPOSED TYPICAL ASPHALT PAVEMENT
- PROPOSED SPECIFIC ASPHALT PAVEMENT

FLOOD ZONE INFORMATION

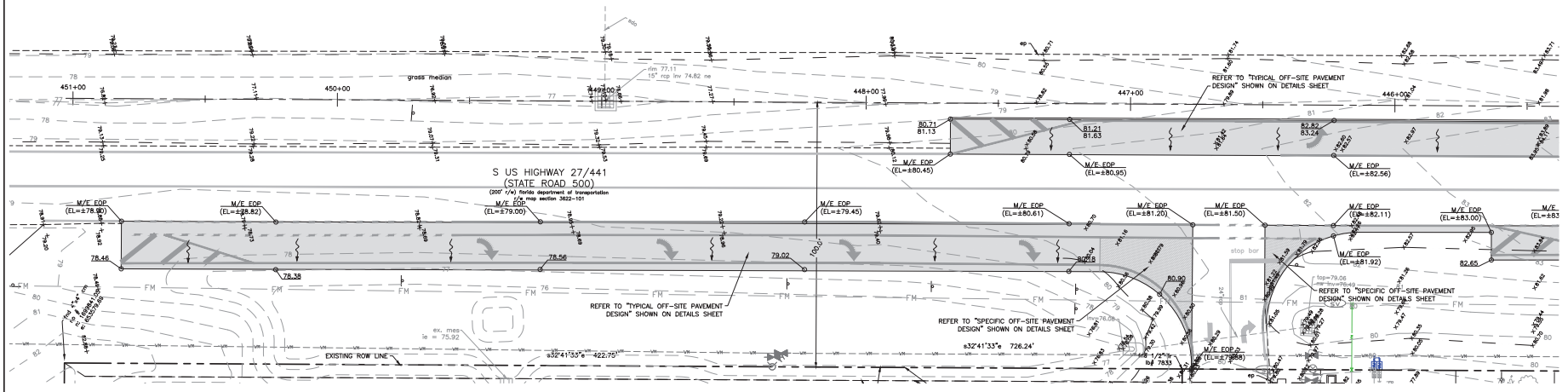
SUBJECT PROPERTY SHOWN HEREON APPEARS TO BE LOCATED IN FLOOD ZONE X PER F.I.R.M. NUMBER 120630 0745 D, DATED 8/28/08. THE LOCAL F.E.M.A. AGENT SHOULD BE CONTACTED FOR VERIFICATION.

GEOTECH NOTE

REFER TO REPORT BY GULF COAST TESTING LABORATORY INC. DATED 3/1/21, SECTION 4.4 (SUBSURFACE CONDITIONS) FOR RECOMMENDATION FOR REMOVAL OF UNSUITABLE EXISTING SOIL, IF APPLICABLE.

BENCHMARK NOTE

BASED ON A BENCHMARK DESIGNATION Q 424 HAVING AN ELEVATION OF 85.18 NAVD88



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

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30312
APPROVAL DATE: 9/9/24
EXPIRATION DATE: 9/9/26

All construction shall conform to the construction standards contained in the Marion County Land Development Code, latest revision. Areas of the right-of-way disturbed during construction shall be dressed and sodded. Seed and mulch may be used if approved by the County Engineer or designee.

NOTICE
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0 10 20 40
SCALE IN FEET

REVISIONS

NO	DATE	DESCRIPTION
1	12/21/23	REVISED PER COUNTY & FDOT COMMENTS
2	10/04/24	REVISED PER FDOT ACCESS COMMENTS
3	08/27/25	REVISED PER COUNTY & FDOT COMMENTS

NATIVE engineering,plic
P.O. BOX 2983
LAND O' LAKES, FL 34639
(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

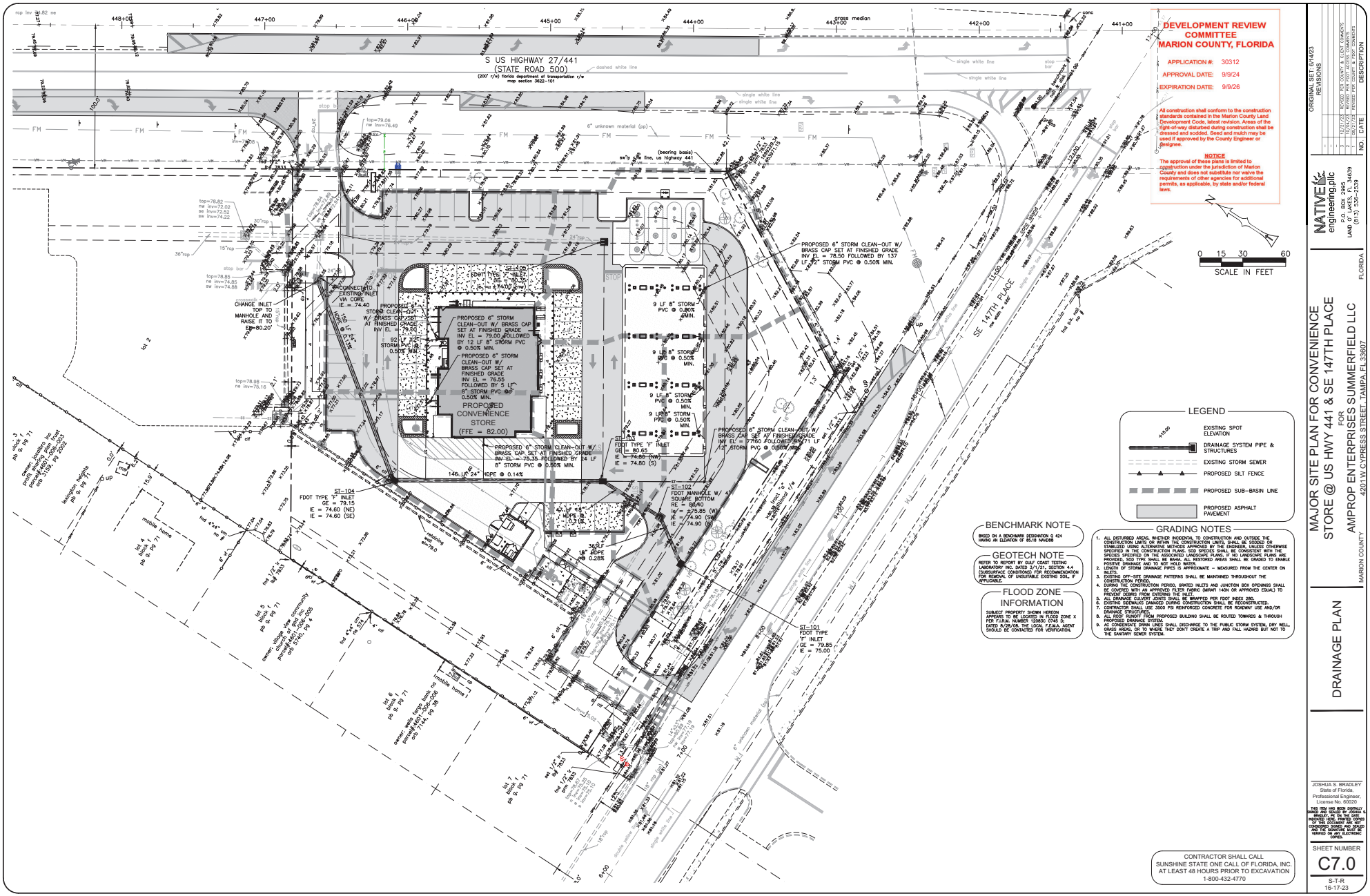
OFF-SITE PAVING & GRADING PLAN

JOSHUA S. BRADLEY
State of Florida,
Professional Engineer,
License No. 60020
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SHEET NUMBER
C6.2

S-T-R
16-17-23

G:\SHARED DRIVES\CLIENTS\AMPROP\PROJECTS\1.23.012.00 - 441 & 147TH CONVENIENCE STORE\DRAWINGS\C6.1-C6.2 OFF-SITE PAVING & GRADING PLANS.DWG - 12/22/2023 3:06 PM



G:\SHARED DRIVES\CLIENTS\AMPROP\PROJECTS\1.23.012.00 – 441 & 147TH CONVENIENCE STORE\DRAWINGS\C7.0 DRAINAGE PLAN.DWG – 12/22/2023 3:07 PM

ORIGINAL SET: 6/14/23

NO	DATE	DESCRIPTION
1	12/21/23	REVISED PER COUNTY & FDOT COMMENTS
2	10/04/24	REVISED PER 200' ACCESS COMMENTS
3	08/27/25	REVISED PER COUNTY & FDOT COMMENTS

NATIVE engineering,plic
P.O. BOX 2985
LAND O' LAKES, FL 34639
(813) 536-2539

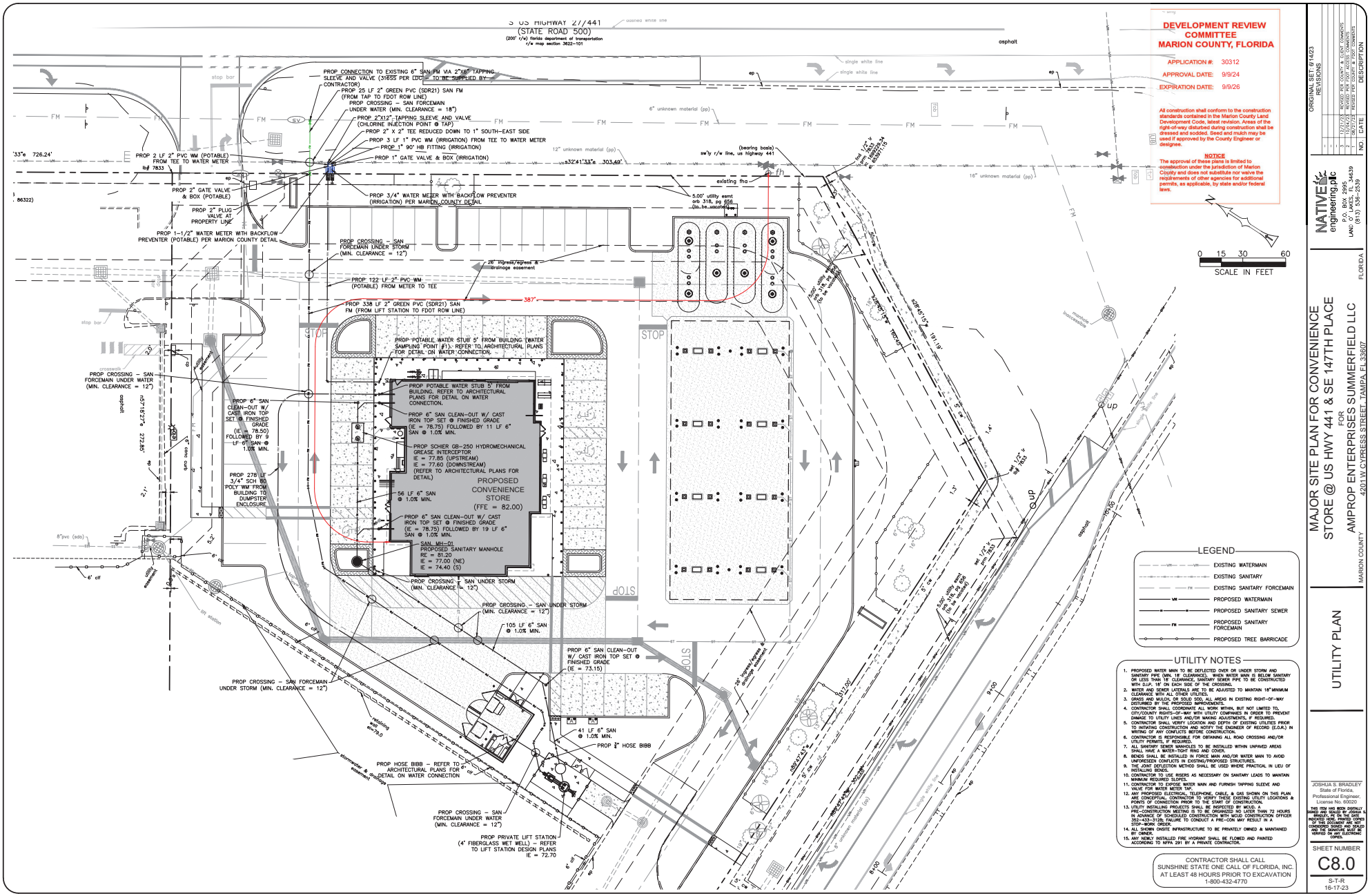
MAJOR SITE PLAN FOR CONVENIENCE STORE @ US HWY 441 & SE 147TH PLACE
FOR
AMPROP ENTERPRISES SUMMERFIELD LLC
4201 W CYPRESS STREET, TAMPA, FL 33607
MARION COUNTY FLORIDA

DRAINAGE PLAN

JOSHUA S. BRADLEY
State of Florida,
Professional Engineer,
License No. 60020
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SHEET NUMBER
C7.0

S-T-R
16-17-23



DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30312
APPROVAL DATE: 9/9/24
EXPIRATION DATE: 9/9/26

All construction shall conform to the construction standards contained in the Marion County Land Development Code, latest revision. Areas of the right-of-way disturbed during construction shall be dressed and sodded. Seed and mulch may be used if approved by the County Engineer or designee.

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LEGEND

- EXISTING WATERMAIN
- EXISTING SANITARY
- EXISTING SANITARY FORCEMAIN
- PROPOSED WATERMAIN
- PROPOSED SANITARY SEWER
- PROPOSED SANITARY FORCEMAIN
- PROPOSED TREE BARRICADE

UTILITY NOTES

1. PROPOSED WATER MAIN TO BE DEFLECTED OVER OR UNDER STORM AND SANITARY PIPE (MIN. 18" CLEARANCE). WHEN WATER MAIN IS BELOW SANITARY OR LESS THAN 18" CLEARANCE, SANITARY SEWER PIPE TO BE CONSTRUCTED WITH D.I.P. 18" ON EACH SIDE OF THE CROSSING.
2. WATER AND SEWER LATERALS ARE TO BE ADJUSTED TO MAINTAIN 18" MINIMUM CLEARANCE WITH ALL OTHER UTILITIES.
3. GRASS AND MULCH, OR SOLID SOD, ALL AREAS IN EXISTING RIGHT-OF-WAY DISTURBED BY THE PROPOSED IMPROVEMENTS.
4. CONTRACTOR SHALL COORDINATE ALL WORK WITHIN, BUT NOT LIMITED TO, CITY/COUNTY RIGHTS-OF-WAY WITH UTILITY COMPANIES IN ORDER TO PREVENT DAMAGE TO UTILITY LINES AND/OR MAKING ADJUSTMENTS, IF REQUIRED.
5. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF EXISTING UTILITIES PRIOR TO INITIATING CONSTRUCTION AND NOTIFY THE ENGINEER OF RECORD (E.O.R.) IN WRITING OF ANY CONFLICTS BEFORE CONSTRUCTION.
6. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL ROAD CROSSING AND/OR UTILITY PERMITS, IF REQUIRED.
7. ALL SANITARY SEWER MANHOLES TO BE INSTALLED WITHIN UNPAVED AREAS SHALL HAVE A WATER-TIGHT RING AND COVER.
8. BENDS SHALL BE INSTALLED IN FORCE MAIN AND/OR WATER MAIN TO AVOID UNFORESEEN CONFLICTS IN EXISTING/PROPOSED STRUCTURES.
9. THE JOINT DEFLECTION METHOD SHALL BE USED WHERE PRACTICAL IN LIEU OF INSTALLING BENDS.
10. CONTRACTOR TO USE RISERS AS NECESSARY ON SANITARY LEADS TO MAINTAIN MINIMUM REQUIRED DEPTH.
11. CONTRACTOR TO EXTEND WATER MAIN AND FURNISH TAPPING SLEEVE AND VALVE FOR WATER METER TAP.
12. ANY PROPOSED ELECTRICAL, TELEPHONE, CABLE, & GAS SHOWN ON THIS PLAN ARE CONCEPTUAL. CONTRACTOR TO VERIFY THESE EXISTING UTILITY LOCATIONS & POINTS OF CONNECTION PRIOR TO THE START OF CONSTRUCTION.
13. UTILITY INSTALLING PROJECTS SHALL BE INSPECTED BY MCUD. A PRE-CONSTRUCTION MEETING IS TO BE ORGANIZED NO LATER THAN 72 HOURS IN ADVANCE OF SCHEDULED CONSTRUCTION WITH MCUD CONSTRUCTION OFFICER 352-433-3126. FAILURE TO CONDUCT A PRE-CON MAY RESULT IN A STOP-WORK ORDER.
14. ALL SHOWN ONSITE INFRASTRUCTURE TO BE PRIVATELY OWNED & MAINTAINED BY OWNER.
15. ANY NEWLY INSTALLED FIRE HYDRANT SHALL BE FLOWED AND PAINTED ACCORDING TO NFPA 291 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

NO.	DATE	DESCRIPTION
-	-	ORIGINAL SET 6/14/23
-	-	REVISIONS
1	7/31/23	REVISED PER COUNTY & FDOT COMMENTS
2	10/04/23	REVISED PER FDOT ACCESS COMMENTS
3	08/27/24	REVISED PER COUNTY & FDOT COMMENTS

NATIVE engineering, plc
P.O. BOX 2995
LAND O' LAKES, FL 34639
(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
MARION COUNTY FLORIDA

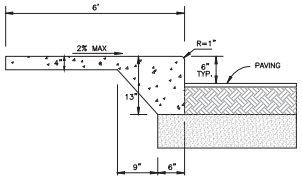
UTILITY PLAN

JOSHUA S. BRADLEY
State of Florida,
Professional Engineer,
License No. 60020
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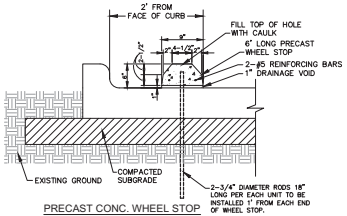
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S-T-R
16-17-23

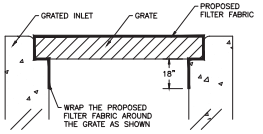
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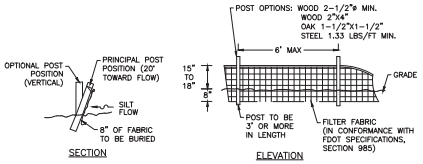
MONOLITHIC SIDEWALK SECTION
ADJACENT TO PAVING/PARKING
N.T.S



PRECAST CONC. WHEEL STOP
(NOT INSIDE FDOT ROW)
N.T.S.

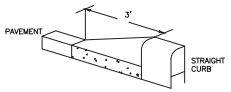


GRATE INLET EROSION PROTECTION DETAIL
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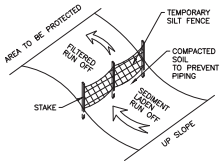


SECTION

ELEVATION

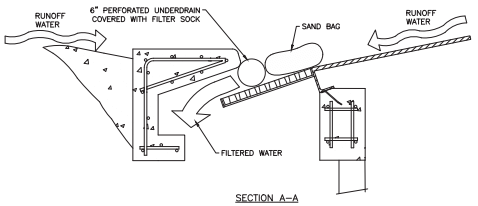


STRAIGHT CURB TO PAVEMENT DETAIL
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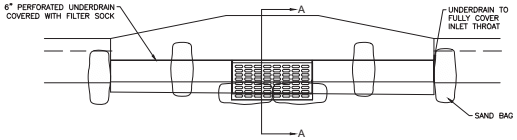


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1. THE FOLLOWING LIST REPRESENTS A BASIC EROSION AND SEDIMENT CONTROL PROGRAM WHICH IS TO BE IMPLEMENTED TO HELP PREVENT OFF SITE SEDIMENTATION DURING AND AFTER CONSTRUCTION OF THE PROJECT.
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7. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER.
8. MATERIAL FROM SEDIMENT TRAPS SHALL NOT BE STOCKPILED OR DISPOSED OF IN A MANNER WHICH MAKES THEM READILY SUSCEPTIBLE TO BEING WASHED INTO ANY WATERCOURSE BY RUNOFF OR HIGH WATER.
9. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE BARRIERS ARE NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

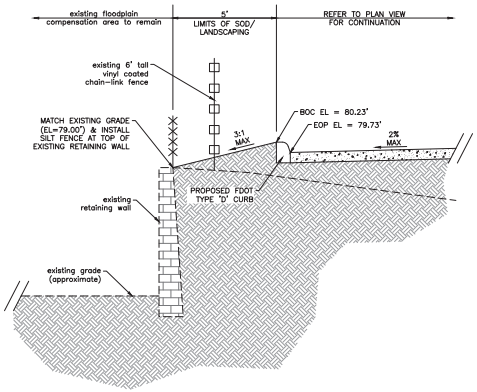
SILT FENCE & EROSION CONTROL DETAIL
N.T.S



SECTION A–A



CURB INET PROTECTION DETAIL
N.T.S



SECTION A - A
N.T.S

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30312
APPROVAL DATE: 9/9/24
EXPIRATION DATE: 9/9/26

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

ORIGINAL SET: 6/14/23
REVISIONS

NO	DATE	DESCRIPTION

NATIVE engineering,plc
P.O. BOX 2985
LAND O' LAKES, FL 34639
(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
MARION COUNTY FLORIDA

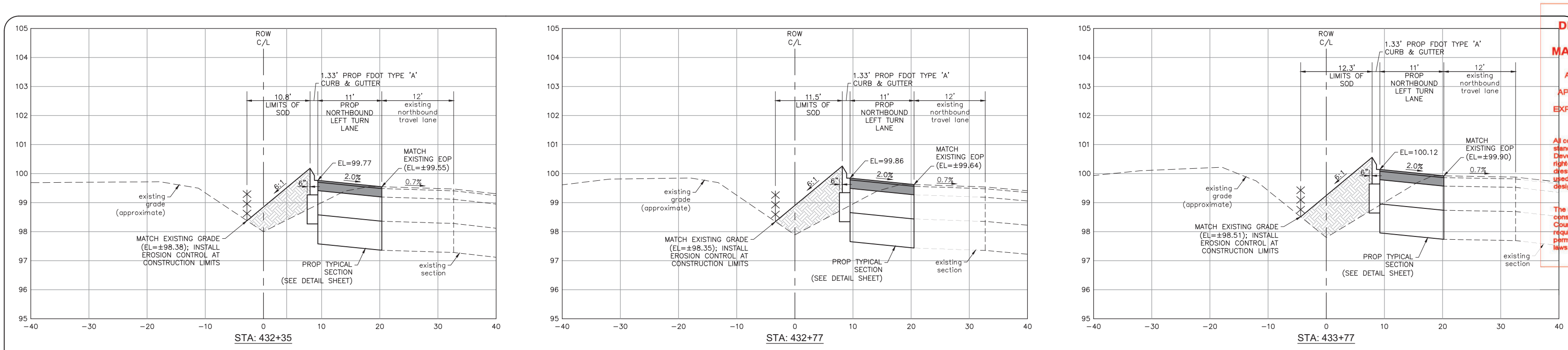
CROSS SECTIONS & DETAILS SHEET

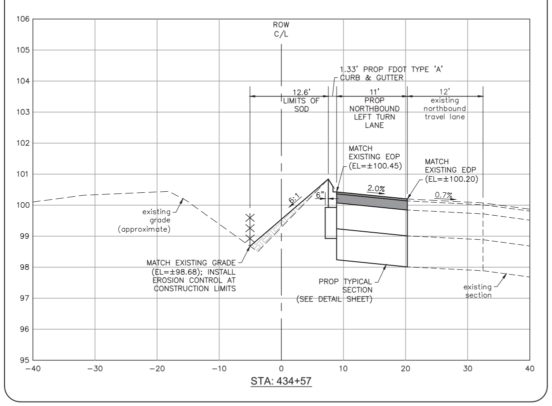
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SHEET NUMBER
C9.0

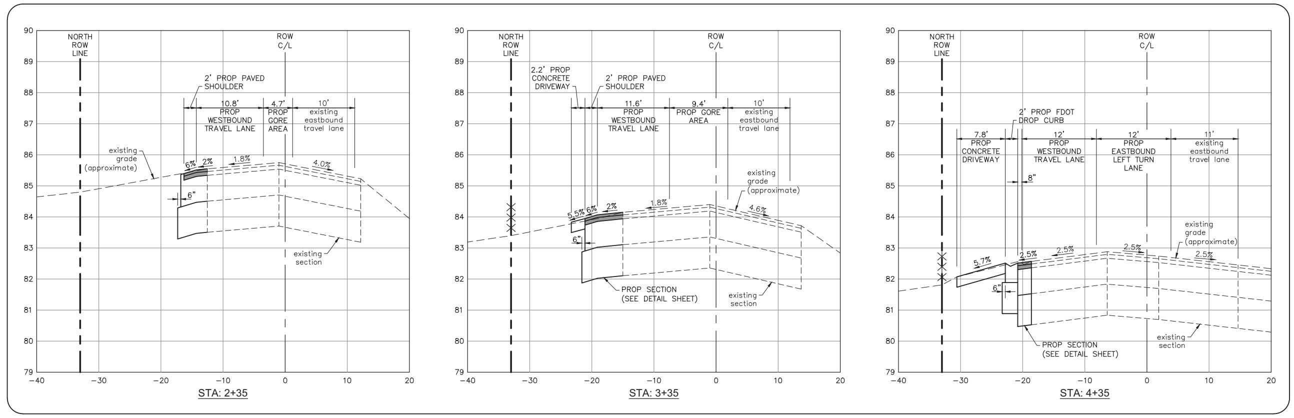
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16-17-23

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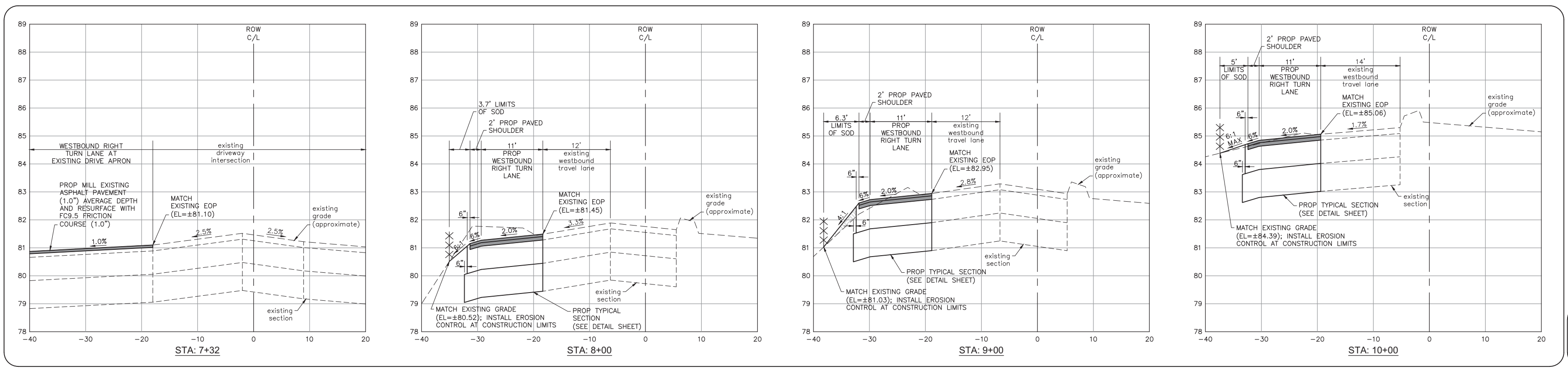




US HWY 441 NORTHBOUND LEFT TURN LANE SECTIONS



147TH PLACE EASTBOUND LEFT TURN LANE SECTIONS



147TH PLACE WESTBOUND RIGHT TURN LANE SECTIONS

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30312
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0 5 10 20
1" = 10' HORIZ.

0 1 2 4
1" = 2' VERT.

ORIGINAL SET: 6/14/23
REVISIONS

NO.	DATE	DESCRIPTION
3	12/21/23	REVISED PER COUNTY & CLIENT COMMENTS
2	10/04/23	REVISED PER FDOT ACCESS COMMENTS
1	08/21/23	REVISED PER COUNTY & FDOT COMMENTS

NATIVE engineering,pllc
P.O. BOX 2995
LAND O' LAKES, FL 34639
(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

MARION COUNTY FLORIDA

OFF-SITE CROSS SECTIONS

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

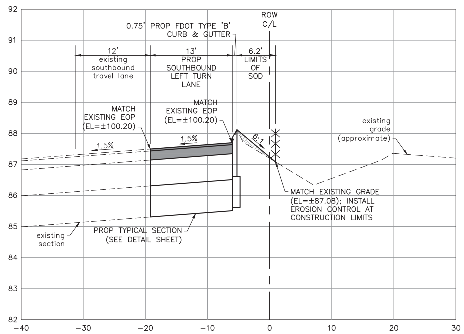
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CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL OF FLORIDA, INC. AT LEAST 48 HOURS PRIOR TO EXCAVATION 1-800-432-4770

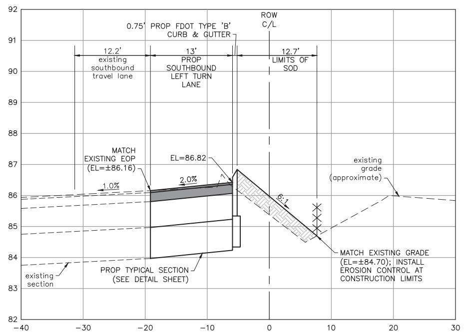
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S-T-R
16-17-23

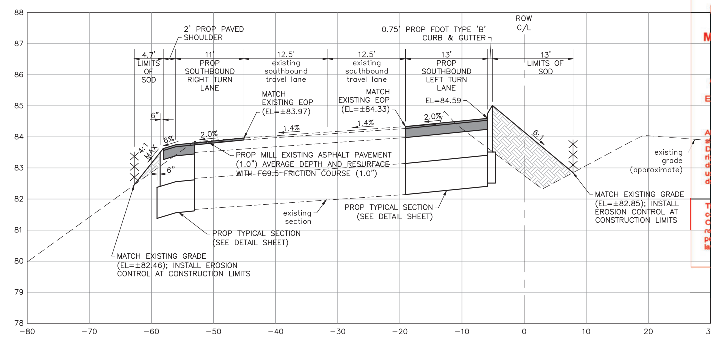
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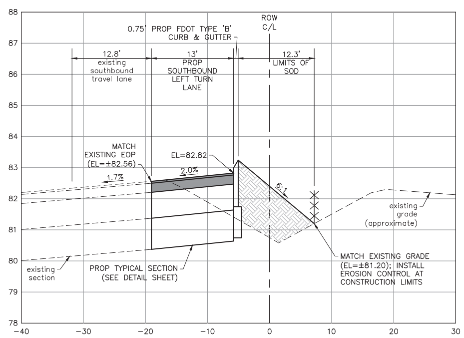
STA: 443+54



STA: 444+23

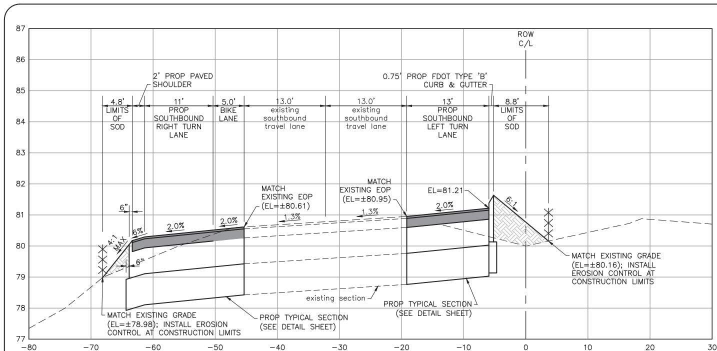


STA: 445+23



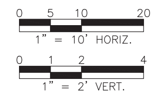
STA: 446+23

US HWY 441 SOUTHBOUND LEFT TURN LANE SECTIONS

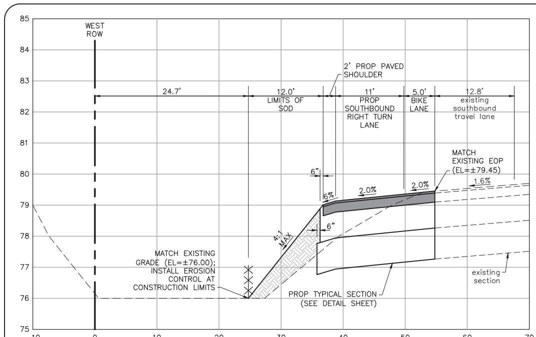


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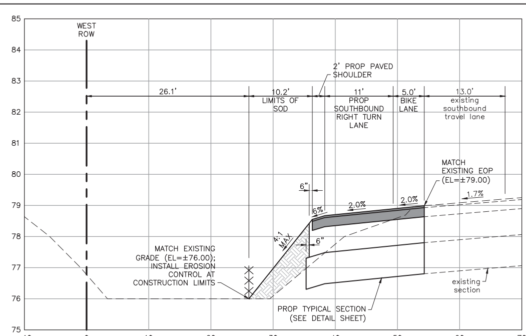
US HWY 441 SOUTHBOUND LEFT & RIGHT TURN LANE SECTIONS



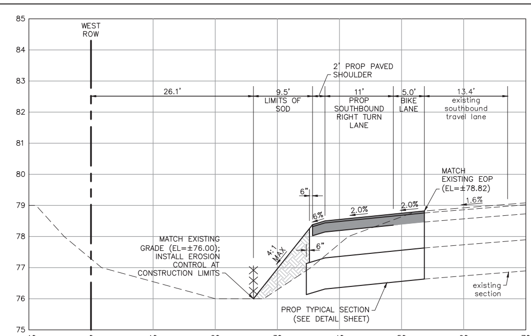
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STA: 448+23



STA: 449+23



STA: 450+23

US HWY 441 SOUTHBOUND RIGHT TURN LANE SECTIONS

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30312
APPROVAL DATE: 9/9/24
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OFF-SITE CROSS SECTIONS

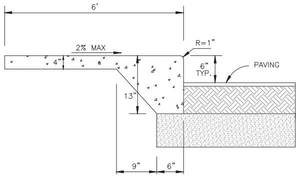
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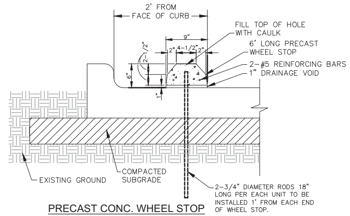
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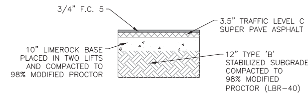
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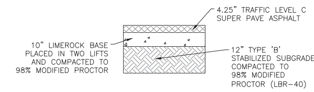
MONOLITHIC SIDEWALK SECTION ADJACENT TO PAVING/PARKING
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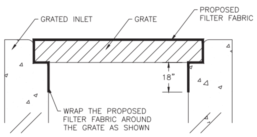
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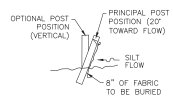
TYPICAL OFF-SITE PAVEMENT DESIGN
N.T.S



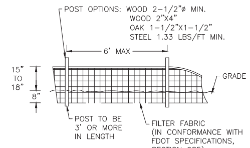
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GRATE INLET EROSION PROTECTION DETAIL
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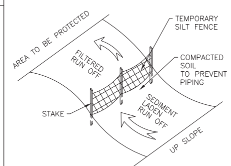


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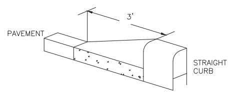


ELEVATION

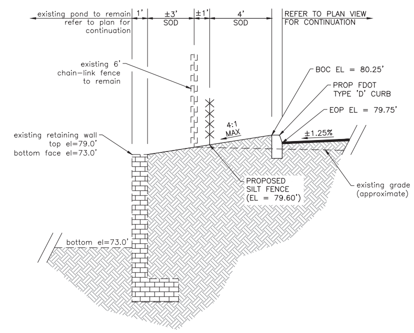
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6. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BARRIERS SHALL BE ACCOMPLISHED PROMPTLY.
7. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER.
8. MATERIAL FROM SEDIMENT TRAPS SHALL NOT BE STOCKPILED OR DISPOSED OF IN A MANNER WHICH MAKES THEM READILY SUSCEPTIBLE TO BEING WASHED INTO ANY WATERCOURSE BY RUNOFF OR HIGH WATER.
9. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE BARRIERS ARE NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.



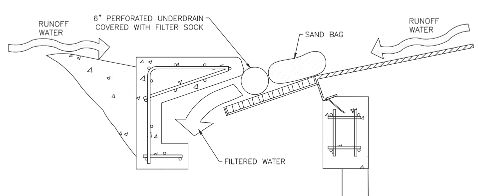
SILT FENCE & EROSION CONTROL DETAIL
N.T.S



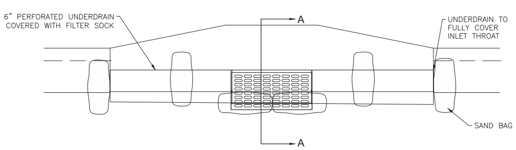
STRAIGHT CURB TO PAVEMENT DETAIL
N.T.S.



SECTION A - A
N.T.S



SECTION A–A



CURB INET PROTECTION DETAIL
N.T.S

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30312
APPROVAL DATE: 9/9/24
EXPIRATION DATE: 9/9/26

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

ORIGINAL SET: 6/14/23
REVISIONS

NO.	DATE	DESCRIPTION
-	-	-
-	-	-
-	-	-
3	12/21/23	REVISED PER COUNTY & CLIENT COMMENTS
2	10/04/23	REVISED PER FDOT ACCESS COMMENTS
1	08/21/23	REVISED PER COUNTY & FDOT COMMENTS

NATIVE engineering,pllc
P.O. BOX 2995
LAND O' LAKES, FL 34639
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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

CROSS SECTIONS & DETAILS SHEET

JOSHUA S. BRADLEY
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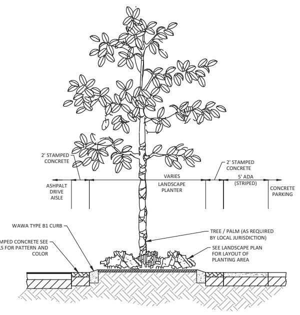
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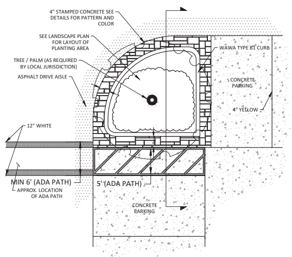
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S-T-R
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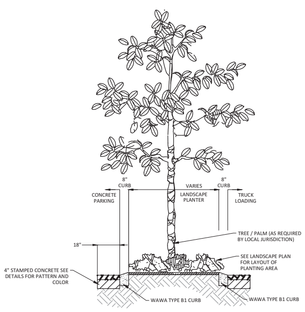
WAWA PLANTER DETAILS

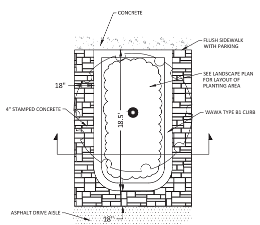




CORNER ISLAND LANDSCAPE DETAIL

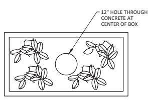
NTS





PARKING ISLAND LANDSCAPE DETAIL

NTS

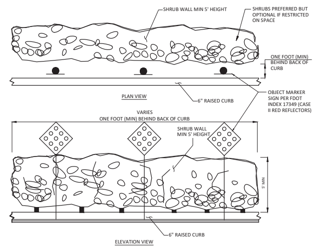


NOTE: PLANTER DRAINS TO CONNECT TO ROOF DRAIN MANIFOLD. SEE DETAIL.

PLANTER BOX DRAINAGE DETAIL

NTS

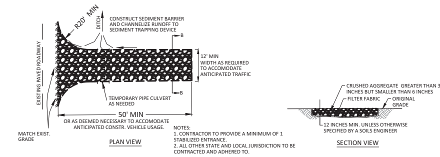
TRAFFIC CONTROL DETAILS



TRAFFIC BARRIER DETAIL
NON-HAZARDOUS AREAS

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EROSION CONTROL DETAILS



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STABILIZED CONSTRUCTION ENTRANCE / EXIT (TYPE 1)

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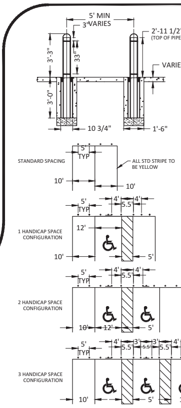
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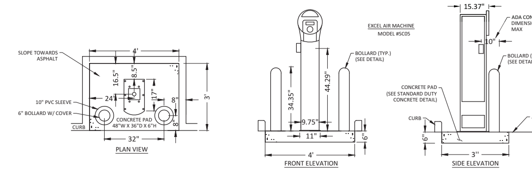
WAWA GENERAL DETAILS



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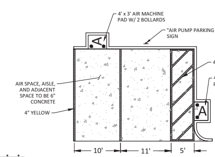
BOLLARD SPACING/DIMENSION DETAIL

NTS



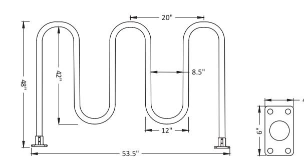
AIR PUMP STAND

NTS



AIR PARKING SPACE DETAIL

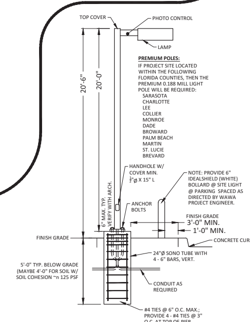
NTS



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STANDARD BICYCLE RACK DETAIL

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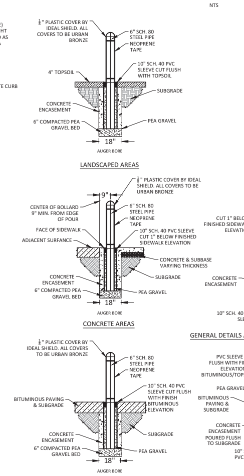
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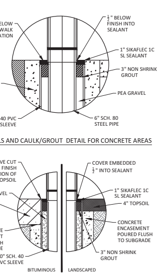
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LIGHT POLE WITH STANDARD ANCHORING DETAIL

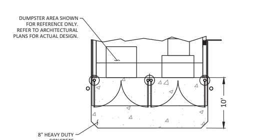
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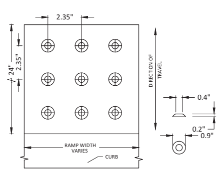
BOLLARD DETAIL

NTS



REMOTE DUMPSTER CONCRETE APRON

NTS

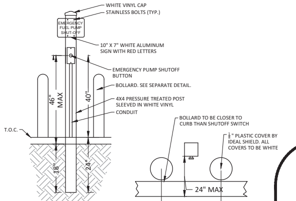


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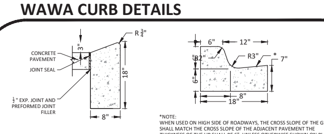
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EMERGENCY PUMP SHUTOFF DETAIL

NTS

WAWA CURB DETAILS

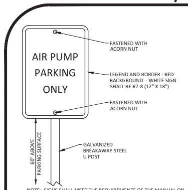


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WAWA TYPE B1 CURB NTS

WAWA TYPE F1 CURB NTS

WAWA SIGNAGE/STRIPING DETAILS

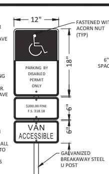


NOTE: SIGNS SHALL MEET THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

AIR PARKING SIGN

NTS

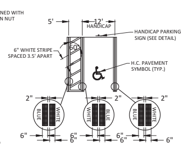
NOTES:
1. ALL LETTERS ARE 1" SERIES "C" PER MUTCD.
2. TOP PORTION OF SIGN SHALL HAVE A REFLECTORIZED (ENGINEERING GRADE) BLUE BACKGROUND WITH WHITE REFLECTORIZED LEGEND AND BORDER.
3. BOTTOM PORTION OF SIGN SHALL HAVE A REFLECTORIZED (ENGINEERING GRADE) WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER.
4. FINE NOTIFICATION SIGN SHALL HAVE A REFLECTORIZED (ENGINEERING GRADE) WHITE BACKGROUND WITH BLACK OPAQUE LEGEND & BORDER. CONTRACTOR SHALL VERIFY FINE AMOUNT & ORD. NO.
5. ONE (1) SIGN REQUIRED FOR EACH PARKING SPACE.
6. INSTALLATION HEIGHT OF SIGN SHALL BE 60" ABOVE THE FINISHED GRADE TO THE BOTTOM OF THE SIGN. ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
7. SIGN POST TO BE GALVANIZED BREAKAWAY STEEL U POST.
8. SIGN TO BE FASTENED TO POST WITH ACORN NUT.



HANDICAP PARKING SIGN

NTS

SIGNAGE AND STRIPING NOTES:
1. ALL STANDARD PARKING STRIPES ARE TO BE 4" YELLOW
2. ARROWS SHOWN IN DRIVE AISLES ARE FOR INFORMATION ONLY AND SHALL NOT BE PAINTED.



STRIPING, SPACING, AND CURB RAMPS SHALL COMPLY WITH THE LATEST STATE OF FLORIDA ACCESSIBILITY CODE & FDOT STANDARD INDEX 17346

NOTE: ALL SIGNS TO USE ACORN BOLTS.

HANDICAP STRIPING DETAIL

NTS

NO.	DATE	DESCRIPTION
		ORIGINAL SET: 6/14/23 REVISIONS

NATIVE engineering,plic
P.O. BOX 2995
LAND O' LAKES, FL 34639
(813) 536-2539

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DETAILS SHEET

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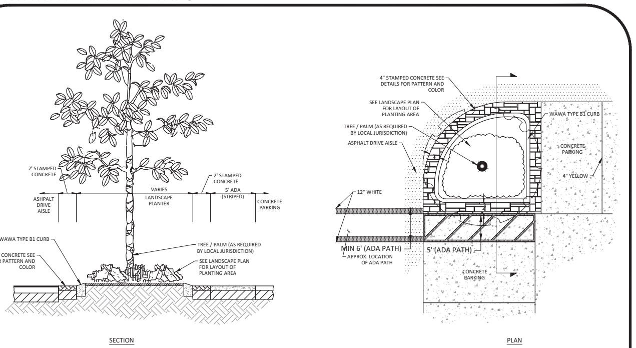
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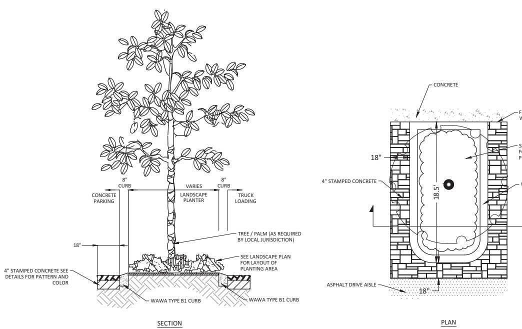
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WAWA PLANTER DETAILS



CORNER ISLAND LANDSCAPE DETAIL

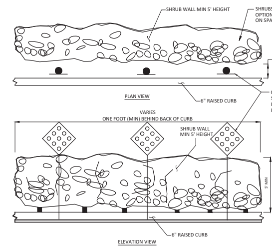
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PARKING ISLAND LANDSCAPE DETAIL

NTS

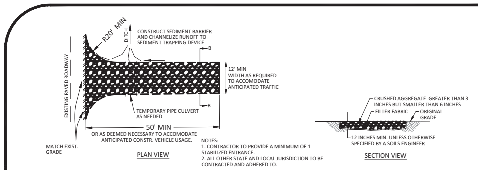
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TRAFFIC BARRIER DETAIL
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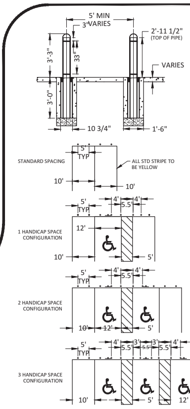
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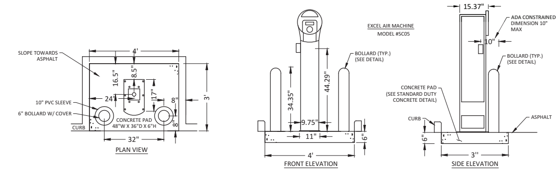
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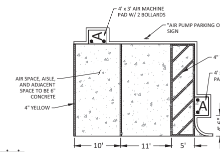
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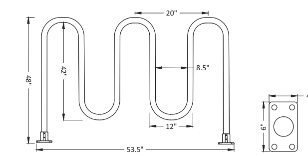
AIR PUMP STAND

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AIR PARKING SPACE DETAIL

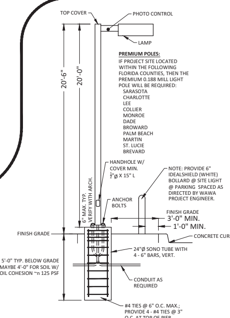
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STANDARD BICYCLE RACK DETAIL

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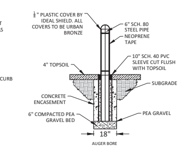
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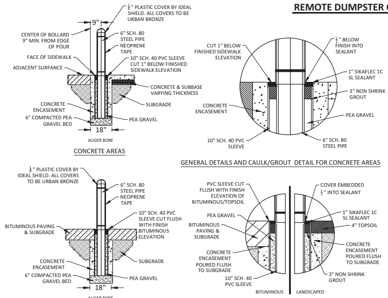
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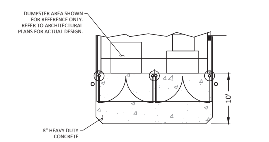
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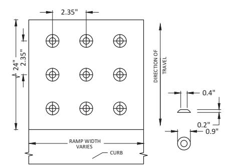
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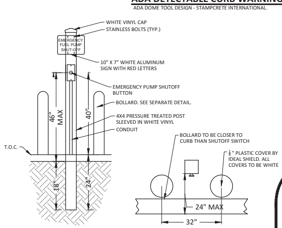


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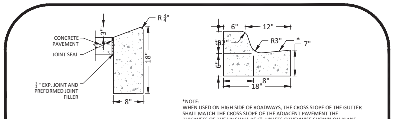
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*NOTE:
WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS.

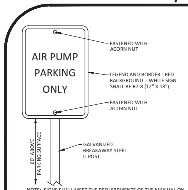
WAWA TYPE B1 CURB

NTS

WAWA TYPE F1 CURB

NTS

WAWA SIGNAGE/STRIPING DETAILS

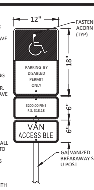


NOTE: SIGNS SHALL MEET THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

AIR PARKING SIGN

NTS

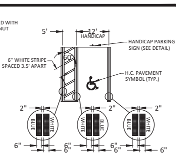
NOTES:
1. ALL LETTERS ARE 1" SERIES "C" PER MUTCD.
2. TOP PORTION OF SIGN SHALL HAVE A REFLECTORIZED (ENGINEERING GRADE) BLUE BACKGROUND WITH WHITE REFLECTORIZED LEGEND AND BORDER.
3. BOTTOM PORTION OF SIGN SHALL HAVE A REFLECTORIZED (ENGINEERING GRADE) WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER.
4. FINE NOTIFICATION SIGN SHALL HAVE A REFLECTORIZED (ENGINEERING GRADE) WHITE BACKGROUND WITH BLACK OPAQUE LEGEND & BORDER. CONTRACTOR SHALL VERIFY FINE AMOUNT & ORD. NO.
5. ONE (1) SIGN REQUIRED FOR EACH PARKING SPACE.
6. INSTALLATION HEIGHT OF SIGN SHALL BE 60" ABOVE THE FINISHED GRADE TO THE BOTTOM OF THE SIGN. ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
7. SIGN POST TO BE GALVANIZED BREAKAWAY STEEL U POST.
8. SIGN TO BE FASTENED TO POST WITH ACORN NUT.



HANDICAP PARKING SIGN

NTS

SIGNAGE AND STRIPING NOTES:
1. ALL STANDARD PARKING STRIPES ARE TO BE 4" YELLOW
2. ARROWS SHOWN IN DRIVE AISLES ARE FOR INFORMATION ONLY AND SHALL NOT BE PAINTED.



STRIPING, SPACING, AND CURB RAMPS SHALL COMPLY WITH THE LATEST STATE OF FLORIDA ACCESSIBILITY CODE & FDOT STANDARD INDEX 17346

NOTE: ALL SIGNS TO USE ACORN BOLTS.

HANDICAP STRIPING DETAIL

NTS

ORIGINAL SET: 6/14/23
REVISIONS

NO.	DATE	DESCRIPTION
1	08/21/23	REVISED PER COUNTY & FDOT COMMENTS
2	10/04/23	REVISED PER FDOT ACCESS COMMENTS
3	12/21/23	REVISED PER COUNTY & CLIENT COMMENTS
-		
-		
-		

NATIVE engineering,plc
P.O. BOX 2995
LAND O' LAKES, FL 34639
(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
MARION COUNTY
FLORIDA

DETAILS SHEET

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

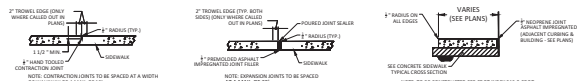
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JOSHUA S. BRADLEY, PE ON THE DATE INDICATED HERE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

SHEET NUMBER
C11.0

S-T-R
16-17-23

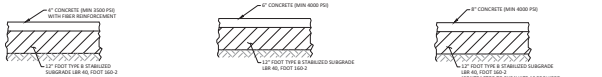
G:\SHARED DRIVES\CLIENTS\AMPROP\PROJECTS\1.23.012.00 - 441 & 147TH CONVENIENCE STORE\DRAWINGS\C9.0-C14.0 CROSS SECTIONS & DETAILS SHEET.DWG - 12/22/2023 3:07 PM

WAWA PAVEMENT DETAILS

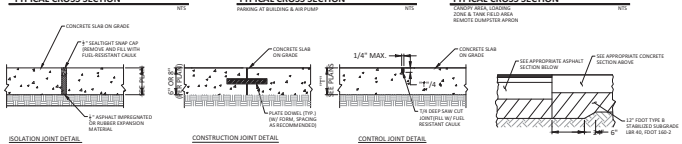


SIDEWALK DETAILS

NTS



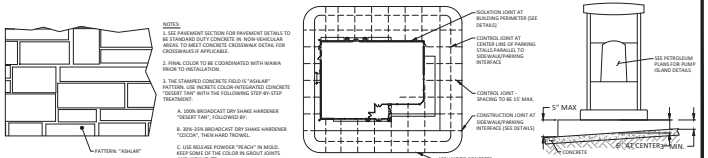
NTS



CONCRETE JOINT DETAILS

NTS

NOTE: SEE ARCHITECT SPECIFICATIONS FOR COMPLETE CONCRETE DETAILS.

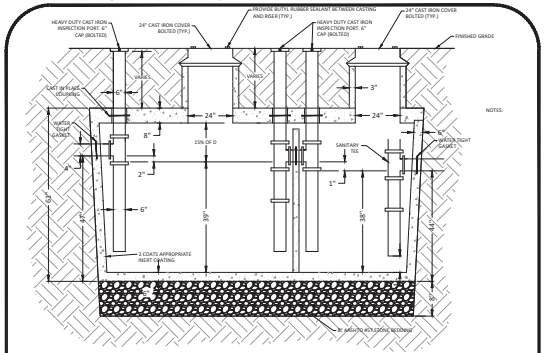


NTS



NTS

WAWA UTILITY DETAILS



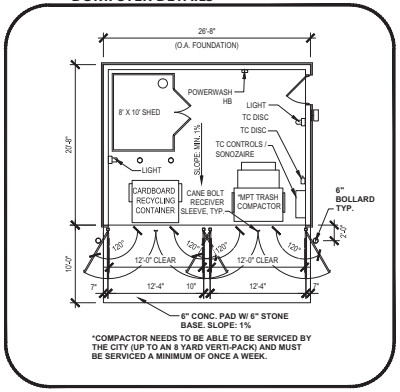
NTS

ALL INLET AND OUTLET PIPES SHALL BE INSTALLED NO MORE THAN 6" FROM THE BOTTOM OF THE GREASE TRAP. TANK TAPERS TOP TO BOTTOM AND IS TRAPEZOIDAL IN CROSS SECTION.
TANK IS 5000 PSI CONCRETE-STEEL REINFORCED (@ 28 DAYS) CONCRETE CONFORMS TO ACI 318-16-4.5.1 AND 318-16-4.5.2, ASTM A615 AND A185

-DIMENSION: 10'7" INTERIOR/ 11'7" EXTERIOR LENGTH x 5'2" INTERIOR/ 6'2"" EXTERIOR WIDTH

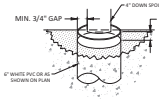
1) WHEN LOCATED IN DRIVEWAYS OR PAVED AREAS, GREASE TRAP TO BE DESIGNED FOR APPROPRIATE LOAD BEARING CONDITIONS. GREASE TRAP SHALL BE CAPABLE OF WITHSTANDING HS-20 LOADING.
2) ALL PIPE PENETRATIONS SHALL BE WATERTIGHT.
3) GREASE TRAP SHALL BE PROVIDED WITH GAS-TIGHT MANHOLE COVERS, IN ACCORDANCE WITH TOWNSHIP STANDARD SPECIFICATIONS.
4) PRECAST CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH 5000 PSI.
5) EXTERIOR CONCRETE SURFACES BELOW GRADE SHALL HAVE 2 COATS OF COAL TAR EPOXY.
6) SPECIFIC CONCRETE SEALANT AT CONCRETE NEEK TO CONCRETE VAULT INTERFACE SHALL BE WATERTIGHT. AT A MINIMUM, THE JOINT SHALL BE SEALED WITH BUTYL RUBBER SEALANT (KENT SEAL #2 OR APPROVED EQUIVALENT) AND THE EXTERIOR OF THE JOINT SHALL BE SEALED WITH NON-SHRINK GROUT IN CONFORMANCE WITH THE TOWNSHIP STANDARD GREASE TRAP DETAIL.
7) TANK SHALL BE TESTED FOR WATER TIGHTNESS BY FILLING FOR 24 HRS. TO SOAK, THEN TOPPED OFF, AND THEN WATCHED FOR 24 HRS. NO DROP IN WATER IS ALLOWED.
8) CAST IRON SHALL BE BOLTED TO CONCRETE WITH MASTIC TAPE (KENT SEAL OR APPROVED EQUIVALENT) SEALANT.
9) MAXIMUM EARTH COVER=5'-0", HS-20 LOADING.
10) INLET AND OUTLET EQUIPPED WITH PIPE SEALS.

DUMPSTER DETAILS



*COMPACTOR NEEDS TO BE ABLE TO BE SERVICED BY THE CITY (UP TO AN 8 YARD VERTI-PACK) AND MUST BE SERVICED A MINIMUM OF ONCE A WEEK.

WAWA DRAINAGE DETAILS



ROOF DRAIN CONNECTION DETAIL

NTS

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30312
APPROVAL DATE: 9/9/24
EXPIRATION DATE: 9/9/26

All construction shall conform to the construction standards contained in the Marion County Land Development Code, latest revision. Areas of the right-of-way disturbed during construction shall be dressed and sodded. Seed and mulch may be used if approved by the County Engineer or designee.

NOTICE
The approval of these plans is limited to construction under the jurisdiction of Marion County and does not substitute nor waive the requirements of other agencies for additional permits, as applicable, by state and/or federal laws.

ORIGINAL SET: 8/14/23

REVISIONS

NO	DATE	DESCRIPTION
-	-	-
1	12/21/23	REVISED PER COUNTY & FDOT COMMENTS
2	10/24/24	REVISED PER FDOT ACCESS COMMENTS
3	08/27/25	REVISED PER COUNTY & FDOT COMMENTS

NATIVE engineering,plc
P.O. BOX 2985
LAND O' LAKES, FL 34639
(813) 536-2539

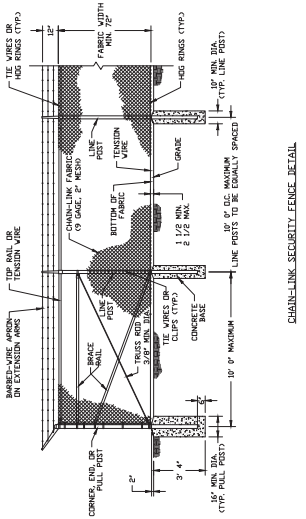
MAJOR SITE PLAN FOR CONVENIENCE STORE @ US HWY 441 & SE 147TH PLACE
FOR
AMPROP ENTERPRISES SUMMERFIELD LLC
4201 W CYPRESS STREET, TAMPA, FL 33607
MARION COUNTY FLORIDA

DETAILS SHEET

JOSHUA S. BRADLEY
State of Florida,
Professional Engineer,
License No. 60020
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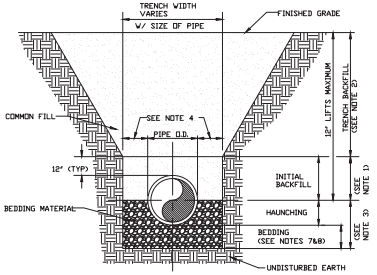
SHEET NUMBER
C12.0

S-T-R
16-17-23



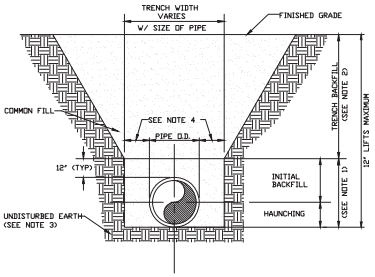
NOTES:
1. PVC PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (10 GAUGE COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE BURIED DIRECTLY ABOVE THE CENTERLINE OF THE PIPE.
2. LOCATING WIRE SHALL TERMINATE AT EACH VALVE BOX AND BE CAPABLE OF EXTENDING 12" ABOVE TOP OF BOX IN SUCH A MANNER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

MCBCC ADOPTED 10/12/2013	CHAIN LINK FENCE	7.3.2 UT 100
REVISION 0		



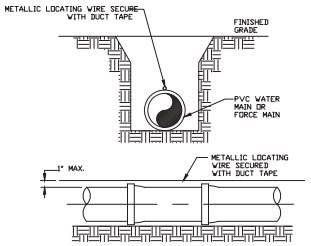
NOTES:
1. INITIAL BACKFILL: COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
3. TYPE A BEDDING MATERIAL SHALL CONFORM TO FDOT NO. 57 AGGREGATE.
4. 15" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX (12" MIN) FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER UP TO 12" AND 6" MINIMUM FOR PIPE DIAMETER 16" AND LARGER.
8. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. UTILITIES SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.
9. 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 EFFECTIVE 04/27/2018	TYPE "A" BEDDING AND TRENCHING	7.3.2 UT 102
REVISION # 1		

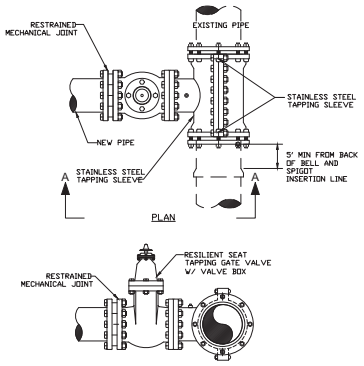


NOTES:
1. INITIAL BACKFILL AND HAUNCHING: SELECT COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
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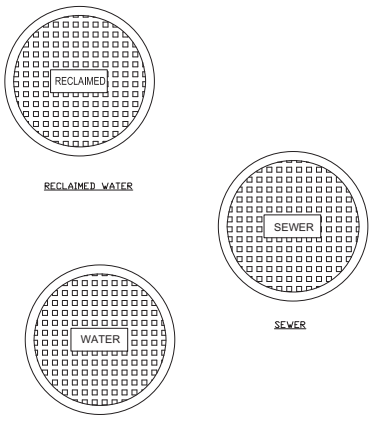
MCBCC EFFECTIVE 04/27/2018	TYPE "B" BEDDING AND TRENCHING	7.3.2 UT 103
REVISION # 1		



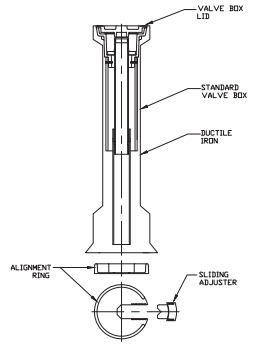
MCBCC EFFECTIVE 04/27/2018	PIPE LOCATING WIRE	7.3.2 UT 104
REVISION # 1		



MCBCC EFFECTIVE 10/12/2013	MJ TAPPING SLEEVE AND GATE VALVE ASSEMBLY FOR WATER AND RECLAIMED WATER	7.3.2 UT 108
REVISION # NA		



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



NOTES:
1. FOR ALL MAINS 6.0 FEET DEEP OR GREATER, PVC PIPE EXTENSIONS SHALL BE USED ON VALVE BOX INSTALLATION.

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

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30312
APPROVAL DATE: 9/9/24
EXPIRATION DATE: 9/9/26

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ORIGINAL SET: 6/14/23
REVISIONS

NO	DATE	DESCRIPTION

NATIVE engineering,plic
P.O. BOX 2985
LAND O' LAKES, FL 34639
(813) 536-2539

MAJOR SITE PLAN FOR CONVENIENCE STORE @ US HWY 441 & SE 147TH PLACE
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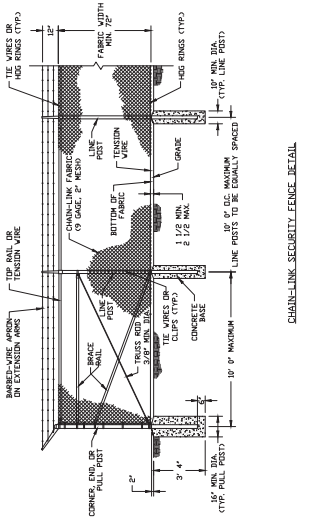
UTILITY DETAILS SHEET

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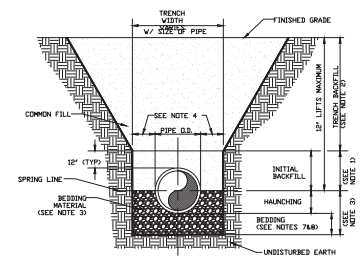
S-T-R
16-17-23

G:\SHARED DRIVES\CLIENTS\AMPROP\PROJECTS\1.23.012.00 - 441 & 147TH CONVENIENCE STORE\DRAWINGS\C9.0-C13.0 CROSS SECTIONS & DETAILS SHEET.DWG - 6/15/2023 3:53 PM



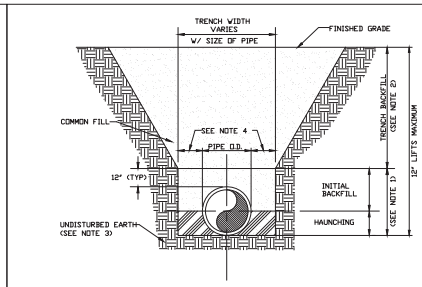
CHAIN-LINK SECURITY FENCE DETAIL

MCBCC EFFECTIVE 04/13/2023	REVISION # NA	CHAIN LINK FENCE	7.3.2 UT 100



NOTES:
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10. ONE COMPACTION TEST SHALL BE REQUIRED FOR EACH LIFT NOT TO EXCEED 200'.

MCBCC EFFECTIVE 04/13/2023	REVISION # 2	BEDDING AND TRENCHING 1	7.3.2 UT 102



NOTES:
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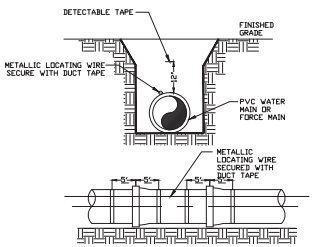
MCBCC EFFECTIVE 04/13/2023	REVISION # 2	BEDDING AND TRENCHING 2	7.3.2 UT 103

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30312
APPROVAL DATE: 9/9/24
EXPIRATION DATE: 9/9/26

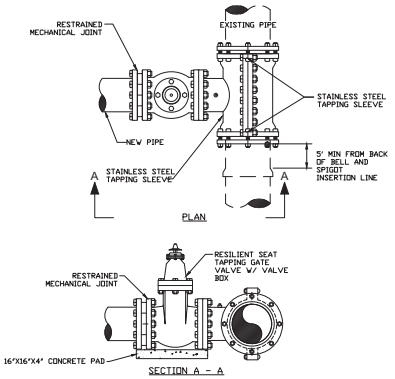
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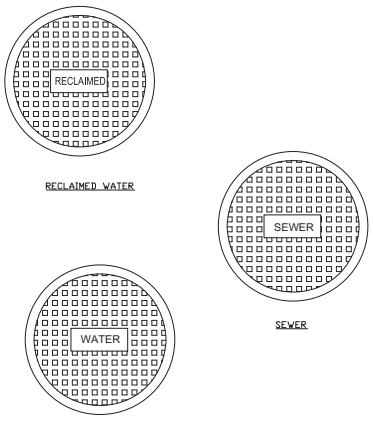
NOTES:
1. PVC PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (10 GAUGE COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE BURIED ON TOP OF THE PIPE.
2. LOCATING WIRE SHALL TERMINATE AT EACH VALVE BOX AND BE CAPABLE OF EXTENDING 12" ABOVE TOP OF BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION PER UT 112.
3. ALL WIRE CONNECTIONS SHALL BE SPLICED TOGETHER USING WATERTIGHT WIRE NUTS.
4. FOR HORIZONTAL DIRECTIONAL DRILLING, UTILIZE 2 LOCATING WIRES EACH WITH A BREAK LOAD OF 2032 POUNDS.
5. DETECTABLE TAPE SHALL BE 1' ABOVE THE CENTERLINE OF THE PIPE.

MCBCC EFFECTIVE 04/13/2023	REVISION # 2	PIPE LOCATING WIRE AND DETECTABLE TAPE	7.3.2 UT 104

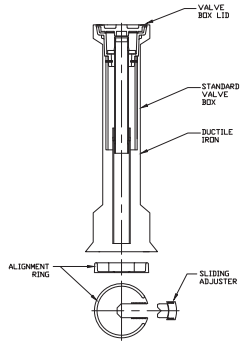


NOTES:
1. PRIOR TO BEGINNING THE TAPPING OPERATION, THE SLEEVE AND VALVE SHALL BE PRESSURE TESTED AT 150 PSI FOR A MINIMUM OF 30 MINUTES TO ENSURE THAT NO LEAKAGE WILL OCCUR.
2. CONTRACTOR SHALL PROVIDE MCU PROOF OF PRESSURE TEST IN THE FORM OF A TAPPING TEST LOG WITH THE CONTRACTOR'S SIGNATURE.
3. CONTRACTOR MUST CONFIRM RESTRAINTS IN ALL DIRECTIONS AND INSTALL ADDITIONAL RESTRAINTS AS NECESSARY TO COMPLY WITH LAND DEVELOPMENT CODE.
4. ALL TAPS MUST BE LOCATED A MINIMUM OF 5' AWAY FROM ANY BELL AND/OR FITTING.
5. STAINLESS STEEL TAPPING SLEEVE SHALL BE MADE OF 316SS.

MCBCC EFFECTIVE 04/13/2023	REVISION # 1	TAPPING SLEEVE AND GATE VALVE ASSEMBLY	7.3.2 UT 108



MCBCC EFFECTIVE 04/13/2023	REVISION # NA	TYPICAL VALVE BOX COVER	7.3.2 UT 110



NOTES:
1. FOR ALL MAINS 6.0' DEEP OR GREATER, PVC PIPE EXTENSIONS SHALL BE USED ON VALVE BOX INSTALLATION.

MCBCC EFFECTIVE 04/13/2023	REVISION # 1	SEALED VALVE BOX, ADJUSTABLE	7.3.2 UT 111

NATIVE engineering,plic
P.O. BOX 2985
LAND O' LAKES, FL 34639
(813) 536-2539

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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
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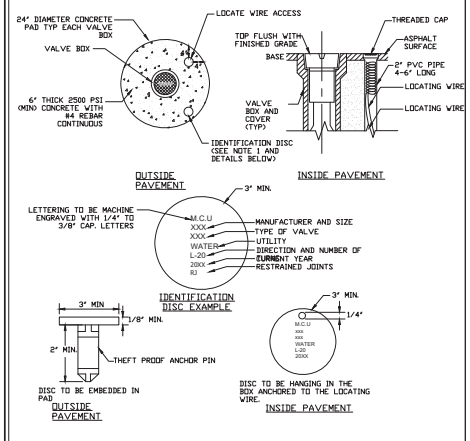
UTILITY DETAILS SHEET

JOSHUA S. BRADLEY
State of Florida,
Professional Engineer,
License No. 60020
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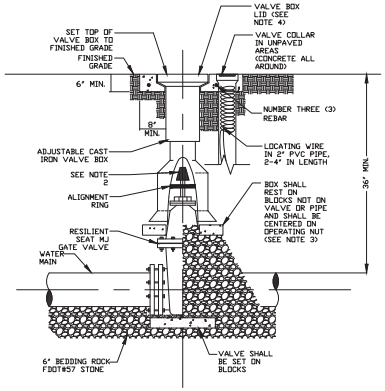
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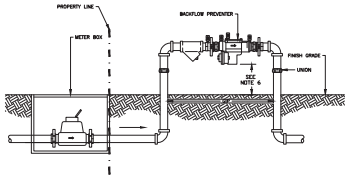
NOTES:
1. BRONZE (OR STAINLESS STEEL) IDENTIFICATION DISC SHALL BE REQUIRED FOR ALL VALVES, EXCEPT HYDRANT VALVES.
2. LOCATING WIRE SHALL TERMINATE AT EACH VALVE BOX AND BE CAPABLE OF EXTENDING 12" ABOVE TOP OF BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION.

MCBCC EFFECTIVE 04/13/2023	VALVE BOX PAD	7.3.2
REVISION # 1		UT 112



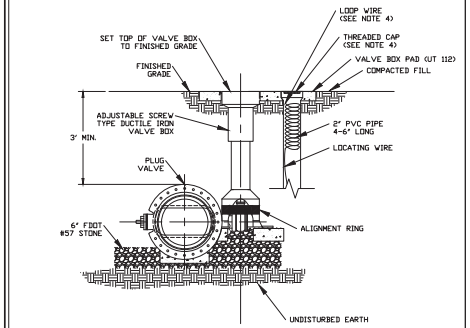
NOTES:
1. PVC EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION (SEE UT111).
2. THE ACTUATING NUT FOR VALVES DEEPER THAN SIX (6) FEET SHALL BE EXTENDED TO COME UP TO 3 FOOT DEPTH BELOW FINISHED GRADE.
3. VALVE BOX SHALL BE SET ON FIVE (5) SOLID COMMON BLOCKS.
4. VALVE BOX LID TO BE LETTERED WITH THE WORD "WATER" OR "RECLAIMED".
5. INSTALL BRASS ID TAG IN CONCRETE.

MCBCC EFFECTIVE 04/13/2023	GATE VALVE WATER AND RECLAIMED MAINS	7.3.2
REVISION # 2		UT 204



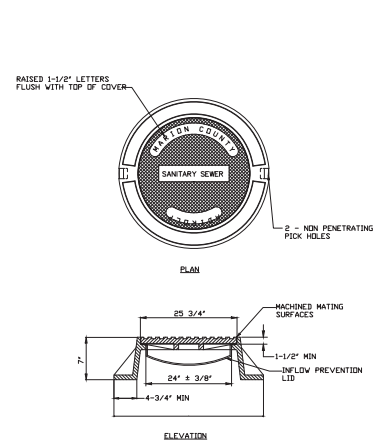
NOTES:
1. BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED AND MAINTAINED AS PER MARION COUNTY CROSS CONNECTION CONTROL ORDINANCE AND/OR PLUMBING CODE.
2. BACKFLOW PREVENTION ASSEMBLY TO BE INSTALLED LEVEL AND PLUMB.
3. MINIMUM CLEARANCE OF 24" TO BE MAINTAINED AROUND ASSEMBLY FOR TESTING.
4. ASSEMBLY MUST BE LISTED WITH THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH.
5. ALL BACKFLOW PREVENTION ASSEMBLIES MUST BE TESTED FOLLOWING INSTALLATION AND INITIATION OF WATER SERVICE. THE BACKFLOW PREVENTION ASSEMBLY TESTER MUST POSSESS A CURRENT AMERICAN WATER WORKS ASSOCIATION (AWWA) AND/OR AMERICAN BACKFLOW PREVENTION ASSOCIATION (ABPA) BACKFLOW TESTER CERTIFICATE. A COPY OF THE BACKFLOW PREVENTION ASSEMBLY TEST REPORT MUST BE SUBMITTED TO THE BACKFLOW & CCC COORDINATOR AT MCU WITHIN 14 DAYS FROM THE DATE OF INSTALLATION.
6. MIN 12" MAX 36" ABOVE FINISHED GRADE AND FLOODPLAIN.
7. METERS LARGER THAN 2" WILL REQUIRE DISCUSSION WITH MCU.

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



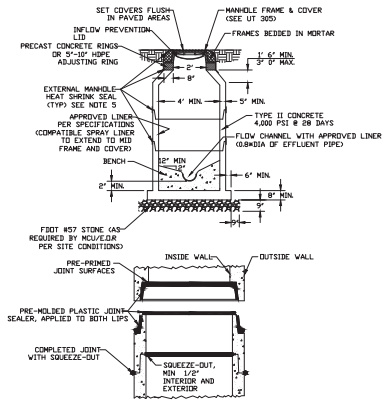
NOTES:
1. VALVE BOX INSTALLATION SHALL COMPLY WITH UT 111.
2. THE VALVE ACTUATING NUT SHALL BE EXTENDED UP TO BE WITHIN 3' OF FINISHED GRADE.
3. PROVIDE A PLASTIC DEBRIS SHIELD / ALIGNMENT RING WHICH INSTALLS BELOW THE VALVE ACTUATING NUT. THIS SHIELD SHALL CENTER THE RISER PIPE BOX OVER THE ACTUATING NUT AND MINIMIZE INFILTRATION.
4. LOCATING WIRE SHALL BE CONTINUOUS WITH NO SPLICES AND SHALL EXTEND 12" ABOVE TOP OF COLLAR. WIRE SHALL BE COLOR CODED TO MATCH THE UTILITY INSTALLED.
5. FOR NEW CONSTRUCTION, THE VALVE BOX SHALL BE ADJUSTED TO MIDRANGE TO ALLOW FOR FUTURE BOX ADJUSTMENTS.
6. VALVE BOX SHALL BE SET ON SOLID COMMON BLOCKS

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



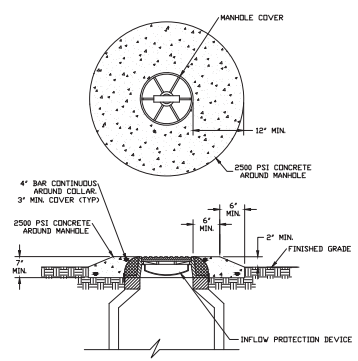
NOTES:
1. RING AND COVER SHALL BE COMPOSITE FOR DROP AND FORCEMAIN CONNECTIONS

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



NOTES:
1. DROP CONNECTIONS ARE REQUIRED WHENEVER INVERT OF INFLUENT SEWER IS 24" OR MORE ABOVE THE INVERT OF THE MANHOLE. SEE GRAVITY MANHOLE CONNECTION DETAIL UT 303.
2. ECCENTRIC CONE DESIGN MAY ONLY BE USED FOR CONFLICT RESOLUTION WITH MCU APPROVAL. ALL MANHOLES REQUIRING DROP CONNECTIONS SHALL COMPLY WITH UT 303.
3. A FLOW CHANNEL SHALL BE CONSTRUCTED INSIDE MANHOLE TO DIRECT INFLUENT INTO FLOW STREAM.
4. LIFT HOLES THROUGH STRUCTURE ARE NOT PERMITTED.
5. USE EXTERNAL WRAP TO TIGHTLY WRAP MANHOLE AROUND CASTING JOINTS AND APPLY HIGH INTENSITY PROPANE TORCH TO EFFECTIVELY SEAL THEM FROM GROUND WATER INFILTRATION. ALL EXTERNAL HEAT SHRINK WRAPS SHALL BE INSPECTED IN PERSON, OR THROUGH A MCU APPROVED METHOD, BY A MCU CONSTRUCTION REPRESENTATIVE.
6. INFLOW PREVENTION LIDS SHALL BE REQUIRED FOR ALL MANHOLES.
7. PRECAST CONCRETE RINGS MAY BE SUBSTITUTED FOR HDPE RINGS.
8. SECTION HEIGHTS VARY AS REQUIRED, AND AS AVAILABLE.
9. IN LIEU OF SHRINK WRAPPING MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH ASTM C1244 OR HYDROSTATIC TESTED IN ACCORDANCE WITH ASTM C969 AS REQUIRED BY MCU.
10. FLOW CHANNEL DEPTH AND WIDTH CANNOT BE LESS THAN 80% OF OUTFLOW PIPE.

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



NOTES:
1. CLEARANCE OF 30" FREE FROM OBSTRUCTIONS IN ALL DIRECTIONS.
2. AREAS SUPPORTING CONCRETE COLLAR OR SLAB SHALL BE PROPERLY COMPACTED.
3. TOP OF MANHOLE SHALL BE 2" ABOVE FINISHED GRADE, CROWN OF ADJACENT ROADWAY, OR 100 YEAR FLOOD ELEVATION, WHICHEVER IS GREATER.

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

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30312
APPROVAL DATE: 9/9/24
EXPIRATION DATE: 9/9/26

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NATIVE engineering,plic
P.O. BOX 2985
LAND O' LAKES, FL 34639
(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
MARION COUNTY FLORIDA

UTILITY DETAILS SHEET

JOSHUA S. BRADLEY
State of Florida,
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16-17-23

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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

A. Average Daily Flow (ADF):

Description/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 = (Cycle Period X Q_{out})/4 [GAL] = **11.3**
Wetwell Diameter (D) [FT] = **4**
Wetwell Volume (GAL/FT) = **94**
Wetwell Level Change Between Pump Stop and Lead Pump Start [FT]= **0.12**
Design For [N] = **6**

Control Elevations Table

Description	Elevation
Bottom	68.7
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)
Tee	2	1	10	10
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
Wye				0
			TOTAL =	50

Length of pipe throughout pump station [ft] = **9.80**
Total Equivalent Length [ft] = **59.8**

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				0
Gate/Plug Valve	2	2	2.5	5
Side Outlet Cross				0
Wye				0
			TOTAL =	30.27

Length of FM to connection point [ft] = **370**
Total Equivalent Length [ft] = **400.3**

B. Static Head
Pipe C/L at Highest Discharge Point = **78.50** [B1]
Low Water Level (All Pumps Off) = **70.7** [B2]
Total Static Head (B1-B2) = **7.80**

System Curve

Description	Flow Rate (GPM)							
	0	10	20	30	40	50	60
FM Piping (2" @ 400.3')	0.000	1.242	4.479	9.482	16.146	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
TDH (Low), FT	25.800	28.228	32.948	43.69*	56.358	70.842	87.091
TDH (High), FT	36.800	41.228	47.948	56.69*	67.358	79.842	94.091

hf = [10.44L x (flow^1.85)]/[(c^1.85) x (d^4.87)]

IV. FLOTATION CALCULATIONS - CONCRETE WETWELL

A. Assumptions

* Concrete (Reinforced) [lbs/ft^3]=	**150**	* (A) Wetwell Inside Diam. [FT] =	**4**
* Fiberglass [lbs/ft^3]=	**10**	* (B) Wetwell Outside Diam. [FT] =	**4.3**
* Saturated Soil [lbs/ft^3] =	**120**	* (C) Wetwell Base Slab (Dia.) [FT]	**7.3**
* Water [lbs/ft^3 =	**62.4**	* (D) Wetwell Slab Thickness [FT] =	**2**
* 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		* Watertable is 2' below grade per geotech report	

B. Barrel Weight = [B^2 - A^2] x (3.14/4)(E)(3) = **218** lbs

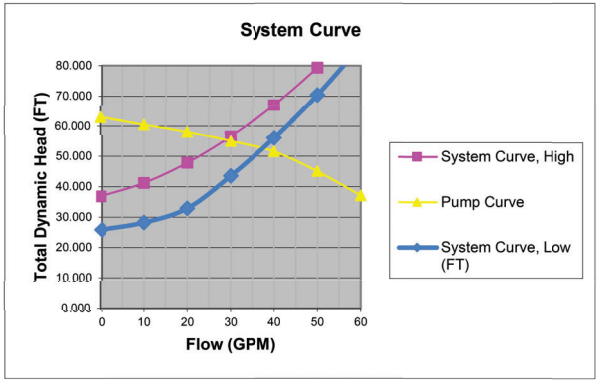
C. Bottom Slab Weight = (C^2) x 3.14/4(D)(150) = **12550** lbs

D. Soil Weight = [(C^2) - (B^2)] x 3.14/4(E)(120 - 62.4) = **17518** lbs

E. TOTAL WEIGHT = **30286** lbs

F. Weight of Water Displaced = [(B^2) x (3.14/4)(E) + (C^2) x (3.14/4)(D)] x 62.4 = **13493** lbs

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



DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30312
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LIFT STATION CALCS

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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 seals 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 with in 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 cable bracket, hinges, and appurtenances shall be made of AISI 316SS.
A 316SS slide/latch assembly shall be provided tor 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.

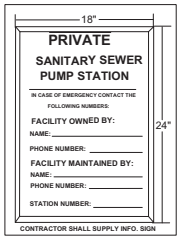
H-20 LOAD RATED WETWELL WITH LIFTING LUGS:
The fiberglass wetwell must be H-20 load rated with integral lifting lugs, fiberglass slope in bottom of wetwell and valve box.Certification of the H-20 load rating must be supplied at the time of submittals to Engineer. The wetwell shall be manufactured of 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.

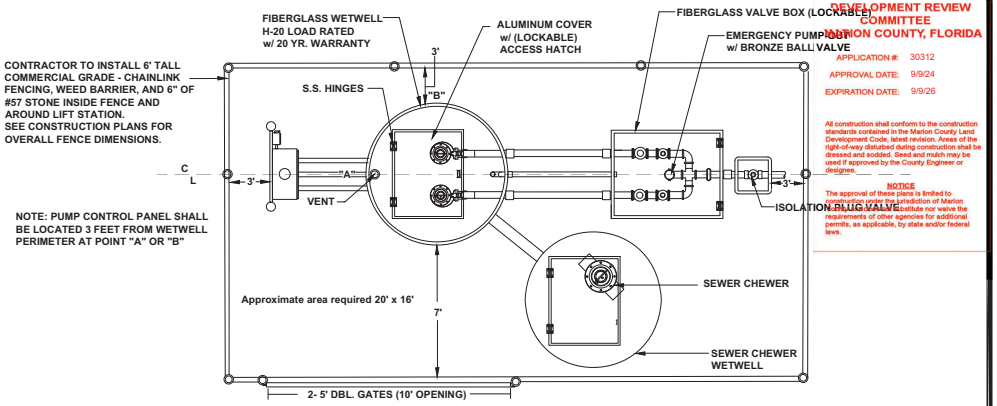
INSPECTION & TESTING: A factory representative shall be provide for a one (1) time start-up and shall have complete knowledge of the proper operation and maintenance of complete system.
Megger the motors. The pump motors shall be megged out prior to the start-up to ensure that the insulation of the pump 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"



1. Water service with hose bibb and reduced pressure backflow preventer to be installed near lift station. (See Electrical Riser Illustration Page 2)
2. Control panel shall be NEMA 4X fiberglass enclosure (30" x 30" x10" Deep)
3. All wiring shall be copper and shall meet all NEC and manufacture's requirements
4. Control panel and top hatch shall be located above the 100 yr. flood elevation.
5. Wetwell access cover, valve box, and control panel shall be pad lockable.
6. Control panel shall have audible and visual alarm system, motor overload, and phase/voltage protection.
7. Electric service cable and conduit shall be sized per NEC and local codes.
8. System shall be operated and maintained to provide uninterrupted service as required by Chapter 62-604.500.
9. 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.
10. All fastners inside wetwell shall be stainless steel.
11. 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.)

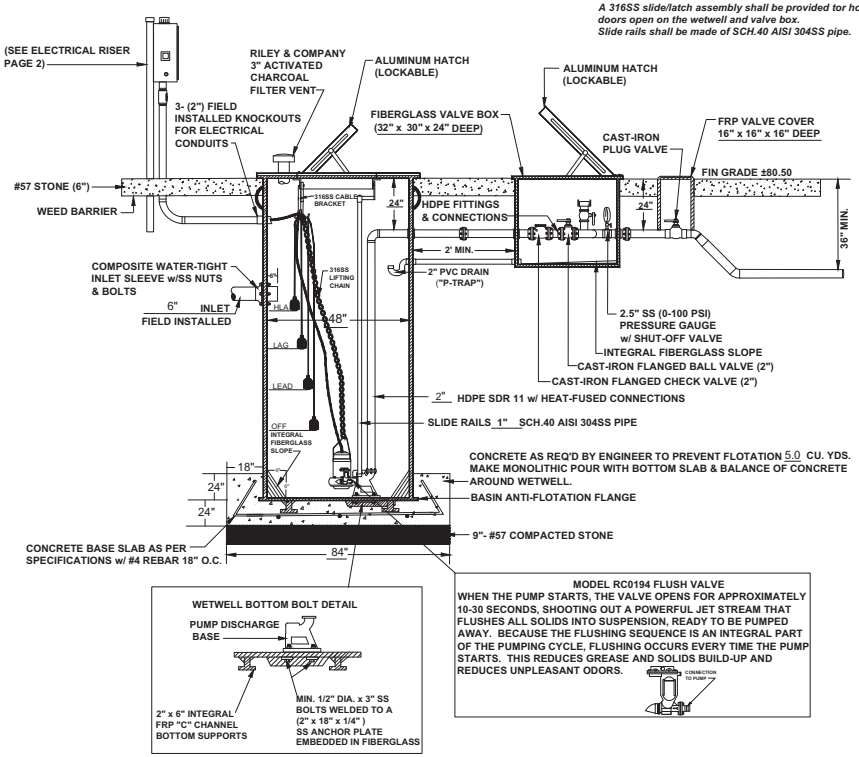


DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA
APPLICATION #: 30312
APPROVAL DATE: 9/9/24
EXPIRATION DATE: 9/9/26

All construction shall conform to the construction standards contained in the Marion County Land Development Code, latest revision. Areas of the right-of-way disturbed during construction shall be dressed and sodded. Seed and mulch may be used if approved by the County Engineer or designee.

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



MODEL RC0194 FLUSH VALVE
WHEN THE PUMP STARTS, THE VALVE OPENS FOR APPROXIMATELY 10-30 SECONDS, SHOOTING OUT A POWERFUL JET STREAM THAT FLUSHES ALL SOLIDS INTO SUSPENSION, READY TO BE PUMPED AWAY. BECAUSE THE FLUSHING SEQUENCE IS AN INTEGRAL PART OF THE PUMPING CYCLE, FLUSHING OCCURS EVERY TIME THE PUMP STARTS. THIS REDUCES GREASE AND SOLIDS BUILD-UP AND REDUCES UNPLEASANT ODORS.

06-11-2020

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.	

WAWA, INC.

TYPICAL FLORIDA PUMP STATION DETAIL (Page 2 of 2)

WAWA PREFERRED PRE-FABRICATED PUMP STATON 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 minuimum 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 DCB)
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 RCBB5AH 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-Resetable)
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. ELECTRICIAN TO MOUNT LIGHTNING ARRESTOR AT SWITCH DISCONNECT
* 5. CONTRACTOR SHALL VERIFY POWER SOURCE PRIOR TO ORDERING EQUIPMENT
* 6. NEUTRAL TO BE SUPPLIED FOR 23OV-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 with in 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 appurtenances shall be made of AISI 304SS.
A 304SS slide/latch assembly shall be provided tor 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 IEC60309-1 & IEC6039-2 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. C62.21-1984 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 UL60691 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 innerdoor.
Ground lugs shall be supplied and appropriately sized for each motor and for service entrance.

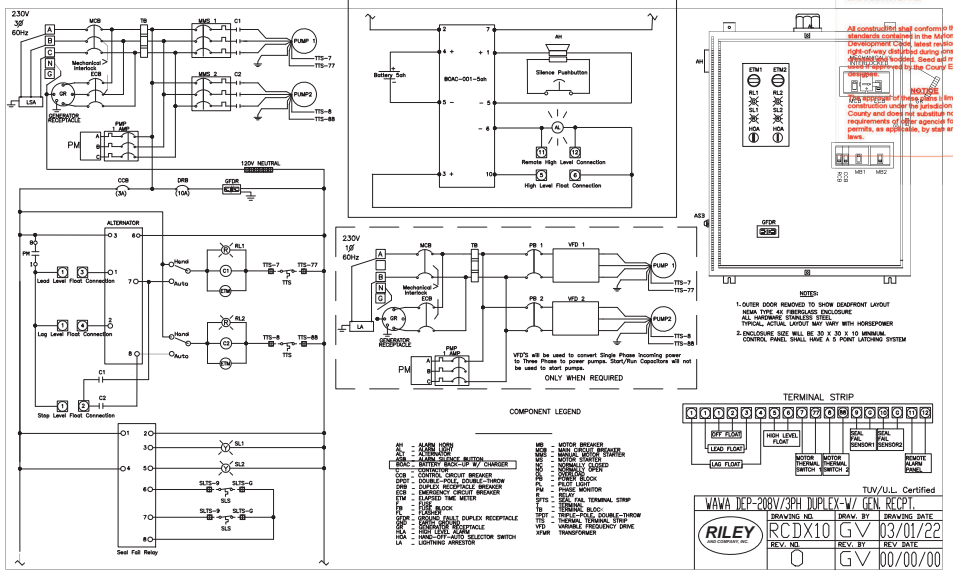
SEWER CHEWER CP REQUIREMENTS:

1. CONTROL PANEL N4X FRP WITH:
   (A) MAIN BREAKER (30A 208v/3ph)
   (B) PUMP PROTECTION
   (C) REVERSING CONTACTOR
   (D) AUTOMATIC OPERATION
   (E) ALARM

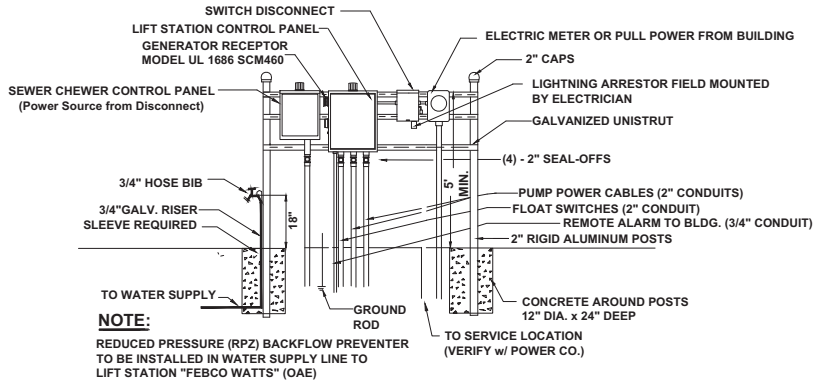
WAWA LIFT STATION REQUIREMENTS:

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

ALARM BATTERY BACKUP (BOAC)



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



NOTE:

REDUCED PRESSURE (RPZ) BACKFLOW PREVENTER TO BE INSTALLED IN WATER SUPPLY LINE TO LIFT STATION "FEBCO WATTS" (OAE)

ELECTRICAL RISER FOR ILLUSTRATION PURPOSES ONLY

09-29-14

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA
APPLICATION #: 30312
APPROVAL DATE: 9/9/24
EXPIRATION DATE: 9/9/26

All construction shall conform to the construction standards contained in the Marion County Land Development Code, latest revision. Areas of the right-of-way disturbed during construction shall be stabilized and sodded. Seed and mulch may be used if approved by the County Engineer or designee.

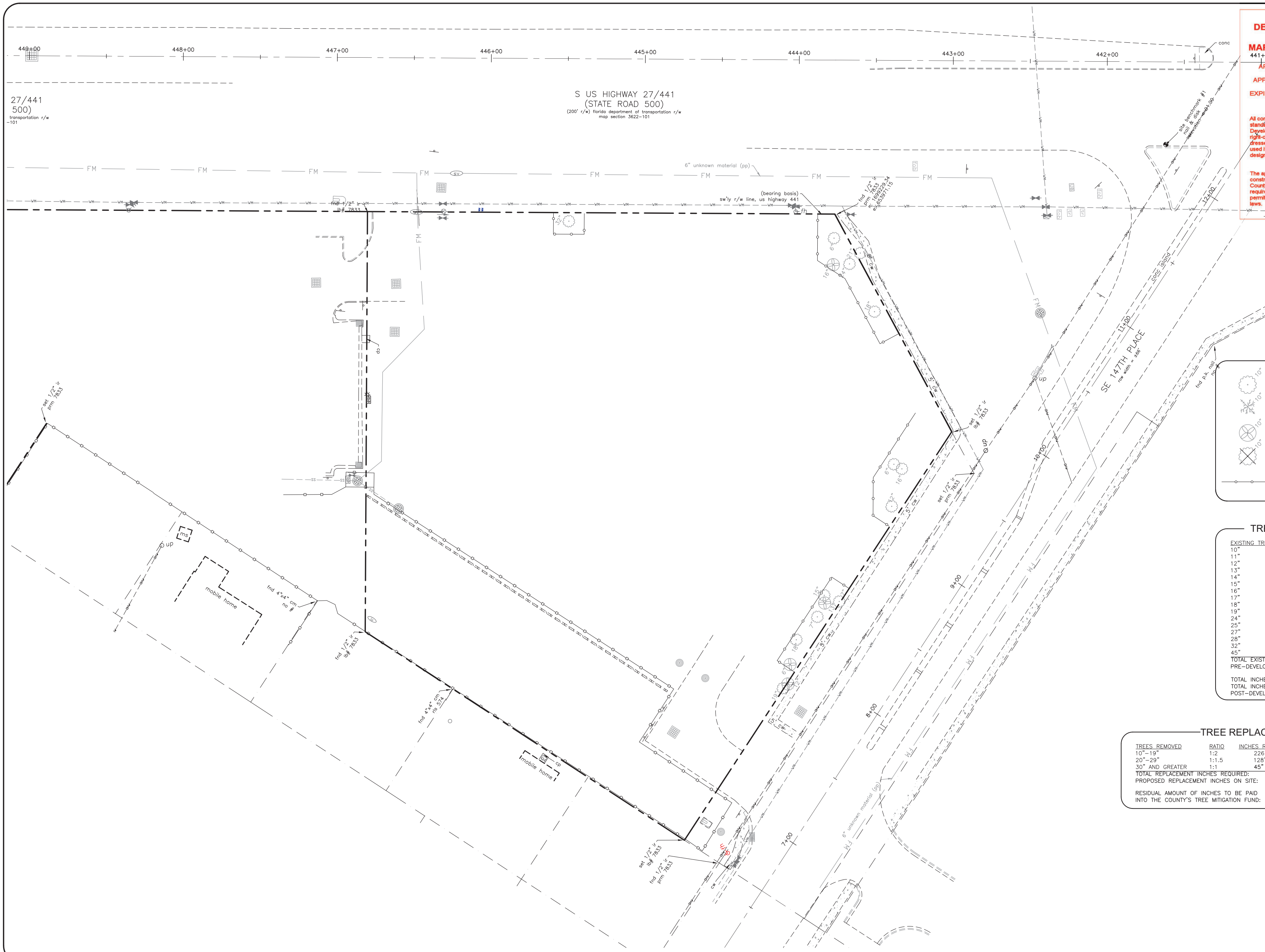
NOTICE: Approval of these plans is limited to construction under the jurisdiction of Marion County and does not substitute nor waive the requirements of other agencies for additional permits, as applicable, by state and/or federal laws.

REVISIONS | BY

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

WAWA w SEWER CHEWER
ELECTRICAL LAYOUT (PAGE 2 OF 2)

DRAWN
CHECKED
DATE
SCALE
JOB NO.



DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30312
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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
11"	1
12"	4
13"	4
14"	1
15"	4
16"	3
17"	1
18"	2
19"	3
24"	3
25"	1
27"	1
28"	1
32"	1
45"	1
TOTAL EXISTING TREES:	32
PRE-DEVELOPMET DBH RATIO:	226"/AC
TOTAL INCHES REMOVED:	399"
TOTAL INCHES PRESERVED:	183"
POST-DEVELOPMET DBH RATIO:	71"/AC

TREE REPLACEMENT

TREES REMOVED	RATIO	INCHES REMOVED	REPLACEMENT INCHES
10"-19"	1:2	226"	113" (@3.5" CAL)
20"-29"	1:1.5	128"	85.3"(@3.5" CAL)
30" AND GREATER	1:1	45"	45" (@4.0" CAL)
TOTAL REPLACEMENT INCHES REQUIRED:			243.3"
PROPOSED REPLACEMENT INCHES ON SITE:			76" (@4.0" CAL)
RESIDUAL AMOUNT OF INCHES TO BE PAID INTO THE COUNTY'S TREE MITIGATION FUND:			167.3"

ORIGINAL SET: 6/14/23
REVISIONS

NO.	DATE	DESCRIPTION
1	08/21/23	REVISED PER COUNTY & FDOT COMMENTS
2	10/04/23	REVISED PER FDOT ACCESS COMMENTS
3	12/21/23	REVISED PER COUNTY & CLIENT COMMENTS

NATIVE engineering,pllc
P.O. BOX 2995
LAND O' LAKES, FL 34639
(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

MARION COUNTY FLORIDA

TREE REMOVAL PLAN

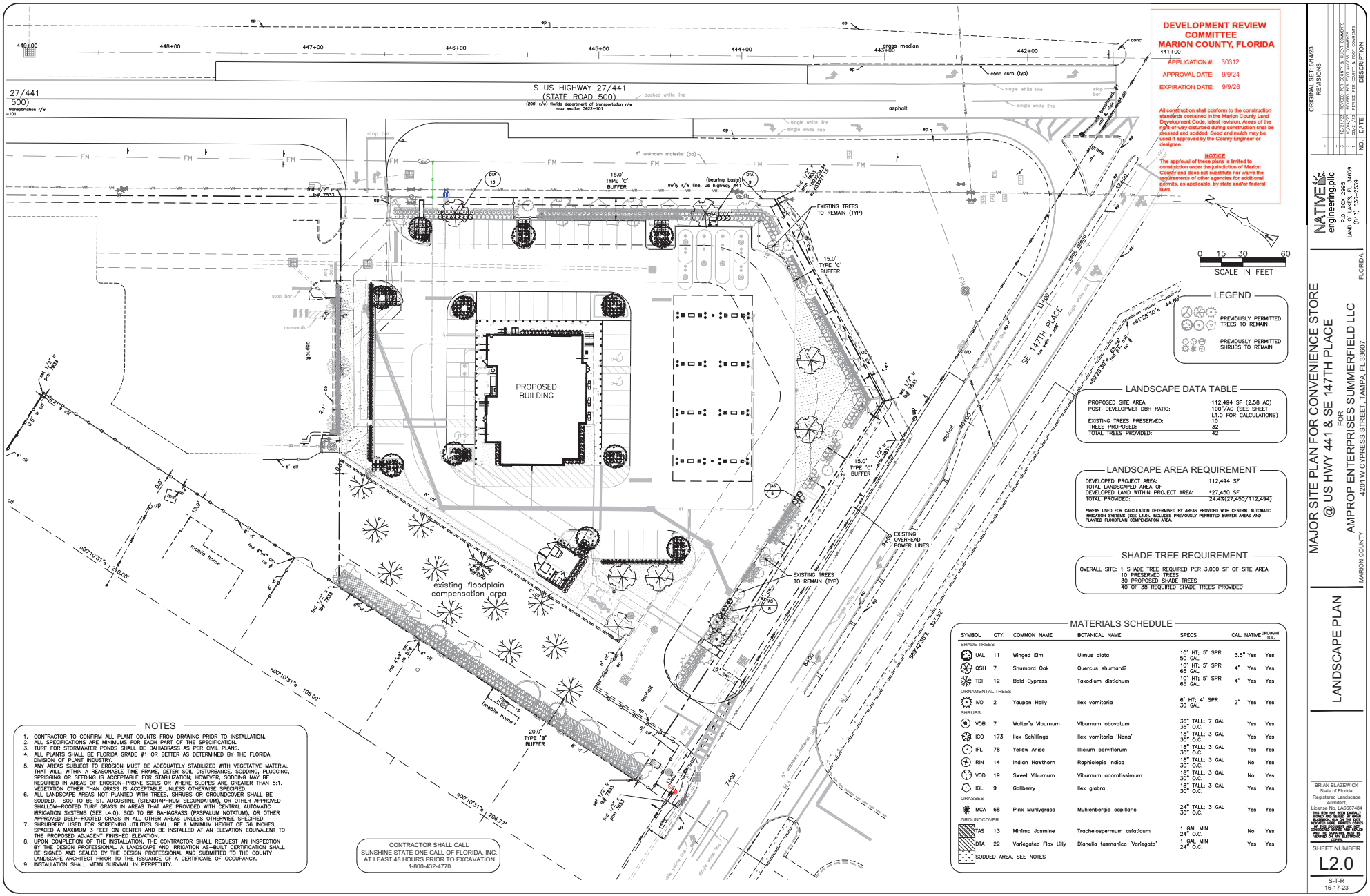
BRIAN BLAZEWICK
State of Florida,
Registered Landscape Architect,
License No. LA6667484

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY BRIAN BLAZEWICK, RLA ON THE DATE INDICATED HERE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

SHEET NUMBER
L1.0

S-T-R
16-17-23

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DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30312
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LEGEND

- PREVIOUSLY PERMITTED TREES TO REMAIN
- PREVIOUSLY PERMITTED SHRUBS TO REMAIN

LANDSCAPE DATA TABLE

PROPOSED SITE AREA:	112,494 SF (2.58 AC)
POST-DEVELOPMET DBH RATIO:	100"/AC (SEE SHEET L1.0 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:	24.4%(27,450/112,494)

*AREAS USED FOR CALCULATION DETERMINED BY AREAS PROVIDED WITH CENTRAL AUTOMATIC IRRIGATION SYSTEMS (SEE L4.0). INCLUDES PREVIOUSLY PERMITTED BUFFER AREAS AND PLANTED FLOODPLAIN 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	DROUGHT TOL.
SHADE TREES							
UAL	11	Winged Elm	Ulmus alata	10' HT; 5' SPR 50 GAL	3.5"	Yes	Yes
QSH	7	Shumard Oak	Quercus shumardii	10' HT; 5' SPR 65 GAL	4"	Yes	Yes
TDI	12	Bald Cypress	Taxodium distichum	10' HT; 5' SPR 65 GAL	4"	Yes	Yes
ORNAMENTAL TREES							
IVO	2	Yaupon Holly	Ilex vomitoria	6' HT; 4' SPR 30 GAL	2"	Yes	Yes
SHRUBS							
VOB	7	Walter's Viburnum	Viburnum obovatum	36" TALL; 7 GAL 36" O.C.		Yes	Yes
ICO	173	Ilex Schillings	Ilex vomitoria 'Nana'	18" TALL; 3 GAL 30" O.C.		Yes	Yes
IFL	78	Yellow Anise	Illicium parviflorum	18" TALL; 3 GAL 30" O.C.		Yes	Yes
RIN	14	Indian Hawthorn	Raphiolepis indica	18" TALL; 3 GAL 30" O.C.		No	Yes
VOD	19	Sweet Viburnum	Viburnum odoratissimum	18" TALL; 3 GAL 30" O.C.		No	Yes
IGL	9	Gallberry	Ilex glabra	18" TALL; 3 GAL 30" O.C.		Yes	Yes
GRASSES							
MCA	68	Pink Muhlygrass	Muhlenbergia capillaris	24" TALL; 3 GAL 30" O.C.		Yes	Yes
GROUNDCOVER							
TAS	13	Minima Jasmine	Trachelospermum asiaticum	1 GAL MIN 24" O.C.		No	Yes
DTA	22	Variegated Flax Lily	Dianella tasmanica 'Variegata'	1 GAL MIN 24" O.C.		Yes	Yes
		SODDED AREA, SEE NOTES					

NOTES

1. CONTRACTOR TO CONFIRM ALL PLANT COUNTS FROM DRAWING PRIOR TO INSTALLATION.
2. ALL SPECIFICATIONS ARE MINIMUMS FOR EACH PART OF THE SPECIFICATION.
3. TURF FOR STORMWATER PONDS SHALL BE BAHIAGRASS AS PER CIVIL PLANS.
4. ALL PLANTS SHALL BE FLORIDA GRADE #1 OR BETTER AS DETERMINED BY THE FLORIDA DIVISION OF PLANT INDUSTRY.
5. ANY AREAS SUBJECT TO EROSION MUST BE ADEQUATELY STABILIZED WITH VEGETATIVE MATERIAL THAT WILL, WITHIN A REASONABLE TIME FRAME, DETER SOIL DISTURBANCE. SODDING, PLUGGING, SPRIGGING OR SEEDING IS ACCEPTABLE FOR STABILIZATION; HOWEVER, SODDING 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.
6. ALL LANDSCAPE AREAS NOT PLANTED WITH TREES, SHRUBS OR GROUNDCOVER SHALL BE SODDED. SOD TO BE ST. AUGUSTINE (STENOTAPHRUM SECUNDATUM), OR OTHER APPROVED SHALLOW-ROOTED TURF GRASS IN AREAS THAT ARE PROVIDED WITH CENTRAL AUTOMATIC IRRIGATION SYSTEMS (SEE L4.0). SOD TO BE BAHIAGRASS (PASPALUM NOTATUM), OR OTHER APPROVED DEEP-ROOTED GRASS IN ALL OTHER AREAS UNLESS OTHERWISE SPECIFIED.
7. SHRUBBERY 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.
8. 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.
9. 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: 6/14/23

NO	DATE	DESCRIPTION
1	12/21/23	REVISED PER COUNTY & SJRWMD COMMENTS
2	10/24/24	REVISED PER POST ACCESS COMMENTS
3	08/27/25	REVISED PER COUNTY & POST COMMENTS

NATIVE engineering,plic
P.O. BOX 2991
LAND O' LAKES, FL 34639
(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
MARION COUNTY FLORIDA

LANDSCAPE PLAN

BRIAN BLAZEWICK
State of Florida,
Registered Landscape Architect,
License No. LA6667484

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY BRIAN BLAZEWICK, RLA ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA-1 AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

SHEET NUMBER
L2.0

S-T-R
16-17-23

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SPECIFICATIONS

SCOPE OF WORK
1. THE WORK CONSISTS OF: FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THESE PLANS.
2. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL CONTRACT PLANTING AREAS UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER.
3. WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS.
4. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES ON THE DRAWINGS PRIOR TO BIDDING. ALL QUANTITIES ON THE DRAWINGS ARE PROVIDED FOR CONVENIENCE ONLY.
5. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL APPLICABLE PERMITS.
6. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH ALL TRADES SO AS TO AVOID ANY CONFLICT WITH THE EXECUTION OF WORK BY OTHERS. OWNER SHALL NOT BE RESPONSIBLE FOR THE DAMAGE TO PLANT MATERIALS CAUSED BY OTHER TRADES OR SUBCONTRACTORS. THE CONDITION OF PLANT MATERIAL SHALL BE IN ACCORDANCE TO THE MUNICIPALITY CODE.

PROTECTION OF EXISTING AND SITE ELEMENTS
1. PROTECT ALL EXISTING SITE ITEMS, ALREADY COMPLETED OR ESTABLISHED AND DESIGNATED TO REMAIN FROM DAMAGE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM THE CONTRACTOR'S WORK SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE OWNER.
2. MAINTAIN ALL NECESSARY BMP DEVICES THROUGHOUT THE DURATION OF ALL CONSTRUCTION ACTIVITIES.
3. PLAN LOCATIONS OF PLANT MATERIAL ARE DIAGRAMMATIC AND INDICATE THE SPACING AND RELATIVE LOCATIONS OF ALL INSTALLATIONS. FINAL SITE CONDITIONS SHALL DETERMINE FINAL LOCATIONS AND ADJUSTED AS NECESSARY AND AS DIRECTED TO MEET EXISTING AND PROPOSED CONDITIONS. MINOR CHANGES IN LOCATIONS OF THE ABOVE FROM LOCATIONS SHOWN SHALL BE MADE AS NECESSARY TO AVOID EXISTING TREES, PIPING, UTILITIES, STRUCTURES, ETC.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, PRIOR TO CONSTRUCTION ACTIVITIES. THE INFORMATION AND DATA SHOWN WITH RESPECT TO EXISTING UTILITIES IS APPROXIMATE. THE OWNER AND DESIGN PROFESSIONAL SHALL NOT BE RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF ANY SUCH INFORMATION OR DATA. THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR; REVIEWING AND CHECKING ALL SUCH INFORMATION AND DATA; LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION; THE SAFETY AND PROTECTION THEREOF; REPAIRING ANY DAMAGE RESULTING FROM THE WORK. THE COST OF ALL WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT PRICE. THE CONTRACTOR SHALL NOTIFY ANY AFFECTED UTILITY COMPANIES OR AGENCIES IN WRITING AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING WHEN ANY CONFLICT BETWEEN UTILITIES AND THESE PLANS EXIST PRIOR TO PLANTING.
6. ALL TRIMMING UNDERTAKEN ON A TREE PROTECTED BY THE PROVISIONS OF THE LAND DEVELOPMENT CODE SHALL BE IN ACCORDANCE WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) A–300 PRUNING STANDARDS.
7. DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, IT SHALL BE UNLAWFUL TO REMOVE VEGETATION BY GRUBBING OR TO PLACE SOIL DEPOSITS, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND WITHIN THE DRIPLINE OF A TREE TO REMAIN ON THE SITE UNLESS OTHERWISE APPROVED BY THE MUNICIPALITY.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO PLANT MATERIAL EXISTING OR OTHERWISE. THIS SHALL INCLUDE COMPACTION AND SPILLING OF ANY DELETERIOUS MATERIALS WITHIN THE DRIP–LINE OF EXISTING TREES TO REMAIN. PLANT MATERIAL KILLED OR DAMAGED THAT IS MISSHAPEN AND/OR UNSIGHTLY SHALL BE REPLACED WITH LIKE SIZE AND KIND TO THE SATISFACTION OF THE OWNER OR REGULATORY AGENCY AT THE COST TO THE CONTRACTOR.
9. ALL EXOTIC SPECIES, IE, BRAZILIAN PEPPER (SCHINUS TEREBINTHIFOLIUS), PUNK TREES (MELALEUCA QUINQUENERVIA), AND CHINESE TALLOW (SAPIUM SEBIFERUM), MUST BE REMOVED AS A CONDITION OF SITE DEVELOPMENT. WHERE NECESSARY DUE TO THEIR PROXIMITY TO PROTECTED PLANT MATERIAL, HAND REMOVAL WILL BE REQUIRED. SHOULD THIS REMOVAL BE TO A DEGREE THAT A POTENTIAL FOR EROSION IS CREATED, THE AREA MUST BE RESTABILIZED WITH SUITABLE MATERIAL.
10. SEE TREE REMOVAL PLAN AND NOTES, IF APPLICABLE.

PLANT MATERIALS
1. STANDARDS AND MEASUREMENT: PROVIDE PLANTS OF QUANTITY, SIZE, GENUS, SPECIES, AND VARIETY OR CULTIVARS AS SHOWN AND SCHEDULED IN CONTRACT DOCUMENTS.
2. ALL PLANTS INCLUDING THE ROOT BALL DIMENSIONS OR CONTAINER SIZE TO TRUNK CALIPER RATIO SHALL CONFORM TO ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK" LATEST EDITION, UNLESS MODIFIED BY PROVISIONS IN THIS SPECIFICATION. WHEN THERE IS A CONFLICT BETWEEN THIS SPECIFICATION AND ANSI Z60.1, THIS SPECIFICATION SECTION SHALL BE CONSIDERED CORRECT.
3. PLANTS LARGER THAN SPECIFIED MAY BE USED IF ACCEPTABLE TO NATIVE ENGINEERING, PLLC. USE OF SUCH PLANTS SHALL NOT INCREASE THE CONTRACT PRICE. IF LARGER PLANTS ARE ACCEPTED THE ROOT BALL SIZE SHALL BE IN ACCORDANCE WITH ANSI Z–60.1. LARGER PLANTS MAY NOT BE ACCEPTABLE IF THE RESULTING ROOT BALL CANNOT BE FIT INTO THE REQUIRED PLANTING SPACE.
4. IF A RANGE OF SIZE IS GIVEN, NO PLANT SHALL BE LESS THAN THE MINIMUM SIZE AND NOT LESS THAN 50 PERCENT OF THE PLANTS SHALL BE AS LARGE AS THE MAXIMUM SIZE SPECIFIED. THE MEASUREMENTS SPECIFIED ARE THE MINIMUM AND MAXIMUM SIZE ACCEPTABLE AND ARE THE MEASUREMENTS AFTER PRUNING, WHERE PRUNING IS REQUIRED.
5. PROPER IDENTIFICATION: ALL TREES SHALL BE TRUE TO NAME AS ORDERED OR SHOWN ON PLANTING PLANS AND SHALL BE LABELED INDIVIDUALLY OR IN GROUPS BY GENUS, SPECIES, VARIETY AND CULTIVAR.
6. COMPLIANCE: ALL TREES SHALL COMPLY WITH FEDERAL AND STATE LAWS AND REGULATIONS REQUIRING OBSERVATION FOR PLANT DISEASE, PESTS, AND WEEDS. OBSERVATION CERTIFICATES REQUIRED BY LAW SHALL ACCOMPANY EACH SHIPMENT OF PLANTS.
7. PLANT QUALITY: PROVIDE HEALTHY STOCK, GROWN IN A NURSERY AND REASONABLY FREE OF DIE–BACK, DISEASE, INSECTS, EGGS, BORES, AND LARVAE. AT THE TIME OF PLANTING ALL PLANTS SHALL HAVE A ROOT SYSTEM, STEM, AND BRANCH FORM THAT WILL NOT RESTRICT NORMAL GROWTH, STABILITY AND HEALTH FOR THE EXPECTED LIFE OF THE PLANT.

PLANTING SOIL MIXTURE
1. GENERAL DEFINITION: MIXES OF EXISTING SOIL OR IMPORTED TOPSOIL, COARSE SAND, AND OR COMPOST TO MAKE A NEW SOIL THAT MEETS THE PROJECT GOALS FOR THE INDICATED PLANTING AREA. THESE MAY BE MIXED OFF SITE OR ONSITE, AND WILL VARY IN MIX COMPONENTS AND PROPORTIONS AS INDICATED.
2. A MIX OF IMPORTED TOPSOIL, COARSE SAND AND COMPOST. THE APPROXIMATE MIX RATIO SHALL BE IMPORTED TOPSOIL UNSCREENED 45–50%, COARSE SAND 40–45%, COMPOST 10%.
3. TOPSOIL FOR USE IN PREPARING SOIL MIXTURE SHALL BE FERTILE, FRIABLE SOIL CONTAINING LESS THAN 5% TOTAL VOLUME OF THE COMBINATION OF SUBSOIL, REFUSE, ROOTS LARGER THAN 1 INCH DIAMETER, HEAVY, STICKY OR STIFF CLAY, STONES LARGER THAN 2 INCHES IN DIAMETER, NOXIOUS SEEDS, STICKS, BRUSH, LITTER, OR ANY SUBSTANCES DELETERIOUS TO PLANT GROWTH. THE PERCENT (%) OF THE ABOVE OBJECTS SHALL BE CONTROLLED BY SOURCE SELECTION NOT BY SCREENING THE SOIL. IMPORTED TOPSOIL SHALL MEET THE FOLLOWING PHYSICAL AND CHEMICAL CRITERIA:
   - 3.1. USDA LOAM, SANDY CLAY LOAM OR SANDY LOAM WITH CLAY CONTENT BETWEEN 15 AND 25%. AND A COMBINED CLAY/SILT CONTENT OF NO MORE THAN 55%.
   - 3.2. PH VALUE SHALL BE BETWEEN 5.5 AND 7.0.
   - 3.3. PERCENT ORGANIC MATTER (OM): 2.0–5.0%, BY DRY WEIGHT.
   - 3.4. COMPOST: BLENDED AND GROUND LEAF, WOOD AND OTHER PLANT BASED MATERIAL, COMPOSTED FOR A MINIMUM OF 9 MONTHS AND AT TEMPERATURES SUFFICIENT TO BREAK DOWN ALL WOODY FIBERS, SEEDS AND LEAF STRUCTURES, FREE OF TOXIC MATERIAL AT LEVELS THAT ARE HARMFUL TO PLANTS OR HUMANS. SOURCE MATERIAL SHALL BE YARD WASTE TRIMMINGS BLENDED WITH OTHER PLANT OR MANURE BASED MATERIAL DESIGNED TO PRODUCE COMPOST HIGH IN FUNGAL MATERIAL.
   - 3.5. SAND SHALL BE COARSE, CLEAN, WELL–DRAINING, NATIVE SAND.
4. PLANT TREES IN THE EXISTING NATIVE SOIL ON SITE, UNLESS DETERMINED TO BE UNSUITABLE – AT WHICH POINT THE CONTRACTOR SHALL CONTACT NATIVE ENGINEERING, PLLC TO DISCUSS ALTERNATE RECOMMENDATION PRIOR TO PLANTING.
5. AT THE TIME OF FINAL GRADING, ADD FERTILIZER IF REQUIRED TO THE PLANTING SOIL AT RATES RECOMMENDED BY THE TESTING RESULTS FOR THE PLANTS TO BE GROWN.

WATER
1. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE TO ENSURE THAT ADEQUATE WATER IS PROVIDED TO ALL PLANTS FROM THE POINT OF INSTALLATION UNTIL THE DATE OF SUBSTANTIAL COMPLETION ACCEPTANCE. THE CONTRACTOR SHALL ADJUST THE AUTOMATIC IRRIGATION SYSTEM, IF AVAILABLE, AND APPLY ADDITIONAL OR ADJUST FOR LESS WATER USING HOSES AS REQUIRED.
2. WATERING/IRRIGATION RESTRICTIONS MAY APPLY – REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

FERTILIZER
1. PROVIDE FERTILIZER APPLICATION SCHEDULE TO OWNER, AS APPLICABLE TO SOIL TYPE, PLANT INSTALLATION TYPE, AND SITE'S PROPOSED USE. SUGGESTED FERTILIZER TYPES SHALL BE ORGANIC OR OTHERWISE NATURALLY–DERIVED.
2. FERTILIZER RESTRICTIONS MAY APPLY – REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

MULCH
1. MULCH SHALL BE "WALK ON" GRADE, COARSE, GROUND, FROM TREE AND WOODY BRUSH SOURCES. THE SIZE RANGE SHALL BE A MINIMUM (LESS THAN 25% OR LESS OF VOLUME) FINE PARTICLES 3/8 INCH OR LESS IN SIZE, AND A MAXIMUM SIZE OF INDIVIDUAL PIECES (LARGEST 20% OR LESS OF VOLUME) SHALL BE APPROXIMATELY 1 TO 1–1/2 INCH IN DIAMETER AND MAXIMUM LENGTH APPROXIMATELY 4 TO 8". PIECES LARGER THAN 8 INCH LONG THAT ARE VISIBLE ON THE SURFACE OF THE MULCH AFTER INSTALLATION SHALL BE REMOVED.
2. MULCH SHALL BE PINE BARK MULCH, OR SIMILAR SUSTAINABLY HARVESTED MULCH UNLESS SPECIFIED OTHERWISE.
3. PROVIDE A THREE (3) INCH MINIMUM LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH PLANTING BED AND TREE RING (SIX (6) FOOT DIAMETER MINIMUM).

CONTAINER PLANTS
1. CONTAINER PLANTS MAY BE PERMITTED ONLY WHEN INDICATED ON THE DRAWING, IN THIS SPECIFICATION, OR APPROVED BY NATIVE ENGINEERING, PLLC.
2. PROVIDE PLANTS SHALL BE ESTABLISHED AND WELL ROOTED IN REMOVABLE CONTAINERS.
3. CONTAINER CLASS SIZE SHALL CONFORM TO ANSI Z60.1 FOR CONTAINER PLANTS FOR EACH SIZE AND TYPE OF PLANT.

FINE GRADING
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINE GRADING WHICH CONSISTS OF FINAL FINISHED GRADING (INCLUDING ADDITIONAL SOIL MIXTURE AS NEEDED) FOR LAWN AND PLANTING AREAS THAT HAVE BEEN ROUGH GRADED BY OTHERS. FINISH GRADE SHALL ACCOUNT FOR THICKNESS OF SOD AND/OR MULCH DEPTH.
2. PROVIDE FOR POSITIVE DRAINAGE FROM ALL AREAS TOWARD THE EXISTING INLETS, DRAINAGE STRUCTURES AND OR THE EDGES OF PLANTING BEDS. ADJUST GRADES AS DIRECTED TO REFLECT ACTUAL CONSTRUCTED FIELD CONDITIONS OF PAVING, WALL AND INLET ELEVATIONS. NOTIFY NATIVE ENGINEERING, PLLC IN THE EVENT THAT CONDITIONS MAKE IT IMPOSSIBLE TO ACHIEVE POSITIVE DRAINAGE.

INSTALLATION OF PLANTS - GENERAL
1. OBSERVE EACH PLANT AFTER DELIVERY AND PRIOR TO INSTALLATION FOR DAMAGE OF OTHER CHARACTERISTICS THAT MAY CAUSE REJECTION OF THE PLANT. NOTIFY NATIVE ENGINEERING, PLLC OF ANY CONDITION OBSERVED.
2. NO MORE PLANTS SHALL BE DISTRIBUTED ABOUT THE PLANTING BED AREA THAN CAN BE PLANTED AND WATERED ON THE SAME DAY.
3. THE ROOT SYSTEM OF EACH PLANT, REGARDLESS OF ROOT BALL PACKAGE TYPE, SHALL BE OBSERVED BY THE CONTRACTOR, AT THE TIME OF PLANTING TO CONFIRM THAT THE ROOTS MEET THE REQUIREMENTS FOR PLANT ROOT QUALITY IN PLANT MATERIALS: PLANT QUALITY. THE CONTRACTOR SHALL UNDERTAKE AT THE TIME OF PLANTING, ALL MODIFICATIONS TO THE ROOT SYSTEM REQUIRED BY NATIVE ENGINEERING, PLLC TO MEET THESE QUALITY STANDARDS.
4. MODIFICATIONS, AT THE TIME OF PLANTING, TO MEET THE SPECIFICATIONS FOR THE DEPTH OF THE ROOT COLLAR AND REMOVAL OF STEM GIRDLING ROOTS AND CIRCLING ROOTS MAY MAKE THE PLANT UNSTABLE OR STRESS THE PLANT TO THE POINT THAT NATIVE ENGINEERING, PLLC MAY CHOOSE TO REJECT THE PLANT RATHER THAN PERMITTING THE MODIFICATION.
5. ANY MODIFICATIONS REQUIRED BY NATIVE ENGINEERING, PLLC TO MAKE THE ROOT SYSTEM CONFORM TO THE PLANT QUALITY STANDARDS OUTLINED IN PLANT MATERIALS: PLANT QUALITY, OR OTHER REQUIREMENTS RELATED TO THE PERMITTED ROOT BALL PACKAGE, SHALL NOT BE CONSIDERED AS GROUNDS TO MODIFY OR VOID THE PLANT WARRANTY.
6. THE RESULTING ROOT BALL MAY NEED ADDITIONAL STAKING AND WATER AFTER PLANTING. NATIVE ENGINEERING, PLLC MAY REJECT THE PLANT IF THE ROOT MODIFICATION PROCESS MAKES THE TREE UNSTABLE OR IF THE TREE IS NOT HEALTHY AT THE END OF THE WARRANTY PERIOD. SUCH PLANTS SHALL STILL BE COVERED UNDER THE WARRANTY
7. THE CONTRACTOR REMAINS RESPONSIBLE TO CONFIRM THAT THE GROWER HAS MADE ALL REQUIRED ROOT MODIFICATIONS NOTED DURING ANY NURSERY OBSERVATIONS.
8. CONTAINER AND BOXED ROOT BALL SHAVING: THE OUTER SURFACES OF ALL PLANTS IN CONTAINERS AND BOXES, INCLUDING THE TOP, SIDES AND BOTTOM OF THE ROOT BALL SHALL BE SHAVED TO REMOVE ALL CIRCLING, DESCENDING, AND MATTED ROOTS. SHAVING SHALL BE PERFORMED USING SAWS, KNIVES, SHARP SHOVELS OR OTHER SUITABLE EQUIPMENT THAT IS CAPABLE OF MAKING CLEAN CUTS ON THE ROOTS. SHAVING SHALL REMOVE A MINIMUM OF ONE INCH OF ROOT MAT OR UP TO 2 INCHES AS REQUIRED TO REMOVE ALL ROOT SEGMENTS THAT ARE NOT GROWING REASONABLY RADIAL TO THE TRUNK.
9. EXPOSED STEM TISSUE AFTER MODIFICATION: THE REQUIRED ROOT BALL MODIFICATIONS MAY RESULT IN STEM TISSUE THAT HAS NOT FORMED TRUNK BARK BEING EXPOSED ABOVE THE SOIL LINE. IF SUCH CONDITION OCCURS, WRAP THE EXPOSED PORTION OF THE STEM IN A PROTECTIVE WRAPPING WITH A WHITE FILTER FABRIC. SECURE THE FABRIC WITH BIODEGRADABLE MASKING TAPE. DO NOT USE STRING, TWINE, GREEN NURSERY TIES OR ANY OTHER MATERIAL THAT MAY GIRDLE THE TRUNK IF NOT REMOVED.
10. EXCAVATION OF THE PLANTING SPACE: USING HAND TOOLS OR TRACKED MINI–EXCAVATOR, EXCAVATE THE PLANTING HOLE INTO THE PLANTING SOIL TO THE DEPTH OF THE ROOT BALL MEASURED AFTER ANY ROOT BALL MODIFICATION TO CORRECT ROOT PROBLEMS, AND WIDE ENOUGH FOR WORKING ROOM AROUND THE ROOT BALL OR TO THE SIZE INDICATED ON THE DRAWING OR AS NOTED BELOW.
11. FOR TREES AND SHRUBS PLANTED IN SOIL AREAS THAT ARE NOT TILLED OR OTHERWISE MODIFIED TO A DEPTH OF AT LEAST 12 INCHES OVER A DISTANCE OF MORE THAN 10 FEET RADIUS FROM EACH TREE, OR 5 FEET RADIUS FROM EACH SHRUB, THE SOIL AROUND THE ROOT BALL SHALL BE LOOSENED AS DEFINED BELOW OR AS INDICATED ON THE DRAWINGS.
12. THE AREA OF LOOSENING SHALL BE A MINIMUM OF 3 TIMES THE DIAMETER OF THE ROOT BALL AT THE SURFACE SLOPING TO 2 TIMES THE DIAMETER OF THE ROOT BALL AT THE DEPTH OF THE ROOT BALL.
13. LOOSENING IS DEFINED AS DIGGING INTO THE SOIL AND TURNING THE SOIL TO REDUCE THE COMPACTION. THE SOIL DOES NOT HAVE TO BE REMOVED FROM THE HOLE, JUST DUG, LIFTED AND TURNED. LIFTING AND TURNING MAY BE ACCOMPLISHED WITH A TRACKED MINI EXCAVATOR, OR HAND SHOVELS.
14. IF AN AUGER IS USED TO DIG THE INITIAL PLANTING HOLE, THE SOIL AROUND THE AUGER HOLE SHALL BE LOOSENED AS DEFINED ABOVE FOR TREES AND SHRUBS PLANTED IN SOIL AREAS THAT ARE NOT TILLED OR OTHERWISE MODIFIED.
15. THE MEASURING POINT FOR ROOT BALL DEPTH SHALL BE THE AVERAGE HEIGHT OF THE OUTER EDGE OF THE ROOT BALL AFTER ANY REQUIRED ROOT BALL MODIFICATION.
16. IF MOTORIZED EQUIPMENT IS USED TO DELIVER PLANTS TO THE PLANTING AREA OVER EXPOSED PLANTING BEDS, OR USED TO LOOSEN THE SOIL OR DIG THE PLANTING HOLES, ALL SOIL THAT HAS BEEN DRIVEN OVER SHALL BE TILLED TO A DEPTH OF 6 INCHES.

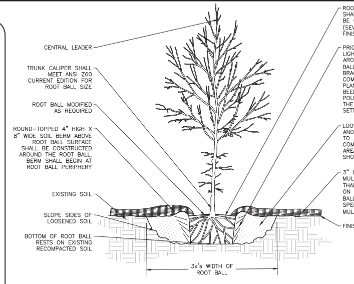
SODDING
1. THE WORK CONSISTS OF LAWN BED PREPARATION, SOIL PREPARATION, AND SODDING NECESSARY TO PRODUCE A TURF GRASS LAWN ACCEPTABLE TO THE OWNER.
2. ALL AREAS THAT ARE TO BE SODDED SHALL BE CLEARED OF ANY ROUGH GRASS, WEEDS, AND DEBRIS TO A MINIMUM DEPTH OF THREE (3) INCHES. PROVIDE ONE (1) INCH OF TOPSOIL ACROSS ENTIRE LAWN BED AND MIX THROUGHLY INTO TOP FOUR (4) INCHES OF SOIL TO BRING THE GROUND TO AN EVEN GRADE. THE ENTIRE SURFACE SHALL BE ROLLED WITH A ROLLER WEIGHING NOT MORE THAN ONE–HUNDRED (100) POUNDS PER FOOT OF WIDTH. DURING THE ROLLING, ALL DEPRESSIONS CAUSED BY SETTLEMENT SHALL BE FILLED WITH ADDITIONAL TOPSOIL AND THE SURFACE SHALL BE REGRADED AND ROLLED UNTIL PRESENTING A SMOOTH AND EVEN FINISH TO THE REQUIRED GRADE.
3. HAND RAKE LAWN BED UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED. WET PREPARED AREA THOROUGHLY.
4. SOD ALL AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS WITHIN THE CONTRACT LIMITS, UNLESS SPECIFICALLY NOTED OTHERWISE.
5. THE SOD SHALL BE CERTIFIED TO MEET FLORIDA STATE PLANT BOARD SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETAL TYPE, AND FREE FROM WEEDS, FUNGUS, INSECTS AND DISEASE OF ANY KIND.
6. SOD PANELS SHALL BE LAID TIGHTLY TOGETHER SO AS TO MAKE A SOLID SODDED LAWN AREA. SOD SHALL BE LAID UNIFORMLY AGAINST THE EDGES OF ALL CURBS AND OTHER HARDSCAPE ELEMENTS, PAVED AND PLANTED AREAS.
7. IMMEDIATELY FOLLOWING SOD LAYING, ROLL LAWN AREAS WITH A LAWN ROLLER AND THEN THOROUGHLY IRRIGATED.
8. IF, IN THE OPINION OF THE OWNER, TOP–DRESSING IS NECESSARY AFTER ROLLING TO FILL THE VOIDS BETWEEN THE SOD PANELS AND TO EVEN OUT INCONSISTENCIES IN THE SOD, CLEAN SAND, AS APPROVED BY NATIVE ENGINEERING, PLLC, SHALL BE UNIFORMLY SPREAD OVER THE ENTIRE SURFACE OF THE SOD AND THOROUGHLY WATERED IN. FERTILIZE INSTALLED SOD AS ALLOWED BY PROPERTY'S JURISDICTIONAL AUTHORITY.
9. DURING DELIVERY, PRIOR TO, AND DURING THE PLANTING OF THE LAWN AREAS, THE SOD PANELS SHALL AT ALL TIMES BE PROTECTED FROM EXCESSIVE DRYING AND UNNECESSARY EXPOSURE OF THE ROOTS TO THE SUN. ALL SOD SHALL BE STACKED SO AS NOT TO BE DAMAGED BY EXCESSIVE HEAT AND MOISTURE.
10. WITHIN THE CONTRACT LIMITS, PRODUCE AND MAINTAIN A DENSE, WELL ESTABLISHED LAWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RE–SODDING OF ALL ERODED, SUNKEN OR BARE SPOTS UNTIL CERTIFICATION OF ACCEPTANCE BY NATIVE ENGINEERING, PLLC. REPAIRED SODDING SHALL BE ACCOMPLISHED AS IN THE ORIGINAL WORK (INCLUDING REGRADING IF NECESSARY).

SUBSTITUTION
1. SUBMIT ALL REQUESTS FOR SUBSTITUTIONS OF PLANT SPECIES, OR SIZE TO NATIVE ENGINEERING, PLLC, FOR APPROVAL, PRIOR TO PURCHASING THE PROPOSED SUBSTITUTION. REQUEST FOR SUBSTITUTION SHALL BE ACCOMPANIED WITH A LIST OF NURSERIES CONTACTED IN THE SEARCH FOR THE REQUIRED PLANT AND A RECORD OF OTHER ATTEMPTS TO LOCATE THE REQUIRED MATERIAL. REQUESTS SHALL ALSO INCLUDE SOURCES OF PLANTS FOUND THAT MAY BE OF A SMALLER OR LARGER SIZE, OR A DIFFERENT SHAPE OR HABIT THAN SPECIFIED, OR PLANTS OF THE SAME GENUS AND SPECIES BUT DIFFERENT CULTIVAR ORIGIN, OR WHICH MAY OTHERWISE NOT MEET THE REQUIREMENTS OF THE SPECIFICATIONS, BUT WHICH MAY BE AVAILABLE FOR SUBSTITUTION.

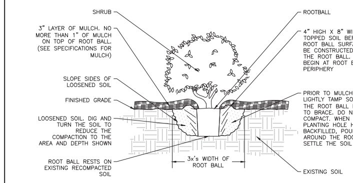
CLEANUP
1. DURING INSTALLATION, KEEP THE SITE FREE OF TRASH, PAVEMENTS REASONABLY CLEAN AND WORK AREA IN AN ORDERLY CONDITION AT THE END OF EACH DAY. REMOVE TRASH AND DEBRIS IN CONTAINERS FROM THE SITE NO LESS THAN ONCE A WEEK. IMMEDIATELY CLEAN UP ANY SPILLED OR TRACKED SOIL, FUEL, OIL, TRASH OR DEBRIS DEPOSITED BY THE CONTRACTOR FROM ALL SURFACES WITHIN THE PROJECT OR ON PUBLIC RIGHT OF WAYS AND NEIGHBORING PROPERTY.
2. ONCE INSTALLATION IS COMPLETE, WASH ALL SOIL FROM PAVEMENTS AND OTHER STRUCTURES. ENSURE THAT MULCH IS CONFINED TO PLANTING BEDS AND THAT ALL TAGS AND FLAGGING TAPE ARE REMOVED FROM THE SITE. NATIVE ENGINEERING, PLLC'S SEALS ARE TO REMAIN ON THE TREES AND REMOVED AT THE END OF THE WARRANTY PERIOD.
3. MAKE ALL REPAIRS TO GRADES, RUTS, AND DAMAGE BY THE PLANT INSTALLER TO THE WORK OR OTHER WORK AT THE SITE.
4. REMOVE AND DISPOSE OF ALL EXCESS PLANTING SOIL, SUBSOIL, MULCH, PLANTS, PACKAGING, AND OTHER MATERIAL BROUGHT TO THE SITE BY THE CONTRACTOR.

FINAL INSPECTION AND ACCEPTANCE OF WORK
1. UPON WRITTEN NOTICE FROM THE CONTRACTOR, NATIVE ENGINEERING, PLLC SHALL REVIEW THE WORK AND MAKE A DETERMINATION IF THE WORK IS SUBSTANTIALLY COMPLETE. NOTIFICATION SHALL BE AT LEAST 7 DAYS PRIOR TO THE DATE THE CONTRACTOR IS REQUESTING THE REVIEW. ALL PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT SHALL BE INSPECTED FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. ANY ITEMS FOUND TO NOT BE IN COMPLIANCE SHALL BE CORRECTED AT THE COST OF THE CONTRACTOR.
2. MAINTENANCE DURING THE PERIOD PRIOR TO SUBSTANTIAL COMPLETION ACCEPTANCE SHALL CONSIST OF PRUNING, WATERING, CULTIVATING, WEEDING, MULCHING, REMOVAL OF DEAD MATERIAL, REPAIRING AND REPLACING OF TREE STAKES, TIGHTENING AND REPAIRING OF GUYS, REPAIRING AND REPLACING OF DAMAGED TREE WRAP MATERIAL, RESETTING PLANTS TO PROPER GRADES AND UPRIGHT POSITION, AND FURNISHING AND APPLYING SUCH SPRAYS AS ARE NECESSARY TO KEEP PLANTINGS REASONABLY FREE OF DAMAGING INSECTS AND DISEASE, AND IN HEALTHY CONDITION. THE THRESHOLD FOR APPLYING INSECTICIDES AND HERBICIDE SHALL FOLLOW ESTABLISHED INTEGRATED PEST MANAGEMENT (IPM) PROCEDURES. MULCH AREAS SHALL BE KEPT REASONABLY FREE OF WEEDS, GRASS.
3. PROVIDE WATERING/IRRIGATION SCHEDULE FOR ALL PLANT MATERIAL TO OWNER. OBSERVE ALL APPLICABLE WATERING RESTRICTIONS AS SET FORTH BY THE PROPERTY'S JURISDICTIONAL AUTHORITY.

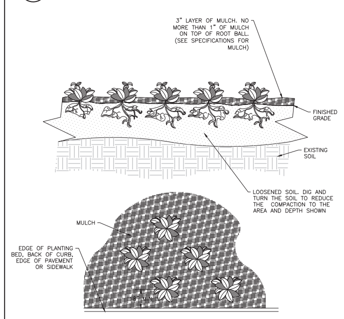
WARRANTY
1. THE LIFE AND SATISFACTORY CONDITION OF ALL PLANT MATERIAL INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION AND ACCEPTANCE OF THE WORK BY THE OWNER AND/OR NATIVE ENGINEERING, PLLC.
2. ANY PLANT NOT FOUND IN A HEALTHY GROWING CONDITION THROUGHOUT THE WARRANTY PERIOD SHALL BE REMOVED FROM THE SITE AND REPLACED AS SOON AS WEATHER CONDITIONS PERMIT. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED, PLANTED AND MULCHED AS SPECIFIED AT NO ADDITIONAL COST TO THE OWNER. ANY REPLACED PLANT MATERIAL SHALL BE SUBJECT TO A NEW ONE YEAR WARRANTY.
3. IN THE EVENT THE OWNER DOES NOT CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE AND IRRIGATION MAINTENANCE, THE CONTRACTOR SHOULD VISIT THE PROJECT SITE PERIODICALLY DURING THE ONE (1) YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERFORMED BY THE OWNER. CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING OF MAINTENANCE PROCEDURES OR CONDITIONS WHICH THREATEN VIGOROUS AND HEALTHY PLANT GROWTH.



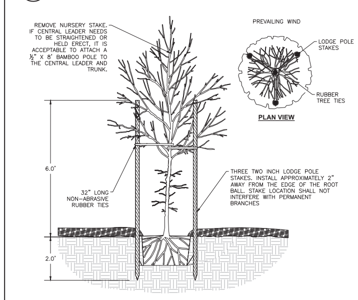
1 TYPICAL TREE PLANTING
N.T.S.



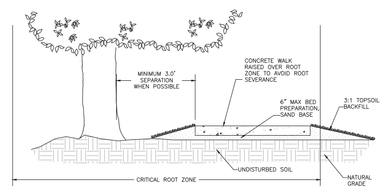
2 TYPICAL SHRUB PLANTING
N.T.S.



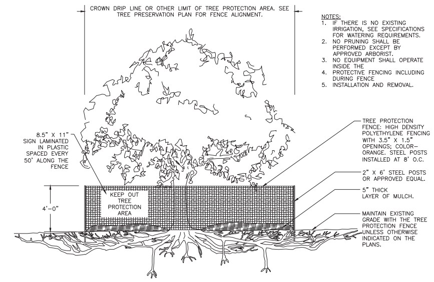
3 TYPICAL SHRUB/GROUNDCOVER BED PLANTING
N.T.S.



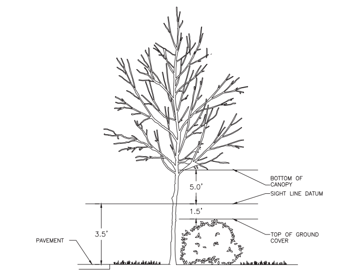
4 TREE STAKING - LODGE POLES (3)
N.T.S.



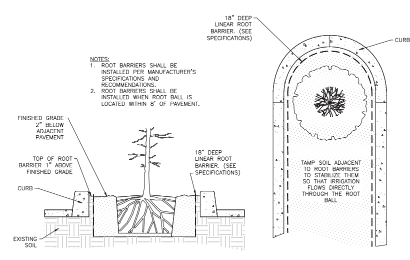
5 CONCRETE WALK OVER CRITICAL ROOT ZONE DETAIL
N.T.S.



6 TREE PROTECTION DETAIL
N.T.S.



7 CLEAR SIGHT TRIANGLE
N.T.S.



8 ROOT BARRIER - PARKING LOT ISLAND
N.T.S.

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

APPLICATION #: 30312
APPROVAL DATE: 9/9/24
EXPIRATION DATE: 9/9/26

All construction shall conform to the construction standards contained in the Marion County Land Development Code, latest revision. Areas of the right-of-way disturbed during construction shall be dressed and sodded. Seed and mulch may be used if approved by the County Engineer or designee.

NOTICE
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TREE PROTECTION

PREPARATION
1. MARK ALL TREES AND SHRUBS TO BE REMOVED WITH ORANGE PAINT IN A BAND COMPLETELY AROUND THE BASE OF THE TREE OR SHRUB 4.5 FEET ABOVE THE GROUND.
2. FLAG ALL TREES AND SHRUBS TO REMAIN WITH WHITE PLASTIC RIBBON TIED COMPLETELY AROUND THE TRUNK OR EACH TREE AND ON A PROMINENT BRANCH FOR EACH SHRUB.
3. PRIOR TO ANY CONSTRUCTION ACTIVITY AT THE SITE INCLUDING UTILITY WORK, GRADING, STORAGE OF MATERIALS, OR INSTALLATION OF TEMPORARY CONSTRUCTION FACILITIES, INSTALL ALL TREE PROTECTION FENCING, FILTER FABRIC, SILT FENCE, TREE PROTECTION SIGNS, GEOGRID, MULCH AND OR WOOD CHIPS AS SHOWN ON THE DRAWINGS.

ROOT PRUNING
1. PRIOR TO ANY EXCAVATING INTO THE EXISTING SOIL GRADE WITHIN 25 FEET OF THE LIMIT OF THE TREE AND PLANT PROTECTION AREA OR TREES TO REMAIN, ROOT PRUNE ALL EXISTING TREES TO A DEPTH OF 24 INCHES BELOW EXISTING GRADE IN ALIGNMENTS FOLLOWING THE EDGES OF THE TREE AND PLANT PROTECTION AREA OR AS DIRECTED BY NATIVE ENGINEERING, PLLC. ROOT PRUNING SHALL BE IN CONFORMANCE WITH ANSI A300 (PART 8) LATEST EDITION.
2. USING A ROCK SAW, CHAIN TRENCHER OR SIMILAR TRENCHING DEVICE, MAKE A VERTICAL CUT WITHIN 2 FEET OF THE LIMIT OF GRADING.
3. AFTER COMPLETION OF THE CUT, MAKE CLEAN CUTS WITH A LOPPER, SAW OR PRUNER TO REMOVE ALL TORN ROOT ENDS ON THE TREE SIDE OF THE EXCAVATION, AND BACKFILL THE TRENCH IMMEDIATELY WITH EXISTING SOIL, FILLING ALL VOIDS.

PROTECTION
1. PROTECT THE TREE AND PLANT PROTECTION AREA AT ALL TIMES FROM COMPACTION OF THE SOIL; DAMAGE OF ANY KIND TO TRUNKS, BARK, BRANCHES, LEAVES AND ROOTS OF ALL PLANTS; AND CONTAMINATION OF THE SOIL, BARK OR LEAVES WITH CONSTRUCTION MATERIALS, DEBRIS, SILT, FUELS, OILS, AND ANY CHEMICALS SUBSTANCE. NOTIFY NATIVE ENGINEERING, PLLC OF ANY SPILLS, COMPACTION OR DAMAGE AND TAKE CORRECTIVE ACTION IMMEDIATELY USING METHODS APPROVED BY NATIVE ENGINEERING, PLLC.

GENERAL REQUIREMENTS AND LIMITATIONS FOR OPERATIONS WITHIN THE TREE AND PLANT PROTECTION AREA
1. THE CONTRACTOR SHALL NOT ENGAGE IN ANY CONSTRUCTION ACTIVITY WITHIN THE TREE AND PLANT PROTECTION AREA WITHOUT THE APPROVAL OF THE OWNER'S REPRESENTATIVE INCLUDING: OPERATING, MOVING OR STORING EQUIPMENT; STORING SUPPLIES OR MATERIALS; LOCATING TEMPORARY FACILITIES INCLUDING TRAILERS OR PORTABLE TOILETS AND SHALL NOT PERMIT EMPLOYEES TO TRAVERSE THE AREA TO ACCESS ADJACENT AREAS OF THE PROJECT OR USE THE AREA FOR LUNCH OR ANY OTHER WORK BREAKS. PERMITTED ACTIVITY, IF ANY, WITHIN THE TREE AND PLANT PROTECTION AREA MAYBE INDICATED ON THE DRAWINGS ALONG WITH ANY REQUIRED REMEDIAL ACTIVITY AS LISTED BELOW.
2. IN THE EVENT THAT CONSTRUCTION ACTIVITY IS UNAVOIDABLE WITHIN THE TREE AND PLANT PROTECTION AREA, NOTIFY NATIVE ENGINEERING, PLLC AND SUBMIT A DETAILED WRITTEN PLAN OF ACTION FOR APPROVAL. THE PLAN SHALL INCLUDE: A STATEMENT DETAILING THE REASON FOR THE ACTIVITY INCLUDING WHY OTHER AREAS ARE NOT SUITED; A DESCRIPTION OF THE PROPOSED ACTIVITY; THE TIME PERIOD FOR THE ACTIVITY, AND A LIST OF REMEDIAL ACTIONS THAT WILL REDUCE THE IMPACT ON THE TREE AND PLANT PROTECTION AREA FROM THE ACTIVITY. REMEDIAL ACTIONS SHALL INCLUDE BUT SHALL NOT BE LIMITED TO THE FOLLOWING:
3. IN GENERAL, DEMOLITION AND EXCAVATION WITHIN THE DRIP LINE OF TREES AND SHRUBS SHALL PROCEED WITH EXTREME CARE EITHER BY THE USE OF HAND TOOLS, DIRECTIONAL BORING AND OR AIR KNIFE EXCAVATION WHERE INDICATED OR WITH OTHER LOW IMPACT EQUIPMENT THAT WILL NOT CAUSE DAMAGE TO THE TREE, ROOTS OR SOIL.
4. WHEN ENCOUNTERED, EXPOSED ROOTS, 1 INCHES AND LARGER IN DIAMETER SHALL BE WORKED AROUND IN A MANNER THAT DOES NOT BREAK THE OUTER LAYER OF THE ROOT SURFACE (BARK). THESE ROOTS SHALL BE COVERED IN WOOD CHIPS AND SHALL BE MAINTAINED ABOVE PERMANENT WILT POINT AT ALL TIMES. ROOTS ONE INCH AND LARGER IN DIAMETER SHALL NOT BE CUT WITH OUT THE APPROVAL OF THE OWNERS REPRESENTATIVE. EXCAVATION SHALL BE TUNNELED UNDER THESE ROOTS WITHOUT CUTTING THEM. IN THE AREAS WHERE ROOTS ARE ENCOUNTERED, WORK SHALL BE PERFORMED AND SCHEDULED TO CLOSE EXCAVATIONS AS QUICKLY AS POSSIBLE OVER EXPOSED ROOTS.
5. TREE BRANCHES THAT INTERFERE WITH THE CONSTRUCTION MAY BE TIED BACK OR PRUNED TO CLEAR ONLY TO THE POINT NECESSARY TO COMPLETE THE WORK. OTHER BRANCHES SHALL ONLY BE REMOVED WHEN SPECIFICALLY INDICATED BY NATIVE ENGINEERING, PLLC. TYING BACK OR TRIMMING OF ALL BRANCHES AND THE CUTTING OF ROOTS SHALL BE IN ACCORDANCE WITH ACCEPTED ARBORICULTURAL PRACTICES (ANSI A300, PART 8) AND BE PERFORMED UNDER SUPERVISION OF THE ARBORIST.
6. REMOVE ALL EXCAVATED SOIL AND EXCAVATED WOOD CHIPS, AND CONTAMINATED SOIL AT THE END OF THE EXCAVATION.
7. SCHEDULE THE WORK SO THAT FOUNDATIONS OR UTILITY WORK IS COMPLETED IMMEDIATELY AFTER THE EXCAVATION. DO NOT LET THE ROOTS DRY OUT. MIST THE ROOTS SEVERAL TIMES DURING THE DAY. IF THE EXCAVATED AREA MUST REMAIN OPEN OVER NIGHT, MIST THE ROOTS AND COVER THE EXCAVATION WITH BLACK PLASTIC.
8. RESTORE SOIL WITHIN THE TRENCH AS SOON AS THE WORK IS COMPLETED. UTILIZE SOIL OF SIMILAR TEXTURE TO THE REMOVED SOIL AND LIGHTLY COMPACT WITH HAND TOOLS. LEAVE SOIL MOUNDED OVER THE TRENCH TO A HEIGHT OF APPROXIMATELY 10% OF THE TRENCH DEPTH TO ACCOUNT FOR SETTLEMENT.
9. RESTORE ANY GEOGRIDS, FILTER FABRIC, WOOD CHIPS OR MULCH AND OR MATTING THAT WAS PREVIOUSLY REQUIRED FOR THE AREA.

TREE REMOVAL
1. REMOVE ALL TREES INDICATED BY THE DRAWINGS AND SPECIFICATIONS, AS REQUIRING REMOVAL, IN A MANNER THAT WILL NOT DAMAGE ADJACENT TREES OR STRUCTURES OR COMPACTS THE SOIL.
2. REMOVE TREES THAT ARE ADJACENT TO TREES OR STRUCTURES TO REMAIN, IN SECTIONS, TO LIMIT THE OPPORTUNITY OF DAMAGE TO ADJACENT CROWNS, TRUNKS, GROUND PLANE ELEMENTS AND STRUCTURES.
3. DO NOT DROP TREES WITH A SINGLE CUT UNLESS THE TREE WILL FALL IN AN AREA NOT INCLUDED IN THE TREE AND PLANT PROTECTION AREA. NO TREE TO BE REMOVED WITHIN 50 FEET OF THE TREE AND PLANT PROTECTION AREA SHALL BE PUSHED OVER OR UP–ROOTED USING A PIECE OF GRADING EQUIPMENT.
4. PROTECT ADJACENT PAVING, SOIL, TREES, SHRUBS, GROUND COVER PLANTINGS AND UNDERSTORY PLANTS TO REMAIN FROM DAMAGE DURING ALL TREE REMOVAL OPERATIONS, AND FROM CONSTRUCTION OPERATIONS. PROTECTION SHALL INCLUDE THE ROOT SYSTEM, TRUNK, LIMBS, AND CROWN FROM BREAKAGE OR SCARRING, AND THE SOIL FROM COMPACTION.
5. REMOVE STUMPS AND IMMEDIATE ROOT PLATE FROM EXISTING TREES TO BE REMOVED. GRIND TRUNK BASES AND LARGE BUTTRESS ROOTS TO A DEPTH OF THE LARGEST BUTTRESS ROOT OR AT LEAST 18 INCHES BELOW THE TOP MOST ROOTS WHICH EVER IS LESS AND OVER THE AREA OF THREE TIMES THE DIAMETER OF THE TRUNK (DBH).
6. FOR TREES WHERE THE STUMP WILL FALL UNDER NEW PAVED AREAS, GRIND ROOTS TO A TOTAL DEPTH OF 18 INCHES BELOW THE EXISTING GRADE. IF THE SIDES OF THE STUMP HOLE STILL HAVE GREATER THAN APPROXIMATELY 20% WOOD VISIBLE, CONTINUE GRINDING OPERATION DEEPER AND OR WIDER UNTIL THE RESULTING HOLE HAS LESS THAN 20% WOOD. REMOVE ALL WOOD CHIPS PRODUCED BY THE GRINDING OPERATION AND BACK FILL IN 8 INCH LAYERS WITH CONTROLLED FILL OF A QUALITY ACCEPTABLE TO THE SITE ENGINEER FOR FILL MATERIAL UNDER STRUCTURES, COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY STANDARD PROCTOR. NATIVE ENGINEERING, PLLC SHALL APPROVE EACH HOLE AT THE END OF THE GRINDING OPERATION.
7. IN AREAS WHERE THE TREE LOCATION IS TO BE A PLANTING BED OR LAWN, REMOVE ALL WOODCHIPS AND BACKFILL STUMP HOLES WITH PLANTING SOIL AS DEFINED IN SPECIFICATION SECTION PLANTING SOIL, IN MAXIMUM OF 12 INCH LAYERS AND COMPACT TO 80 – 85% OF THE MAXIMUM DRY DENSITY STANDARD PROCTOR.

ORIGINAL SET: 6/14/23
REVISIONS

NO.	DATE	DESCRIPTION
3	12/21/23	REVISED PER COUNTY & CLIENT COMMENTS
2	10/04/23	REVISED PER FDOT ACCESS COMMENTS
1	08/21/23	REVISED PER COUNTY & FDOT COMMENTS
-		
-		
-		

NATIVE engineering,pllc
P.O. BOX 2995
LAND O' LAKES, FL 34639
(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
MARION COUNTY FLORIDA

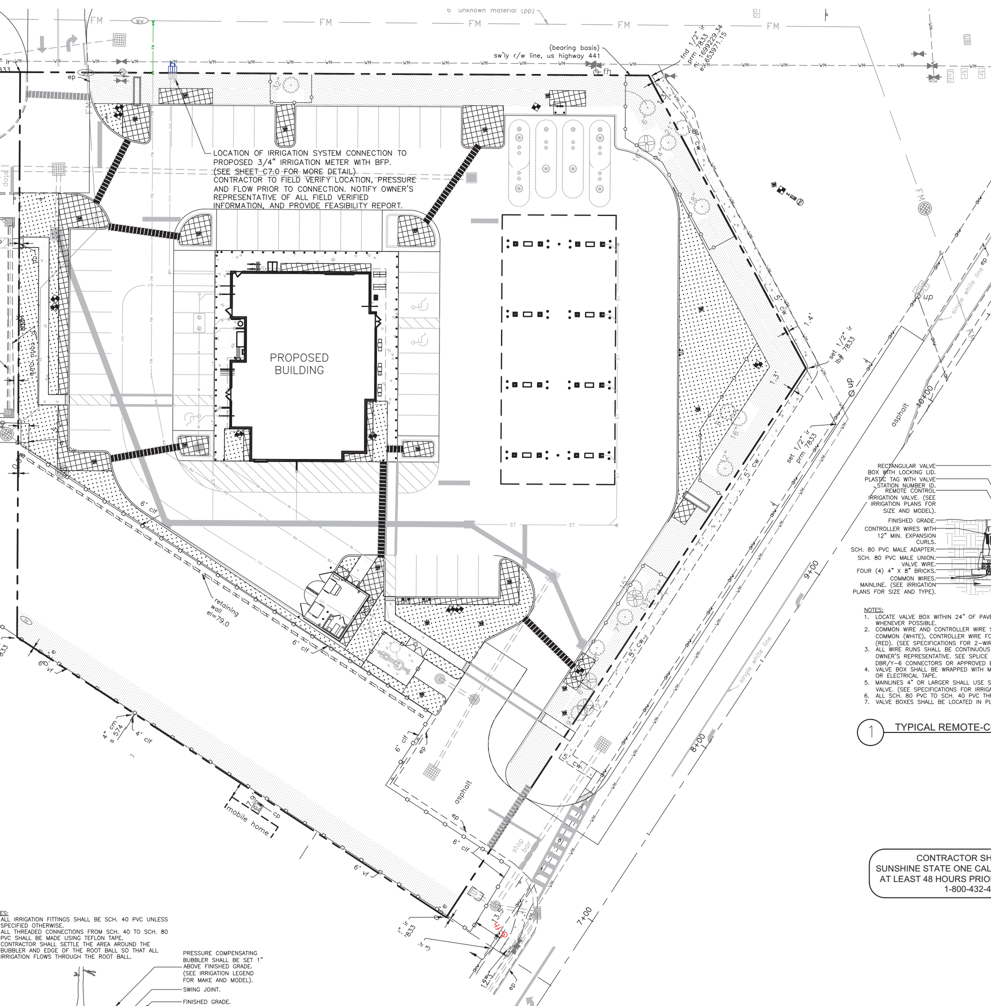
LANDSCAPE DETAILS

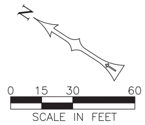
BRIAN BLAZEWICK
State of Florida,
Registered Landscape Architect,
License No. LA6667484
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY BRIAN BLAZEWICK, RLA ON THE DATE INDICATED HERE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

SHEET NUMBER
L3.0

S-T-R
16-17-23

G:\SHARED DRIVES\CLIENTS\AMPROP\PROJECTS\1.23.012.00 - 441 & 147TH CONVENIENCE STORE\DRAWINGS\L1.0 LANDSCAPE PLANS.DWG - 12/22/2023 3:07 PM





LEGEND

ZONES TO BE COMPROMISED OF ONE OF THE FOLLOWING TYPE IRRIGATION HEADS:

MULCHED PLANT BEDS
- RAINBIRD SQ SERIES SPRAY NOZZLES
- HUNTER HS SERIES MICRO SPRAYS
- APPROVED EQUAL MANUFACTURER (SEE SUBMITTAL NOTES)

MULCHED GROUNDCOVER BEDS
- RAINBIRD XFD SERIES IN-LINE EMITTER DRIP TUBING
- HUNTER HDL SERIES IN-LINE EMITTER DRIP TUBING
- APPROVED EQUAL MANUFACTURER (SEE SUBMITTAL NOTES)

MULCHED TREE RINGS
- RAINBIRD 1400 SERIES BUBBLER HEAD
- HUNTER AFB BUBBLER HEAD
- APPROVED EQUAL MANUFACTURER (SEE SUBMITTAL NOTES)

SODDED AREAS
- RAINBIRD 1800 SERIES POP-UP SPRAY BODIES
- HUNTER PRS30 SERIES PRO-SPRAY BODIES
- APPROVED EQUAL MANUFACTURER (SEE SUBMITTAL NOTES)

(2) 4" OR (1) 6" SCHEDULE 40 PVC SLEEVING

RAIN BIRD XCZ-100-PRB-LC OR APPROVED EQUAL MANUFACTURER

C — RAIN BIRD ESP4M CONTROLLER OR APPROVED EQUAL MANUFACTURER

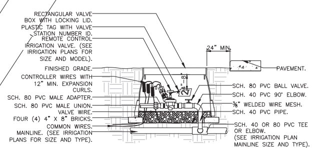
RS — RAIN BIRD RSD-BEX RAIN SENSOR OR APPROVED EQUAL MANUFACTURER

DEVELOPMENT REVIEW COMMITTEE
MARION COUNTY, FLORIDA

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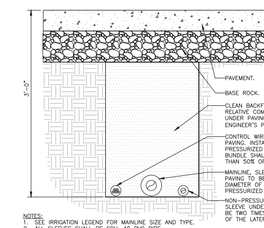
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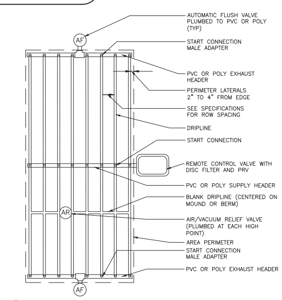
NOTES:
1. LOCATE VALVE BOX WITHIN 24" OF PAVEMENT EDGE IN PLANTING AREA WHERE EASILY ACCESSIBLE WHENEVER POSSIBLE.
2. COMMON WIRE AND CONTROLLER WIRE SHALL BE DIRECT BURIAL 14 AWG OR LARGER. COLOR: COMMON (WHITE), CONTROLLER WIRE FOR TURF (BLUE), AND CONTROLLER WIRE FOR SHRUBS (RED). (SEE SPECIFICATIONS FOR 2-WIRE CONTROLLERS).
3. ALL WIRE RUNS SHALL BE CONTINUOUS WITHOUT ANY SPLICES UNLESS APPROVED BY THE OWNER'S REPRESENTATIVE. SEE SPLICE BOX DETAIL. WIRE CONNECTIONS SHALL BE MADE USING DBR/Y-6 CONNECTORS OR APPROVED EQUAL.
4. VALVE BOX SHALL BE WRAPPED WITH MIN. 3 MIL THICK PLASTIC AND SECURE IT USING DUCT TAPE OR ELECTRICAL TAPE.
5. MAINLINES 4" OR LARGER SHALL USE SADDLES AT THE CONNECTIONS POINTS TO THE IRRIGATION VALVE. (SEE SPECIFICATIONS FOR IRRIGATIONS SADDLES).
6. ALL SCH. 80 PVC TO SCH. 40 PVC THREADED CONNECTIONS SHALL BE MADE USING TEFLON TAPE.
7. VALVE BOXES SHALL BE LOCATED IN PLANTING AREAS.

1 TYPICAL REMOTE-CONTROL VALVE DETAIL — N.T.S.



NOTES:
1. SEE IRRIGATION LEGEND FOR MAINLINE SIZE AND TYPE.
2. ALL SLEEVES SHALL BE SCH. 40 PVC PIPE.
3. ALL SLEEVES SHALL EXTEND 12" BEYOND THE EDGE OF PAVEMENT.
4. END OF SLEEVES SHALL BE LOCATED WITH A WOODEN STAKE OR PVC PIPE. LOCATORS SHALL RUN CONTINUOUSLY FROM THE END OF THE SLEEVE TO FINISHED GRADE.

2 TYPICAL SLEEVE DETAIL — N.T.S.



3 TYPICAL DRIP-LINE CENTER FEED LAYOUT — N.T.S.

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

SPECIFICATIONS

GENERAL REQUIREMENTS
1. CODE REQUIREMENTS SHALL BE THOSE OF STATE AND MUNICIPAL CODES AND REGULATIONS LOCALLY GOVERNING THIS WORK, PROVIDING THAT ANY REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS, NOT CONFLICTING THEREWITH, BUT EXCEEDING THE CODE REQUIREMENTS, SHALL GOVERN UNLESS WRITTEN PERMISSION TO THE CONTRARY IS GRANTED BY NATIVE ENGINEERING, PLLC.
2. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR PRODUCING AND DESIGNING AN IRRIGATION PLAN THAT PROVIDES 100% COVERAGE TO ALL NEW LANDSCAPING AND SOD. THE PLANS SHALL BE PREPARED BY A CERTIFIED IRRIGATION DESIGNER AND SUBMITTED TO NATIVE ENGINEERING, PLLC FOR APPROVAL. THE PLANS SHALL BE PREPARED AND DESIGNED IN ACCORDANCE WITH FLORIDA IRRIGATION SOCIETY DESIGN STANDARDS AND SHALL MEET ALL REQUIREMENTS FOR PERMITTING THROUGH THE STATE AND MUNICIPAL CODES AND REGULATIONS LOCALLY GOVERNING THE PROJECT. PRODUCTION AND DESIGN COSTS SHALL BE INCLUDED IN THE PRICE BID FOR IRRIGATION.
3. EXTREME CARE SHALL BE EXERCISED AT ALL TIMES BY THE CONTRACTOR IN EXCAVATING AND WORKING IN THE PROJECT AREA DUE TO EXISTING UTILITIES AND IRRIGATION SYSTEMS TO REMAIN. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR EXPENSES INCURRED IN THE REPAIR OF DAMAGES CAUSED BY THEIR OPERATION.
4. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND MAINTAINING EXISTING IRRIGATION MAIN LINES THAT SUPPLY WATER TO AREAS ON THE SITE AS NOTED ON THE DRAWINGS AND OUTSIDE OF THE PROPOSED LIMIT OF WORK. THE CONTRACTOR SHALL RELOCATE OR REPLACE EXISTING IRRIGATION MAIN LINE PIPING AS REQUIRED TO PROVIDE A CONTINUOUS SUPPLY OF WATER TO ALL AREAS OF EXISTING IRRIGATION ON SITE.
5. PROVIDING CONTINUOUS WATER SUPPLY SHALL INCLUDE HAND WATERING AND OR THE USE OF WATERING TRUCKS TO PROVIDE ADEQUATE WATER.
6. PLAN LOCATIONS OF SLEEVES, ZONES AND OTHER EQUIPMENT ARE DIAGRAMMATIC AND INDICATE THE SPACING AND RELATIVE LOCATIONS OF ALL INSTALLATIONS. FINAL SITE CONDITIONS AND EXISTING AND PROPOSED PLANTINGS SHALL DETERMINE FINAL LOCATIONS AND ADJUSTED AS NECESSARY AND AS DIRECTED TO MEET EXISTING AND PROPOSED CONDITIONS AND OBTAIN COMPLETE WATER COVERAGE. MINOR CHANGES IN LOCATIONS OF THE ABOVE FROM LOCATIONS SHOWN SHALL BE MADE AS NECESSARY TO AVOID EXISTING AND PROPOSED TREES, PIPING, UTILITIES, STRUCTURES, ETC. AT THE CONTRACTOR'S EXPENSE OR WHEN DIRECTED BY NATIVE ENGINEERING, PLLC.
7. POINT OF CONNECTION SHALL BE APPROXIMATELY AS SHOWN ON DRAWINGS. CONNECT NEW UNDERGROUND PIPING AND VALVES AND PROVIDE ALL FLANGES, ADAPTERS OR OTHER NECESSARY FITTINGS FOR CONNECTION.
8. NO FITTINGS SHALL BE INSTALLED ON PIPE UNDERNEATH PAVEMENT OR WALLS.
9. CONTRACTOR TO FULLY RESTORE ALL AREAS DISTURBED BY HIS WORK. PROVIDE A SMOOTH TRANSITION BETWEEN THE REPAIRED DISTURBED AREAS AND THE UNDISTURBED AREAS. SOIL, DEBRIS AND EXCAVATED MATERIALS SHALL BE DISPOSED OF OFF SITE BY THE CONTRACTOR IN ACCORDANCE WITH APPLICABLE ORDINANCES AND LAWS.

PERMITS AND REGULATIONS
1. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS RELATED TO THIS SECTION OF THE WORK UNLESS PREVIOUSLY EXCLUDED UNDER PROVISION OF THE CONTRACT OR GENERAL CONDITIONS. THE CONTRACTOR SHALL COMPLY WITH ALL LAWS AND ORDINANCES BEARING ON THE OPERATION OR CONDUCT OF THE WORK AS DRAWN AND SPECIFIED. IF THE CONTRACTOR OBSERVES THAT A CONFLICT EXISTS BETWEEN PERMIT REQUIREMENTS AND THE WORK OUTLINED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROMPTLY NOTIFY NATIVE ENGINEERING, PLLC IN WRITING INCLUDING A DESCRIPTION OF ANY NECESSARY CHANGES AND CHANGES TO THE CONTRACT PRICE RESULTING FROM CHANGES IN THE WORK.
2. WHEREVER REFERENCES ARE MADE TO STANDARDS OR CODES IN ACCORDANCE WITH WHICH WORK IS TO BE PERFORMED OR TESTED, THE EDITION OR REVISION OF THE STANDARDS AND CODES CURRENT ON THE EFFECTIVE DATE OF THIS CONTRACT SHALL APPLY, UNLESS OTHERWISE EXPRESSLY SET FORTH.
3. IN CASE OF CONFLICT AMONG ANY REFERENCED STANDARDS OR CODES OR BETWEEN ANY REFERENCED STANDARDS AND CODES AND THE SPECIFICATIONS, THE MORE RESTRICTIVE STANDARD SHALL APPLY OR OWNER'S REPRESENTATIVE SHALL DETERMINE WHICH SHALL GOVERN.

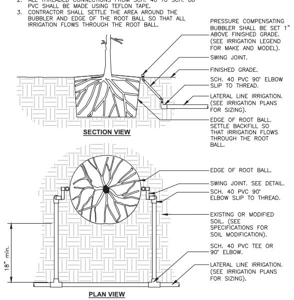
POINT OF CONNECTION
1. THE POINT OF CONNECTION OF THE IRRIGATION SYSTEM TO ITS ELECTRICAL POWER SOURCES SHALL BE PROVIDED BY THE GENERAL CONTRACTOR'S LICENSED ELECTRICAL CONTRACTOR PER GOVERNING CODES AT THE LOCATION SHOWN ON THE DRAWINGS. THE IRRIGATION CONTRACTOR WILL CONNECT THE POWER TO PROVIDED JUNCTION BOX OR GROUNDED PLUG RECEPTACLE.
2. THE POINT OF CONNECTION OF THE IRRIGATION SYSTEM TO ITS POTABLE AND OR NON-POTABLE WATER SOURCES, INCLUDING THE MAIN SHUTOFF VALVE AND BACKFLOW PREVENTER SHALL BE PROVIDED BY THE GENERAL CONTRACTOR'S LICENSED PLUMBING CONTRACTOR PER GOVERNING CODES AT THE LOCATION SHOWN ON THE DRAWINGS.

PROTECTION
1. THE CONTRACTOR SHALL CONTINUOUSLY MAINTAIN ADEQUATE PROTECTION OF ALL THEIR WORK FROM DAMAGE, DESTRUCTION, OR LOSS, AND SHALL PROTECT THE OWNER'S PROPERTY FROM DAMAGE ARISING IN CONNECTION WITH THIS CONTRACT. CONTRACTOR SHALL MAKE GOOD ANY SUCH DAMAGE, DESTRUCTION, LOSS OR INJURY. CONTRACTOR SHALL ADEQUATELY PROTECT ADJACENT PROPERTY AS PROVIDED BY LAW AND THE CONTRACT DOCUMENTS.
2. THE CONTRACTOR SHALL MAINTAIN SUFFICIENT SAFEGUARDS, SUCH AS RAILINGS, TEMPORARY WALKS, LIGHTS, ETC., AGAINST THE OCCURRENCE OF ACCIDENTS, INJURIES OR DAMAGE TO ANY PERSON OR PROPERTY RESULTING FROM THEIR WORK, AND SHALL ALONE BE RESPONSIBLE FOR THE SAME IF SUCH OCCURS.
3. ALL EXISTING PAVING, STRUCTURES, EQUIPMENT OR PLANT MATERIAL SHALL BE PROTECTED AT ALL TIMES, INCLUDING THE IRRIGATION SYSTEM RELATED TO PLANTS, FROM DAMAGE BY WORKERS AND EQUIPMENT. THE CONTRACTOR SHALL FOLLOW ALL PROTECTION REQUIREMENTS INCLUDING PLANT PROTECTION PROVISION OF THE GENERAL CONTRACT DOCUMENTS. ALL DAMAGES SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. REPAIRS AND OR REPLACEMENT SHALL BE TO THE SATISFACTION OF NATIVE ENGINEERING, PLLC, INCLUDING THE SELECTION OF A CONTRACTOR TO UNDERTAKE THE REPAIR OR MAINTENANCE. REPAIRS SHALL BE AT NO COST TO THE OWNER.
4. CONTRACTOR TO EXERCISE CAUTION AND AVOID DAMAGE TO ROOTS OF EXISTING TREES TO REMAIN. PRESERVE ALL ROOTS 1" DIAMETER AND LARGER. ROOTS TO BE SEVERED CLEANLY WITH A SHARP CUTTING TOOL. MAIN LINE LOCATION AS SHOWN ON PLANS SHALL BE FIELD ADJUSTED BY CONTRACTOR TO AVOID CONFLICTS WITH PROPOSED LANDSCAPING AND EXISTING TREES TO REMAIN.
5. FOR TREES DAMAGED TO THE POINT WHERE THEY WILL NOT BE EXPECTED TO SURVIVE OR WHICH ARE SEVERELY DISFIGURED AND THAT ARE TOO LARGE TO REPLACE, THE COST OF DAMAGES SHALL BE AS DETERMINED BY THE OWNER'S ARBORIST USING ACCEPTED TREE VALUE EVALUATION METHODS.
6. THE CONTRACTOR SHALL REFRAIN FROM TRENCHING WITHIN THE DRIP LINE OF ANY EXISTING TREE TO REMAIN. NATIVE ENGINEERING, PLLC MAY REQUIRE THE CONTRACTOR TO RELOCATE PROPOSED IRRIGATION WORK, BORE LINES BENEATH ROOTS OR USE AIR SPADE TECHNOLOGY TO DIG TRENCHES THROUGH AND UNDER THE ROOT SYSTEM TO AVOID DAMAGE TO EXISTING TREE ROOT AREAS.
7. ALL PRESSURE MAIN LINES UNDER ASPHALT PAVEMENT SHALL BE WITHIN SLEEVES AS SHOWN ON PLANS.

UTILITIES
1. CONTRACTOR SHALL CAREFULLY EXAMINE THE CIVIL, RECORD, AND SURVEY DRAWINGS TO BECOME FAMILIAR WITH THE EXISTING UNDERGROUND CONDITIONS BEFORE DIGGING.
2. DO NOT BEGIN ANY EXCAVATION UNTIL ALL UNDERGROUND UTILITIES HAVE BEEN LOCATED AND MARKED.
3. DETERMINE LOCATION OF UNDERGROUND UTILITIES AND PERFORM WORK IN A MANNER THAT WILL AVOID POSSIBLE DAMAGE. HAND EXCAVATE, AS REQUIRED. MAINTAIN STAKES AND OR MARKINGS SET BY OTHERS UNTIL PARTIES CONCERNED MUTUALLY AGREE TO THEIR REMOVAL.

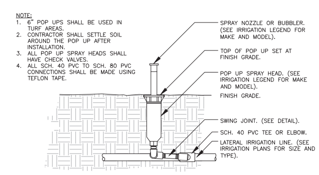
RECLAIMED WATER SYSTEM DESIGNATION
1. WHERE IRRIGATION SYSTEMS USE RECLAIMED WATER, ALL PRODUCTS INCLUDING VALVE BOXES, LATERAL AND MAIN LINE PIPE, ETC. WHERE APPLICABLE AND/OR REQUIRED BY LOCAL CODE SHALL HAVE THE RECLAIMED WATER PURPLE COLOR DESIGNATION.

NOTES:
1. ALL IRRIGATION FITTINGS SHALL BE SCH. 40 PVC UNLESS SPECIFIED OTHERWISE.
2. ALL THREADED CONNECTIONS FROM SCH. 40 TO SCH. 80 PVC SHALL BE MADE USING TEFLON TAPE.
3. CONTRACTOR SHALL SETTLE THE AREA AROUND THE BUBBLER AND EDGE OF THE ROOT BALL SO THAT ALL IRRIGATION FLOWS THROUGH THE ROOT BALL.

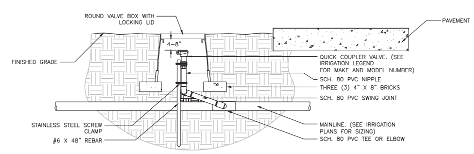


4 TYPICAL BUBBLER DETAIL — N.T.S.

NOTE:
1. 6" POP UPS SHALL BE USED IN TURF AREAS.
2. CONTRACTOR SHALL SETTLE SOIL AROUND THE POP UP AFTER INSTALLATION.
3. ALL POP UP SPRAY HEADS SHALL HAVE CHECK VALVES.
4. ALL SCH. 40 PVC TO SCH. 80 PVC CONNECTIONS SHALL BE MADE USING TEFLON TAPE.



5 TYPICAL POP-UP SPRAY DETAIL — N.T.S.



NOTES:
1. ALL THREADED CONNECTIONS SHALL BE INSTALLED USING TEFLON TAPE.
2. VALVE BOX SHALL BE WRAPPED WITH A MINIMUM 3 MIL THICK PLASTIC AND SECURED TO THE VALVE BOX USING DUCT TAPE OR ELECTRICAL TAPE.
3. ALL QUICK COUPLERS SHALL BE INSTALLED A MINIMUM OF 18" OFF OF THE MAINLINE.
4. VALVE BOXES SHALL BE LOCATED IN PLANTING AREAS.

6 TYPICAL QUICK COUPLER DETAIL — N.T.S.

ORIGINAL SET: 6/14/23
REVISIONS

NO.	DATE	DESCRIPTION
-	-	-
-	-	-
-	-	-
3	12/21/23	REVISED PER COUNTY & CLIENT COMMENTS
2	10/04/23	REVISED PER FDOT ACCESS COMMENTS
1	08/21/23	REVISED PER COUNTY & FDOT COMMENTS

NATIVE engineering,pllc
P.O. BOX 2995
LAND O' LAKES, FL 34639
(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

MARION COUNTY — FLORIDA

IRRIGATION PLAN

BRIAN BLAZEWICK
State of Florida,
Registered Landscape Architect,
License No. LA6667484

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY BRIAN BLAZEWICK, RLA ON THE DATE INDICATED HERE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

SHEET NUMBER
L4.0

S-T-R
16-17-23