



## The Department of Planning and Development Services

City Hall | 16 Colomba Road | DeBary, FL 32713

### Development Review Committee (DRC) Meeting

Tuesday, September 5<sup>th</sup>, 2023 – 9:30 AM

## DRC AGENDA

1. CALL TO ORDER
2. ROLL CALL
3. APPROVAL OF MINUTES
  - DRC meeting on July 6<sup>th</sup>, 2023
4. NEW BUSINESS
  - **Case # 23-01-FSP-Safety Town**; *Second Review*, Applicant is requesting approval of a Final Site Plan for construction of a training building and three simulation structures at 450 South Charles Richard Beall Boulevard.
5. ADDITIONAL BUSINESS:
6. DISCUSSION:
7. ADJOURNMENT:

### DISTRIBUTION:

#### Technical Review Staff:

- Steven Bapp, AICP, *Growth Management Director - Planning and Zoning* (SBapp@DeBary.org)
- Joseph Barker, AICP, *Senior Planner - Planning and Zoning* (JBarker@DeBary.org)
- Kayla Burney, *Planning Technician - Planning and Zoning* (KBurney@DeBary.org)
- Kevin Hare, *Construction Manager* (KHare@DeBary.org)
- Amy Long, *Deputy Public Works Director* (ALong@DeBary.org)
- Chad Qualls, *Public Works Superintendent* (CQualls@DeBary.org)
- Robert Scott, *Orange City Fire Department* (RScott@ourorangecity.com)
- Merylene Thomas, *Senior Planner - Planning and Zoning* (MThomas@DeBary.org)
- Richard Villasenor, *City Engineer* (RVillasenor@DeBary.org)
- Steve Wood, *Building Inspector* (Buildingofficial@DeBary.org)
- E-Sciences, *Environmental Management Consultant* (troberts@res.us)
- Fishback Dominick, *Legal Consultant* (DLangley@fishbacklaw.com)
- SurvTech Solutions, *Surveying Consultant* (rfowler@survtechsolutions.com)
- TEDS, *Transportation Consultant* (KingTanya@stanleygroup.com)
- Volusia County Utilities, *Utilities* (ErinReed@volusia.org)

**PLEASE NOTE: Each DRC project on the agenda will take approximately 30 minutes unless otherwise noted.**

**APPLICANT(S):** Please plan to attend the DRC meeting to discuss your project and review the comments with reviewers. Individuals with disabilities needing assistance to participate in any of these proceedings should contact the City Clerk at least three (3) working days in advance of the meeting date and time at (386) 601-0219.



**City of DeBary  
Development Review Committee Meeting  
July 6, 2023 - MINUTES**

**CALL TO ORDER:**

The meeting of the City of DeBary Development Review Committee was called to order by Steven Bapp, Growth Management Director, at 9:30 am.

**DRC MEMBERS PRESENT:**

Steven Bapp, City of DeBary  
Christopher Karl, Orange City Fire Department  
Amy Long, City of DeBary  
Richard Villasenor, City of DeBary

**OTHERS PRESENT:**

Joseph Barker, City of DeBary  
Phyllis Butlien, City of DeBary  
Robert Doan, Cobb Cole  
Chad Moorhead, Madden Engineering  
Carmen Rosamonda, City of DeBary  
Shari Simmans, City of DeBary  
Mark Watts, Cobb Cole

**APPROVAL OF MINUTES:**

Richard Villasenor made a motion to approve the June 20, 2023 DRC Meeting Minutes, seconded by Amy Long. The motion was approved by a 4-0 vote.

**ADDITIONS, DELETIONS, OR AMENDMENTS TO THE AGENDA:**

None

**OLD BUSINESS:**

None

**NEW BUSINESS:**

**Riverview Estates PUD**

**Project # 22-01-PUD-Riverview Estates**

Chairman Steven Bapp briefly summarized the project.

Mark Watts, a representative for the applicant, came forward to speak. Mr. Watts asked if comments from the Volusia County School Board had been sent to the City yet. Joseph Barker, Senior Planner, stated the School Board has not submitted their comments yet.

Mr. Watts asked if a biological report they have from 2019 is sufficient for staff review. Chairman Bapp stated staff will have to confirm whether the report is still valid for review. Richard Villasenor suggested the biological report could be updated upon submittal of construction plans.

Mr. Watts stated, in regard to the comment from Planning & Zoning suggesting a connection to the St. John's River Estates subdivision to the east, stated one of the entrances into the platted right-of-way is a wetland and the rights-of-way are not dedicated to the public. Chairman Bapp stated a concern staff has is the risk of eventually creating double-frontage lots, should the private right-of-way ever be improved. He also noted there are some proposed double-frontage lots

along Fort Florida Road. He stated there would need to be a dedication to prevent those lots from having double-frontage.

Chairman Bapp stated the recreation area is undefined. Mr. Watts stated there are no specific plans for the open space at the moment, aside from an area for resident RV and boat storage. Mr. Watts stated the master development plan can add these details.

Mr. Bapp stated a traffic impact analysis will be necessary due to the potential the development has for lowering the regulatory level of service for West Highbanks Road from a grade of D to E. Mr. Watts asked how the requirement for a traffic impact analysis will be affected by the subject property being within the City's Mobility Fee Area.

Carmen Rosamonda, City Manager, stated reducing West Highbanks Road's level of service to a grade of E would violate the provisions of the City's Land Development Code, regardless of the property's location within the Mobility Fee Area.

Chad Moorhead, a representative for the applicant, came forward to speak. Mr. Moorhead asked, in regard to Planning & Zoning's comment on correcting the net density calculations of the development, if the post-development flood plain should be removed from the net developable area for the density calculations. Richard Villasenor suggested an exhibit of the post-development flood plain would be helpful. Chairman Bapp agreed that a post-development flood plain being delineated on the master development plan would be helpful. Mr. Watts stated the pre-development flood plain is typically used to calculate net density. Chairman Bapp agreed.

Christopher Karl stated details on fire hydrants and fire flow requirements, fire lanes, and the address layout will need to be provided. Mr. Watts asked if specifying the code requirements in the development agreement will suffice. Mr. Karl stated it would suffice.

The item was continued.

## **Saxon Pointe Amendment 2                      Project # 23-01-MAJPUD-Saxon Pointe Amendment 2**

Chairman Steven Bapp briefly summarized the project.

Robert Doan, a representative for the applicant, came forward to speak. Mr. Doan clarified the reason for the inconsistencies between the current development agreement for Saxon Pointe and the submitted development was due to them not having access to the 2012 resolution amending Saxon Pointe. He also noted there is a 2013 Saxon Pointe amendment, which City staff did not have access to during their review.

Mr. Doan noted a traffic impact analysis will be required for this project.

Mr. Doan stated they can incorporate elevation renderings of the project into the development agreement.

Mr. Doan stated they intend to replat the existing subdivision.

Christopher Karl asked, in regard to the self-storage facility on the southern edge of the subject property, what the height of the structure will be. Mr. Doan stated it will be one story.

Carmen Rosamonda, City Manager, expressed a concern that the self-storage facility on the southern edge of the subject property is impermissible by the provisions of Ordinance # 04-2023, which provided for certain regulations for self-storage facilities fronting the Gateway Corridor. The

structure utilizes outdoor storage. Mr. Rosamonda also stated the City is working on the engineering of the Gateway Center, which may affect this project. Mr. Doan stated it is the hope of the developer for this project that the Gateway Center will attract business for this development. Mr. Doan stated the self-storage facility on the southern edge of the subject property the access to the storage units would be in the interior of the structure. Mr. Doan noted an alternative would be to merge the two self-storage buildings into one larger structure. Chairman Bapp agreed with Mr. Rosamonda's interpretation of the ordinance. Mr. Doan asked if the interior area of the self-storage facility on the southern edge of the subject property being gated instead would meet the requirements of the ordinance. Mr. Rosamonda stated the storage units have to be air-conditioned.

Mr. Karl stated a tower truck would be necessary in the event the interior area is gated. Mr. Doan asked if making the interior area is in the form of a horseshoe would resolve that issue. Chairman Bapp stated they would need to see details of this concept before making such a determination.

Mr. Doan stated they will work on providing an updated master development plan.

The item was continued.

**ADJOURNMENT:**

The meeting was adjourned at 10:12 AM.





**DRC 9-5-2023**

**Subject Case # 23-01-FSP-Safety Town**

**Applicant: Florida Public Utilities Co.**

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Application Summary:

The applicant is requesting approval of a Final Site Plan for four accessory structures located at 450 South Charles Richard Beall Boulevard. One of the proposed structures is a 1,600 square foot storage building; the other three are 160 square foot simulation houses for training purposes. There is also a simulated training area proposed.

**Planning & Zoning**

**Joseph Barker, Senior Planner**

**Comprehensive Plan Review:**

In reviewing the application (proposed project), staff has reviewed it against the policies contained within the City's Comprehensive Plan (Plan) to determine whether or not the proposed project is consistent with the Plan, as required by Florida Statute 163.3194, and Chapter 1, Section 1-2(b)(1) of the City's Land Development Code.

There are no comments regarding Comprehensive Plan consistency.

**Land Development Code Review:**

The proposed project has been reviewed against the provisions of the City's Land Development Code (LDC).

Overlay District

The proposed project is located within the South 17-92 Overlay District, making it subject to the provisions of LDC Chapter 3, Article II, Section 3-23.





**Please note outside storage of products for retail or wholesale trade or involved in manufacturing, processing, or distribution activities is prohibited, except as may be permitted by special exception, as per LDC Chapter 3, Article II, Section 3-23(b)(1)d.**

**The proposed project's area is currently split into two lots. In order to make the proposed project meet the Overlay District's requirement of having an area of 5 acres and 600 feet of frontage, it will be necessary to administratively combine the two parcels pursuant to LDC Chapter 4, Article II, Division 2, Section 4-41(c).**

#### Final Site Plan Requirements

LDC Chapter 4, Article II, Division 3 provides for the approval procedures for Final Site Plans (FSP). Section 4-62(c)(2) lists out the required information and exhibits for FSPs.

**Please provide the following information on the FSP:**

- 1. Vehicular circulation system for the storage building;**
- 2. Elevation renderings and floor plans for the simulation houses; and**
- 3. Solid waste container and enclosure, if one is going to be added.**

#### Landscaping and Buffer Standards

LDC Chapter 5, Article I provides for landscaping and buffer standards.

Section 5-7(a) requires landscape areas to be located adjacent to all building perimeters. The minimum depth shall be 5 feet. **The depth on the proposed plan appears to be 3 feet. Please increase to 5 feet.**

Please note the end of planters next to parking stalls shall be set back 2 feet from the driving aisles, as per Section 5-8(d). Please verify.

Section 5-8(e) requires interior planters in vehicular use areas to be at approximately the same elevation (adjusted for curbing) as the adjacent vehicular use area, except as necessary to save existing trees. **Please add note stating so.**





Section 5-10(c) provides for planting design and distribution. **The landscape area depth of the front yard is over 50', thus requiring 4 small trees per 80 lineal feet. The number of lineal feet of landscaping area is 224 feet. This will require a total of 11 small trees. Only 7 have been provided in the front yard. Please provide an additional 4.**

Section 5-10(e) requires a certain number of species based on the number of trees required. The required number of trees exceeds 40, thus requiring 5 species. **What are the species of the existing trees?**

Section 5-10(h) requires at least 25% of the site's total required landscape area to be covered by shrubs, ground covers, or vines. **Please provide this data.**

Section 5-10(h) requires the cross slope of mulched plantings beds to not exceed 1-foot vertical to 6 feet horizontal. **Please verify and provide note stating such.**

Section 5-10(i) requires all landscape areas to be designed with plant spacing to achieve coverage of 80 percent of the landscape areas with living organic plant materials within two years. **Please add note stating such.**

Section 5-10(k) requires slopes for lawn grasses to not exceed 1-foot vertical to 3 feet horizontal. **Please verify and provide note stating such.**

Section 5-11(d) states where overhead utility lines are within 25 feet of required shade tree trunks, small ornamental trees shall be substituted at a rate of 1.5 small trees for each required shade tree. **Just outside of the eastern boundary of the property, there are overhead utility lines. Please verify if these are within 25 feet of the trunks of the shade trees**

### Tree Preservation

LDC Chapter 5, Article IV provides for regulations concerning tree preservation.

**Please define the boundaries of the tree preservation area as required by Section 5-88.**

Section 5-94(b)(1) Table VII lists out the percentage of specimen trees that must be protected, depending on the number of specimen trees per acre. There are 17 specimen trees on the 5.468-acre site for 3.10 specimen trees per acre. Therefore, 65% of all specimen trees must be protected. The submitted plans identify 10 of these specimen trees as being protected, which only amounts to 58.82%. **Two more specimen trees need to be preserved to meet the minimum 65% protection requirement.**

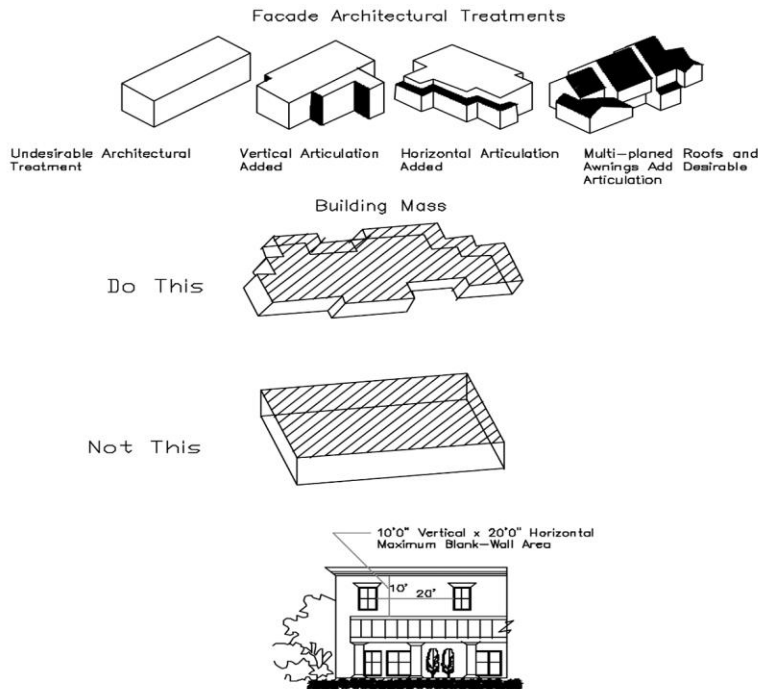


Gateway Corridor Standards

LDC Chapter 5, Article V provides for enhanced design standards to new development along the City’s Gateway Corridors, including U.S. Highway 17-92.

Section 5-123(a) states the architectural standards for the Gateway Corridors apply to all new development except for single-family dwellings, two-family dwellings, and alterations of certain structures. Therefore, this project is subject to this Section. **Please provide detailed architectural renderings and elevations of the simulation houses so that staff may determine compliance with Section 5-123(b).**

Section 5-123(b)(2)b states structures less than 5,000 square feet shall have no building façade with an uninterrupted horizontal length exceeding 35 linear feet. **The sides of the storage building have 40 linear feet of uninterrupted façade. Please see the below image for more information:**





Stucco, if used, shall be flat finish, knocked-down, or sand finish, as per Section 5-123(b)(6)c.1.v. Please confirm the stucco is one of these types.

Chain link and vinyl fencing is not permitted, unless screened from view from public rights-of-way, as per Section 5-123(b)(9). If foliage is used for screening, the foliage must screen the fence from view within 720 days of installation of the fence.

Please take note of Section 5-123(b)(10), regulating the screening of mechanical equipment in the Gateway Corridor.

Please note Section 5-123(b)(13) prohibits outdoor storage and display of equipment or merchandise unless they are screened from view from the public right-of-way, parking lots, and adjacent properties.

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**Public Works Department**  
**Amy Long, Deputy Public Works Director**

No comments have been received.

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**Fire Services**  
**Robert Scott, Fire Marshal**

No comments have been received.

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**Engineering**  
**Richard Villaseñor, P.E., City Engineer**

No comments.







**Building Department**  
**Steve Wood, Building Official**

No comments have been received.

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**Volusia County Utilities**  
**Erin Reed, PhD, P.E., Water & Utilities Senior Engineer**

VCU has reviewed the submittal and has no comments or objections as there are no new connections to VCU lines proposed.

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**Environmental Management**  
**Tom Roberts, Regional Science Manager, RES**

Comments are forthcoming.

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**Transportation**  
**Tanya King, PE, Senior Transportation Engineer, TEDS**

We've reviewed the materials sent for the Safety Town project and offer no comments at this time.

\*\*\*END OF COMMENTS\*\*\*

A written response to each of the above comments will be required when revisions are re-submitted to the City. Please be advised that additional comments may be forthcoming after a review of the revised plan set has been completed.

If you should have any questions, please feel free to contact me at 386-601-0203.

**Steven Bapp, AICP**  
**Sbapp@debary.org**  
**Director of Growth Management**  
**City of DeBary**



**STREET ADDRESS: 450 S. CHARLES RICHARD BEALL BLVD.  
DEBARY, FL 32713**

**TAX PARCEL ID NO. 900400000110**

Submittal Plans 8/15/23

**FLORIDA PUBLIC UTILITIES  
DEBARY, FL  
SAFETY TOWN ADDITION**

**TABLE OF CONTENTS**

**GENERAL NOTES**

- The Contractor shall be responsible for locating and verifying all existing utilities prior to construction, and for notifying the various utility companies to make the necessary arrangements for any relocation, disruption of service, or clarification of activity regarding said utility. The Contractor shall exercise extreme caution when crossing an underground utility, whether shown on these plans or field located. Utilities which interfere with the proposed construction shall be relocated by the respective utility companies and the Contractor shall cooperate with utility company during relocation operations. Any delay or inconvenience by the various utilities shall be incidental to the contract.
- The location of all existing utility services, facilities, and structural features shown on these plans have been determined from the best information and are provided for the convenience of the Contractor. The Engineer does not guarantee the accuracy or the completeness of the location information provided. Any inaccuracy or omission in such information shall not relieve the Contractor of his responsibility to protect such existing features from damage or unscheduled interruption of service. Should a discrepancy arise between these plans and actual field conditions, which would appreciably affect the execution of these plans, the Contractor will halt all construction and notify the Engineer immediately.
- All work and materials furnished shall be in reasonable conformity with the lines, grades, grading sections, cross sections, dimensions, material requirements and testing requirements that are specified in the contract, plans, or specifications.
- Prior to commencing work the Contractor shall furnish, erect and maintain all barricades, warning signs, and markings for hazards and the control of traffic, in reasonable conformity with the Manual of Uniform Traffic Control Devices for Streets and Highways or as directed by the City Engineer, such as to effectively prevent accidents in all places where the work causes obstructions to the normal traffic or constitutes in any way a hazard to the public.
- The Contractor shall not excavate, remove, or otherwise disturb any material, structure, or part of a structure which is located outside the lines, grades or grading sections established for this project, except where such excavation or removal is provided for in the contract, plans or specifications.
- Contractor to maintain weekly monitoring reports per general conditions of the N.P.D.E.S. General Permit.
- Storm pipe lengths called out on plans include flared or mitered end sections.
- Contractor is responsible for grading all pavements to drain positively. Intersections shall be transitioned to provide smooth driving surface while maintaining positive drainage. Should areas of poor drainage be observed, the Contractor shall notify the Engineer prior to paving so that recommendations for correction may be made.
- Erosion Control Notes
 

A. Provide effective temporary and permanent erosion control using the Florida Department of Transportation Standards Specifications for Road and Bridge Construction, 2022 Edition. (F.D.O.T. Section 104)
- Record Drawing: At the end of construction, the Contractor shall provide one set of drawings showing ALL CHANGES marked in waterproof red.
- All ground mechanical equipment shall be painted black, be fully screened with landscape material to ensure it is not visible. Wall-mounted equipment shall be painted to match the building. Roof-top mechanical equipment shall be fully screened behind roof features and parapet walls to ensure it is not visible.

**PROJECT LOCATION MAP**



VICINITY MAP  
SCALE: 1" = 2000'

DESCRIPTION	SHEET
COVER SHEET	1
EXISTING CONDITIONS	2
SITE PLAN	3
PARTIAL GRADING PLAN	4
GRADING PLAN DETAILS	5
UTILITY PLAN	6
SANITARY SEWER PLAN	7
STORMWATER POLLUTION PREVENTION PLAN	8
TREE PROTECTION PLAN	9
TREE PROTECTION PLAN	10
LIGHTING PLAN	11
DETAILS	12
LANDSCAPE PLAN	13
IRRIGATION PLAN	14

**PARKING CALCULATIONS**

PARKING REQUIREMENTS:

STORAGE - 1 PARKING SPACE FOR EACH BAY, PLUS 1 SPACE FOR EACH 1,000 S.F. OF GFA

PROPOSED EMPLOYEES:

THERE WILL BE 10 EMPLOYEES TO FACILITATE THE PROPOSED BUILDING FOR TRAINING SIMULATIONS AND 10 EXISTING EMPLOYEES DAILY IN THE EXISTING BUILDING

PARKING PROVIDED:

EXISTING REGULAR SPACES = 87 SPACES  
EXISTING ADA SPACES = 4 SPACES

TOTAL EXISTING PARKING PROVIDED = 91 SPACES

**AREA CALCULATIONS**

IMPROVEMENT	SQUARE FEET	ACRES	% PROJECT AREA	REMARKS
TOTAL CONTIGUOUS AREA	238,171	5.468	----	
TOTAL PROJECT AREA (SAFETY TOWN)	47,043	1.080	100	TOTAL PROJECT AREA
EXISTING BUILDING	15,215	0.349		
EXISTING PAVEMENT, CONCRETE	62,273	1.430		
EXISTING CONCRETE	616	0.014		
EXISTING PAVEMENT, CONCRETE	2,388	0.055		
PROPOSED STORAGE BUILDING 40'x40'	1,600	0.037		
PROPOSED HOUSE #1 10'x16'	160	0.004		
PROPOSED HOUSE #2 10'x16'	160	0.004		
PROPOSED HOUSE #3 10'x16'	160	0.004		
PROPOSED PAVEMENT	10,273	0.236		
TOTAL IMPERVIOUS	92,845	2.131	38.98	% LAND AREA
EXPANDED RETENTION POND	29,884	0.686	38.38	
OPEN AREA & LANDSCAPE AREA INTERIOR	30,960	0.711	31.16	
ADDITIONAL LANDSCAPE AREA	25,761	0.591	31.16	
NORTH & SOUTH GREEN SPACE	58,721	1.348	31.16	
TOTAL PROJECT PERVIOUS	145,326	3.336	61.02	% LAND AREA

**CONTACT INFORMATION**

**OWNER:** Florida Public Utilities Co.  
500 Energy Lane, Suite 400  
Dover, DE 19901

**SURVEYOR:** SinglePoint Services  
1620 South Broad Street, Suite B  
Monroe, GA 30656  
Phone: (678) 551-4138  
Email: JTrawick@SinglePointAG.com  
Florida Certificate No. LB8477

**WATER AND SEWER:** Volusia County Utilities  
123 W. Indiana Avenue  
Deland, FL 32720  
Phone: (386) 943-7027

**ENGINEER:** Michael Wojtuniak, P.E.  
P.E. No. 60934  
Engineered Permits, Inc.  
311 South Woodland Blvd  
Suite A  
DeLand, FL 32720  
Phone: (386) 734-0830  
Fax: (386) 734-8226  
Email: epi@epieng.net

**LANDSCAPE ARCHITECT:** Glenn Herbert Landscape Architect  
431 Sweet Bay Avenue  
New Smyrna Beach, FL 32168  
Phone: (386) 235-5078  
Email: glennherbert@gmail.com  
FASLA LA 0000324

**SITE SPECIFIC INFORMATION**

**NAME:** FLORIDA PUBLIC UTILITIES CO.  
**USE:** LIGHT INDUSTRIAL  
**ZONING =** I-1 (LIGHT INDUSTRIAL)

**MAX LOT COVERAGE:** 35%  
**MAX BUILDING HEIGHT (SEC. 3-107(d):** 45 FT (ACTUAL HEIGHT 20'-0")  
**FLOOR AREA RATIO:** 0.28

**BUILDING SETBACK:**

**FRONT:** 30 FT  
**REAR:** 20 FT  
**REAR:** 35 FT (ABUT. RESIDENTIAL OR MOBILE HOME)  
**SIDE:** 10 FT  
**SIDE:** 35 FT (ABUT. RESIDENTIAL OR MOBILE HOME)

**ENGINEERING** • **PLANNING** • **DESIGN** • **PERMITTING**  
 SHEET TITLE: FLORIDA PUBLIC UTILITIES SAFETY TOWN  
 REVISIONS:  
 DATE: BY: DESCRIPTION  
 PROJECT: FLORIDA PUBLIC UTILITIES SAFETY TOWN  
**EPI**  
 ENGINEERED PERMITS, INC.  
 311 SOUTH WOODLAND BLVD.  
 SUITE A  
 DELAND, FL 32720  
 PHONE: 386-734-0830  
 FAX: 386-734-8226  
 CERT. NO. 20598  
 EMAIL: epi@epieng.net  
 MICHAEL WOJTUNIAK, P.E.  
 EMail: mwojtuniak@epieng.net  
 SHEET NO. 1 OF 14

**Know what's below.  
Call before you dig.  
Dial 811  
Or Call 800-432-4770**

\*\*\*THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY MICHAEL J. WOJTUNIAK, P.E. ON 8/15/2023. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES. UNLESS THE RAISED SEAL HAS BEEN UTILIZED. \*\*\*





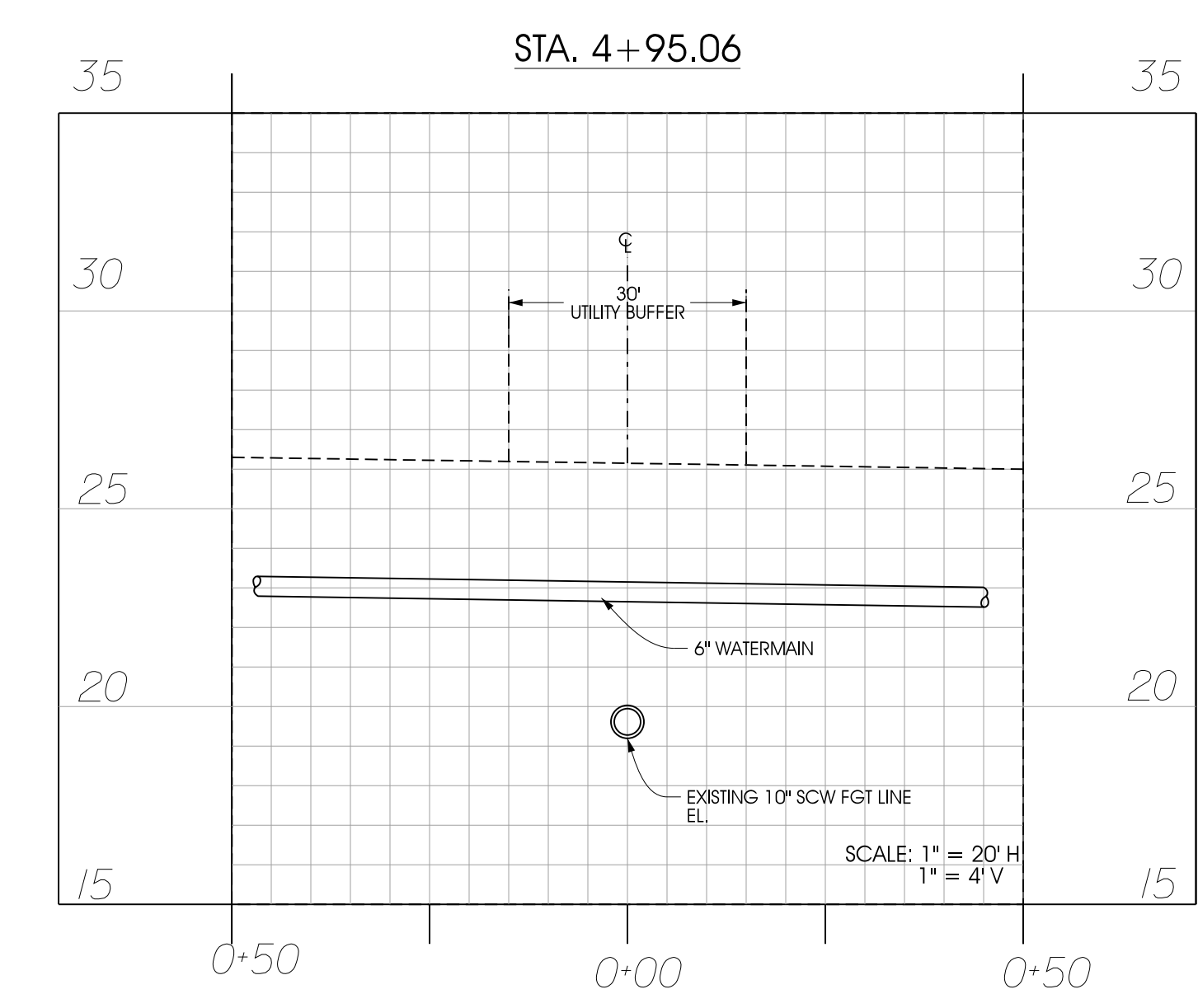
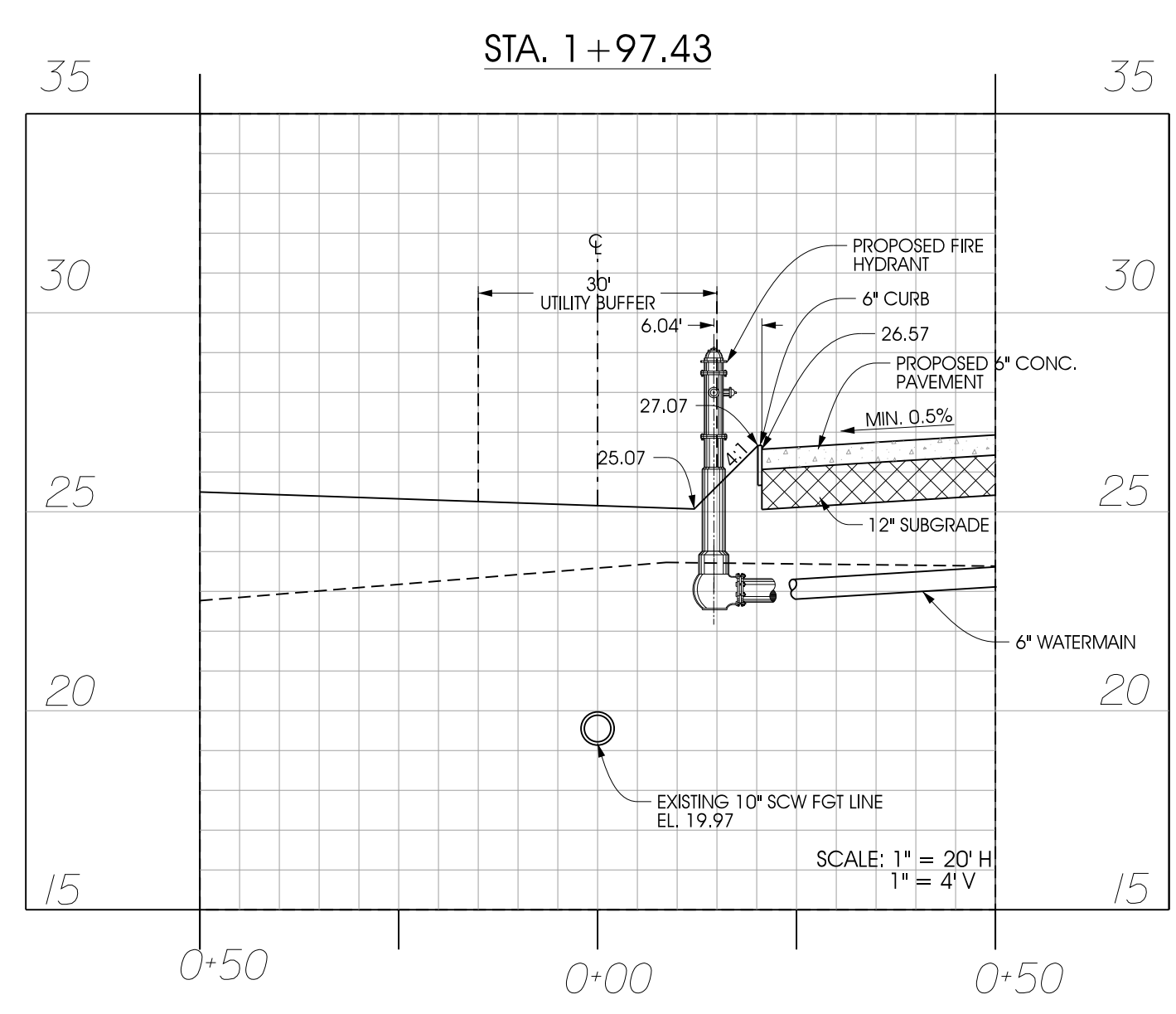
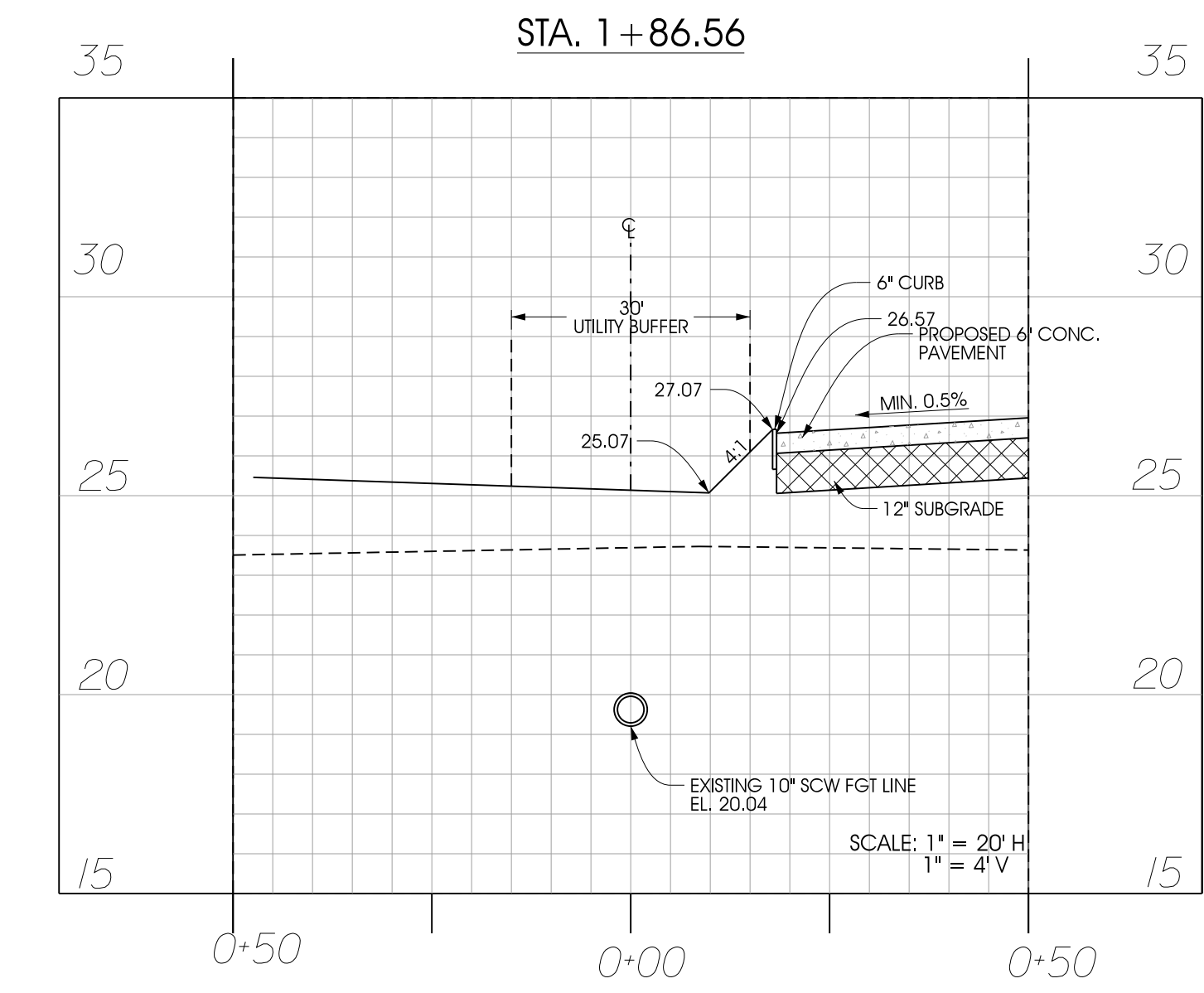
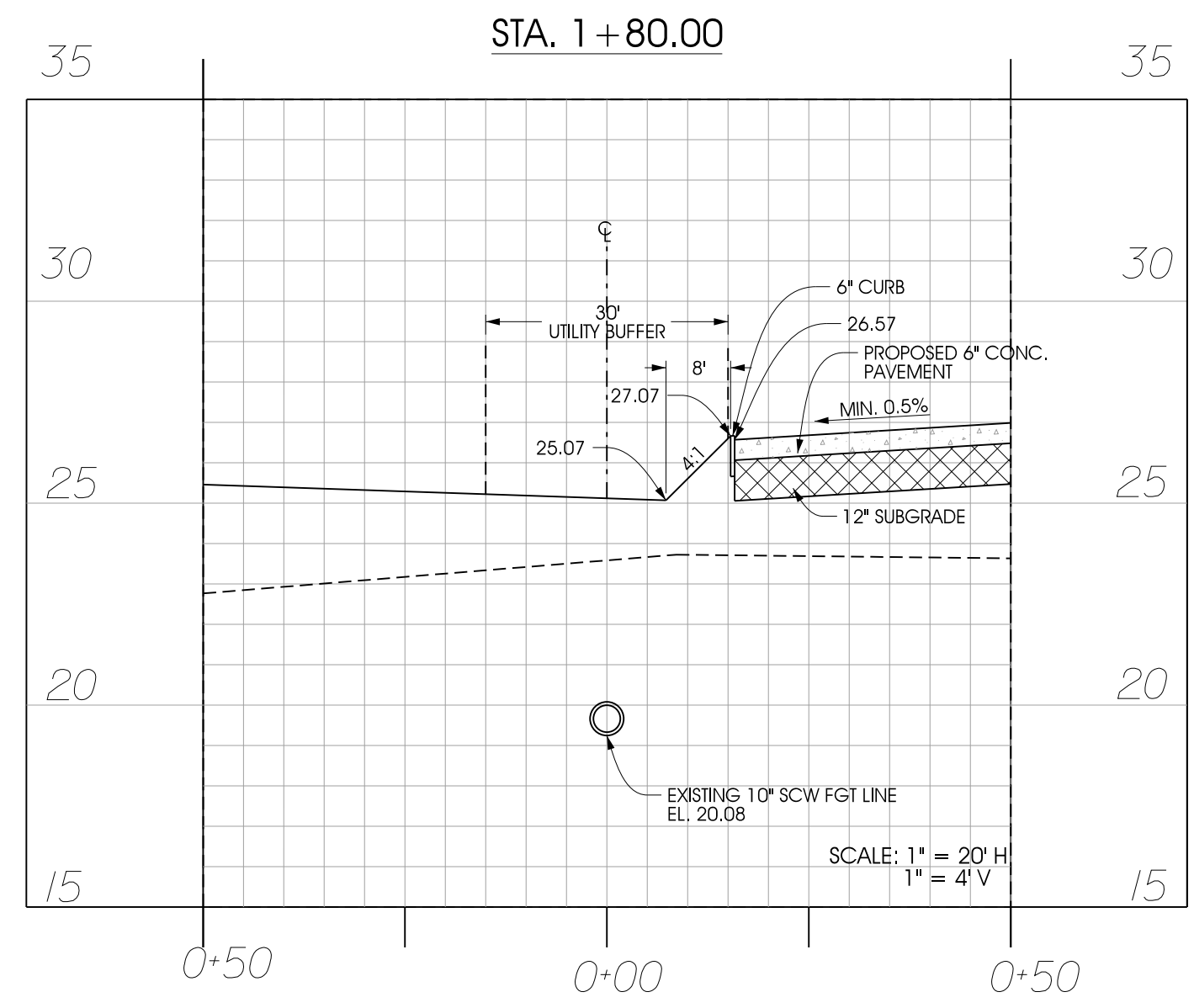
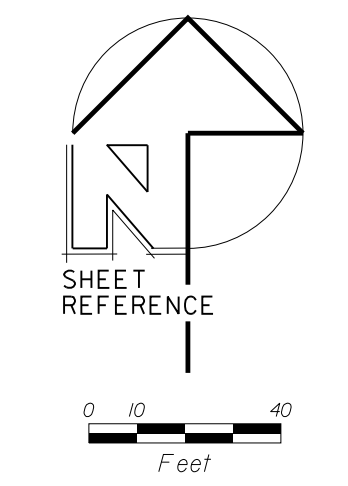
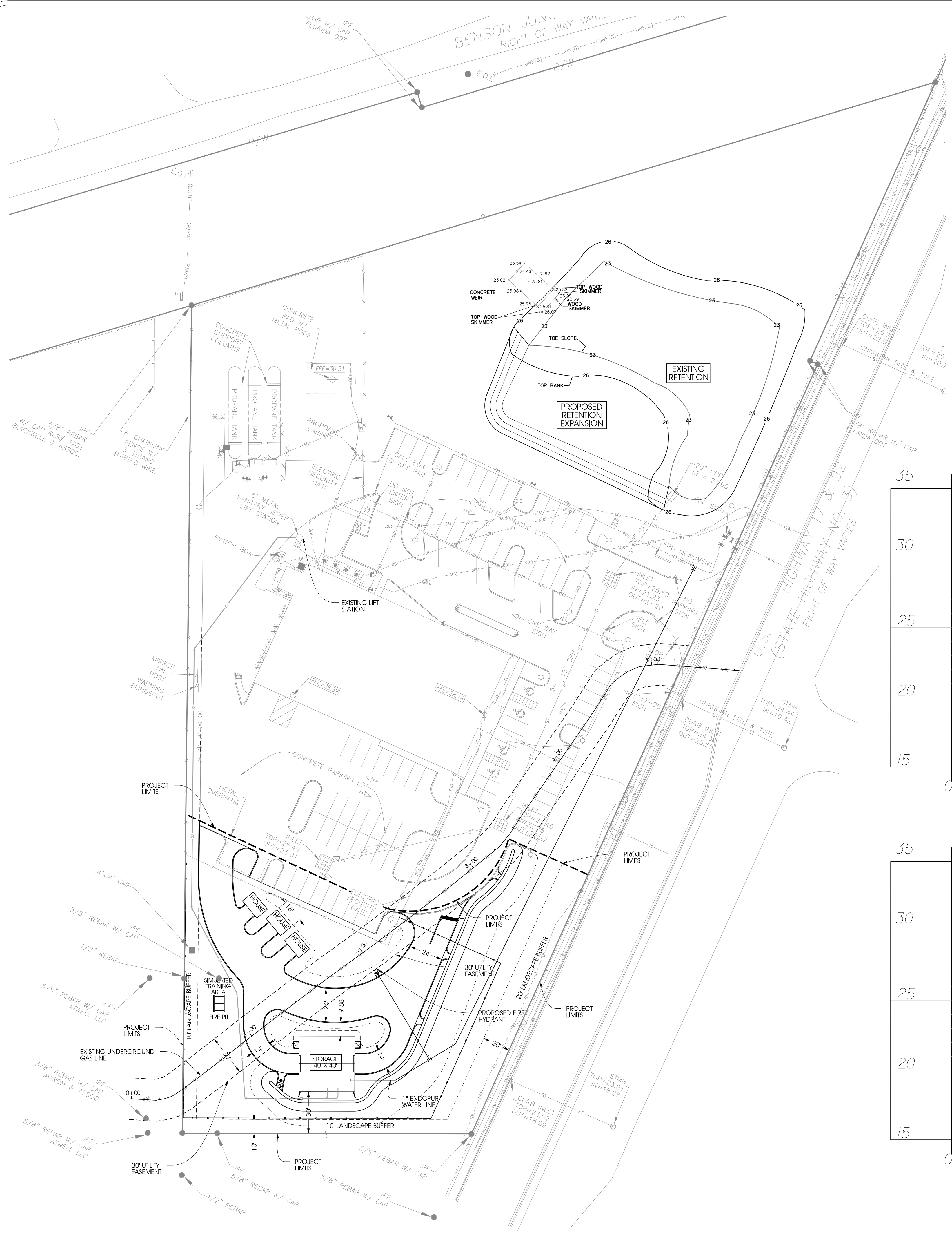






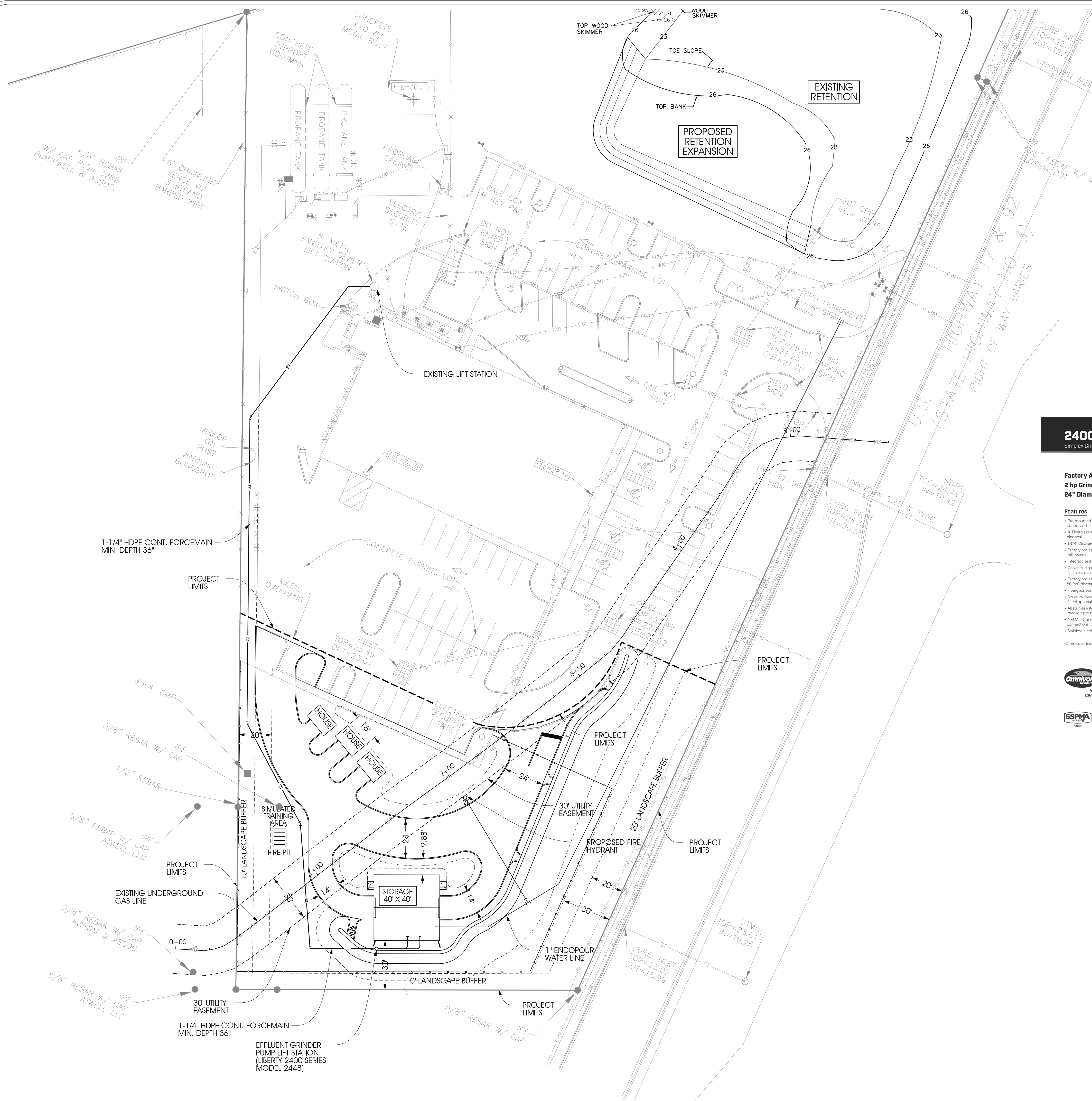






<b>ENGINEERING</b> PROJECT: FLORIDA PUBLIC UTILITIES SAFETY TOWN	<b>PLANNING</b> SHEET TITLE: UTILITY PLAN	<b>DESIGN</b>	<b>PERMITTING</b>	REVISIONS: DATE BY DESCRIPTION
				DATE BY DESCRIPTION
		MICHAEL W. JUTUNIAK, P.E. EMAIL: mwojuniak@epieng.net		SHEET NO. <b>6</b> OF 14

\*\*\*THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY MICHAEL J. WJUTUNIAK, P.E. ON 8/15/2023. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES. UNLESS THE RAISED SEAL HAS BEEN UTILIZED.\*\*\*



**PACKAGE GRINDER PUMP STATION NOTES:**

- 1.) ALL PIPING SHALL HAVE A MINIMUM OF 36" COVER FROM TOP OF PIPE.
- 2.) PIPE SHALL BE SDR35 UNLESS OTHERWISE NOTED.
- 3.) CONNECTIONS ARE TO BE RUBBER COMPRESSION RING, THREADED OR SOLVENT RING
- 4.) INSTALL A #10 GA. COPPER WIRE, ATTACHED TO PIPE BY ADEQUATE ADHESIVE.
- 5.) ALL SEWER FORCE MAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST APPLICABLE STANDARDS.
- 6.) WHERE WATER & SANITARY SEWER FORCE MAINS CROSS WITH LESS THAN 18" VERTICAL CLEARANCE OR THE FORCE MAIN IS ABOVE THE WATER MAIN, THE SANITARY SEWER WILL BE 20 FEET OF PVC PIPE UPGRADED TO WATER MAIN STANDARDS AND PRESSURE TESTED.

**2400-SERIES**  
Simplex Grinder Package

**Liberty Pumps**  
A Family and Employee Owned Company

**Factory Assembled 2 hp Grinder Pumps 24" Diameter System**

**Features**

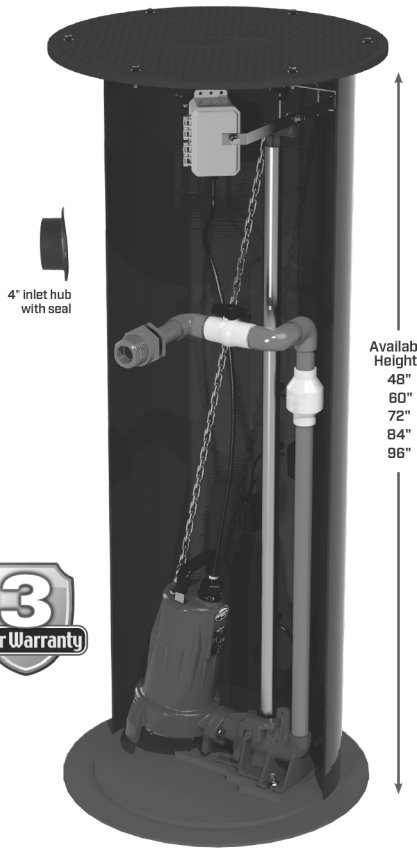
- 4" Fiberglass hub with 4" rubber pipe seal
- Factory pre-assembled guide rail system
- 1.5/4" Discharge
- Integral check valve
- Galvanized guide rail pipe (stainless optional)
- Factory pre-assembled Schedule 80 PVC discharge piping with ball valve
- Fiberglass basin with anti-rotation collar
- Structural foam cover - 1000 lb load rating (steel optional)
- All stainless steel supports and brackets pre-mounted
- NEMA 4x junction box for electrical connections pre-mounted
- Stainless steel chain for pump lift-out

**Available with** LSS of LSSX-Series

SSPMA, NSF, NSF-5

**3 Year Warranty**

**innovate. evolve.**



**2400-Series**

**Features**

- 2 hp Grinder Pump
- Choose from LSS or LSSX-Series pumps
- Available in a wide range of voltages
- 1.5/4" Discharge
- 25' Power cable length (See 2400 Series Reference Complete Pump Specifications)

**Dimensional Data**

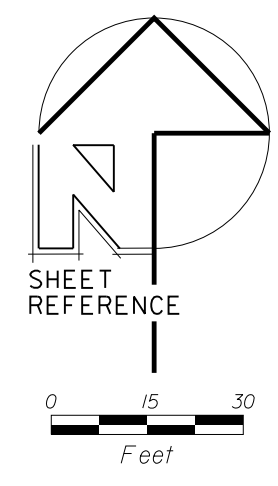
Top View, Side View

**Performance Curve**

Head (ft) vs. Flow (GPM)

**Factory Set Control Levels**

MODEL	OFF LEVEL	ON LEVEL	ALARM LEVEL	VOLUME PER PUMP CYCLE	TOTAL BASIN CAPACITY
2400	9.5' (2.91 m)	10.5' (3.20 m)	21' (6.40 m)	2.5 gal (9.5 l)	18 gal (68 l)
2400L	10.5' (3.20 m)	11.5' (3.50 m)	21' (6.40 m)	2.5 gal (9.5 l)	18 gal (68 l)
2400S	10.5' (3.20 m)	11.5' (3.50 m)	21' (6.40 m)	2.5 gal (9.5 l)	18 gal (68 l)
2400X	10.5' (3.20 m)	11.5' (3.50 m)	21' (6.40 m)	2.5 gal (9.5 l)	18 gal (68 l)
2400XL	10.5' (3.20 m)	11.5' (3.50 m)	21' (6.40 m)	2.5 gal (9.5 l)	18 gal (68 l)
2400XL	10.5' (3.20 m)	11.5' (3.50 m)	21' (6.40 m)	2.5 gal (9.5 l)	18 gal (68 l)



**ENGINEERING** • **PLANNING** • **DESIGN** • **PERMITTING**

REVISIONS: DATE BY DESCRIPTION

SHEET TITLE: SANITARY SEWER PLAN

PROJECT: FLORIDA PUBLIC UTILITIES SAFETY TOWN

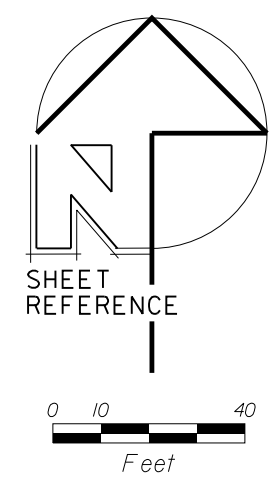
ENGINEERED PERMITS, INC.  
311 SOUTH WOODLAND BLVD.  
SUITE A  
DELAND, FL 32720  
PHONE: 386-734-0800  
FAX: 386-734-8226  
CSST NO. 20039  
EMAIL: epi@epieng.net

MICHAEL W. JUTUNIAK, P.E.  
EPA No. 48000000000000000000

SHEET NO. 7 OF 14

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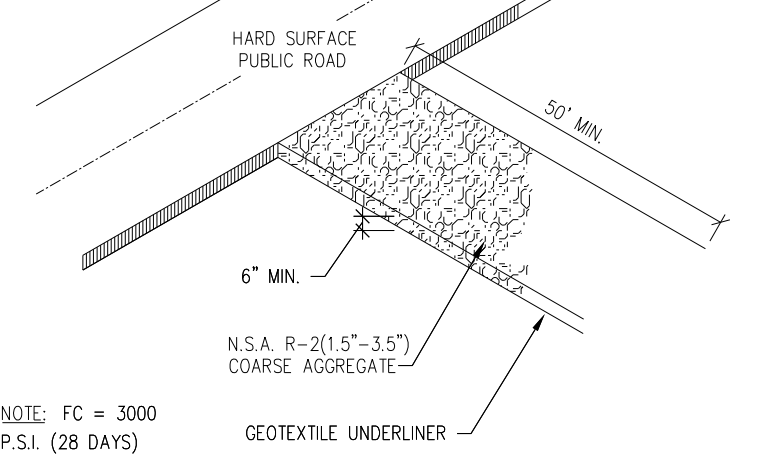
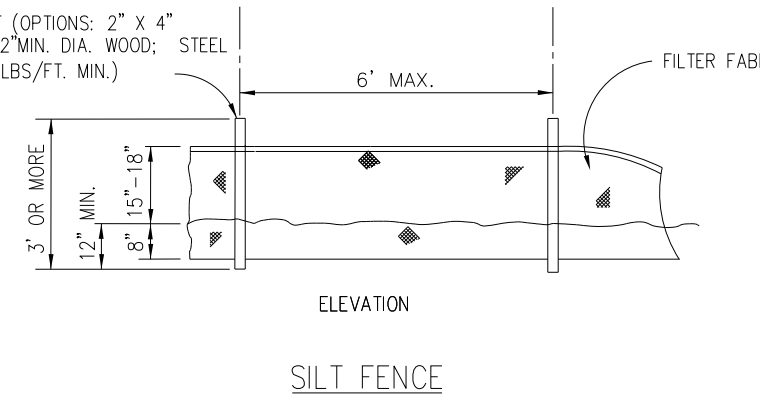
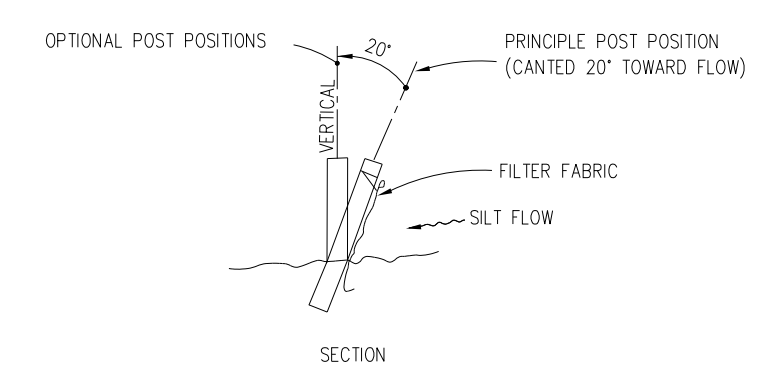


**NOTE:**

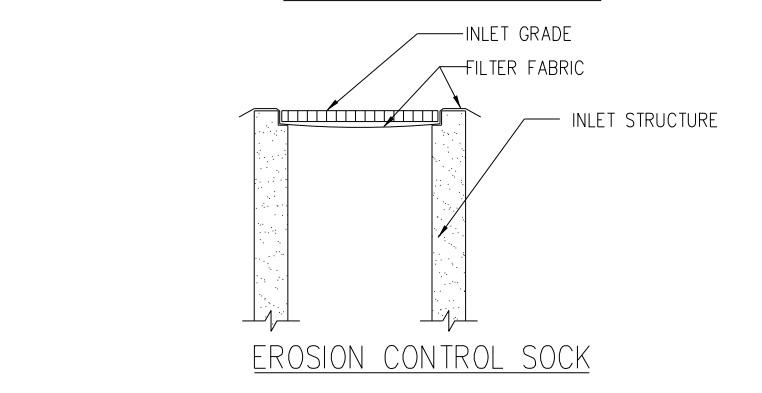
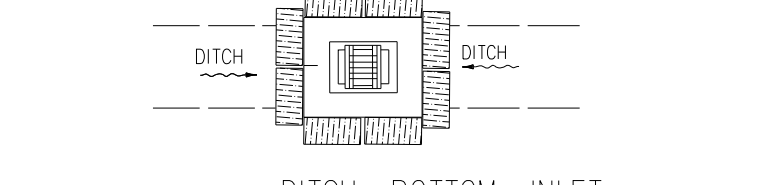
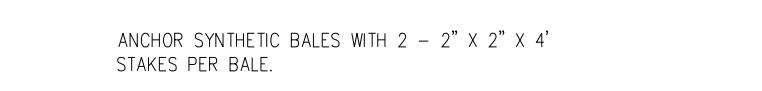
1. AN INSPECTOR, CERTIFIED BY THE STATE OF FLORIDA OR EXPERIENCED IN THE INSTALLATION AND MAINTENANCE OF EROSION CONTROLS, IS REQUIRED TO INSPECT THE EROSION AND SEDIMENTATION CONTROL MEASURES AS SHOWN ON THE APPROVED STORMWATER POLLUTION PREVENTION PLAN. INSPECTION REPORTS ARE TO BE COMPLETED ON THE CITY FORM ONCE EVERY WEEK AND AFTER EVERY RAINFALL EVENT OF 0.50" OR MORE DURING THE CONSTRUCTION PHASE. THESE REPORTS SHALL BE MADE AVAILABLE TO THE CITY AT ANY TIME AND COPIES OF ALL OF THE INSPECTIONS SHALL BE SUBMITTED TO THE CITY PRIOR TO THE ISSUANCE OF A CERTIFICATION OF COMPLETION OR OCCUPANCY.
2. IN ADDITION TO THE CITY'S PERMITS, ALL OTHER APPLICABLE PERMITS SUCH AS SJRWMD, SEMINOLE COUNTY, FDEP, FDOT, ETC. ARE REQUIRED TO BE KEPT ON THE SITE AT ALL TIMES DURING CONSTRUCTION.
3. CALL SUNSHINE AT 811 FOR ALL UTILITY LOCATES PRIOR TO ANY CONSTRUCTION.

**EROSION & SEDIMENT CONTROL NOTES**

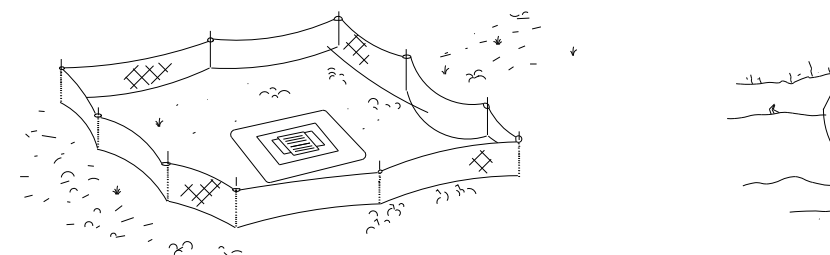
1. ALL CONSTRUCTION ACTIVITIES SHALL INCORPORATE BEST MANAGEMENT PRACTICES (BMP'S) TO CONTROL EROSION, SEDIMENTATION, AND THE POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
2. CONTRACTOR SHALL MINIMIZE DISTURBANCE OF EXISTING VEGETATION, (PARTICULARLY AROUND THE PROJECT PERIMETER) AND ADJACENT EXISTING DRAINAGE PATTERNS TO THE MAXIMUM EXTENT PRACTICAL DURING THE CONSTRUCTION PROCESS.
3. SILT FENCES AND TURBIDITY BARRIERS SHALL BE INSTALLED ON SITE AND APPROVED BY THE CITY PRIOR TO CONSTRUCTION, AND SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR AND CORRECTIVE ACTION TAKEN AS NECESSARY.
4. STORMWATER RETENTION, DETENTION, STORAGE AND CONVEYANCE SYSTEMS MUST BE EXCAVATED TO ROUGH GRADE PRIOR TO BUILDING CONSTRUCTION OR PLACEMENT OF IMPERVIOUS SURFACE WITHIN THE AREA SERVED BY THOSE SYSTEMS. ADEQUATE MEASURES MUST BE TAKEN TO PREVENT SILTATION OF THESE TREATMENT SYSTEMS AND CONTROL STRUCTURES DURING CONSTRUCTION. SILTATION MUST BE REMOVED FROM THE STORMWATER SYSTEM WHEN HALF FULL AND IMMEDIATELY PRIOR TO FINAL GRADING AND GRASSING OF THE PROJECT.
5. CONTRACTOR SHALL SOD ALL SWALES AND STORMWATER FACILITIES IN ACCORDANCE WITH TEMPORARY BMP'S WITHIN 14 DAYS AFTER CONSTRUCTION. THIS IS REQUIRED TO STABILIZE THE SLOPES AND MINIMIZE EROSION.
6. DURING ALL CONSTRUCTION OF THE PERMITTED SYSTEM INCLUDING STABILIZATION AND REVEGETATION OF DISTURBED SURFACES, CONTRACTOR IS RESPONSIBLE FOR THE SELECTION, IMPLEMENTATION, AND OPERATION OF ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED TO RETAIN ALL SEDIMENT ONSITE AND PREVENT VIOLATIONS OF THE WATER QUALITY STANDARDS IN ACCORDANCE WITH THE FLORIDA ADMINISTRATIVE CODE AND PROJECT PERMIT REQUIREMENTS.
7. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN A PROTECTIVE COVER (VEGETATIVE OR SUITABLE ALTERNATIVE) FOR EROSION AND SEDIMENT CONTROL ON ALL LAND SURFACES EXPOSED OR DISTURBED BY CONSTRUCTION OF THE PERMITTED PROJECT, UNLESS MODIFIED BY ANOTHER CONDITION OF THE PERMIT OR OTHERWISE SPECIFIED ON A DISTRICT APPROVED EROSION AND SEDIMENT CONTROL PLAN. THE PROTECTIVE COVER MUST BE INSTALLED WITHIN FOURTEEN (14) DAYS AFTER FINAL GRADING OF THE AFFECTED LAND SURFACE. A PERMANENT VEGETATIVE COVER MUST BE ESTABLISHED WITHIN 60 DAYS OF ITS INSTALLATION. THE PERMITTEE'S REQUIREMENT TO MAINTAIN COVER ON OFFSITE AND ONSITE SURFACES SHALL NOT BE COMPLETE UNTIL AFTER THE WATER MANAGEMENT DISTRICT RECEIVES THE PERMITTEE'S STATEMENT OF COMPLIANCE.
8. AT A MINIMUM, SILT FENCES AND TURBIDITY BARRIERS SHALL BE INSTALLED PER PLAN. ADDITIONAL BMP MEASURES MUST BE TAKEN TO MINIMIZE IMPACTS OF RECEIVING WATERS SUCH AS THE USE OF APPROVED BARRIERS AT INLETS, ADDITIONAL SILT FENCING, SOIL ANTI-TRACKING DEVICES AND SODDING.
9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE PROJECT LIMITS IN COMPLIANCE WITH ALL JURISDICTIONAL PERMIT AND MUNICIPAL REQUIREMENTS.
10. ANY TIME THE CONTRACTOR NEEDS TO SUBMIT A NOTICE OF INTENT TO USE A GENERAL PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES, A COPY OF THE PERMIT SHALL ALSO BE SUBMITTED TO THE MUNICIPAL UTILITIES DEPARTMENT.
11. THE CONTRACTOR SHALL AS A MINIMUM PREPARE AND IMPLEMENT AN EROSION AND SEDIMENT CONTROL PLAN IN ACCORDANCE WITH FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) GUIDELINES.
12. DEWATERING ACTIVITIES SHALL BE APPROVED BY THE UTILITIES DEPARTMENT BEFORE DISCHARGING INTO THE CITY'S M4 SYSTEM (ST-1A NOTE 3).



**CRUSHED STONE CONSTRUCTION EXIT**



**Type III Silt Fence**  
Existing ground, shall be sodded.



**Type III Silt Fence Protection Around Ditch Bottom Inlets.**

Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.

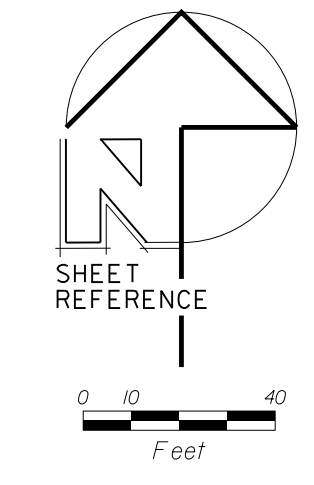
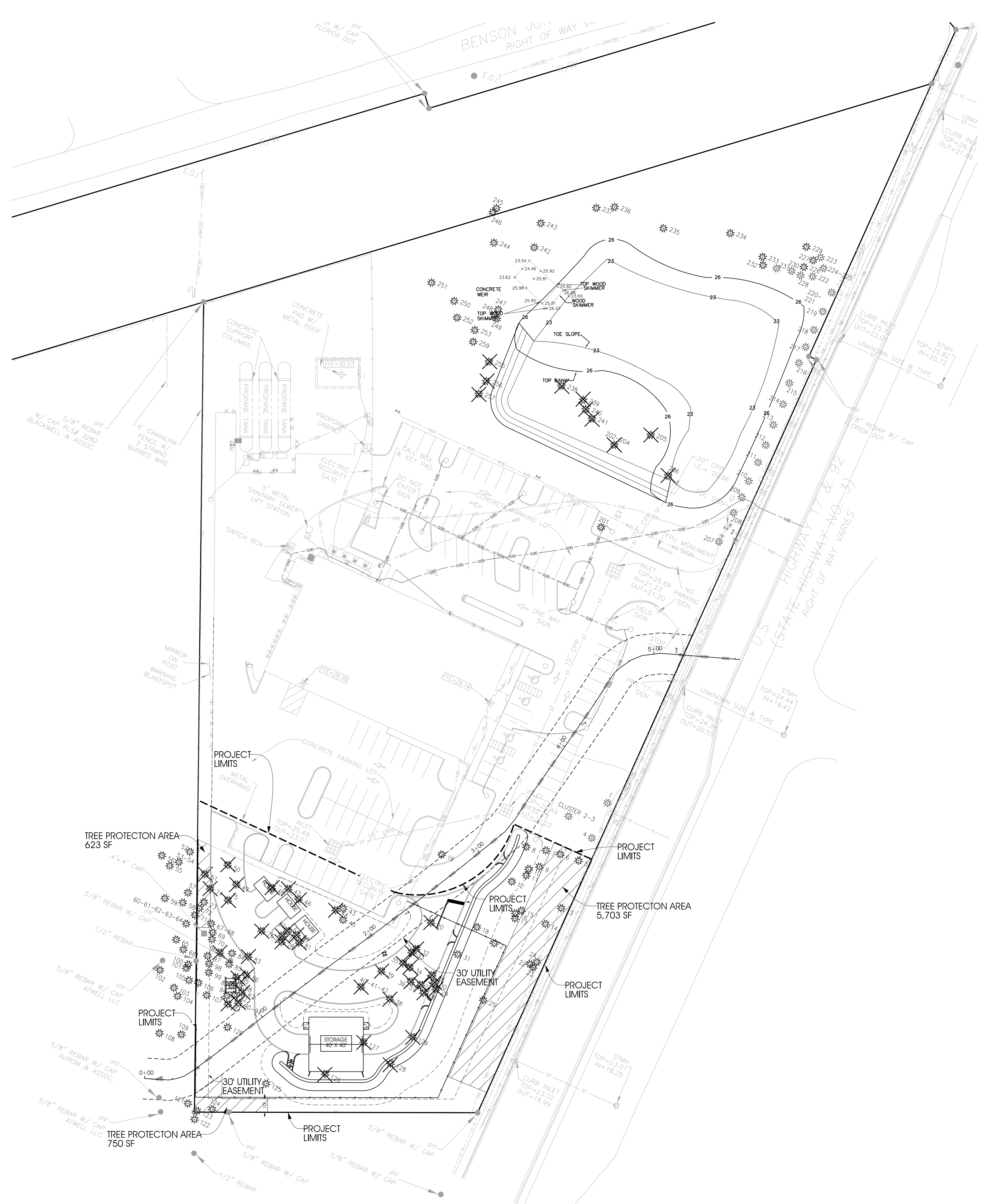
**F.D.O.T. SILT FENCE APPLICATIONS**

N.T.S.

**EROSION CONTROL DETAILS**

<b>ENGINEERING</b> PROJECT: FLORIDA PUBLIC UTILITIES SAFETY TOWN	<b>PLANNING</b> SHEET TITLE: STORMWATER POLLUTION PREVENTION PLAN	<b>DESIGN</b> REVISIONS:	<b>PERMITTING</b>
			SHEET NO. <b>8</b> OF <b>14</b>

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ENGINEERING	PLANNING	DESIGN	PERMITTING
PROJECT: FLORIDA PUBLIC UTILITIES SAFETY TOWN		SHEET TITLE: TREE PROTECTION PLAN	REVISIONS:
DATE: _____		DATE: _____	DATE: _____
DESCRIPTION: _____		DESCRIPTION: _____	DESCRIPTION: _____



MICHAEL W. JUTUNIAK, P.E.  
 EMail: mwojuniak@epieng.net

SHEET NO. 9 OF 14

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Tree ID Number	Tree Type	Inches (DBH)	To Be Removed	Notes
2	Live Oak	13	No	
3	Live Oak	22	No	Specimen Tree
4	Live Oak	13	No	
5	Live Oak	16	No	
6	Crape Myrtle	17	No	
7	Live Oak	14	No	
8	Live Oak	17	No	
9	Live Oak	15	No	
10	Live Oak	8	No	
11	Live Oak	8	No	
12	Live Oak	9	No	
13	Slash Pine	16	No	
14	Live Oak	13	No	
15	Holly	10	No	
16	Live Oak	18	No	Specimen Tree
17	Live Oak	16	No	
18	Live Oak	12	No	
19	Live Oak	14	No	
20	Live Oak	24	Yes	Specimen Tree
21	Laurel Oak	25	No	Specimen Tree
22	Laurel Oak	10	No	
23	Laurel Oak	No	No	4" Not Calculated
24	Laurel Oak	No	No	4" Not Calculated
25	Laurel Oak	21	No	Specimen Tree
26	Laurel Oak	12	Yes	
27	Laurel Oak	27	Yes	
28	Laurel Oak	8	Yes	
29	Laurel Oak	8	Yes	
30	Laurel Oak	11	Yes	
31	Live Oak	12	No	
32	Laurel Oak	14	Yes	
33	Cabbage Palm	14	Yes	
34	Slash Pine	14	Yes	
35	Slash Pine	17	Yes	
36	Live Oak	15	Yes	Specimen Tree
37	Live Oak	15	Yes	
38	Live Oak	30	Yes	Specimen Tree
39	Red Cedar	6	Yes	
40	Live Oak	25	Yes	Specimen Tree
41	Live Oak	24	Yes	
42	Live Oak	25	Yes	Specimen Tree
43	Laurel Oak	10	No	
44	Cabbage Palm	15	No	
45	Cabbage Palm	15	No	
46	Laurel Oak	6	Yes	
47	Cabbage Palm	14	Yes	
48	Laurel Oak	14	Yes	5" Not Calculated
49	Cabbage Palm	15	Yes	
50	Cherry	6	Yes	
51	Cabbage Palm	14	Yes	
52	Laurel Oak	No	No	5 Off Property
53	Laurel Oak	No	No	8 Off Property
54	Laurel Oak	No	No	18 Off Property
55	Slash Pine	No	No	17 Off Property
56	Laurel Oak	No	No	7 Off Property
57	Live Oak	No	No	14 Off Property
58	Laurel Oak	No	No	8 Off Property
59	Cabbage Palm	No	No	15 Off Property
60	Live Oak	No	No	9 Off Property
61	Live Oak	No	No	13 Off Property
62	Live Oak	No	No	16 Off Property
63	Live Oak	No	No	12 Off Property
64	Laurel Oak	No	No	13 Off Property
65	Laurel Oak	No	No	7 Off Property
66	Laurel Oak	No	No	11 Off Property
67	Laurel Oak	12	No	
68	Laurel Oak	13	No	
69	Laurel Oak	6	No	
70	Laurel Oak	7	No	
71	Laurel Oak	16	No	16 Off Property
72	Laurel Oak	15	No	
73	Cabbage Palm	14	No	
74	Cabbage Palm	6	Yes	
75	Cabbage Palm	10	Yes	
76	Chinese Tallow		Yes	Not Calculated
77	Laurel Oak		Yes	5" Not Calculated
78	Laurel Oak	8	Yes	
79	Maple	7	Yes	
80	Maple		Yes	5" Not Calculated
81	Cabbage Palm	14	Yes	
82	Cabbage Palm	14	Yes	
83	Laurel Oak	14	Yes	
84	Laurel Oak		Yes	5" Not Calculated
85	Laurel Oak		No	5" Not Calculated
86	Laurel Oak	10	Yes	
87	Laurel Oak	10	No	
88	Laurel Oak	7	Yes	
89	Laurel Oak	5	Yes	Not Calculated
90	Laurel Oak	6	Yes	
91	Laurel Oak	8	Yes	
92	Laurel Oak	8	Yes	
93	Laurel Oak	8	Yes	
94	Laurel Oak	6	Yes	
95	Laurel Oak	11	Yes	
96	Slash Pine	20	Yes	
97	Slash Pine	14	No	
98	Slash Pine	22	No	
99	Slash Pine	9	No	
100	Laurel Oak	No	No	7 Off Property
101	Laurel Oak	No	No	9 Off Property
102	Slash Pine	No	No	18 Off Property
103	Slash Pine	No	No	20 Off Property
104	Cabbage Palm	No	No	15 Off Property
105	Laurel Oak	No	No	6 Off Property
106	Laurel Oak	10	No	
107	Live Oak	8	No	
108	Slash Pine	No	No	13 Off Property
109	Slash Pine	No	No	14 Off Property
110	Laurel Oak	14	No	
111	Laurel Oak	9	No	
112	Laurel Oak	10	No	
113	Laurel Oak	9	No	
114	Laurel Oak	7	No	
115	Laurel Oak	34	No	Specimen Haz.
116	Laurel Oak	46	No	Specimen Haz.
117	Laurel Oak	6	No	
118	Laurel Oak	6	No	
119	Laurel Oak	22	No	Specimen Tree
120	Laurel Oak	6	No	
121	Laurel Oak	No	No	Off Property
122	Laurel Oak	No	No	Off Property
123	Laurel Oak	6	No	
124	Chatham Oak	6	No	
125	Laurel Oak	6	No	
126	Laurel Oak	6	Yes	
127	Laurel Oak	6	Yes	
128	Chatham Oak	6	Yes	
129	Laurel Oak	6	Yes	

Tree ID Number	Tree Type	Inches (DBH)	To Be Removed	Notes
201	Live Oak	18	No	Specimen Tree
202	Live Oak	15	No	
203	Live Oak	16	Yes	
204	Live Oak	18	Yes	
205	Live Oak	19	Yes	Specimen Tree
206	Slash Pine		Yes	
208	Crape Myrtle	7 Stems	No	Average DBH 3"
209	Crape Myrtle	3	No	
210	Sweet Gum	9 Stems	No	Average DBH 2"
211	Crape Myrtle	8 Stems	No	
212	Sweet Gum	15	No	
213	Crape Myrtle	8 Stems	No	Average DBH 3"
214	Sweet Gum	7	No	
215	Crape Myrtle	7 Stems	No	Average DBH 3"
216	Sweet Gum	8	No	
217	Crape Myrtle	8 Stems	No	Average DBH 2"
218	Sweet Gum	7	No	
219	Crape Myrtle	3 Stems	No	Average DBH 2"
220	Sweet Gum	7 Stems	No	5" Not Calculated
221	Crape Myrtle	7 Stems	No	Average DBH 2"
222	Cabbage Palm	13	No	
223	Cabbage Palm	13	No	
224	Live Oak	7	No	
225	Live Oak	6	No	
226	Live Oak	7	No	
227	Cabbage Palm	12	No	
228	Cabbage Palm	13	No	
229	Cabbage Palm	13	No	
230	Live Oak	7	No	
231	Cabbage Palm	14	No	
232	Live Oak	8	No	
233	Cabbage Palm	13	No	
234	Live Oak (Historic)	44	No	Specimen Tree (H)
235	Live Oak	23	No	Specimen Tree
236	Cabbage Palm	13	No	
237	Cabbage Palm	14	No	
238	Cabbage Palm	13	Yes	
239	Slash Pine	12	Yes	
240	Slash Pine	16	Yes	
241	Slash Pine	14	Yes	
242	Loblolly Pine	18	No	
243	Cabbage Palm	14	No	
244	Loblolly Pine	6	No	
245	Sweet Gum	6	No	
246	Sweet Gum	9	No	
247	Loblolly Pine	16	No	
248	Cabbage Palm	14	No	
249	Loblolly Pine	12	No	
250	Loblolly Pine	16	No	
251	Loblolly Pine	10	No	
252	Live Oak	7	No	
253	Loblolly Pine	6	No	
254	Cabbage Palm	14	No	
255	Cabbage Palm	12	Yes	
256	Loblolly Pine	12	Yes	
257	Loblolly Pine	18	Yes	

Total Inches = 1862 All Trees In Project Area  
 Total Inches = 1157 To Remain In Project Area  
 Total Inches = 705 To Be Removed In Project Area  
 Total Specimen Tree In Project Area = 12 ST  
 Total Specimen Tree In Project Area To Be Removed = 7 ST  
 Total Specimen Tree In Project Area To Remain = 5 ST

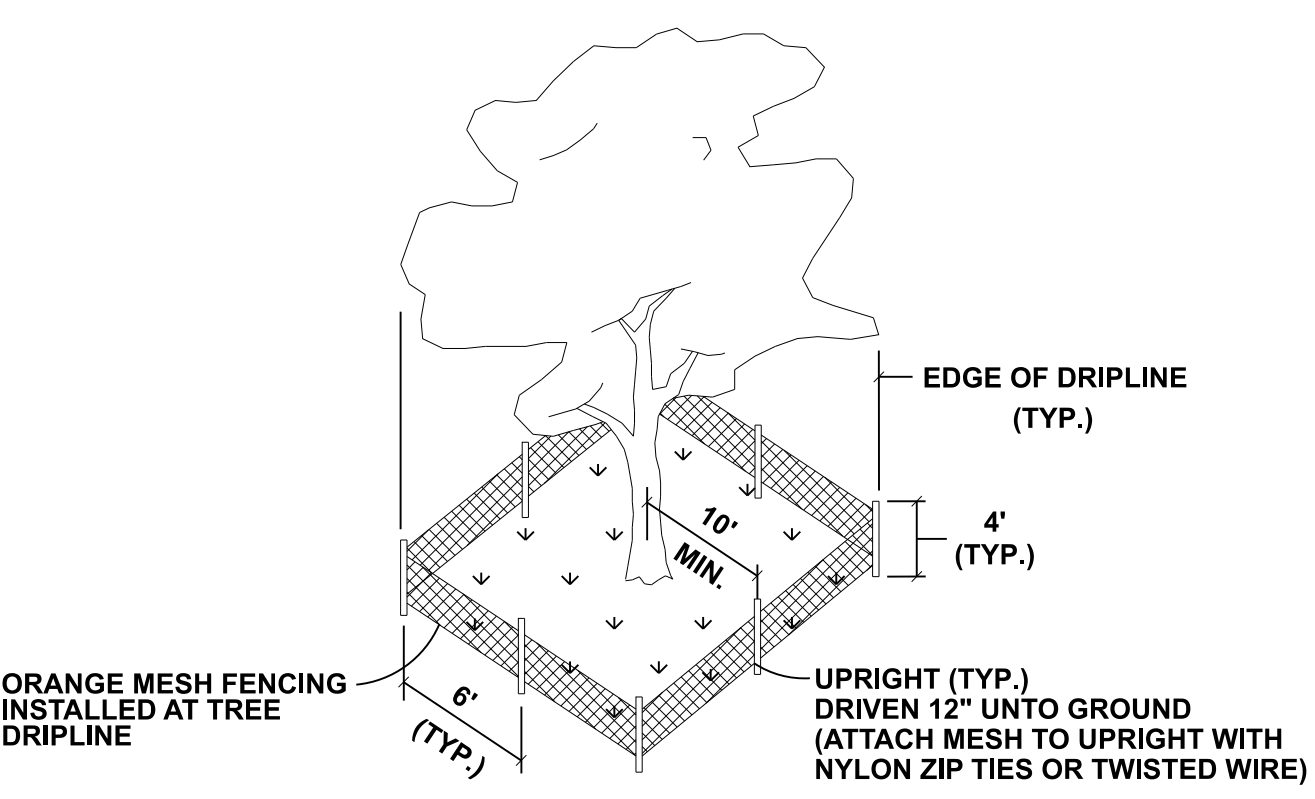
Note:  
 1. All plants shall be at least Grade 1 from the Florida Grades and Standards for Nursery Plants, Latest Edition.

TREE REMOVAL AND REPLACEMENT CALCULATIONS IN PROJECT AREA

DIAMETER	QUANTITY TO BE REMOVED	AREA (SQ) PER TREE	TOTAL X-SECT SQ IN PER TREE	15% REPLACEMENT
6"	8	28.26	226.08	33.91
7"	1	38.47	38.47	5.77
8"	3	50.24	150.72	22.61
10"	3	78.50	235.50	35.33
11"	3	94.99	284.97	42.75
12"	4	113.04	452.16	67.82
13"	1	132.67	132.67	19.90
14"	9	153.86	1384.74	207.71
15"	3	176.63	529.89	79.48
16"	2	200.96	401.92	60.29
17"	1	226.87	226.87	34.03
18"	2	254.34	508.68	76.30
19"	2	283.39	566.78	85.02
20"	1	314.00	314.00	47.10
24"	1	452.16	452.16	67.82
25"	2	490.63	981.26	147.19
27"	1	572.27	572.27	85.84
30"	1	706.50	706.50	105.98
44"			8052.60	1224.85
TOTAL REPLACEMENT REQUIRED = 1224.85 (CROSS SECTION SQ IN)				

CROSS SECTIONAL RETAINED IN PROJECT AREA

DIAMETER	QUANTITY TO BE RETAINED	AREA (SQ) PER TREE	TOTAL X-SECT SQ IN PER TREE
6"	9	28.26	254.34
7"	9	38.47	346.23
8"	5	50.24	251.20
9"	5	63.59	317.95
10"	6	78.50	471.00
11"	4	94.99	379.96
12"	5	113.04	565.20
13"	12	132.67	1592.04
14"	11	153.86	1692.46
15"	1	176.63	176.63
16"	6	200.96	1205.76
17"	1	226.87	226.87
18"	4	254.34	1017.36
19"	1	283.39	283.39
21"	1	346.19	346.19
22"	3	379.94	1139.82
23"	1	415.27	415.27
25"	1	490.63	490.63
34"	1	907.46	907.46
44"	1	1519.76	1519.76
46"	1	1661.06	1661.06
88			15260.58
TOTAL RETAINED = 15260.58 (CROSS SECTION SQ IN)			



TYP. TREE PROTECTION DETAIL  
N.T.S.

TREE BARRICADES ARE REQUIRED AROUND ALL TREES WHICH HAVE BEEN DESIGNATED ON THE SITE PLAN TO BE RETAINED AND PROTECTED. PRIOR TO ANY CLEARING OR CONSTRUCTION ACTIVITY OCCURRING ON THE SITE, TREE BARRICADES SHALL BE CONSTRUCTED BY THE CONTRACTOR AND APPROVED BY THE CITY. TREE BARRICADES SHALL BE PLACED AT THE EDGE OF THE DRIPLINE OR A MINIMUM OF 10' FROM THE TRUNK OF THE TREE, WHICH EVER IS GREATER.

FOR THE BARRIER THE CITY RECOMMENDS ORANGE SAFETY BARRICADE FENCING.

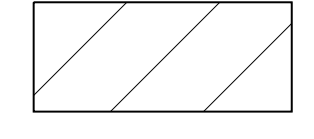
NOTE: EXISTING TREES IN LANDSCAPE BUFFER SHALL ALSO BE PROTECTED.

EXISTING TREES / TREE PROTECTION:

- 1) ALL EXISTING TREES TO BE PRESERVED WILL BE PROTECTED DURING CONSTRUCTION
- 2) PROTECTIVE BARRICADES SHALL BE CONSTRUCTED PRIOR TO CLEARING AROUND ALL TREES DESIGNATED TO REMAIN.
- 3) THESE BARRICADES SHALL BE LOCATED AS CLOSE AS POSSIBLE TO THE DRIPLINE, OR A MINIMUM OF 10' FROM THE DRIPLINES OF THE TREES, AND SHALL BE APPROXIMATELY FOUR FEET IN HEIGHT. THE DRIPLINE IS CALCULATED AT 1" OF DIAMETER PER INCH OF DBH CALIPER. REFER TO PLANS FOR DBH OF EXISTING TREES.
- 4) THE BARRICADE SHOULD BE RIGID AND STURDY ENOUGH TO SURVIVE THE CONSTRUCTION PERIOD.
- 5) ABSOLUTELY NO FILL, BUILDING MATERIALS, TRASH, OR OTHER OBJECTS SHALL BE PLACED INSIDE THESE BARRIERS. NO EQUIPMENT WILL BE PARKED OR STORED INSIDE THESE BARRIERS. IF FILL IS DEPOSITED ADJACENT TO THESE AREAS, A SUITABLE TEMPORARY OR PERMANENT RETAINING STRUCTURE SHALL BE CONSTRUCTED TO PREVENT SILTATION OF THE BARRICADED AREA.
- 6) CONTRACTOR IS RESPONSIBLE FOR MAINTAINING PRESERVED TREES DURING CONSTRUCTION.

TREE PROTECTION AREA

TREE PROTECTION AREA (15% REQUIRED)  
 PROJECT AREA 47,043 SF X 15% = 7,057 SF REQUIRED  
 7,076 SF PROVIDED (15.04% OF TOTAL TREE AREA)



NOTE: EXISTING TREES TO REMAIN UNLESS OTHERWISE NOTED

- Indicates an existing tree to remain
- ✕ Indicates an existing tree to be removed
- ⊕ Indicates radius of Specimen tree

ENGINEERING • PLANNING • DESIGN • PERMITTING

REVISIONS: DATE BY DESCRIPTION

SHEET TITLE: TREE PROTECTION PLAN

PROJECT: FLORIDA PUBLIC UTILITIES SAFETY TOWN

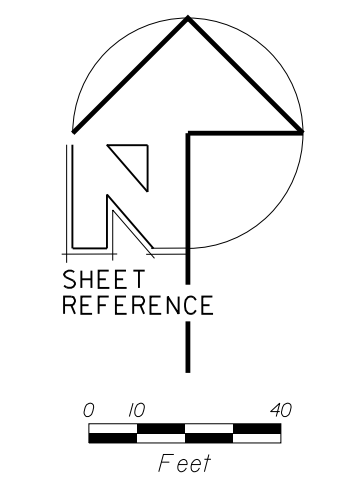
EPI ENGINEERED PERMITS, INC. 311 SOUTH WOODLAND BLVD. SUITE A BELLEVILLE, FL 32720 PHONE: 386-734-0800 FAX: 386-734-8226 CERT. NO. 20598 EMAIL: epi@epieng.net

MICHAEL W. JUTUNIAK, P.E. EMail: mwgjutuniak@epieng.net

SHEET NO. 10 OF 14

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### LED AREA LIGHTS - CHALLENGER<sup>®</sup> MEDIUM (XCHM3)

**LED AREA LIGHTS - CHALLENGER<sup>®</sup> MEDIUM (XCHM3)**

**GENERAL NOTES:**

- 1. All areas enclosed within the light fixture footprint and not power fed shall have and not be connected to any other electrical system.
- 2. All areas enclosed within the light fixture footprint shall have and not be connected to any other electrical system.
- 3. All areas enclosed within the light fixture footprint shall have and not be connected to any other electrical system.

**LED AREA LIGHTS - CHALLENGER<sup>®</sup> MEDIUM (XCHM3)**

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Light Type	Beam Angle	Power (W)	Output (lm)	Beam Diameter (ft)	Beam Diameter (in)
4000K	24°	100	10000	1.0	12.0
4000K	36°	100	15000	1.5	18.0
4000K	48°	100	20000	2.0	24.0
4000K	60°	100	25000	2.5	30.0
4000K	72°	100	30000	3.0	36.0
4000K	84°	100	35000	3.5	42.0
4000K	96°	100	40000	4.0	48.0
4000K	108°	100	45000	4.5	54.0
4000K	120°	100	50000	5.0	60.0

Light Type	Beam Angle	Power (W)	Output (lm)	Beam Diameter (ft)	Beam Diameter (in)
4000K	24°	100	10000	1.0	12.0
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4000K	60°	100	25000	2.5	30.0
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4000K	84°	100	35000	3.5	42.0
4000K	96°	100	40000	4.0	48.0
4000K	108°	100	45000	4.5	54.0
4000K	120°	100	50000	5.0	60.0

### Small Commercial Wall (SSW)

LED Wall Light

**OVERVIEW**

- Light Type: SSW
- Beam Angle: 24°
- Power (W): 23
- Output (lm): 2300
- Beam Diameter (ft): 1.0
- Beam Diameter (in): 12.0

**FEATURES & SPECIFICATIONS**

- Premium engineered IP65-rated outdoor-rated enclosure delivers IES Type 1 (or 4) (FT) distribution.
- Available in 5000K & 4000K color temperatures per ANSI C78.777.
- Premium engineered IP65-rated outdoor-rated enclosure delivers IES Type 1 (or 4) (FT) distribution.
- Available in 5000K & 4000K color temperatures per ANSI C78.777.

**QUICK LINKS**

- Ordering Guide
- Performance
- Photometrics
- Dimensions

**WARRANTY**

- LSI luminaires carry a 5-year limited warranty.

### Small Commercial LED Wall Light

**ORDERING GUIDE**

Light Type	Beam Angle	Power (W)	Output (lm)	Beam Diameter (ft)	Beam Diameter (in)
4000K	24°	23	2300	1.0	12.0
4000K	36°	23	3450	1.5	18.0
4000K	48°	23	4600	2.0	24.0
4000K	60°	23	5750	2.5	30.0
4000K	72°	23	6900	3.0	36.0
4000K	84°	23	8050	3.5	42.0
4000K	96°	23	9200	4.0	48.0
4000K	108°	23	10350	4.5	54.0
4000K	120°	23	11500	5.0	60.0

**PERFORMANCE**

Light Type	Beam Angle	Power (W)	Output (lm)	Beam Diameter (ft)	Beam Diameter (in)
4000K	24°	23	2300	1.0	12.0
4000K	36°	23	3450	1.5	18.0
4000K	48°	23	4600	2.0	24.0
4000K	60°	23	5750	2.5	30.0
4000K	72°	23	6900	3.0	36.0
4000K	84°	23	8050	3.5	42.0
4000K	96°	23	9200	4.0	48.0
4000K	108°	23	10350	4.5	54.0
4000K	120°	23	11500	5.0	60.0

QTY.	LIGHT NUMBER	VENDOR	MODEL	WATTAGE	TYPE	COLOR	VOLTAGE	FINISH	MOUNTING	MOUNTING HEIGHT	OPTIONS	EPA
3	A	LSI LIGHTING	SSW-SMALL COMMERCIAL WALL	23	LED	5000K	UE	BRZ	WALL	12'	N/A	
1	B	LSI LIGHTING	XCHM3-FT-LED (SINGLE)	187	LED	5000K	UE	BRZ	POLE	16'	N/A	

ENGINEERING • PLANNING • DESIGN • PERMITTING

SHEET TITLE: LIGHTING PLAN

REVISIONS:

DATE	BY	DESCRIPTION

PROJECT: FLORIDA PUBLIC UTILITIES SAFETY TOWN



MICHAEL W. WOLUNIAK, P.E.  
EPA, Inc. mww@epaeng.net

SHEET NO. 11 of 14

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**GENERAL LANDSCAPE & IRRIGATION NOTES:**

- All landscaping shall be installed according to accepted commercial planning procedures. In the event of variation between the quantities shown on the plant list and the plans, the plans shall control. Mulch and sod quantity take-offs are the responsibility of the landscape contractor.
- No plant material substitutions shall be permitted or will be accepted without the written consent of the Landscape Architect.
- Fertilizer shall be applied to all planting areas at the rate of 1 1/2 lbs of actual nitrogen, 1 1/2 lbs. of actual phosphorus, and 1 1/2 lbs. of actual potash per 1000 square feet of planting area.
- All plantings shall be backfilled with a mixture of 2/3 of the best of the on-site soil and 1/3 nursery potting soil mix.
- It is the responsibility of the landscape contractor to prevent plants from falling or being blown over. The landscape contractor shall straighten, repair, and/or replace any plants damaged by a failure to properly stake or guy any trees on-site, at his/her own expense.
- All sod must be placed with staggered joints, tightly butted, with no gaps or overlapping pieces.
- All planting beds shall be top dressed with 2 1/2" - 3" of pine bark nugget mulch.
- The landscape contractor shall remove his/her excess waste material from the project site on a daily basis.
- Maintenance shall be the responsibility of the landscape contractor until such time as final acceptance of the project has been granted by the Landscape Architect or the Owners representative. Maintenance shall include watering, mulching, weeding, pruning, replacement of dead and dying plants, cutting sod and any other operation necessary for the proper care of these plants.
- All trees, shrubs, ground covers and sod shall be guaranteed for one year from date of substantial completion of this project. Replacement of material shall be guaranteed for an additional ninety days.
- The landscape contractor shall not be responsible to honor any warranty for the loss of any trees, shrubs, ground covers, or sod caused by flooding, fire, freezing temperatures, winds over 50 miles per hour, lightning or any other natural disaster. The landscape contractor is also not responsible for any damage caused by vandalism or negligence on the part of the owner.
- All plant material shall be Number 1 or better in quality as described in Florida Grades and Standards for Nursery Plants, Florida Department of Agriculture, most current addition.
- The Landscape Architect shall have the right, at any time during these operations to reject any and all plant material and workmanship which in his/her opinion does not meet the requirements of these specifications.

**GENERAL IRRIGATION NOTES:**

- Upon the city's approval of the landscape plans for the project, irrigation plans will be developed and submitted to the City for their review and approval.
- All landscaped areas are to receive 100% head-to-head coverage with zero overspray onto impervious areas. All turf and shrub zones are to be 100% separated per local codes. This irrigation system will be a 2-wire decoder system utilizing a smart controller and weather station for automatic shut-off during periods of rainfall.
- The work shall be executed in a manner to avoid conflicts with utilities and other elements of construction, including landscape materials.
- The irrigation system shall be installed in accordance with the city-approved plans, system specifications and all contract documents. In any event, the contractor shall comply with all current local codes, ordinances and regulations.

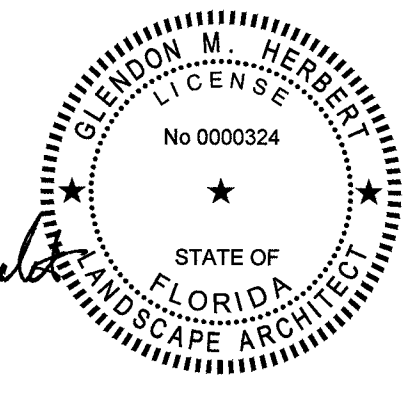


U.S. HIGHWAY 17 & 92  
STATE HIGHWAY NO. 3)

**PLANT LIST**

TREES AND PALMS				
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE
AR	3	Acer rubrum	Red Maple	10' - 12' OA, 2" calp.
LI	20	Lagerstroemia indica 'Muskogee'	Lavender Crape Myrtle	10-12"; min. 3 stems w/2.5" calp.
QV	9	Quercus virginiana	Live Oak Tree	15' ht., 3" calp. @ dbh
SHRUBS AND GROUNDCOVERS				
HEM	143	Hemerocallis spp.	Daylily	1 gal. 12"-15" sprd. @ 24" o.c.
IA	4	Ilex attenuata 'Eagleston'	Eagleston Holly	15 gal. 5'-6" x 3' sprd.
MC	174	Muhlenbergia capillaris	Pink Muhly Grass	3 gal., 24"-30" @ 36" o.c.
MC2	50	Muhlenbergia capillaris	Pink Muhly Grass	3 gal., 24"-30" @ 30" o.c.
PS	8	Philodendron selloum	Split-leaf Philodendron	3 gal. 4" sprd. @ 4' o.c.
PTV	21	Pittosporum tobira 'Variegata'	Variegated Pittosporum	3 gal. 18"-24" sprd. @ 36" o.c.
RI	70	Rhaphiolepis indica	Indian Haw thorne	3 gal. 12"-15" sprd. @ 24" o.c.
SA	42	Schefflera actinophylla	Schefflera	3 gal., 24"-30" sprd. @ 36" o.c.
TV	456	Tulbaghia violacea	Society Garlic	1 gal. 12"-15" sprd. @ 24" o.c.
VO	182	Virburnum odoratissimum	Sweet Viburnum	3 gal. 24" x 24" @ 36" o.c.
Sod	25,900 sf	St Augustine	Contractor to verify quantity	
MULCH	45 CY	Cypress Mulch	Contractor to verify quantity	

8/17/23



**GLENN HERBERT**  
landscape architect  
431 Sweet Bay Avenue  
New Smyrna Beach, FL 32168  
386-235-5078  
glennherbert76@gmail.com

ENGINEERING • PLANNING • DESIGN • PERMITTING

PROJECT: FLORIDA PUBLIC UTILITIES

SHEET TITLE: LANDSCAPE PLAN

REVISIONS:

DATE	DESCRIPTION	DATE	BY	DESCRIPTION

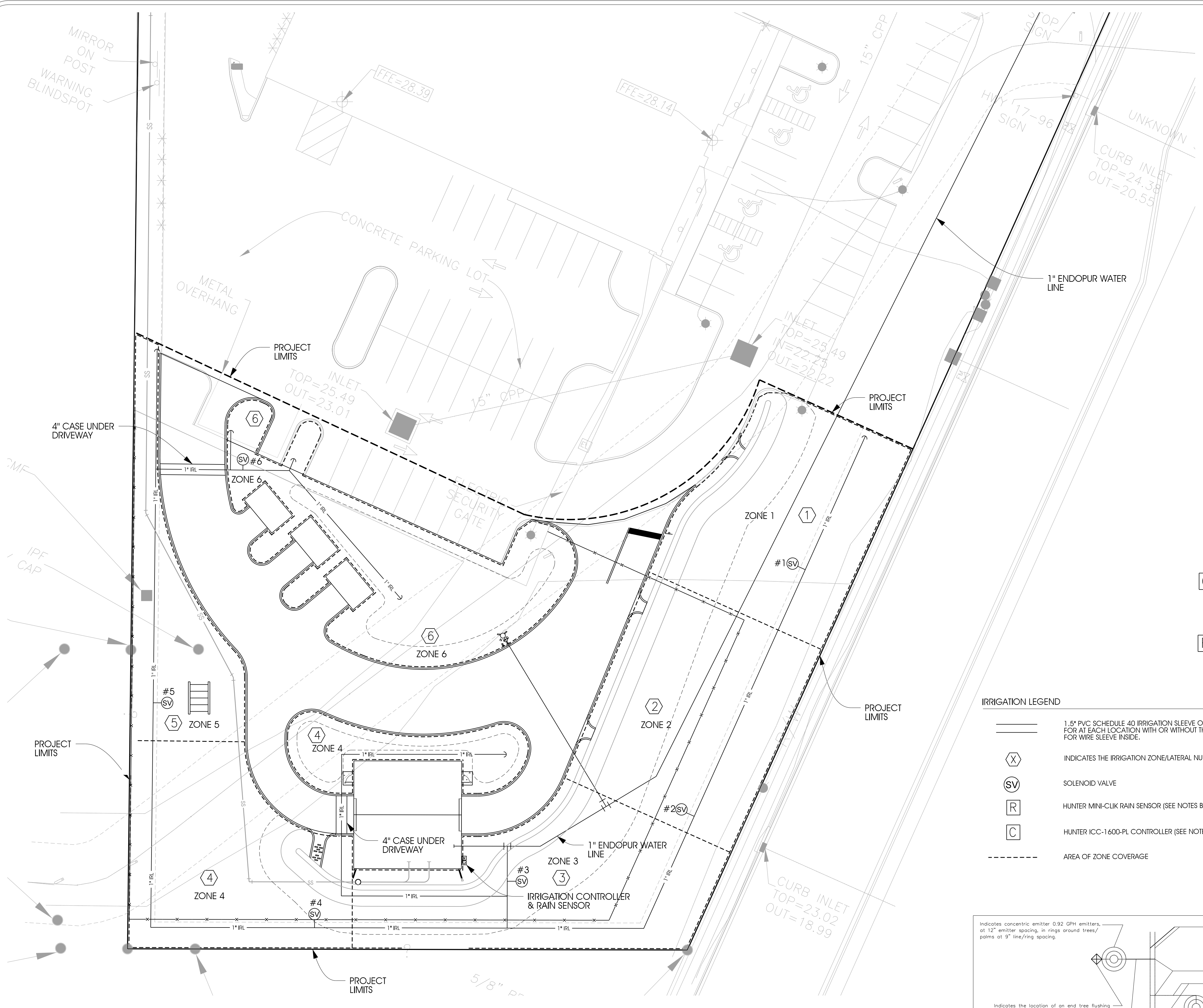
**EPI**  
ENGINEERED PERMITS, INC.  
311 SOUTH WOODLAND BLVD.  
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P.E. NO. 60934  
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SHEET NO. 13 of 14

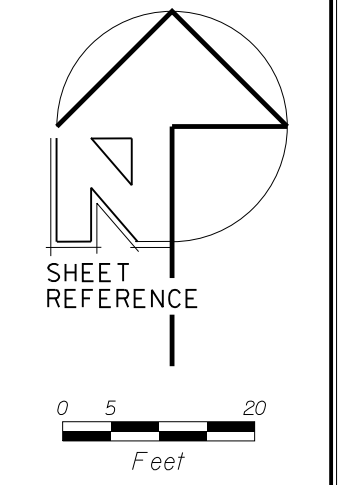
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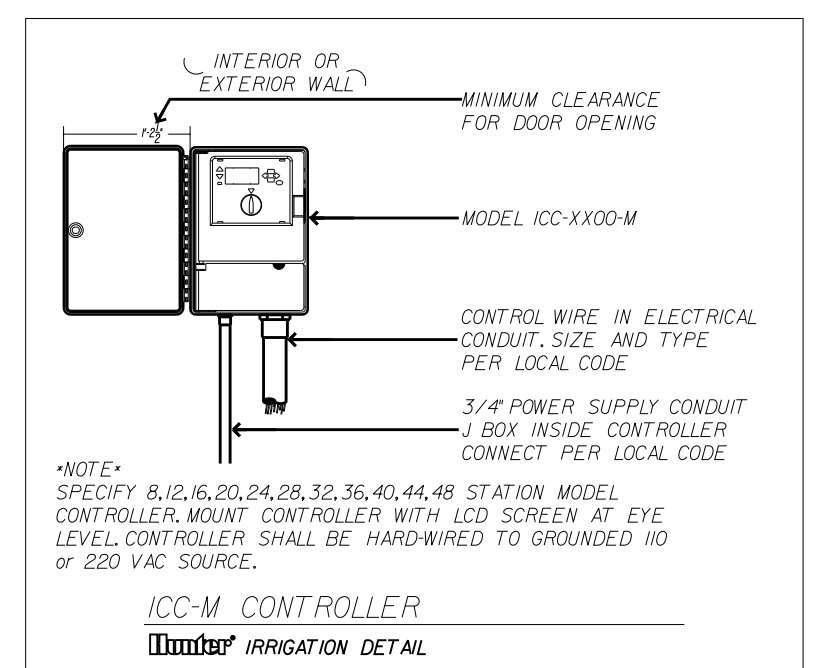
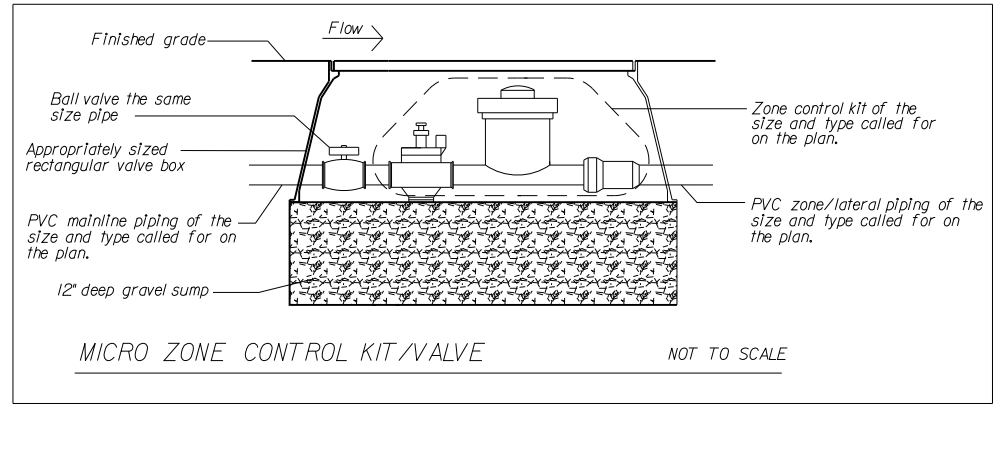
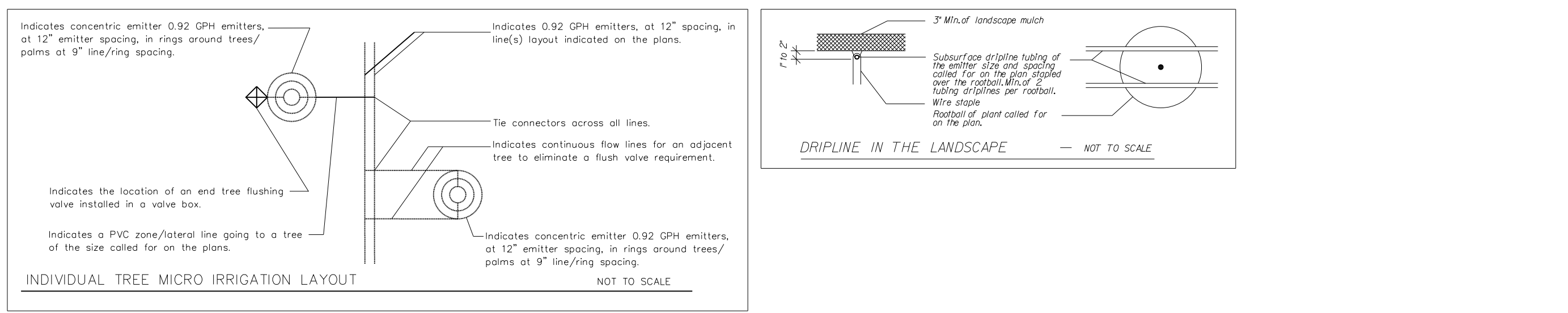
IRRIGATION NOTES

1. All PVC piping running under driveways, roads, buildings, or other site paved areas shall be sleeved in an appropriately sized schedule 40 PVC sleeving with a minimum of 24" of cover under vehicular use areas and 18" of cover under non-vehicular use areas.
2. The Irrigation and/or general contractor shall refer to the landscaping and engineering plans, etc. when trenching for irrigation piping, wiring, etc. to avoid trees, shrubs, structures, utilities, etc.
3. All mainline piping shall be buried to a depth to have a minimum cover of 18". All zone/lateral piping shall be buried to a depth to have a minimum cover of 14". Any micro/drip emitter lines shall be buried to a depth to have a minimum cover of 1"-3" below the bottom of any mulched areas.
4. The Irrigation and/or general contractor shall individually set each irrigation controller station to apply a maximum total of one inch of water a week in each zone/lateral per local plant evapo-transpiration rates and site soil conditions after the initial watering in period.
5. Should any Irrigation discrepancy, problem, etc. arise, it shall be brought to the attention of the Irrigation and/or general contractor, the Owner (or his agent), and the landscape architect of record for a decision before proceeding with the project irrigation work.
6. The Irrigation and/or general contractor shall comply with all local, State, etc., Irrigation codes, ordinances, etc., and obtain all permits, licenses, etc., necessary to install the project irrigation system as designed.
7. The Irrigation and/or general contractor shall coordinate his/her work with all other project contractors to assure efficient and timely completion of the total project work.
8. The Irrigation and/or general contractor shall be responsible for providing all labor, equipment, and new system materials in the performance of the total project irrigation work.
9. All project irrigation work shall be done under the direct supervision of a knowledgeable and experienced Irrigation Foreman, and by knowledgeable and experienced persons, in accordance with good Florida commercially acceptable irrigation practices and procedures, and, in accordance with the Florida Irrigation Society's latest edition (11/1/02) of their "Standards and Specifications for Turf and Landscape Irrigation Systems" and/or the manufacturer's standards and specifications.
10. The Irrigation and/or general contractor shall protect all existing structures, utility services, any plant materials scheduled to be saved, etc. and be responsible for its/their repair or replacement if damaged by him/them.
11. The Irrigation and/or general contractor shall remove all debris and unsuitable or surplus material from the site which is generated or produced by the project irrigation work.
12. Should any local, State, etc., code, ordinance, or Florida commercial irrigation practice or procedure conflict with this project's irrigation plans, specifications, details, etc., then the Irrigation and/or general contractor shall assume that the stricter or more stringent shall apply to the project irrigation system work.
13. The Irrigation and/or general contractor shall verify all existing or proposed grades, dimensions, conditions, available GPM and PSI, etc., in the field and bring any and all discrepancies, problems, etc., to the attention of the Owner, or his agent, and/or the landscape architect of record for a decision before proceeding with the project irrigation work.
14. The Irrigation and/or general contractor shall adjust the throw and pattern of each recommended/designed irrigation nozzle, head, etc., to minimize wasted water spray onto adjacent paved areas, buildings, etc.
15. The Irrigation controller wire shall be UL listed as direct burial solid copper lines sized to actuate from the controller to the valves at the necessary distances. All wire splices shall be made in valve boxes with approved water tight connectors.
16. Some of the project irrigation system components may have been shown on the plans either outside of the property lines or within paved areas for graphic design purposes. These lines, components, etc. shall be located within the project landscaped areas as much as possible.
17. The Irrigation and/or general contractor shall supply the Owner, or his agent, with all pertinent Irrigation system information, devices, and/or system record drawings necessary to operate and maintain the project irrigation system in an efficient and professional manner.
18. The Irrigation and/or general contractor shall warrant all irrigation system components and system workmanship for a minimum period of one year from the date of total project acceptance by the Owner. Should project irrigation system warranty work be required, then the Irrigation and/or general contractor shall re-warranty the warranty work for at least another additional year from the date of the initial warranty work.
19. The Irrigation and/or general contractor shall make no irrigation system substitutions, general design modifications, etc., without the written permission of both the Owner, or his agent, and the landscape architect of record.
20. These plans were prepared with information provided by the Client and/or the project architect or engineer. DWA is not responsible for any errors, etc., resulting from provided, or not provided, information to us.
21. The Irrigation and/or general contractor shall contact "Sunshine State One Call of Florida, Inc." at 800-432-4770 (www.callsunshine.com) for field locates of utilities before beginning work.



- C** Indicates the approximate location of a HUNTER ACC-PPD electric automatic controller for a 2-wire system. Wall mount the controller in the mechanical room of new building as directed by the owner or his agent. The general contractor shall supply the 120 VAC power supply, and any necessary conduits, to power and operate the irrigation system. (NOTE: The Irrigation contractor shall contact the HUNTER representative at 407-359-6334 to coordinate installation of the controller decoders, connectors, etc. for this 2-wire irrigation system.)
- R** Indicates the approximate location of a HUNTER Mini-Click rain sensor mounted on the eave of or top of building, with appropriate fittings and wiring per the manufacturer's specifications. Connect the rain sensor wires to the appropriate terminals of the controller. After the initial watering in period, the irrigation and/or general contractor shall reset the rain sensor to shut off at 1/4" of rainfall.

IRRIGATION LEGEND	QUANTITY	GENERAL NOTES:
1.5" PVC SCHEDULE 40 IRRIGATION SLEEVE OF THE SIZE CALLED FOR AT EACH LOCATION WITH OR WITHOUT THE CALLED FOR WIRE SLEEVE INSIDE.	TBD	1. ALL EXPOSED IRRIGATION MUST BE PAINTED HUNTER GREEN.
(X) INDICATES THE IRRIGATION ZONE/LATERAL NUMBER.	6	2. THE IRRIGATION LINES, VALVES, ETC. SHOWN WITHIN PAVED AREAS OR OUTSIDE PROPERTY BOUNDARY ARE FOR GRAPHIC DESIGN PURPOSES. ALL LINES, VALVES, ETC. ARE TO BE LOCATED WITHIN LANDSCAPED AREAS AND PROPERTY BOUNDARIES.
(SV) SOLENOID VALVE	6	3. TRENCHING WITHIN THE DRIP LINE OF TREES TO REMAIN ON SITE SHALL BE AVOIDED. TUNNELING SHALL BE USED IN LIEU OF TRENCHING WITHIN THE DRIP LINE OF TREES TO REMAIN.
(R) HUNTER MINI-CLICK RAIN SENSOR (SEE NOTES BELOW)	1	4. IRRIGATION CONTRACTOR SHALL INSTALL AN APPROPRIATE NUMBER OF IRRIGATION HEADS TO COVER THE LANDSCAPE AREA.
(C) HUNTER ICC-1600-PL CONTROLLER (SEE NOTES BELOW)	1	5. BUBBLER REQUIRED AT EACH TREE.
----- AREA OF ZONE COVERAGE		6. IRRIGATION SYSTEM SHALL BE A LOW WATER USAGE SYSTEM MEETING CITY AND STATE REQUIREMENTS AND GOALS.



ALL IRRIGATION SYSTEM COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF DEBARY AND THE VOLUSIA COUNTY WATER WISE REQUIREMENTS AND MANUFACTURER'S SPECIFICATIONS.

ENGINEERING PLANNING DESIGN PERMITTING

PROJECT: FLORIDA PUBLIC UTILITIES SAFETY TOWN

SHEET TITLE: IRRIGATION PLAN

REVISIONS:

NO.	DATE	DESCRIPTION

ENGINEERED PERMITS, INC.  
311 SOUTH WOODLAND BLVD.  
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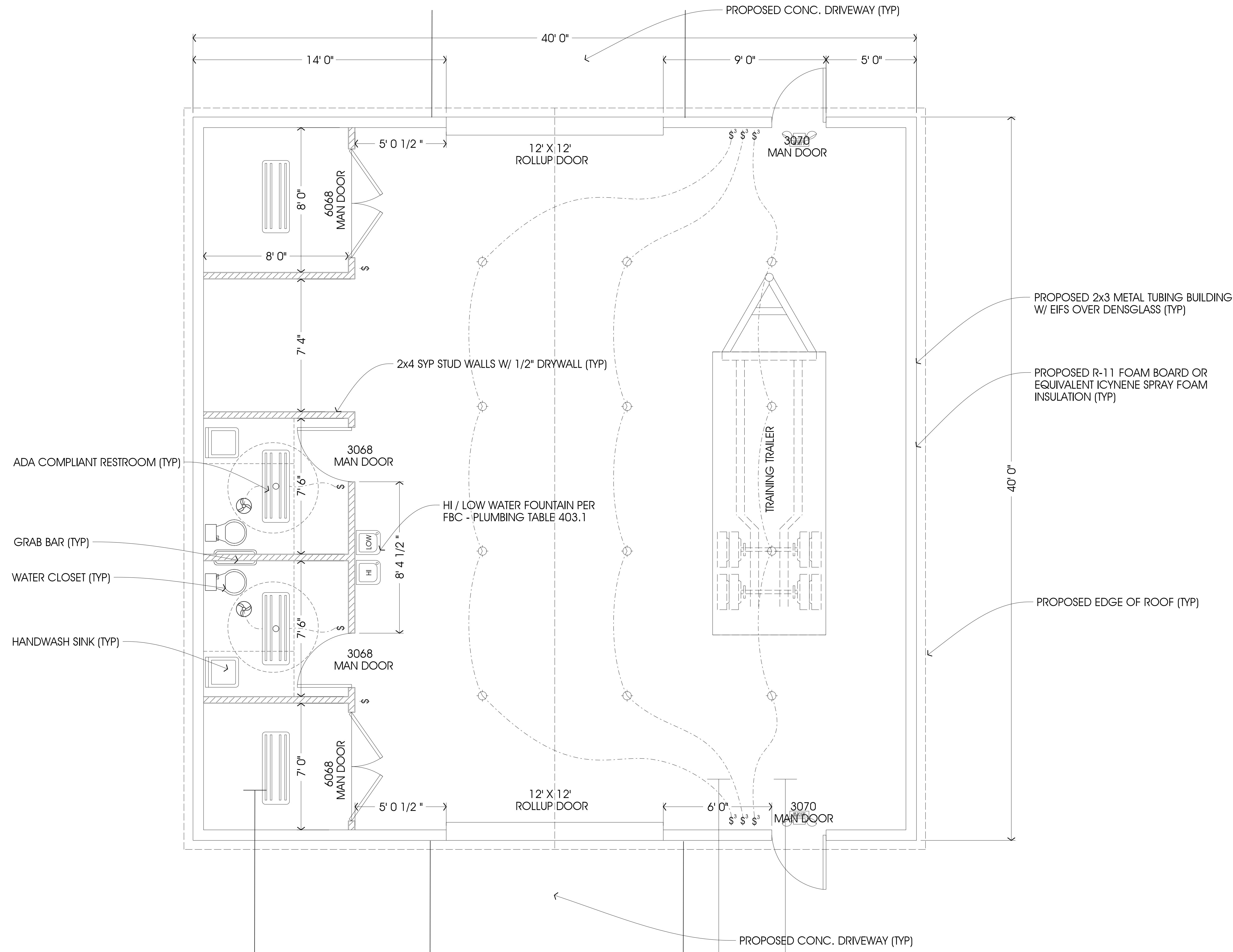
MICHAEL W. JUTUNIAK, P.E.  
EPA No. 10000000000000000000

SHEET NO. 14 OF 14

DATE: 8/15/2023

TIME: 11:30:08 AM

FILE: M:\Florida Public Utilities\FPU 2022\Civil Plans\FPU\_Trirrigatplan05.dgn



**ENGINEERING** • **PLANNING** • **PERMITTING**

**REVISIONS:**

NO.	DATE	DESCRIPTION

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EMAIL: epi@epieng.net

PROJECT: FLORIDA PUBLIC UTILITIES  
40' X 40' INTERIOR CONCEPT

SHEET TITLE: DESCRIPTIVE DIMENSIONED FLOOR PLAN

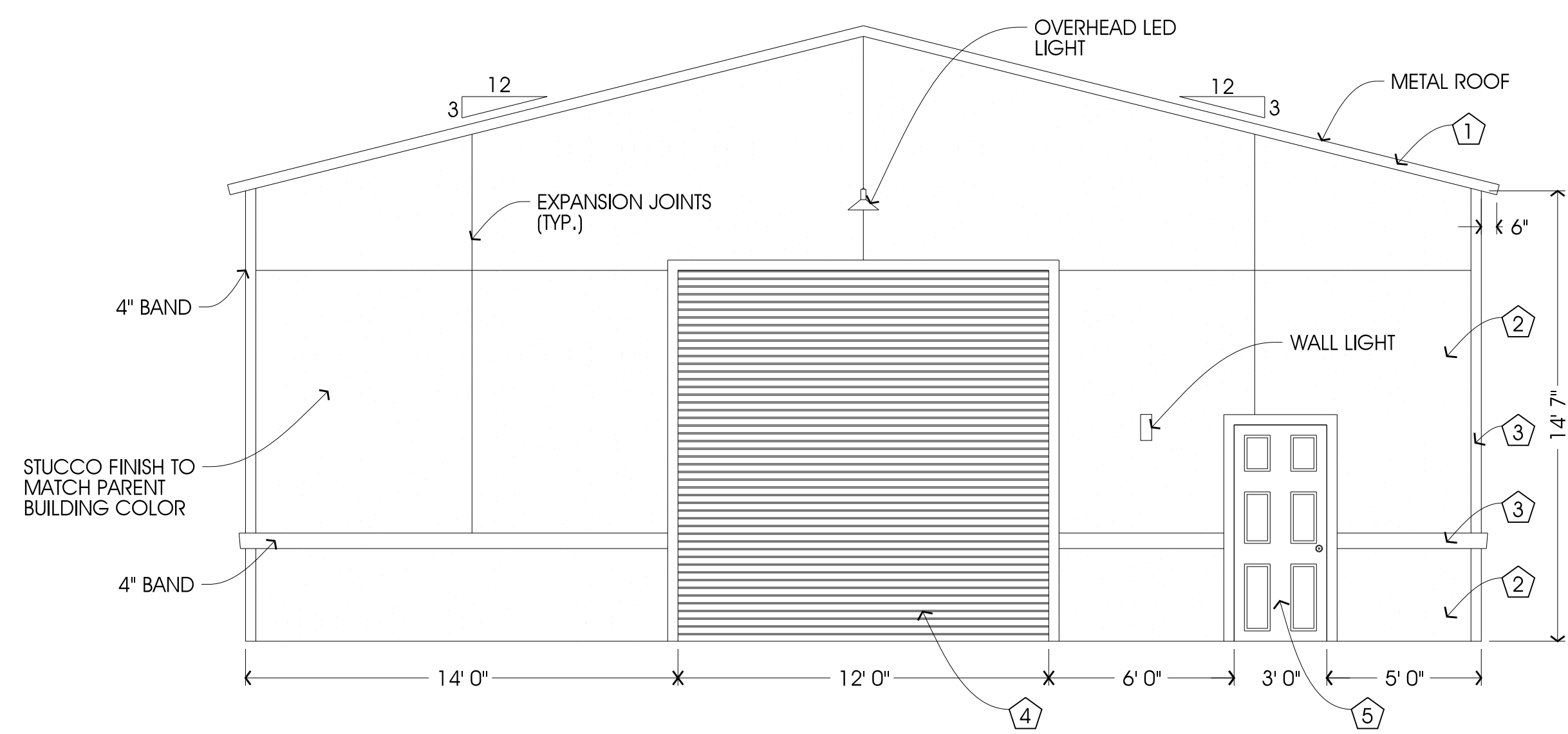
MICHAEL WOUTJUNIAK, P.E.  
EPA#: mwwoutj@epieng.net

**A**  
**A-1** DESCRIPTIVE FLOOR PLAN  
SCALE: 3/8" = 1'-0"

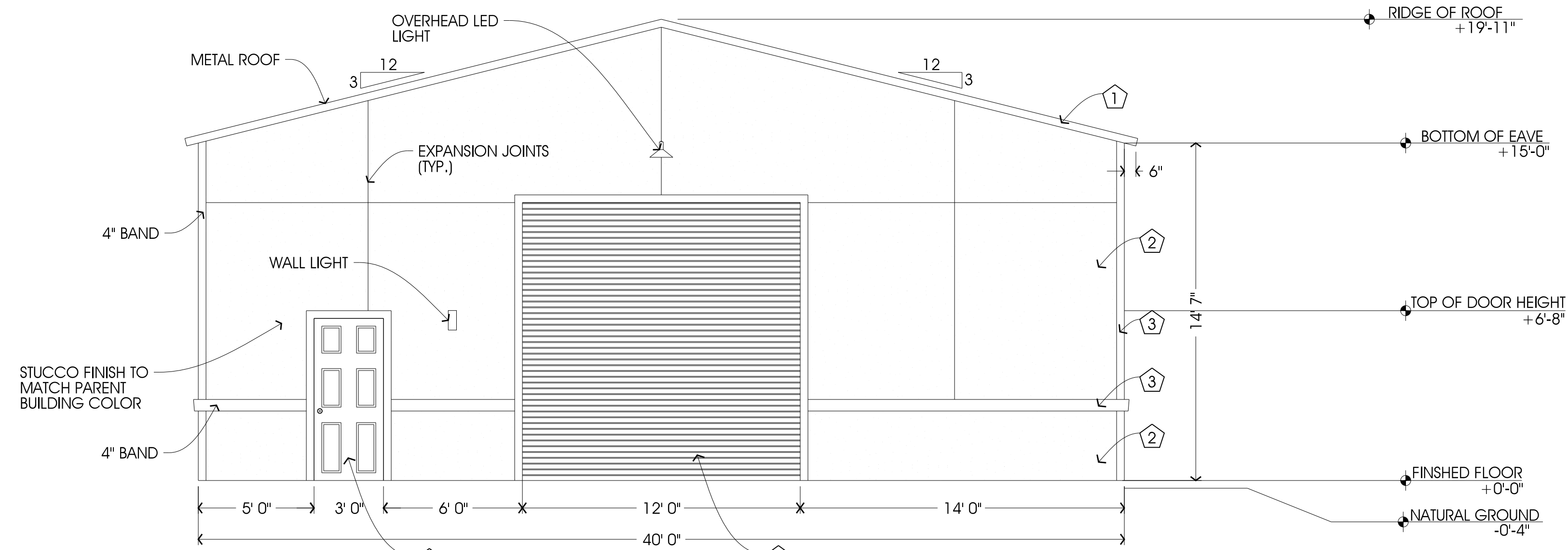
**DESIGN STATEMENT:**  
THESE PLANS WERE DESIGNED FOLLOWING THE 2020 7TH EDITION FLORIDA BUILDING CODE AND ASCE 7-16 INCLUDING CHAPTER 16 ON STRUCTURAL DESIGN, AN ULTIMATE WIND SPEED OF 140 MPH, (3 SECOND GUST) IN WIND EXPOSURE CATEGORY 'C'. THIS STRUCTURE HAS BEEN DESIGNED AS RISK EXPOSURE CATEGORY II. THE COMPONENTS AND CLADDING WERE DESIGNED BASED ON A +19/-21 PSF DESIGN PRESSURE. THIS STRUCTURE HAS BEEN DESIGNED AS AN ENCLOSED STRUCTURE.

SHEET NO.  
**A-1**  
DATE: 8/15/2023

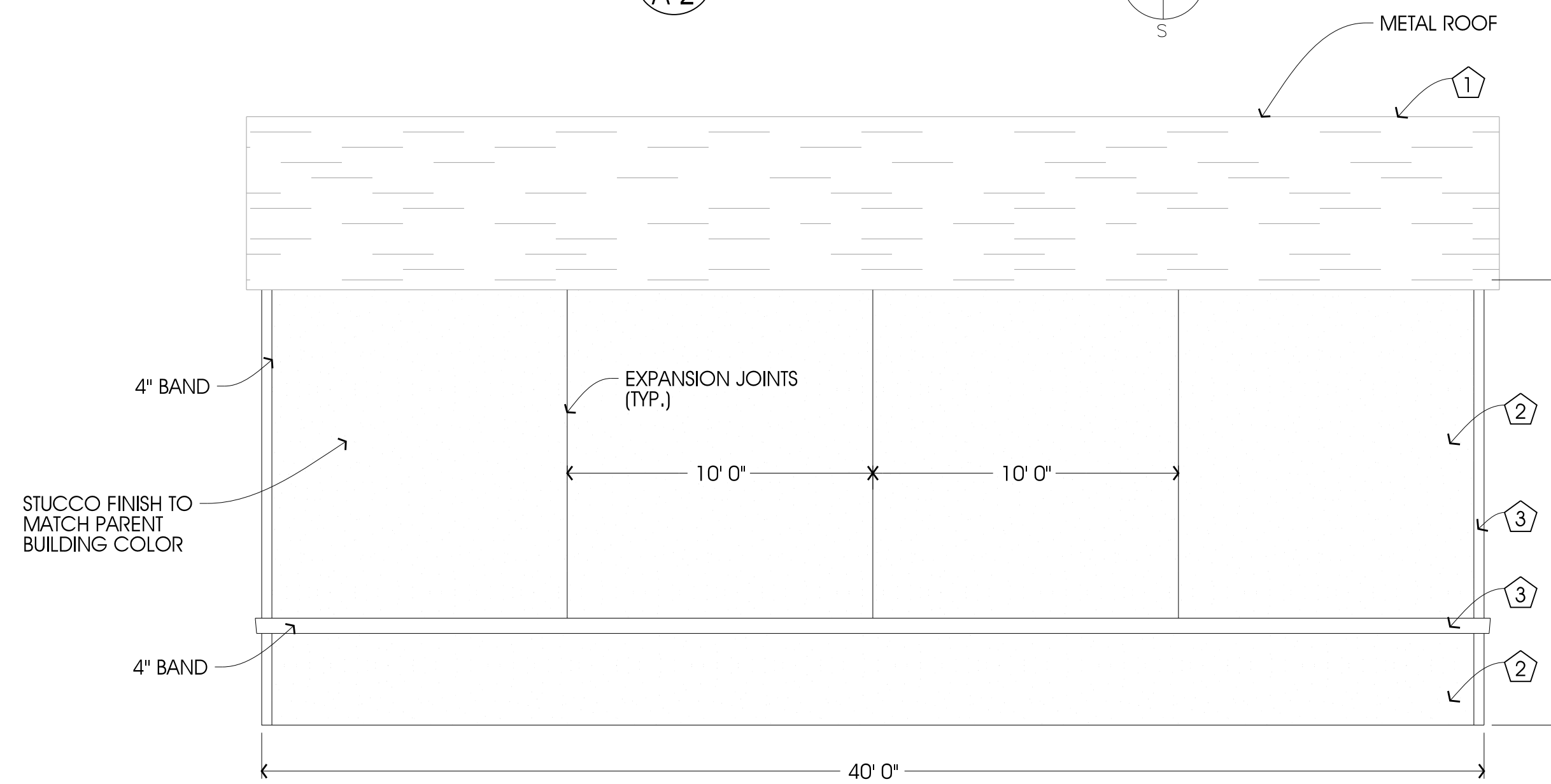
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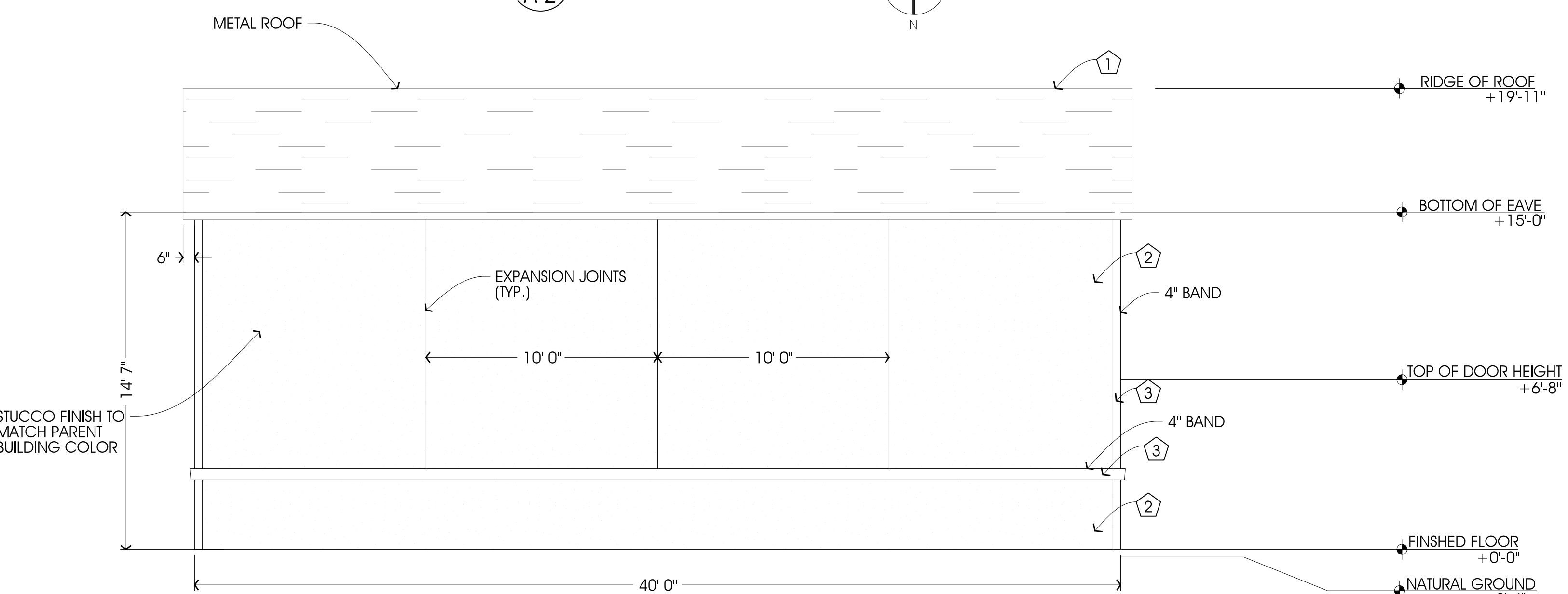
**A**  
A-2 NORTH ELEVATION  
SCALE: 1/4" = 1'-0"  
W N E S



**B**  
A-2 SOUTH ELEVATION  
SCALE: 1/4" = 1'-0"  
W S E N



**C**  
A-2 EAST ELEVATION  
SCALE: 1/4" = 1'-0"  
N E S W



**D**  
A-2 WEST ELEVATION  
SCALE: 1/4" = 1'-0"  
N W E S

		PAINTS AND COATINGS	
MATERIAL	MANUFACTURER	TYPE	
EXTERIOR		EXTERIOR WALL COLOR: COLORS AS NOTED AND IDENTIFIED ON DRAWINGS	
	REEDS METALS	①	METAL ROOF 26 GA. PBR (GALVALUME)
	SHERWIN-WILLIAMS	②	EXTERIOR WALL (STUCCO FINISH), BASKET BEIGE (SW 6143)
	SHERWIN-WILLIAMS	③	WINDOW, DOOR TRIM, AND EDGE TRIM SOFTER TAN (SW 6141)
	US-DOOR	④	GARAGE DOOR WHITE
	SHERWIN-WILLIAMS	⑤	ACCESS DOORS PANDA WHITE (SW 6147)

**DESIGN STATEMENT:**  
 THESE PLANS WERE DESIGNED FOLLOWING THE 2020 7TH EDITION FLORIDA BUILDING CODE AND ASCE 7-16 INCLUDING CHAPTER 16 ON STRUCTURAL DESIGN. AN ULTIMATE WIND SPEED OF 140 MPH, (3 SECOND GUST) IN WIND EXPOSURE CATEGORY 'C'. THIS STRUCTURE HAS BEEN DESIGNED AS RISK CATEGORY II. THE COMPONENTS AND CLADDING WERE DESIGNED BASED ON A +19/-21 PSF DESIGN PRESSURE. THIS STRUCTURE HAS BEEN DESIGNED AS AN ENCLOSED STRUCTURE.

**ENGINEERING** • **PLANNING** • **PERMITTING**

**REVISIONS:**

NO.	DATE	DESCRIPTION

**EPI**  
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PROJECT: FLORIDA PUBLIC UTILITIES  
 40' X 40' INTERIOR CONCEPT

SHEET TITLE: ELEVATION VIEW

MICHAEL WOUTJUNIAK, P.E.  
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SHEET NO.  
**A-2**  
 DATE: 8/15/2023

\*\*\*THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY MICHAEL J. WOUTJUNIAK, P.E. ON 8/15/2023 USING A SHA AUTHENTICATION CODE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES. UNLESS THE RAISED SEAL HAS BEEN UTILIZED. \*\*\*