

**PROJECT NOTES**

- DESIGN BASED ON AAL LAND SURVEYING FIELD SURVEY DATED 02/17/2022.
- CONTROLLING BENCHMARK: BREVARD COUNTY BENCHMARK 70 92 GPS 2.33' BRASS FLOOD SURVEY MARKER DISK IN CONCRETE MONUMENT STAMPED 70 92 GPS 2' EL 11.05 (NAVD 88)
- ELEVATIONS SHOWN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
- BASED ON THE FEMA FIRM PANEL NO. 12009C 0801 H, DATED JANUARY 29, 2021. THIS PROPERTY IS LOCATED WITHIN FLOOD ZONES X & AE.
- IT IS THE RESPONSIBILITY OF THE OWNER TO DIRECT THE RUNOFF FROM NEW DEVELOPMENT TO THE APPROVED OUTFALL, DIRECTING RUNOFF TO ADJACENT PROPERTIES IS NOT PERMITTED.
- ON-SITE GRADES CANNOT EXCEED 4:1 SLOPE.
- GRADES ADJACENT TO STRUCTURES MUST SLOPE A MINIMUM OF 5% WITHIN 10' OF THE FOUNDATION PER FBC 940.1.3.
- ALL SWALES MUST HAVE A LONGITUDINAL SLOPE OF NOT LESS THAN 1%.
- ALL DISTURBED AREAS SHALL BE FULLY SOCCDED.

**STORMWATER CALCULATIONS:**

IMPERVIOUS AREA DRAINING TO IRL = 6,580 SF

IRC REQUIREMENT: PROVIDE RETENTION FOR 1" OF RUNOFF FROM IMPERVIOUS AREA DRAINING TO IRL.

1" x 5,448 SF = 454 CF

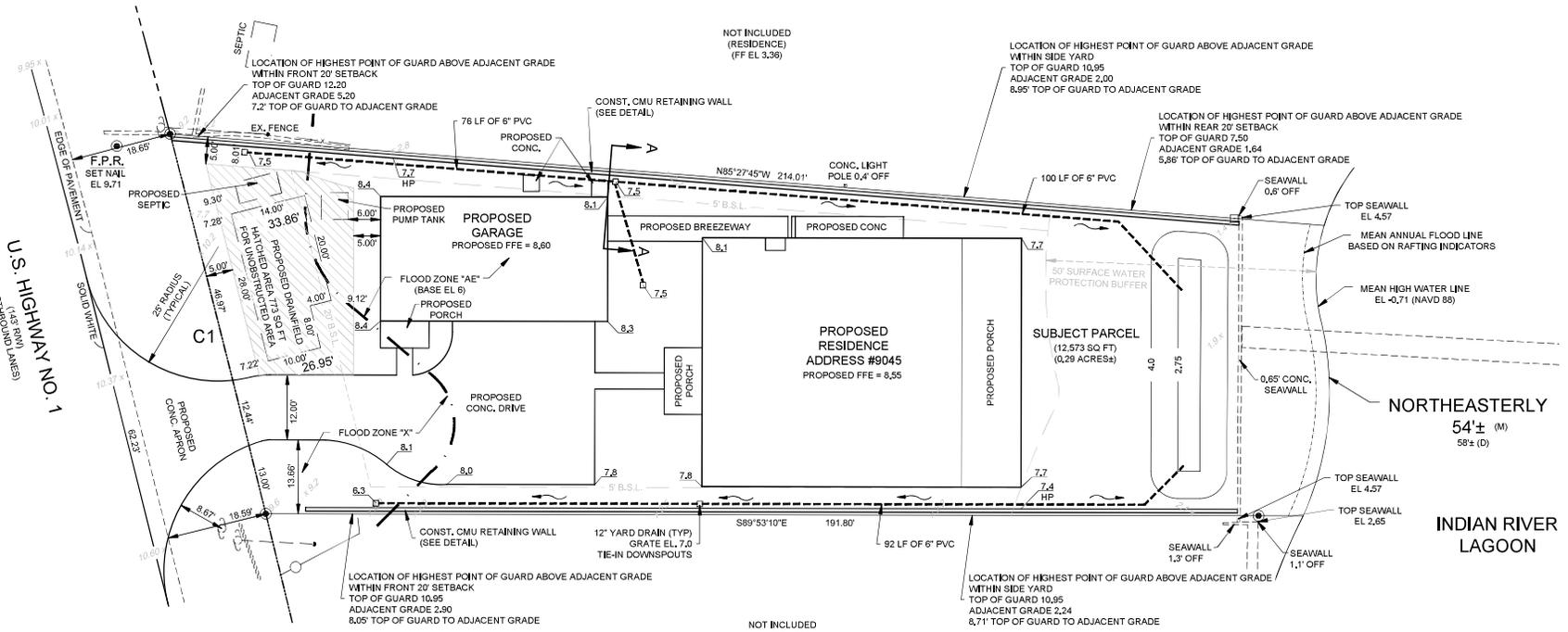
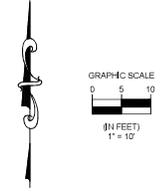
RETENTION PROVIDED:

BOTTOM AREA = 79 SF

TOP AREA = 673 SF

AVERAGE AREA = (161+673)/2 = 417 SF

VOLUME = 417 SF x 1.25' DEPTH = 521 CF



BY	DATE	REVISION
TLT	11/13/23	DECREASED REAR RETAINING WALL HEIGHTS
TLT	12/19/23	INCREASED RETAINING WALL HEIGHTS



**SOLAR RESIDENCE**  
 9045 IUS HWY 1  
 MELBOURNE, FL 32940

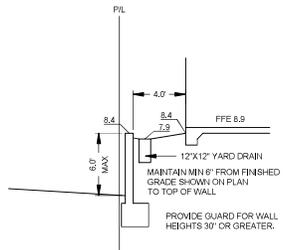
THOMAS L. TIEDEMAN, JR., P.E.  
 FL REGISTRATION NO. 65068



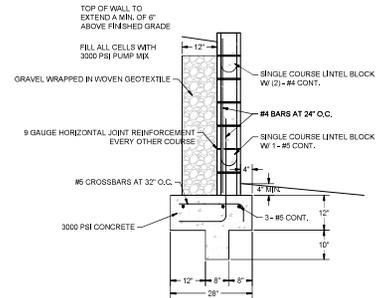
DATE: 11/13/23  
 SCALE: 1" = 10'  
 JOB NO.: 24-003  
 DRAWN BY: TLT  
 CHECKED BY: TLT

SHEET NO.  
**1 OF 2**  
 LOT DRAINAGE

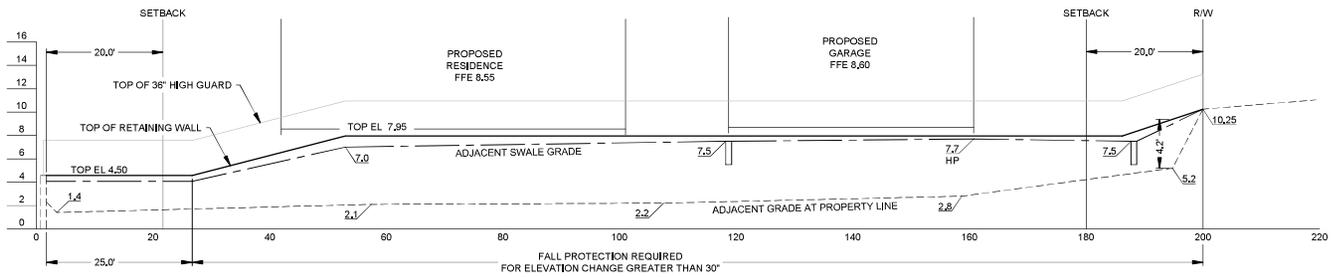
DIGITALLY SIGNED BY THOMAS L. TIEDEMAN, JR.  
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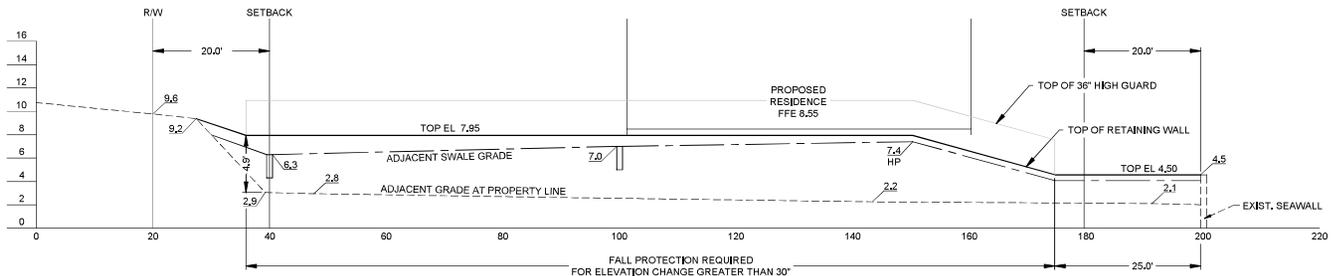
**SECTION A-A**



**RETAINING WALL SECTION  
UP TO 6' HIGH**



**NORTH PROPERTY LINE RETAINING WALL PROFILE**



**SOUTH PROPERTY LINE RETAINING WALL PROFILE**

BY	DATE	REVISION
TLT	11/13/23	DECREASED REAR SETBACKS TO MEET EXISTING CONDITIONS
TLT	12/19/23	DECREASED RETAINING WALL HEIGHTS

**SOLAR RESIDENCE**  
 9045 N US HWY 1  
 MELBOURNE, FL 32940

THOMAS L. TRIGGEMAN, JR., P.E.  
 FL REGISTRATION NO. 65068

DATE: 11/13/23  
 SCALE: NTS  
 JOB NO.: 23-203  
 DRAWN BY: TLT  
 CHECKED BY: TLT

SHEET NO.  
**2 OF 2**  
 LOT DRAINAGE