48 HOURS BEFORE DIGGING CALL 1-800-432-4770 SUNSHINE STATE ONE CALL OF FLORIDA, INC. Contractor is responsible for obtaining location of existing utilities prior to commencement of construction activities.

Location Map

N.T.S.



'ation Renova

Chad M. Gruber FL P.E. No. 57466

Sheet No.

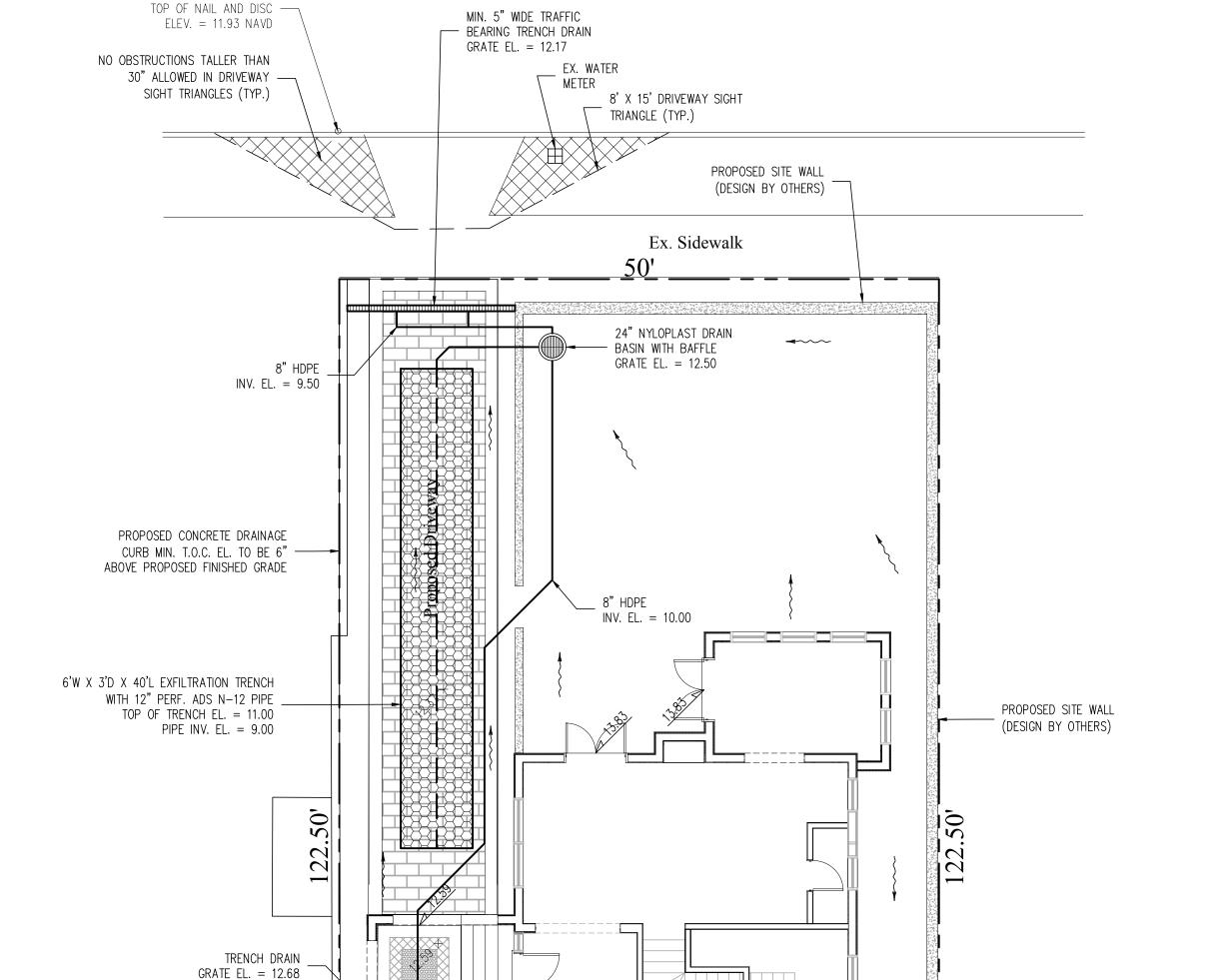
This item has been electronically signed and sealed by Chad M. Gruber on the date adjacent to the seal using a SHA authentication code. Printed copies of this document are not considered signed and sealed and

> Plan Background from Hardscape Plan by Todd Maclean Received 10/5/22

© 2022 Gruber Consulting Engineers, Inc.

ZON-23-005

C-1



Seabreeze Avenue

Notes:

1) Exfiltration trenches and storm piping to be protected from roots with a root barrier.

STORMWATER RETENTION CALCULATIONS

A. <u>SITE INFORMATION</u>

C = 1.0 (impervious surface)

Impervious Surface Runoff Volume:

Total Volume to be Retained = 675 cu.ft.

Trench Width

 $1.0^{\circ} \times 2 \text{ in/hr } \times 3,526 \text{ sq.ft.} \times 1 \text{ ft./12 in.} = 588 \text{ cu.ft.}$

 $0.2 \times 2 \text{ in/hr} \times 2,599 \text{ sq.ft.} \times 1 \text{ ft./}12 \text{ in.} = 87 \text{ cu.ft.}$

C. PROPOSED EXFILTRATION TRENCH SIZING

Hydraulic Conductivity

Saturated Trench Depth

Depth to Water Table

L = Total Length of Trench Provided = 40 ft

DU = Un-Saturated Trench Depth = 3.00 ft

= 6 ft

= 6.00 ft

= 0.00 ft

= 820 cu.ft.

= 0.00005 cfs/sq.ft./ft. of head

C = 0.2 (pervious surface)

Pervious Runoff Volume:

i = 2 in/hr

Total Property Area = 6,125 sq.ft.

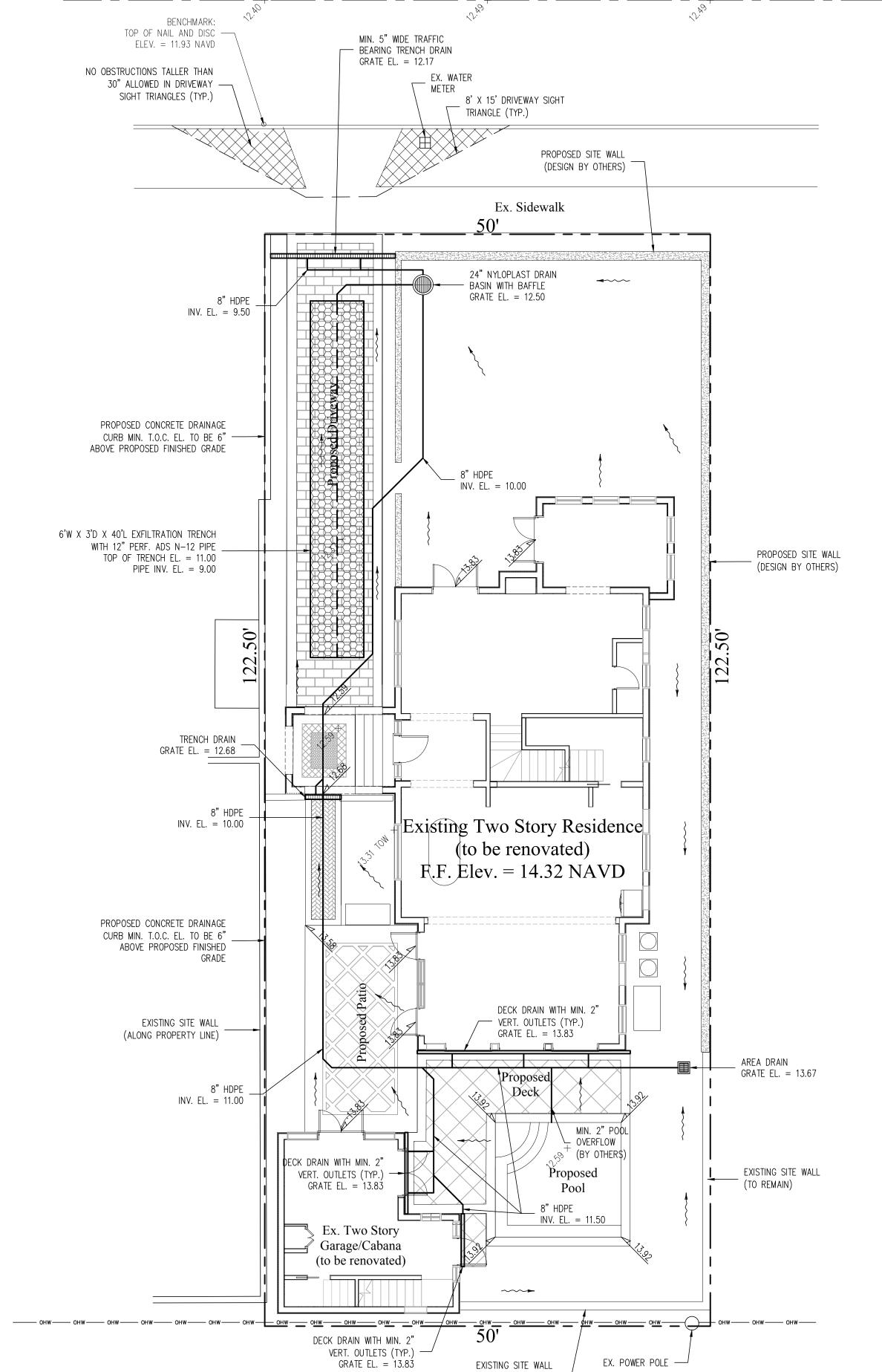
Drainage Area Impervious Surface = 3,526 sq.ft.

B. ESTIMATED STORMWATER RETENTION VOLUME

The retention volume is estimated using the Rational Method (Q=CiA)

Drainage Area Pervious Surface = 2,599 sq.ft.

- 2) Roof drain downspouts are to be connected to the proposed drainage system. Contractor to provide engineer with downspout locations prior to installation of drainage system.
- 3) Exfiltration trench design uses an assumed value of hydraulic conductivity. Client may obtain a site specific test for hydraulic conductivity prior to exfiltration trench installation.
- 4) Contractor shall mill and overlay all roadway cuts a minimum of 50 ft. on either side of the excavation the entire width of each affected lane.
- 5) Contractor is responsible for installing and maintaining erosion control measures during construction.
- 6) Video inspection of storm drainage system required prior to installation of sod.



(TO REMAIN)

Legend

EXISTING ELEVATION PER WALLACE SURVEYING CORP. (NAVD-88)

PROPOSED ELEVATION (NAVD-88)

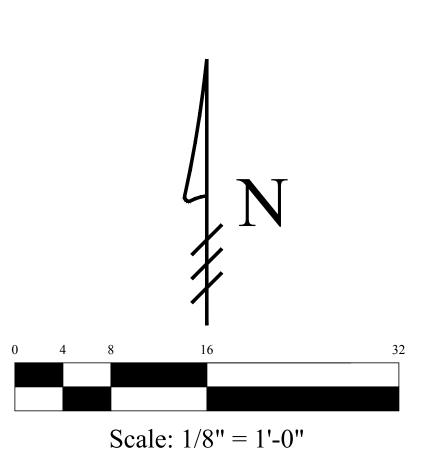
---7.00--- PROPOSED ELEVATION CONTOUR (NAVD-88)

FLOW DIRECTION

EXFILTRATION TRENCH

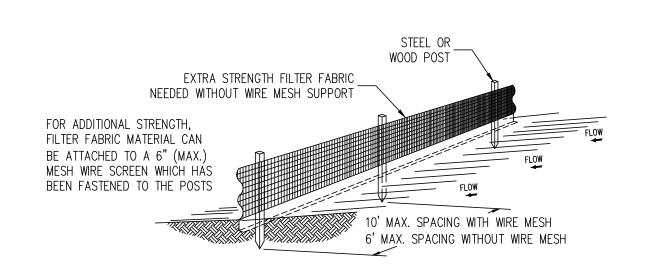
AREA DRAIN

24" NYLOPLAST DRAIN BASIN



the SHA authentication code must be verified on any electronic copies.

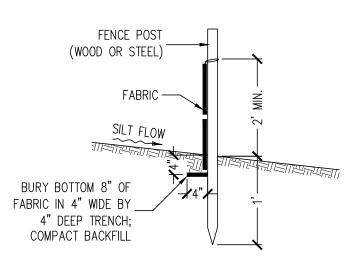
HSB-22-017



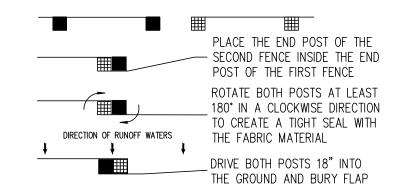
Notes

- 1) The height of a silt fence shall not exceed 36".
- 2) Filter fabric shall be purchased in a continuous roll cut to the length of the barrier to avoid the use of joints.
- 3) Posts shall be spaced a maximum of 10' apart at the barrier location and driven securely into the ground a minimum of 12". When extra strength fabric is used without the wire support fence, post spacing shall not
- 4) A trench shall be excavated approximately 4" wide and 4" deep along the line of posts and upslope from the barrier.
- 5) When standard strength filter fabric is used, a wire mesh support fence shall be fastened securely to the upslope side of the posts using heavy duty wire staples at least 1" long, tie wires, or hog rings. The wire shall extend into the trench a minimum of 2" and shall not extend more than 36" above the original ground surface.
- 6) The standard strength filter fabric shall be stapled or wired to the fence, and 8" of the fabric shall be extended into the trench. The fabric shall not extend more than 36" above the original ground surface.
- 7) The trench shall be backfilled and the soil compacted over the filter

SILT FENCE DETAIL N.T.S.



SILT FENCE SECTION N.T.S.

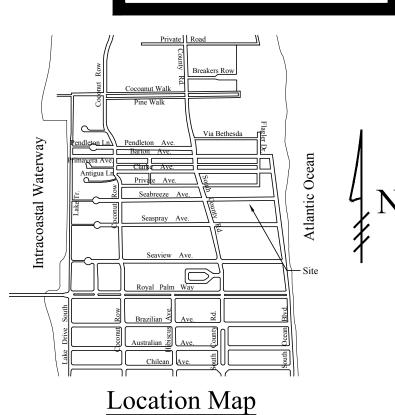


ATTACHING TWO SILT FENCES N.T.S.

Notes:

- 1) Contractor is responsible for installing and maintaining erosion control measures during construction.
- 2) Contractor to investigate condition of existing sewer service prior to building permit submittal. If existing service is cast iron, or in poor condition, service will be replaced to main per Town of Palm Beach standards.

48 HOURS BEFORE DIGGING
CALL
1-800-432-4770
SUNSHINE STATE ONE CALL
OF FLORIDA, INC.
Contractor is responsible for obtaining location of existing utilities prior to commencement of construction activities.



N.T.S.



Project InformationProject No.2022-0123Issue Date11/02/2022Scale1/8" = 1'-0"Drawn ByKMChecked ByCG

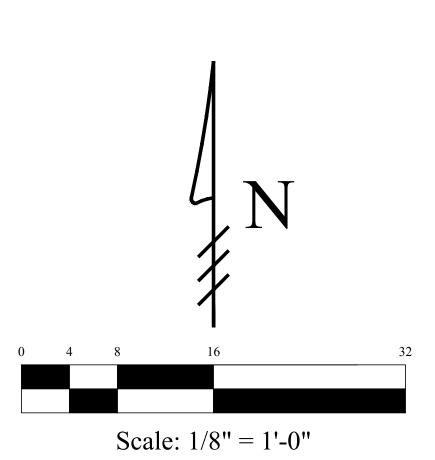
Project No.

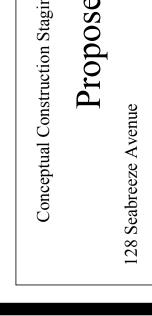
Issue Date
Scale
Drawn By
Checked By

Legend

CONSTRUCTION STAGING AREA

— SILT FENCE (SEE DETAIL)





Renov

Chad M. Gruber

FL P.E. No. 57466

This item has been electronically signed and sealed by Chad M. Gruber on the date adjacent to the seal 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.

Plan Background from Hardscape Plan by Todd Maclean Received 10/5/22

© 2022 Gruber Consulting Engineers, Inc.

Maclean Received 10/5 HSB-22-017 ZON-23-005 EC-1

Sheet No.

