



EAST PROPERTY LINE

North / Front Elevation

WEST PROPERTY LINE

NORTH LAKE WAY



NORTH LAKE WAY

WEST PROPERTY LINE

South / Rear Elevation

EAST PROPERTY LINE

Private Residence
284 Monterey Road
Palm Beach

JOB NUMBER: # 22070.00 LA
DRAWN BY: Jean Twomey
DATE: 05.13.2022

SHEET L11.0

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48 HOURS BEFORE DIGGING
CALL TOLL FREE
1-800-432-4770
SUNSHINE STATE ONE CALL
OF FLORIDA, INC.

COA-22-028
ZON-22-079
Rendered Landscape Elevations

SCALE IN FEET 0' 4' 8' 12'



West Elevation



East Elevation

Private Residence
284 Monterey Road
Palm Beach

JOB NUMBER: # 22070.00 LA
DRAWN BY: Jean Twomey
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SHEET L11.1

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.



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Project Information				
Project No.	2022-0033	Issue Date	09/09/2022	
Scale	1/8" = 1'-0"	Drawn By	KM	
Checked By	CG			

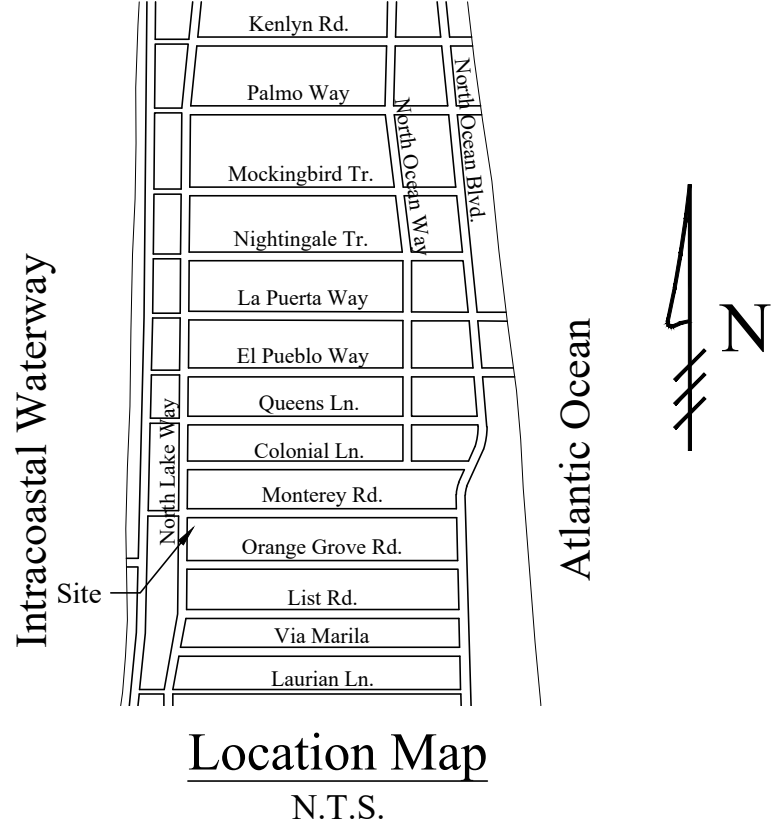
Conceptual Site Grading & Drainage Plan For:
Proposed Renovation
284 Monterey Road
Palm Beach, Florida

Revisions	
1	
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Chad M. Gruber

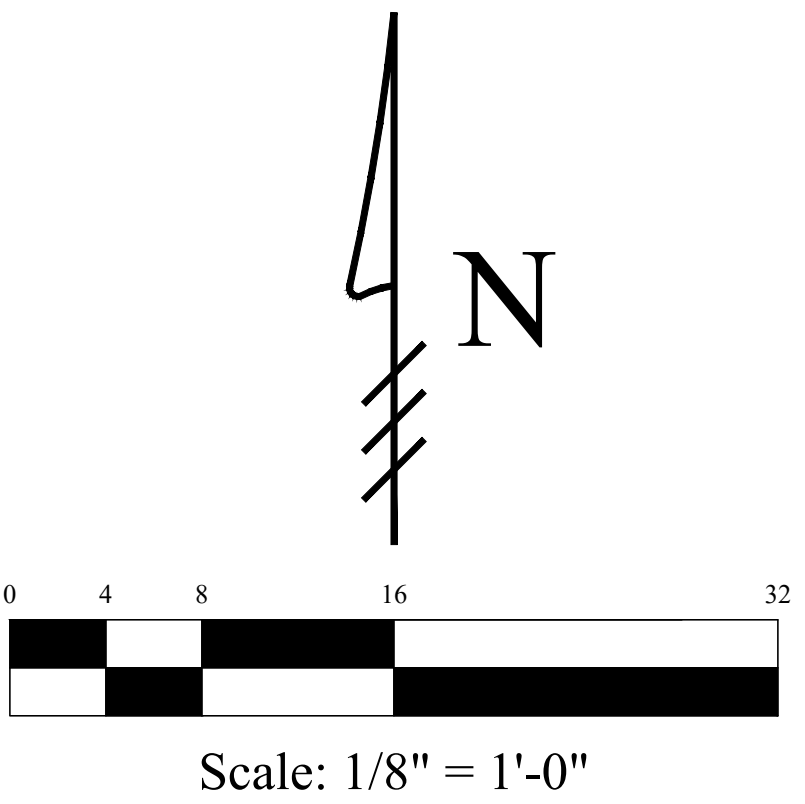
FL P.E. No. 57466

Sheet No.
C-1



Legend

- EXISTING ELEVATION PER WALLACE SURVEYING CORP. (NAVD--88)
- PROPOSED ELEVATION (NAVD--88)
- PROPOSED ELEVATION CONTOUR (NAVD--88)
- FLOW DIRECTION
- EXFILTRATION TRENCH
- AREA DRAIN
- 24" NYLOPLAST DRAIN BASIN WITH BAFFLE



STORMWATER RETENTION CALCULATIONS

- A. SITE INFORMATION
- Total Property Area = 8,462 sq.ft.
- Drainage Area Impervious Surface (existing residence, proposed driveway, deck, walkway, pool) = 4,189sq.ft.
- Drainage Area Pervious Surface = 4,273 sq.ft.
- B. ESTIMATED STORMWATER RETENTION VOLUME
- The retention volume is estimated using the Rational Method ($Q=CiA$) where:
- $C = 1.0$ (impervious surface)
 - $C = 0.2$ (pervious surface)
 - $i = 2$ in/hr
- Impervious Surface Runoff Volume:
 $1.0 \times 2 \text{ in/hr} \times 4,189 \text{ sq.ft.} \times 1 \text{ ft./12 in.} = 698 \text{ cu.ft.}$
- Pervious Runoff Volume:
 $0.2 \times 2 \text{ in/hr} \times 4,273 \text{ sq.ft.} \times 1 \text{ ft./12 in.} = 142 \text{ cu.ft.}$
- Total Volume to be Retained = 840 cu.ft.
- C. PROPOSED EXFILTRATION TRENCH SIZING
- | | | | | | |
|----|---|---------------------------------|---|--------------------------------|--------|
| L | = | Total Length of Trench Provided | = | 45 | ft |
| W | = | Trench Width | = | 10 | ft |
| K | = | Hydraulic Conductivity | = | 0.00005 cfs/sq.ft./ft. of head | |
| H2 | = | Depth to Water Table | = | 4.00 | ft |
| DU | = | Un-Saturated Trench Depth | = | 2.50 | ft |
| DS | = | Saturated Trench Depth | = | 0.00 | ft |
| V | = | Volume Treated | = | 1,007 | cu.ft. |

Notes:

- Exfiltration trenches and storm piping to be protected from roots with a root barrier.
- 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.
- 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.
- 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.
- Contractor is responsible for installing and maintaining erosion control measures during construction.
- Video inspection of storm drainage system required prior to installation of sod.

