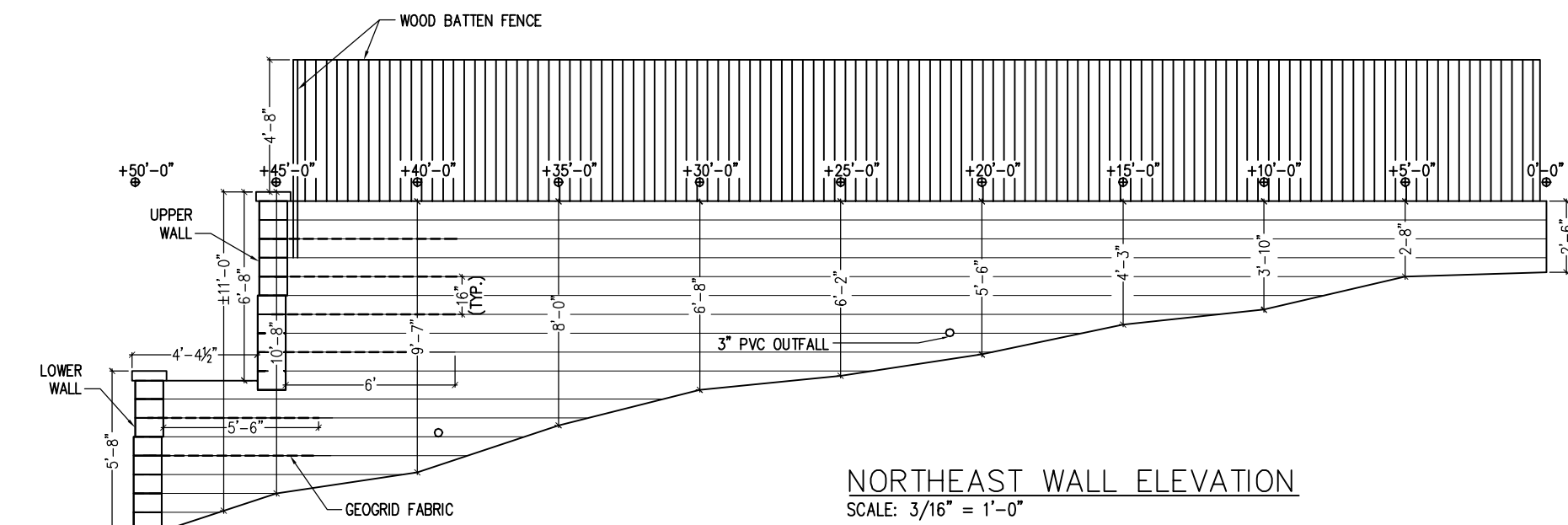
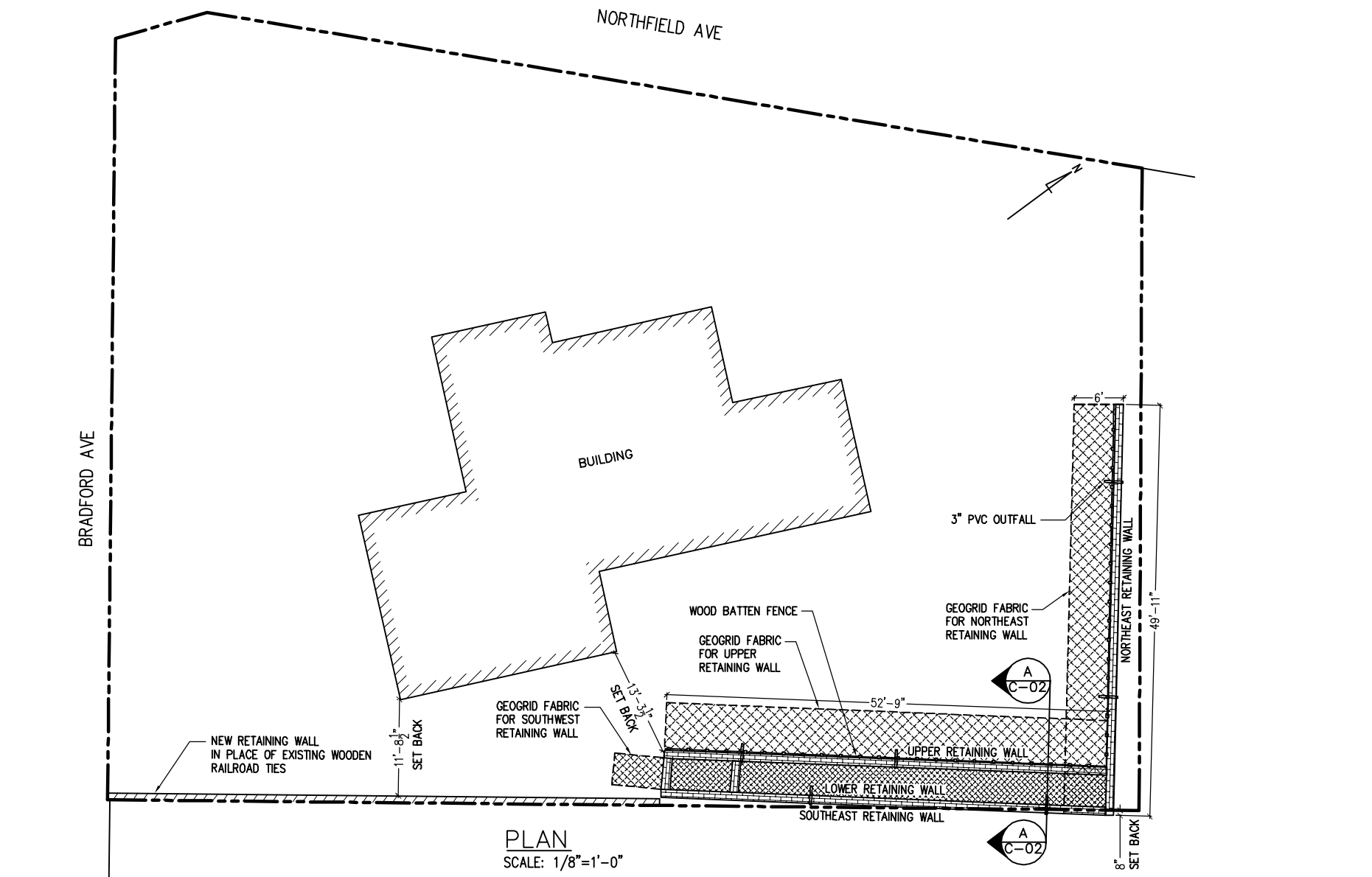
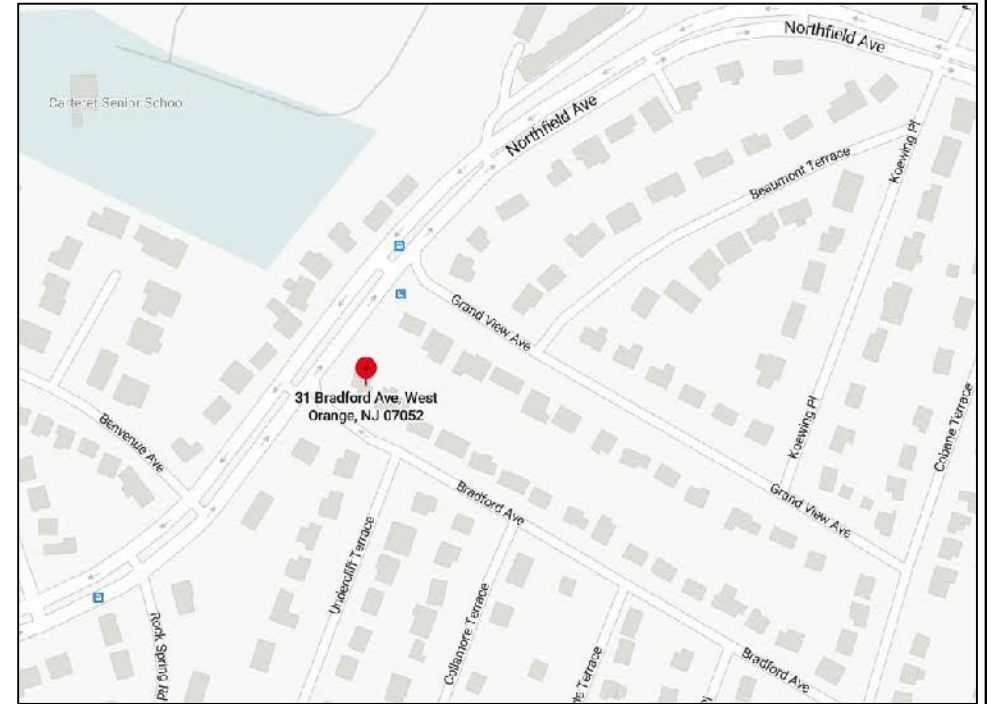




LOCATION MAP



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2	12/05/24	Per Reviewer's comments dt. 10/17/24; updated TB
1	04/24/24	Per Reviewer's revised comments dt. 3/13/24
No.	Date	Revision
DRAWING TITLE		
PLAN, LOCATION MAP & NORTHEAST WALL ELEVATION		
PROJECT		
AS-BUILT RETAINING WALL WITH GEOGRID		
CLIENT/OWNER		
JOSE MARCOS DeOLIVEIRA		
LOCATION:		
31 BRADFORD AVE, WEST ORANGE, NJ		
ARCHITECT OF RECORD		
KSI ENGINEERING, P.C 80 BROADMAN PKWY, JERSEY CITY, NJ 07305 TEL: (201)736-7546 Email : ksiengineering@gmail.com		
SEAL: Mirza K. Baig, NJ P. E. Lic. No. 24GE047206600	DRAWN BY	SCALE
	SK	AS SHOWN
	CHECKED BY	DATE
	MB	8/14/23
	FILE	DRAWING NUMBER
	MISC/31BR 1 OF 3	C-01

AS-BUILT RETAINING WALL GENERAL NOTES

CONSTRUCTION NOTES

1. SOIL LOADINGS CONSIDERED IN THIS DESIGN AND CALCULATIONS ARE BASED ON THE FOLLOWING PARAMETERS:

	FRICTION ANGLE	COHESION	UNIT WEIGHT	SOIL TYPE
INFILL SOIL	30°	0 PSF	120 PCF	WELL COMPACTED SILTY, SANDY CLAY
RETAINED SOIL	30°	0 PSF	120 PCF	WELL COMPACTED SILTY, SANDY CLAY
FOUNDATION SOIL	30°	0 PSF	120 PCF	WELL COMPACTED SILTY, SANDY CLAY

3. KEYSTONE DESIGN CHARTS USED FOR DESIGN CHECK.

4. HYDROSTATIC LOADING IS NOT CONSIDERED SINCE WEEP HOLES HAVE BEEN PROVIDED FOR DRAINAGE.

5. ANALYSIS ASSUMES FILL PLACEMENT IN 8 INCH (200 MM) LAYERS. LIFTS COMPACTED TO 95% STANDARD PROCTOR.

6. RETAINING WALL INSTALLATION ASSUMED TO CONFORM TO THE STANDARD BLOCK MODULAR RETAINING WALL SYSTEMS SPECIFICATION GUIDELINES, GEOGRID REINFORCEMENT SYSTEMS SPECIFICATION GUIDELINES, AND WATER MANAGEMENT SPECIFICATION GUIDELINES AS PUBLISHED IN RESPECTIVE MANUFACTURER'S MANUAL.

7. GEOGRID SPACING DETERMINED BY STRUCTURAL CROSS-SECTION DESIGN REQUIREMENTS, IS ASSUMED TO BE PROPERLY PLACED BY INSTALLER.

8. SURFACE DRAINAGE NOTES: RAINFALL CAN BE DEFINED AS SURFACE WATER. RETAINING WALL DESIGN HAS TAKEN INTO CONSIDERATION THE MANAGEMENT OF THIS WATER BY SITE GRADING.

9. SITE GRADING RE-ROUTES SURFACE WATER AROUND AND AWAY FROM THE WALL.

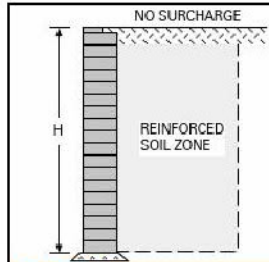
POST CONSTRUCTION NOTES

10. THE RETAINING WALL(S) HAVE BEEN INSTALLED SINCE MORE THAN 2 YEARS. NO DRAINAGE ISSUES HAVE BEEN NOTED BY THE OWNER OR THE NEIGHORS TILL DATE.

11. THE AS-BUILT RETAINING WALL(S) ARE IN GOOD CONDITION. NO STABILITY ISSUES HAVE BEEN NOTED TILL DATE.

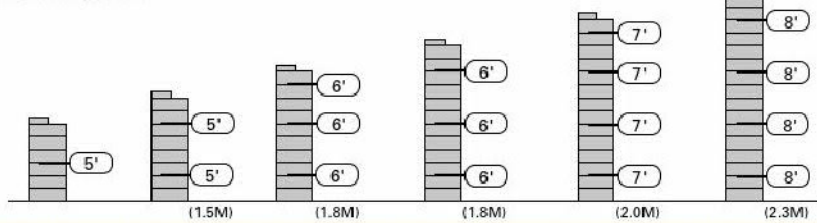
KEYSTONE STANDARD UNITS - NEAR VERTICAL

SAND/GRAVEL: $\phi=34^\circ$, $\gamma=120$ pcf (19kN/m³)

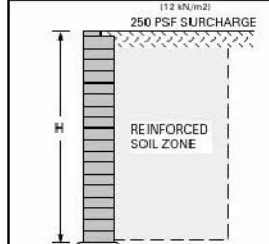


CASE 1

GEOGRID PLACEMENT

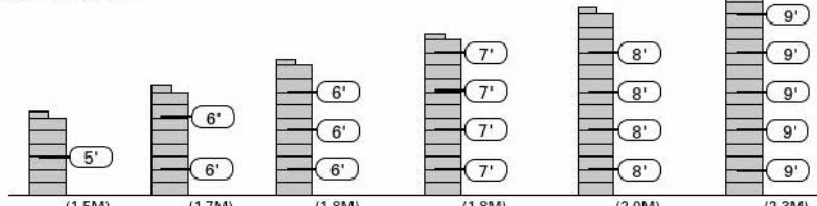


HEIGHT 4.3' (1.3m) 5.7' (1.7m) 7.0' (2.1m) 8.3' (2.5m) 9.7' (3.0m) 11.0' (3.4m)

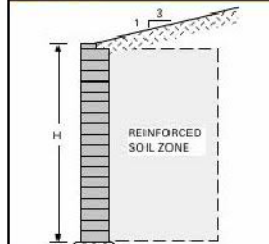


CASE 2

GEOGRID PLACEMENT

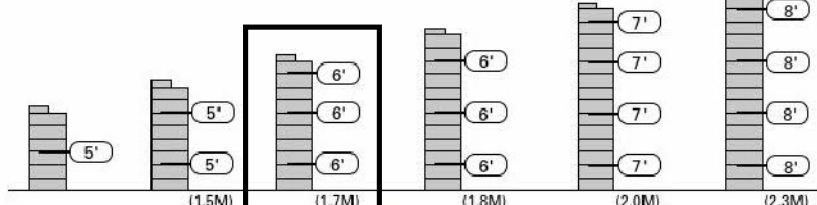


HEIGHT 4.3' (1.3m) 5.7' (1.7m) 7.0' (2.1m) 8.3' (2.5m) 9.7' (3.0m) 11.0' (3.4m)



CASE 3

GEOGRID PLACEMENT

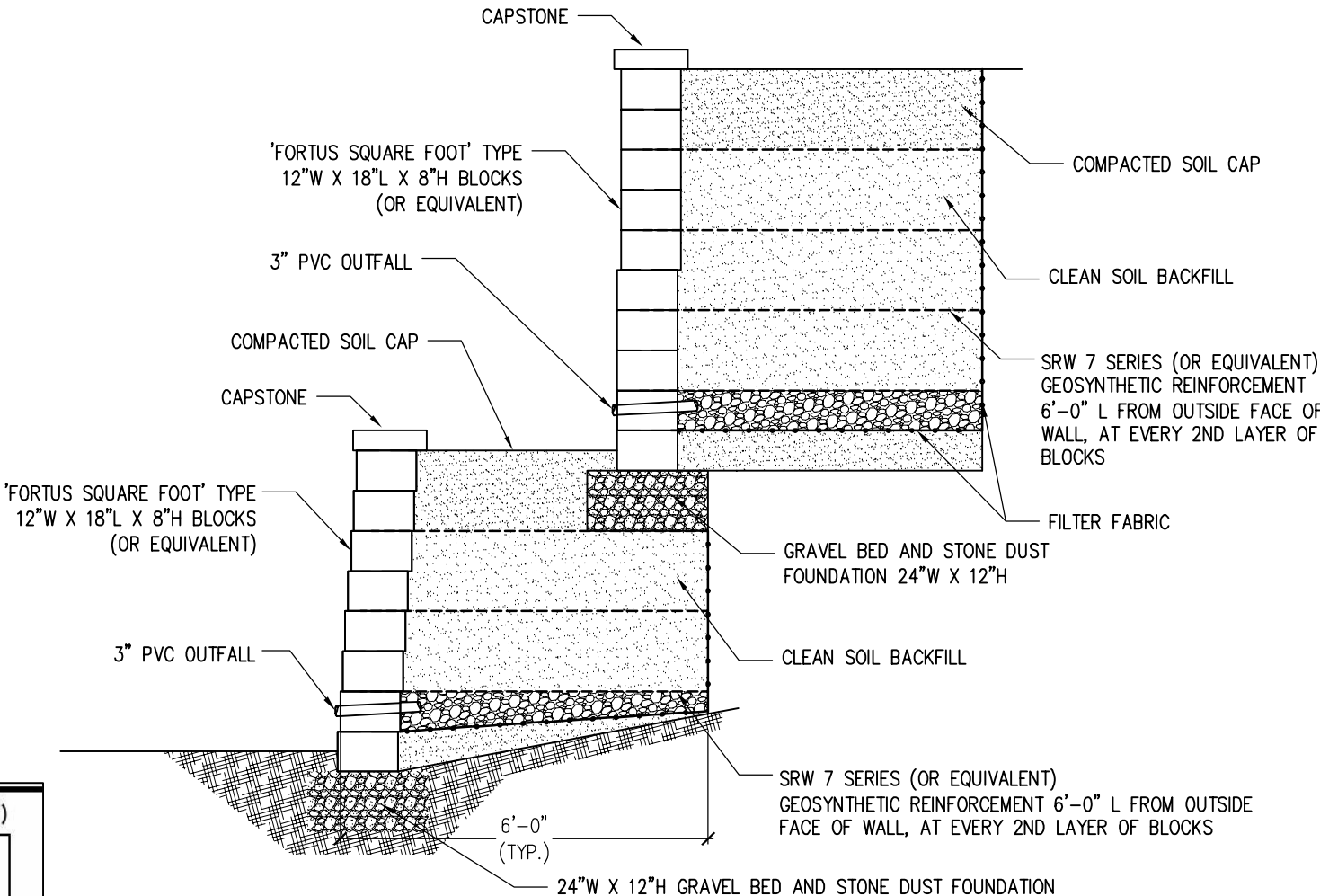


HEIGHT 4.3' (1.3m) 5.7' (1.7m) 7.0' (2.1m) 8.3' (2.5m) 9.7' (3.0m) 11.0' (3.4m)

The information contained herein has been compiled by Keystone® Retaining Wall Systems LLC and to the best of our knowledge, accurately represents the Keystone product use in the applications which are illustrated. Final determination of the suitability for the use contemplated and its manner of use are the sole responsibility of the user. Structural design and analysis shall be performed by a qualified engineer.

Keystone Construction Manual

GEOGRID DESIGN CHART



SECTION A-A

SCALE: 3/8" = 1'-0"

1	12/05/24	Title Block updated
1	04/24/24	Per Reviewer's revised comments dt. 3/13/24
No.	Date	Revision

DRAWING TITLE
GENERAL NOTES,
DESIGN CHART AND SECTION A-A

PROJECT
AS-BUILT RETAINING WALL
WITH GEOGRID

CLIENT/OWNER
JOSE MARCOS DeOLIVEIRA

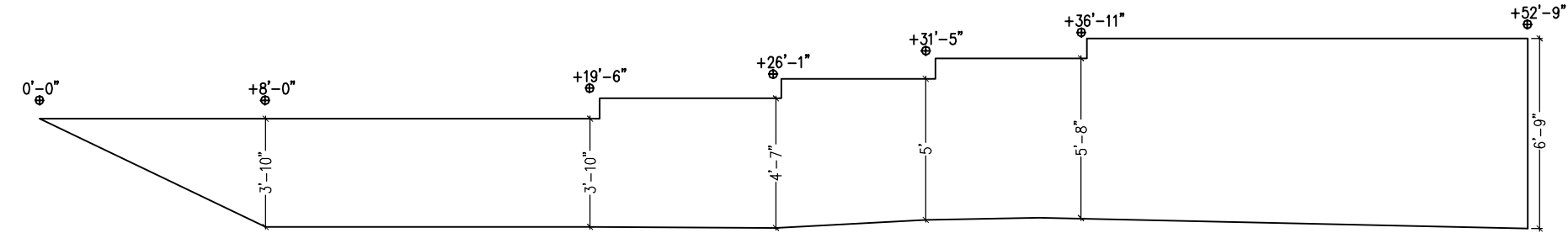
LOCATION:
31 BRADFORD AVE, WEST ORANGE, NJ

ARCHITECT OF RECORD
KSI
ENGINEERING, P.C
80 BROADMAN PKWY, JERSEY CITY, NJ 07305
TEL: (201)736-7546
Email : ksiengineering@gmail.com

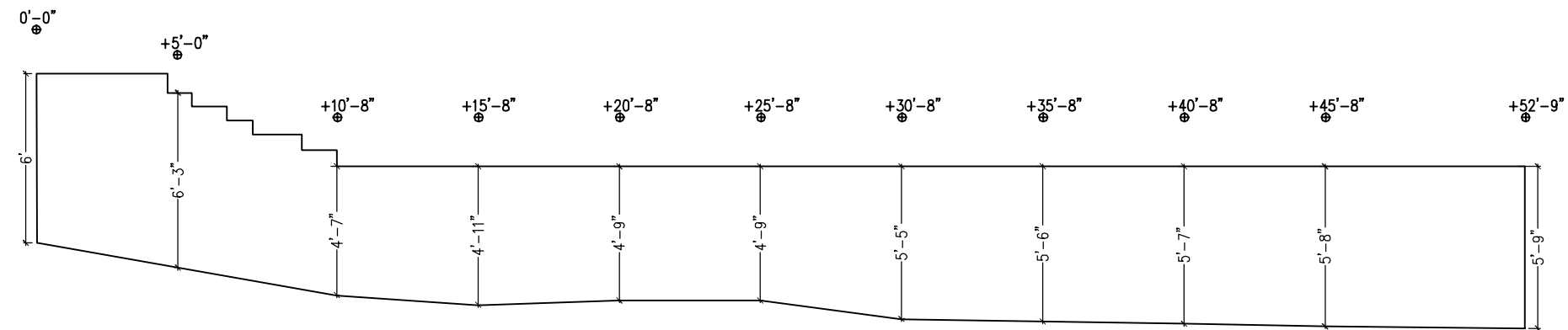
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	CHECKED BY MB	DATE 8/14/23
	FILE MISC/31BR	DRAWING NUMBER C-02
	2 OF 3	

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SOUTHEAST UPPER WALL ELEVATION
SCALE: 3/16" = 1'-0"



SOUTHEAST LOWER WALL ELEVATION
SCALE: 3/16" = 1'-0"

2	12/05/24	Title Block updated
1	04/24/24	Per Reviewer's revised comments dt. 3/13/24
No.	Date	Revision
DRAWING TITLE		
SOUTHEAST WALL ELEVATIONS		
PROJECT		
AS-BUILT RETAINING WALL WITH GEOGRID		
CLIENT/OWNER		
JOSE MARCOS DeOLIVEIRA		
LOCATION:		
31 BRADFORD AVE, WEST ORANGE, NJ		
ARCHITECT OF RECORD		
KSIEENGINEERING, P.C80 BROADMAN PKWY, JERSEY CITY, NJ 07305TEL: (201)736-7546Email : ksiengineering@gmail.com		
SEAL: Mirza K. Baig, NJ P. E. Lic. No. 24GE047206600	DRAWN BY	SCALE
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	FILE	DRAWING NUMBER
	MISC/31BR	C-03
3 OF 3		

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