

WESTCHESTER COUNTY 17 Bedford Road Armonk, New York 10504-1898

PLANNING DEPARTMENT Adam R. Kaufman, AICP Director of Planning

Telephone: (914) 273-3542 Fax: (914) 273-3554 www.northcastleny.com

#### **GROSS LAND COVERAGE CALCULATIONS WORKSHEET**

Applic	ation Name or Identifying Title: 21 Nethermont Ave	Date: 12/11/2020
Tax M	ap Designation or Proposed Lot No.: 122.16-4-7	
Gross	Lot Coverage	
1.	Total lot Area (Net Lot Area for Lots Created After 12/13/06):	7,546
2.	Maximum permitted gross land coverage (per Section 355-26.C(1)(a)):	3264
3.	BONUS maximum gross land cover (per Section 355-26.C(1)(b)):	
	Distance principal home is beyond minimum front yard setback 0   x   10 =	
4.	<b>TOTAL Maximum Permitted gross land coverage</b> = Sum of lines 2 and 3	3264
5.	Amount of lot area covered by <b>principal building:</b> existing +proposed =	1711
6.	Amount of lot area covered by <b>accessory buildings:</b> existing +proposed =	0
7.	Amount of lot area covered by <b>decks:</b> existing + proposed =	293
8.	Amount of lot area covered by <b>porches:</b> existing +proposed =	60
9.	Amount of lot area covered by <b>driveway, parking areas and walkways:</b> existing + proposed =	1029
10.	Amount of lot area covered by <b>terraces:</b> existing +proposed =	0
11,	Amount of lot area covered by <b>tennis court</b> , <b>pool and mechanical equip</b> : existing + proposed =	0
12.	Amount of lot area covered by all other structures: existing + proposed =	15
13.	Proposed gross land coverage: Total of Lines $5 - 12 =$	3108

If Line 13 is less than or equal to Line 4, your proposal **complies** with the Town's maximum gross land coverage regulations and the project may proceed to the Residential Project Review Committee for review. If Line 13 is greater than Line 4 your proposal does not comply with the Town's regulations.

Signature and Seal of Professional Preparing Worksheet

12/11/2020 Date



PLANNING DEPARTMENT

Adam R. Kaufman, AICP

**Director of Planning** 

**TOWN OF NORTH CASTLE** 

WESTCHESTER COUNTY 17 Bedford Road Armonk, New York 10504-1898

January 29, 2019 Telephone: (914) 273-3542 Fax: (914) 273-3554 www.northcastleny.com

# FLOOR AREA CALCULATIONS WORKSHEET

Applicat	ion Name or Identifying Title:	21 NETHERMONT AVE.	Date:	12/11/20
Tax Map	Designation or Proposed Lot No.:	S/B/L 122.16-4-7		
<u>Floor Ar</u>	ea			
1.	Total Lot Area (Net Lot Area for Lo	ots Created After 12/13/06):		7,546
2.	Maximum permitted floor area (pe	r Section 355-26.B(4)):		3,136.5
3.	Amount of floor area contained wit			1,205
4.	Amount of floor area contained wit			1,416
5.	Amount of floor area contained wit			504
6. _	Amount of floor area contained wit	hin porches capable of being enclosed: _ proposed =		
7.	Amount of floor area contained wit	hin basement (if applicable – see definition): _ proposed =		
8.	Amount of floor area contained wit	hin attic (if applicable – see definition): _ proposed =		
9.	Amount of floor area contained with existing +			
10. Pro	posed floor area: Total of Lines	s 3 – 9 =		3,125

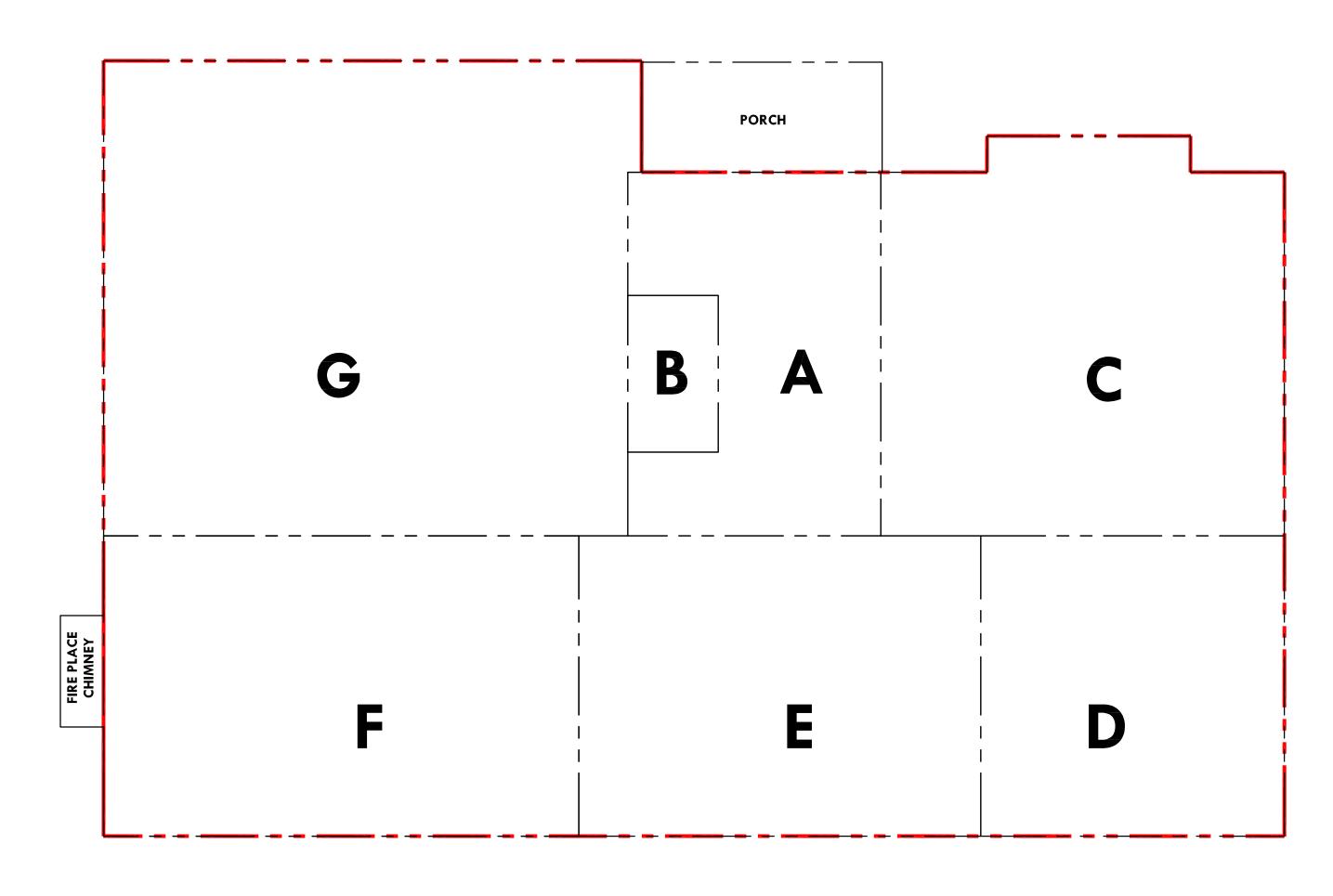
If Line 10 is less than or equal to Line 2, your proposal **complies** with the Town's maximum floor area regulations and the project may proceed to the Residential Project Review Committee for review. If Line 10 is greater than Line 2 your proposal does not comply with the Town's regulations.

Signature and Seal of Professional Preparing Worksheet

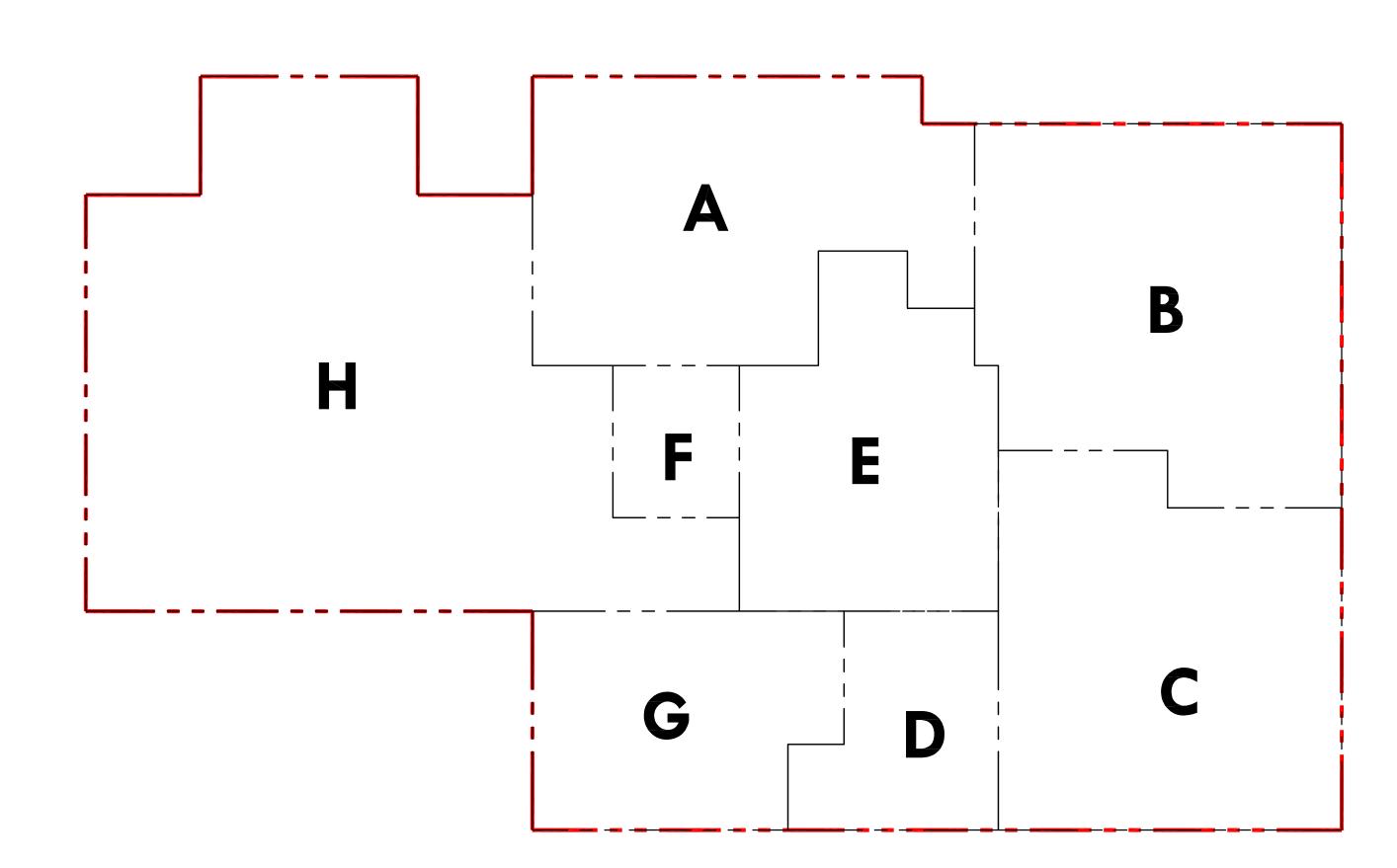


12/14/2020

Date



# **1ST FLOOR**



2ND FLOOR

FLOOR AREA CALCULATIONS
1ST FLOOR
HALLWAY A = 155 SQ. FT.
PWR. RM. B = 30 SQ. FT.
LIVING ROOM C = 310 SQ. FT.
DINING ROOM D = 183 SQ. FT.
KITCHEN E = 240 SQ. FT.
FAMILY ROOM F = 287SQ. FT.
(2) CAR GARAGE G = 504 SQ. FT.
TOTAL SQ. FT. (1ST FLOOR) 1,709 SQ. FT.
2ND FLOOR
BED ROOM #1 A = 200 SQ. FT.
BED ROOM #2 B = 227 SQ. FT.
BED ROOM #3 C = 210 SQ. FT.
BATH ROOM D = 69 SQ. FT.
HALLWAY E = 134 SQ. FT.
LAUNDRY F = 34 SQ. FT.
MASTER BATH ROOM G = 112 SQ. FT.
MASTER BED ROOM H = 430 SQ. FT.
TOTAL SQ. FT. (2ND FLOOR) 1,416 SQ. FT.
TOTAL COMBINED SQUARE FOOTAGE = 3,125 SQ. FT.

JEFFI JEFFI TAYL ARCHIT 572 NORTH B WHITE PLAINS, NE TEL 914 28	OR ECT ROADWAY W YORK 10603
* STATE OF N	ARCHIIRCI AUTON M VOR 1 4 2020
REVISIONS: 12.14.20 REVISED PER RPRC COMMENTS	
PROJECT NO. START DATE: DRAWN BY: SCALE:	9458 08.02.20 FTA (R.M AS NOTED
SHEET TITLE: FLOOR / CALCULA	
DELAURENTIIS RESIDENCE NEW HOUSE CONSTRUCTION	21 NETHERMONT AVENUE TOWN OF NORTH CASTLE, NY 10504
SHEET NO:	1_00



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# Application for Site Development Plan Approval

# Application Name

DELAURENTIS - VACANT LOT - 21 NETHERMONT AVE NEW HOUSE CONSTRUCTION - TAX ID: SECTION 122.16-BLOCK 4- LOT 41



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# **Important General Information**

- Prior to submitting an application, the "Notice to Applicants" should be reviewed.
- To appear before the Planning Board, all required application materials shall be submitted not later than **12:00 P.M.**, **Monday**, **fourteen (14) days** prior to the date of the Planning Board meeting at which the application is scheduled to be heard or as otherwise noted by the Planning Board Secretary. Continuing Business can be submitted 12 days prior to the Next Planning Board meeting by the close of business. Except where noted.

If all required application materials, including the pertinent application fee and escrow monies are not submitted by that deadline, the application shall be automatically removed from the agenda.

At the discretion of the Planning Board Chairman, the application may be rescheduled, if appropriate, for the next available Planning Board meeting or the application may be removed from future agendas altogether. Without prior authorization from the Planning Board, application submissions shall not be accepted at Planning Board meetings.

- At the time of submission, all required application materials shall be submitted. **Piecemeal** submissions **shall not** be accepted. Substitution of previously submitted materials shall not be permitted.
- All submissions shall be dated, with revision dates identified on new submissions.
- All submissions shall be accompanied by a cover letter describing the project and/or any changes as compared to previous submissions.
- For distribution purposes and mailing to the Planning Board Members and others (as required), multiple copies of application materials shall be collated into separate sets, each containing one copy of every submitted document. All application materials shall be submitted in a form that fits into a 12" x 17" envelope. Plans shall be folded and rubber banded as necessary.
- To be considered complete for Planning Board hearing purposes, an application package shall contain the information identified in Parts IV and V of this application form.
- For purposes of completing this application form, all responses provided shall be printed, except as otherwise specified.



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# AT THE TIME OF SUBMISSION TO THE PLANNING DEPARTMENT PLEASE MAKE SURE THE FOLLOWING IS PROVIDED

- ✓ SUBMISSION OF A SINGLE PDF FILE (PLANS, APPLICATION FORM, OTHER PAPERWORK) ON A DISK, THUMBDRIVE OR EMAIL
- ✓ COVER LETTER DESCRIBING THE PROJECT OR CHANGES TO THE PROJECT
- ✓ ALL PLANS ARE SIGNED AND SEALED BY A LICENSED NYS PROFESSIONAL
- ✓ ALL PLANS SHALL BE COLLATED AND FOLDED INTO 8 INDIVIDUAL SETS



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# **NOTICE TO APPLICANTS**

In the Town of North Castle, the Planning Board is responsible for the review and approval of all applications concerning site plans, subdivisions and lot line changes; some applications concerning special use permits, wetlands permits and tree removal permits; and the environmental review of those applications over which it has jurisdiction. The Planning Board may also have an advisory role in connection with some applications before the Town Board, such as those involving other categories of special use permits and zoning amendments.

The Planning Board is composed of five volunteer members – all residents of North Castle – who are appointed by the Town Board for five-year terms. As part of the review of some applications, the Planning Board is assisted on an as-needed basis by other lay boards of the Town, such as the Conservation Board (CB), the Zoning Board of Appeals (ZBA), the Open Space Committee and the Architectural Review Board (ARB). As part of the review of most applications, the Planning Board is also assisted by the Director of Planning, the Town Engineer, the Town Attorney and other special consultants when required.

#### FEES:

If you submit an application for Planning Board review, you will be required to reimburse the Town for the cost of professional review services, including legal and engineering services, incurred in connection with the review of your application. The charges for professional planning review services have been \$120/hour. If other types of professional consultant review services are required, those charges will be in accord with fees usually charged for such services and pursuant to a contractual agreement between the Town and such professional.

At the time of submission of an application, the Planning Board will require the establishment of an escrow account from which withdrawals shall be made to reimburse the Town for the cost of consultant fees and professional staff services.

## **ESCROW ACCOUNT:**

Escrow Accounts are established for each application. Monies will be deducted from the account for professional review services rendered. Monthly escrow disbursement summaries will be mailed for your reference regarding your project. When the balance in such escrow account is reduced to one-third (1/3) of its initial amount, a letter will be mailed to the applicant and the applicant shall deposit additional funds into such account to restore its balance to the amount of the initial deposit. Additional information on these requirements is provided in the North Castle Town Code (see Sections 355-79B and 275-36.C).



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#### **PROCEDURE:**

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Prior to submitting an application to the Planning Board for review and approval, prospective applicants should schedule an appointment with the Planning Board Secretary at (914) 273-3542 for a consultation with the Town Planner and the Town Engineer. When the appointment is made, a verbal description of the proposal should be provided to the Planning Board Secretary. The Town of North Castle is providing the services of the Director of Planning and the Town Engineer for *initial* consultation at no cost to the applicant so that it is possible to conduct the application review as efficiently as possible for the benefit of the applicant as well as the Planning Board.

After meeting with the Town Planner and Town Engineer, prospective applicants should prepare one complete set of application documents and plans. This set will be reviewed for completeness by the Town Planner. If determined to be incomplete, the Planning Department will submit a checklist indicating which items have not been adequately addressed. If determined to be complete, the checklist will be initialed and the Applicant should submit the remainder of the required application packages.

Once the checklist has been initialed and all application packages have been submitted, the Planning Board Secretary will schedule the application for the first available opening on the Planning Board's meeting agenda. However, if the required application material packages, including the pertinent application fee are not received at the Planning Board office by 12:00 PM, Monday, 14 days prior to the date of the Planning Board meeting at which you are scheduled to appear (or otherwise scheduled by the Planning Board Secretary), your application will be automatically removed from the agenda. At the discretion of the Planning Board Chairman, your application may be rescheduled, if appropriate, for the next available Planning Board meeting or the application may be removed from future agendas altogether. Additional requirements pertinent to each type of application are provided on the individual application forms, which you should carefully review prior to submitting your application.

When an application is deemed complete and submitted for review, it will be forwarded to the Planning Board Members and its professional advisors in advance of the meeting to allow adequate time for review, preparation of written reports and site inspections as necessary. Your application may also be forwarded to other boards and staff of the Town as well as to agencies outside of the Town, if required. Compliance with State Environmental Quality Review (SEQR) procedures is also required as part of the processing of all applications.

At your first appearance before the Planning Board, the Applicant will describe the project and the Planning Board will discuss any preliminary issues. The Planning Board discussion may be continued at future meetings, or if the Planning Board review has progressed sufficiently, the Application may be scheduled for a public hearing (if one is required) The public hearing may occur at a single Planning Board meeting, or it may be adjourned and continued at another Planning Board meeting. Because the nature and complexity of each application varies



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considerably, it is not possible to predict in advance the length of time needed to secure Planning Board approval. There are certain steps that you can take, however, to expedite the review process. These include, but are not limited to, the following:

- Be thoroughly familiar with the requirements pertinent to your application. Carefully review relevant provisions of the North Castle Town Code and the application form for your particular type of application. Be sure to check on what other types of approvals may be required in addition to that of the Planning Board. Approvals by other Town boards or departments as well as agencies outside of the Town may be required before you will be allowed to proceed with your project.
- Make sure that your application materials are accurately prepared and contain all required information. The information that we initially request is required, so make sure that your submission is complete. If supplementary information is requested as the review process continues, make sure that it is submitted in a timely fashion so the Planning Board can continue to move your application along.
- Follow up to make sure that your application materials are being submitted on time, or deliver them to the Planning office yourself.
- Attend the Planning Board meeting at which your application will be discussed and be on time for the meeting. If you cannot appear personally, make sure that your representative will be there and is thoroughly familiar with your application.

If the Application is approved by the Planning Board, a resolution of approval will be adopted by the Planning Board. It is the Applicant's responsibility to address any and all conditions of approval. Permits from the Building Department cannot be issued until all conditions have been addressed and the plans have been signed by the Planning Board Chair and the Town Engineer.

#### ON LINE AGENDAS & PLANNING DEPARTMENT MEMORANDA CAN BE REVIEWED AT

#### WWW.NORTHCASTLENY.COM



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#### **INFORMATION REGARDING PUBLIC HEARINGS**

The North Castle Assessor's Office shall prepare a list of neighbors to be notified for the neighbor notifications and public hearings - A minimum of one week's notice is required. The fee is \$50.00 which includes the list of neighbors and two sets of labels for mailing. The Assessor's Office may be reached Monday – Friday from 8:30 a.m.– 4:30 p.m. at 273-3324. You may also e-mail your request to assessor@northcastleny.com

When requesting your list please reference the list of application types below so that you can tell the Assessor's office how many feet on all sides of the property to create the list for.

<u>Subdivisions</u> - All lots zoned R-10, R-5 and R-2F shall notice all neighbors within 200 feet from all sides of their property. All other zoning districts shall notice neighbors within 500 feet from all sides of their property. Public hearing notice must be published in the newspaper.

<u>Special Use Permit for Structures over 800 sq ft. & Accessory Apartment</u> - All Zoning Districts shall notice all neighbors within 250 feet from all sides of their property. Public hearing notice must be published in the newspaper.

<u>Site Plan, Non Residential</u> - All Zoning Districts shall notice all neighbors within 250 feet from all sides of their property. Public hearing notice must be published in the newspaper.

<u>Site Plan, Residential/ Neighbor Notification</u> – All zoning districts R-3/4A or smaller shall notice all neighbors within 250' from all sides of their property. All zoning districts zoned R-1A or larger shall notice all neighbors within 500' from all sides of the property. No public hearing required, no publication in the newspaper required.

<u>Wetlands Permit</u> - All Zoning Districts shall notice all abutting property owners. Public hearing notice must be published in the newspaper.

2. The Director of Planning will prepare a Public Notice. The applicant and or professional will review, sign, date and return to the Planning Department Secretary. If there are any changes necessary, please edit and return for corrections. The corrections will be made and emailed back to the applicant who will forward it to the Journal Newspaper, when applicable.

If notification to the newspaper is not required, please continue to #3.

### V. INFORMATION TO BE INCLUDED ON SITE DEVELOPMENT PLAN

The following checklist is provided to enable the Applicant to determine if he/she has provided enough information on the site development plan for the Planning Board to review his/her proposal. Applicants are advised to review ARTICLE VIII, Site Development Plan of the North Castle Town Code for a complete enumeration of pertinent requirements and standards prior to making application for site development plan approval.

The application for site development plan approval will not be accepted for Planning Board review unless all items identified below are supplied and **so indicated with a check mark in the blank line provided.** If a particular item is not relevant to the subject property or the development proposal, **the letters "NA" should be entered instead**. In addition, the project will not be scheduled on a Planning Board agenda until the Applicant receives an initialed "site plan checklist" from the Planning Department.

The information to be included on a site development plan shall include:

#### Legal Data:

- Name of the application or other identifying title. SHELT 2
  - Name and address of the Property Owner and the Applicant, (if different). ON APPLICATION
- $\sqrt{}$  Name, address and telephone number of the architect, engineer or other legally qualified professional who prepared the plan. ON AR

Names and locations of all owners of record of properties abutting and directly across any and all adjoining streets from the subject property, including the tax map designation of the subject property and abutting and adjoining properties, as shown on the latest tax records.

Existing zoning, fire, school, special district and municipal boundaries.

Size of the property to be developed, as well as property boundaries showing dimensions and bearings as determined by a current survey; dimensions of yards along all property lines; name and width of existing streets; and lines of existing lots, reservations, easements and areas dedicated to public use.

Reference to the location and conditions of any covenants, easements or deed restrictions that cover all or any part of the property, as well as identification of the document where such covenants, easements or deed restrictions are legally established.

Schedule of minimum zoning requirements, as well as the plan's proposed compliance with those requirements, including lot area, frontage, lot width, lot depth, lot coverage, yards, off-street parking, off-street loading and other pertinent requirements.

Locator map, at a convenient scale, showing the Applicant's entire property in relation to surrounding properties, streets, etc., within five hundred (500) feet of the site.

North arrow, written and graphic scales, and the date of the original plan and all revisions, with potation identifying the revisions.

A signature block for Planning Board endorsement of approval.

#### **Existing Conditions Data:**

Location of existing use and design of buildings, identifying first floor elevation, and other structures.

Location of existing parking and truck loading areas, with access and egress drives thereto.

Location of existing facilities for water supply, sanitary sewage disposal, storm water drainage, and gas and electric service, with pipe sizes, grades, rim and inverts, direction of flow, etc. indicated.

Location of all other existing site improvements, including pavement, walks, curbing, retaining walls and fences.

Location, size and design of existing signs.

Location, type, direction, power and time of use of existing outdoor lighting.

Location of existing outdoor storage, if any.

Existing topographical contours with a vertical interval of two (2) feet or less.

Location of existing floodplains, wetlands, slopes of 15% or greater, wooded areas, landscaped areas, single trees with a DBH of 8" or greater, rock outcrops, stone walls and any other significant existing natural or cultural features.

#### **Proposed Development Data:**

Proposed location of lots, streets, and public areas, and property to be affected by proposed easements, deed restrictions and covenants.

Proposed location, use and architectural design of all buildings, including proposed floor elevations and the proposed division of buildings into units of separate occupancy.

Proposed means of vehicular and pedestrian access to and egress from the site onto adjacent streets.

Proposed sight distance at all points of vehicular access.

Proposed number of employees for which buildings are designed

Proposed streets, with profiles indicating grading and cross-sections showing the width of the roadway; the location and width of sidewalks; and the location and size of utility lines.

Proposed location and design of any pedestrian circulation on the site and off-street parking and loading areas, including handicapped parking and ramps, and including details of construction, surface materials, pavement markings and directional signage.

Proposed location and design of facilities for water supply, sanitary sewage disposal, storm water drainage, and gas and electric service, with pipe sizes, grades, rim and inverts, direction of flow, etc. indicated.

Proposed location of all structures and other uses of land, such as walks, retaining walls, fences, designated open space and/or recreation areas and including details of design and construction.

Location, size and design of all proposed signs.

\_ Location, type, direction, power and time of use of proposed outdoor lighting.

Location and design of proposed outdoor garbage enclosure.

Location of proposed outdoor storage, if any.

Location of proposed landscaping and buffer screening areas, including the type (scientific and common names), size and amount of plantings.

Type of power to be used for any manufacturing

Type of wastes or by-products to be produced and disposal method

In multi-family districts, floor plans, elevations and cross sections

\_ The proposed location, size, design and use of all temporary structures and storage areas to be used during the course of construction.

Proposed grade elevations, clearly indicating how such grades will meet existing grades of adjacent properties or the street.

Proposed soil erosion and sedimentation control measures.

For all proposed site development plans containing land within an area of special flood hazard, the data required to ensure compliance with Chapter 177 of the North Castle Town Code.

For all proposed site development plans involving clearing or removal of trees with a DBH of 8" or greater, the data required to ensure compliance with Chapter 308 of the North Castle Town Code.

For all proposed site development plans involving disturbance to Town-regulated wetlands, the data required to ensure compliance with Chapter 340 of the North Castle Town Code.

F:\PLAN6.0\Application Forms\2016 Full Set\Part B - Site Devel 2016.doc



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You may email your public notice to legals@lohud.com. Please request an affidavit of publication which must be submitted to the Planning Board secretary prior to the public hearing. The Journal News requires three days prior notice before 12 noon, not counting weekends and holidays, for ad placement. Make sure the notice placement of the ad in the Greater Westchester Area. This notice cannot be published any sooner than 20 days prior to the meeting and must be published no less than 10 days prior to the meeting.

If you have any questions regarding your publication you may call 888-516-9220: Email Address: legals@lohud.com

It is suggested that you purchase the newspaper for your records the day the notice is published.

- **3.** Send out the Public Hearing Notice/ Neighbor Notification by First Class Mail. Notice shall be mailed by the applicant in official envelopes provided by the North Castle Planning Department; the list of noticed neighbors will be prepared by the Assessor's Office. This must be sent out no less than 10 days prior to the meeting and no more than 20 days prior to the meeting date. A Certificate of Mailing (PS Form 3817 or 3877) shall be filled out and post marked by the Post Office on the day of mailing. Neighbor Notifications no publication in the newspaper required.
- 4. The Friday before the meeting or no later than 12:00 p.m. the day of the meeting the following **must** be submitted.
  - List of Neighbors prepared by the Assessor's Office
  - Certificate of Mailing PS form 3817 or 3877 post marked by the US Post Office
  - Affidavit of publication from the Newspaper (only if published in the newspaper)

UNITED STATES
POSTAL SERVICE ®

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Total Number of Pieces Listed by Sender	Total Number of Pieces Received at Post Office	Postmaster, Per (Name of re	eceiving employee)													
PS Form <b>3877</b> , April 2	2015 (Page 1 of 2)	Complete in Ink	Priv	acy No	tice: Fo	r more ir	formation	on USF	S privad	y poli	cies, v	visit u	sps.c	om/p	rivacy	policy

PS Form **3877**, April 2015 (*Page 1 of 2*) PSN 7530-02-000-9098

Firm Mailing Book For Accountable Mail



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#### APPLICATIONS REQUIRING PLANNING BOARD APPROVAL SCHEDULE OF APPLICATION FEES

Type of Application	Application Fee
Site Development Plan	\$200.00
Each proposed Parking Space	\$10
Special Use Permit (each)	\$200 (each)
Preliminary Subdivision Plat	\$300 1 <sup>st</sup> Lot \$200 (each additional lot)
Final Subdivision Plat	\$250 1 <sup>st</sup> Lot \$100 (each additional lot)
Tree Removal Permit	\$75
Wetlands Permit	\$50 (each)
Short Environmental Assessment Form	\$50
Long Environmental Assessment Form	\$100
Recreation Fee	\$10,000 Each Additional Lot
Discussion Fee	\$200.00

Prior to submission of a sketch or preliminary subdivision Plat, an applicant or an applicant's representative wishes to discuss a subdivision proposal to the Planning Board, a discussion fee of \$200.00 shall be submitted for each informal appearance before the board.

\*Any amendment to previously approved applications requires new application forms and Fes\*



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# PLANNING BOARD SCHEDULE OF ESCROW ACCOUNT DEPOSITS

<b>Type of Application</b> <b>Deposit*</b>	Amount of Initial Escrow Account				
Concept Study	\$500.00				
Site Plan Waiver for Change of Use	\$500.00				
Site Development Plan for:					
Multifamily Developments	\$3,000.00 plus \$100.00 per proposed dwelling unit				
Commercial Developments	\$3,000.00 plus \$50.00 for each required parking space				
1 or 2 Family Projects	\$2,000.00				
Special Use Permit	\$2,000.00 plus \$50.00 for each				
Subdivision:	required parking space				
Lot Line Change resulting in no new lots	\$1,500.00				
All Others	\$3,000.00 plus \$200.00 per proposed new lot in excess of two (2)				
Preparation or Review of Environmental Impact Statement	\$15,000.00				

\* If a proposed action involves multiple approvals, a single escrow account will be established. The total amount of the initial deposit shall be the sum of the individual amounts indicated. When the balance in such escrow account is reduced to one-third (1/3) of its initial amount, the applicant shall deposit additional funds into such account to restore its balance to the amount of the initial deposit.

**Applicant Signature** 

13/2020

# I. IDENTIFICATION OF PROPERTY OWNER, APPLICANT AND PROFESSIONAL REPRESENTATIVES

Name of Property Owner: Dino DeLauren	tis & Michelle DeLaurentis	
Mailing Address: <u>3 Wilton Rd., Rye Brook,</u>	NY 10573	
Telephone: 914-565-4505 Fax:		e-mail ddelauren@hotmail.com
Name of Applicant (if different):		
Address of Applicant:		
Telephone: Fax	:	e-mail
Interest of Applicant, if other than Proper	ty Owner:	
Is the Applicant (if different from the pro-	perty owner) a Contract Vendee?	
Yes No X		
If yes, please submit affidavit sating such	. If no, application cannot be rev	iewed by Planning Board
Name of Professional Preparing Site Plan Eliot Senor, P.E.	:	
Address: Gabriel E. Senor, P.C., 90 N Cent	ral Ave., Hartsdale NY 10530	
Telephone: 914-422-0070	Fax:	e-mail info@gesenor.com
Name of Other Professional:	or, AIA	
Address: Taylor Associates - Architects, 572	North Broadway, White Plains, NY 1	0603
Telephone:914-289-0011	Fax:	e-mail jt@taylorarchitects.com
Name of Attorney (if any):		
Address:		
Telephone:	Fax:	e-mail

#### **Applicant Acknowledgement**

By making this application, the undersigned Applicant agrees to permit Town officials and their designated representatives to conduct on-site inspections in connection with the review of this application.

The Applicant also agrees to pay all expenses for the cost of professional review services required for this application.

It is further acknowledged by the Applicant that all bills for the professional review services shall be mailed to the Applicant, unless the Town is notified in writing by the Applicant at the time of initial submission of the application that such mailings should be sent to a designated representative instead.

Date: Signature of Applicant: Date: 9/13/2020 Signature of Property Owner:

MUST HAVE BOTH SIGNATURES

# II. IDENTIFICATION OF SUBJECT PROPERTY

Street Address: \_\_\_\_\_21 Nethermont Ave.

3

Locat 280	ion (in relation to nearest in	<b>e</b> ,	om Dd C			
	feet (north) south, east ing Street(s): Nethermont A					
	Ing Street(s):		Block	4	Lat	41
					Lot	1-J
	Iap Designation (OLD): Sec	-		4	Lot	-J
	g District:					
Land	Area in North Castle Only (	if different)				
Fire D	District(s) N. White Plains	_School District(s	) Valhalla			
Is any	portion of subject property	abutting or located	l within five hur	ndred (500)	feet of the f	ollowing:
	The boundary of any city, No Yes (adjacent) If yes, please identify nam The boundary of any exist No _X_ Yes (adjacent)	Yes (within 5 ne(s): <u>White Plains</u> ing or proposed Co	ounty or State pa		ther recreati	ion area?
	The right-of-way of any ex or highway? No <u>X</u> Yes (adjacent)				thruway, ex	pressway, road
	The existing or proposed r for which the County has a	established channe	l lines?	-	l owned by	the County or
	No X Yes (adjacent)	Yes (within	500 feet)	_		
	The existing or proposed b or institution is situated?	ooundary of any co	unty or State ow	vned land or	n which a pu	ublic building
	No X Yes (adjacent)	Yes (within	n 500 feet)			
	The boundary of a farm op No Yes (adjacent) _					
Does 1	he Property Owner or Appl	icant have an inter	est in any abutti	ng property	?	
	No <u>×</u> Yes			5 r		
If yes,	please identify the tax map	designation of tha	t property:			

# **III. DESCRIPTION OF PROPOSED DEVELOPMENT**

Proposed Use: Single Family Residential		
Gross Floor Area: Existing None	S.F. Proposed 3,125	S.F.
Proposed Floor Area Breakdown:		
Retail	S.F.; Office	_S.F.;
Industrial	S.F.; Institutional	_S.F.;
Other Nonresidential	S.F.; Residential 3,125	_S.F.;
Number of Dwelling Units:	1	
Number of Parking Spaces: Existing	0 Required 2	Proposed 2
Number of Loading Spaces: Existing	N/A Required	Proposed
Earthwork Balance: Cut <u>200</u> C.Y.	Fill <u>1100</u> C.Y.	
Will Development on the subject proper	ty involve any of the following	<del>y</del> .
Areas of special flood hazard? N (If yes, application for a Develop Code may also be required)		ter 177 of the North Castle Town
Trees with a diameter at breast h	eight (DBH) of 8" or greater?	
No Yes X (If yes, application for a Tree Re Code may also be required.)	emoval Permit pursuant to Chap	pter 308 of the North Castle Town
Town-regulated wetlands? No (If yes, application for a Town $\overline{V}$ Code may also be required.)	X Yes Vetlands Permit pursuant to Ch	apter 340 of the North Castle Town
State-regulated wetlands? No _ (If yes, application for a State W		uired.)

# **IV. SUBMISSION REQUIREMENTS**

The site development plan application package shall include all materials submitted in support of the application, including but not limited to the application form, plans, reports, letters and SEQR Environmental Assessment Form. **Submission of the following shall be required:** 

- One (1) set of the site development plan application package (for distribution to the Town Planner for preliminary review purposes).
- Once a completed preliminary site plan checklist has been received from the Planning Department, eight (8) additional sets of the site development plan application package (for distribution to Planning Board, Town Engineer, Town Attorney, Town Planner, Planning Board Secretary, police, fire department and ambulance corps).
- One (1) additional reduced sized set (11" x 17") of the site development plan application package if any portion of the subject property abuts or is located within five hundred (500) feet of the features identified in Section II of this application form (for distribution to Westchester County Planning Board).
- A check for the required application fee and a check for the required Escrow Account, both made payable to "Town of North Castle" in the amount specified on the "Schedule of Application Fees."

(continued next page)

# Short Environmental Assessment Form Part 1 - Project Information

#### **Instructions for Completing**

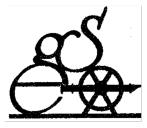
**Part 1 - Project Information. The applicant or project sponsor is responsible for the completion of Part 1.** Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 - Project and Sponsor Information					
Name of Action or Project:					
DeLaurentis - 21 Nethermont Ave - Construction of New House on Vacant Lo	ot				
Project Location (describe, and attach a location map):					
21 Nethermont Ave., White Plains, NY 10603 - Tax ID Section 122.16- Block	4 - Lot	41			
Brief Description of Proposed Action:					
Construction of a single family residence on a vacant lot					
Name of Applicant or Sponsor:	Telepl	none: 914-565-4505			
Dino DeLaurentis	E-Mai				
Address: 3 Wilton Rd.					
City/PO:		State:	Zip Code:	p Code:	
Rye Brook		NY	10573	10573	
<ol> <li>Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation?</li> <li>If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.</li> </ol>					
2. Does the proposed action require a permit, approval or funding from any	other go	overnmental Agency?	NO	YES	
If Yes, list agency(s) name and permit or approval: Town of North Castle: Planning Board Approval, Architectural Review Board	Approv	al, Building Permit		X	
	0.215	acres			
<ul> <li>b. Total acreage to be physically disturbed?</li> <li>c. Total acreage (project site and any contiguous properties) owned</li> </ul>	0.215	acres			
	0.215	_acres			
4. Check all land uses that occur on, adjoining and near the proposed action         Urban       Rural (non-agriculture)         Industrial       Comm         Forest       Agriculture         Parkland       Other (	ercial		ban)		

5. Is the proposed action,	NO	YES	N/A			
a. A permitted use under the zoning regulations?		X				
b. Consistent with the adopted comprehensive plan?	H					
6. Is the proposed action consistent with the predominant character of the existing built or natural		NO	YES			
landscape?			X			
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental An	rea?	NO	YES			
If Yes, identify:		X				
8. a. Will the proposed action result in a substantial increase in traffic above present levels?						
		X				
b. Are public transportation service(s) available at or near the site of the proposed action?						
c. Are any pedestrian accommodations or bicycle routes available on or near site of the proposed ac	tion?	X				
9. Does the proposed action meet or exceed the state energy code requirements?		NO	YES			
If the proposed action will exceed requirements, describe design features and technologies:			X			
10. Will the proposed action connect to an existing public/private water supply?		NO	YES			
If No, describe method for providing potable water:						
11. Will the proposed action connect to existing wastewater utilities?		NO	YES			
If No, describe method for providing wastewater treatment:			X			
12. a. Does the site contain a structure that is listed on either the State or National Register of Historic Places?		NO	YES			
b. Is the proposed action located in an archeological sensitive area?		X				
		X				
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contai	n	NO	YES			
<ul><li>13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contai wetlands or other waterbodies regulated by a federal, state or local agency?</li></ul>		NO X	YES			
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contai		NO	YES			
<ul><li>13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contai wetlands or other waterbodies regulated by a federal, state or local agency?</li><li>b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?</li></ul>		NO X	YES			
<ul> <li>13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contai wetlands or other waterbodies regulated by a federal, state or local agency?</li> <li>b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres:</li> </ul>		NO X X	YES			
<ul> <li>13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contai wetlands or other waterbodies regulated by a federal, state or local agency?</li> <li>b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres:</li> <li>14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check a</li> </ul>	all that	NO X X	YES			
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?         b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?         If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres:	all that	NO X X	YES			
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?         b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?         If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres:	all that	NO X X apply:				
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?         b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?         If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres:	all that	NO X X A A A A A A A A A A A A A A A A A	YES YES YES			
<ul> <li>13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?</li> <li>b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres:</li></ul>	all that	NO X x apply: NO X	YES			
<ul> <li>13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contai wetlands or other waterbodies regulated by a federal, state or local agency?</li> <li>b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres:</li></ul>	all that	NO X x apply: NO X NO				
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?         b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?         If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres:	all that	NO X x apply: NO X	YES			
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?         b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?         If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres:	all that	NO X x apply: NO X NO X NO	YES			
<ul> <li>13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?</li> <li>b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres:</li> <li>14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check a Shoreline ☐ Forest ☐ Agricultural/grasslands ☐ Early mid-successi ☐ Wetland ☐ Urban ☑ Suburban</li> <li>15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?</li> <li>16. Is the project site located in the 100 year flood plain?</li> <li>17. Will the proposed action create storm water discharge, either from point or non-point sources?</li> </ul>	all that	NO X x apply: NO X NO X NO	YES YES YES			
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?         b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?         If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres:	all that	NO X x apply: NO X NO X NO	YES YES YES			
<ul> <li>13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contai wetlands or other waterbodies regulated by a federal, state or local agency?</li> <li>b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres:</li> <li>14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check a Shoreline □Forest □Agricultural/grasslands □Early mid-successi □Wetland □Urban ⊠Suburban</li> <li>15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?</li> <li>16. Is the project site located in the 100 year flood plain?</li> <li>17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes, a. Will storm water discharges flow to adjacent properties? X NO □YES b. Will storm water discharges be directed to established conveyance systems (runoff and storm drain</li> </ul>	all that	NO X x apply: NO X NO X NO	YES YES YES YES			

18. Does the proposed action include construction or other activities that result in the impoundment of	NO	YES
water or other liquids (e.g. retention pond, waste lagoon, dam)?		
If Yes, explain purpose and size:		
	X	
19. Has the site of the proposed action or an adjoining property been the location of an active or closed	NO	YES
solid waste management facility?		
If Yes, describe:	X	
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or	NO	YES
completed) for hazardous waste?		
If Yes, describe:	X	
I AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE B	EST O	F MY
KNOWLEDGE		
Applicant/sponsor name:   Date:		
Signature:		



Gabriel E. Senor, P.C.

Engineers Planners Surveyors 90 N Central Park Avenue Hartsdale, NY 10530 *Tel*: (914) 422-0070 *Fax*: (914) 422-3009 *E-Mail*: info@Gabriel E Senor P.C.enor.com

#### 10/22/2020

#### To: Town of North Castle Planning Board

Re: 21 Nethermont Ave - Section, Block & Lot: 122.16/4/41 – Response to RPRC Determination Letter

Dear Members of the Planning Board,

After attending a meeting with the RPRC, we have been referred to the Planning Board to discuss the subject project further. Below are responses to the questions/comments from the RPRC Determination Letter dated 10/06/2020:

#### **Residential Project Review Committee Determination Letter Comments**

- Provide calculations and exhibits demonstrating how average grade was calculated.
- See GABRIEL E SENOR P.C. Site Plan Package **Stormwater Pollution Prevention Plan** Sheet 3 of 6, SW-1 under the zoning table
- Provide calculations and exhibits demonstrating how roof midpoint was calculated.
- See Architects Plan Package sheets A-400 and A-401 by Taylor Associates Architects, PC
- Given the amount of exposed foundation, the basement may be considered a story. Provide calculations and exhibits demonstrating that basement would not be considered a story. If the basement is a story it must be counted in gross floor area. In addition, if the basement is a story, it would appear that the proposed building would exceed the maximum number of stories (2.5)

Definition of Gross Floor Area: ... "basement is considered a "story" in accordance with one of the following three alternative measurements:

Where the finished surface of the floor above the basement is more than six feet above average grade. See Architects Plan Package - sheets A-400 and A-401 by Taylor Associates – Architects, PC

Where the finished surface of the floor above the basement is more than six feet above the finished ground level for more than 50% of the total building perimeter.

- See GABRIEL E SENOR P.C. Site Plan Package - **Stormwater Pollution Prevention Plan** Sheet 3 of 6, SW-1 under the zoning table

Where the finished surface of the floor above the basement is more than 12 feet above the finished ground level at any point along the building perimeter."

- See Architects Plan Package - sheets A-400 and A-401 by Taylor Associates – Architects, PC

- The submitted planting plan should be revised to include a plant schedule that includes the common name, scientific name, label, size and quantity of all proposed plants.
- See Landscape Architect Plan Package **Planting Plan** by Walter G. Nestler P.C. Dated 10/10/2020.
- It is noted that the proposed rear retaining walls are located directly on the property line. This configuration creates a significant adverse visual impact to the adjoining property. The retaining walls should be relocated so that screening plantings can be installed at the base of the wall in an effort to mitigate visual impacts.
- The wall has been relocated and screening has been proposed on the low side of the wall. See GABRIEL E SENOR P.C. Site Plan Package **Stormwater Pollution Prevention Plan** Sheet 3 of 6, SW-1 for wall location and see Planting Plan by Landscape Architect for screening.
- The site plan should be revised to depict the location of all Town-regulated trees. In addition, the plan should depict all trees proposed to remain as well as depict (and quantify) trees proposed to be removed.
- See GABRIEL E SENOR P.C. Site Plan Package Existing Conditions, Topographical Survey, Tree Removals Plan Sheet 1 of 6, TR-1.
- Pursuant to Section 308-15.A(11) of the Town Code, the Applicant should prepare a plan detailing the replacement proposed to mitigate impacts from the proposed tree removal.
- See Landscape Architect Plan Package **Planting Plan** by Walter G. Nestler P.C. Dated 10/10/2020.
- The site plan should be revised to depict Town-regulated steep slopes. The plan should also depict (and quantify in square feet) the total proposed amount of Town-regulated steep slope disturbance.
- See GABRIEL E SENOR P.C. Site Plan Package Steep Slope Analysis sheet 2 of 6, TS-1 where all steep slope areas and disturbance within the steep slope areas are clearly shown.
- The Applicant should submit a gross land coverage calculations worksheet for review.
- Gross Land Coverage worksheet/calcs attached.
- The Applicant should submit a gross floor area calculations worksheet for review.
- GFA worksheet calculations attached.
- Sight distance profiles have been provided. The sight line plan shall be made part of the signed/sealed site plan set.
- See GABRIEL E SENOR P.C. Site Plan Package Sight Distance Analysis sheet 5 of 6, SD-1
- The sight distance profile facing south shall be revised to correctly illustrate the topography. It appears the sight profile to the south is reversed.
- See Revised on GABRIEL E SENOR P.C. Site Plan Package Sight Distance Analysis sheet 5 of 6, SD-1
- Existing vegetation on the neighboring 29 Nethermont Avenue will likely hinder adequate visibility. Clearing will be required. If so, agreement from the neighbor and a sight easement will be needed.
- The owner will discuss an agreement with the neighbor following an initial discussion with the board.



GABRIEL E SENOR P.C.

Page 2 of 5 21 Nethermont Ave - Section, Block & Lot: 122.16/4/41 Response to RPRC Determination Letter

- It is recommended that the applicant evaluate driveway access from the south side of the lot.
- Section 355-59 (B)(3) Does not allow a driveway steeper than 4% within 35 ft of the centerline of the roadway. In order to meet this requirement, even if we shifted the house as far west and south as possible to gain distance, the house would have to be raised by 3+ ft. If we raised the house 3+ ft we would not align with the building height requirements unless we added another wall in the rear or made the rear yard steeper which would make it not usable. The next option would be to add a 3 ft wall along the rear of the home, which would not be aesthetically favorable. We are also limited in our design due to the GFA and height requirements of the building. We spent a lot of time exploring options of a driveway entrance and drainage location to prevent use of a pump chamber and this designed proved to be the only design that works with the topography of the lot and kept us in conformance with town code.
- The plan shall clarify how the slot drain will connect to the 6-inch discharge to the pump chamber.
- See Pump Chamber Detail in GABRIEL E SENOR P.C. Site Plan Package Stormwater Pollution Prevention Plan Sheet 4 of 6, SW-2.
- The slot drain detail is not appropriate for H-20 loading. Revise and replace as needed.
- See slot drain detail in GABRIEL E SENOR P.C. Site Plan Package Stormwater Pollution Prevention Plan Sheet 4 of 6, SW-2.
- The applicant has provided cut and fill volume estimates. It is noted that approximately 900 cubic yards of fill will be imported to the site. Given the narrow roadways in this neighborhood, this office is concerned with the amount of truck traffic required for delivery. Details regarding delivery, staging and stockpiling shall be added to the plan.
- See GABRIEL E SENOR P.C. Site Plan Package Fill Delivery and Staging Plan Sheet 4 of 6, FS-1.
- The driveway detail shall be revised to illustrate and note that the maximum curb cut shall be18 feet wide.
- Revised
- A north arrow shall be added to Sheet SW-1 (1 of 2).
- Added
- The stormwater calculations shall be revised to correctly illustrate the hydrologic soils native tothe site. The same hydrologic soil group shall be used for existing and proposed conditions. The hydrologic analysis shall be updated as needed.
- Pre development conditions on the site are woods with light underbrush and there are visible outcroppings at various locations therefore we know there is shallow rock. We used the D soils group because we are aware that bedrock is shallow, therefore the site has high runoff potential and according to USDA NRCS, Class D soils are "Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission". Given the



GABRIEL E SENOR P.C.

Page **3** of **5** 21 Nethermont Ave - Section, Block & Lot: 122.16/4/41 Response to RPRC Determination Letter USDA guidance and our professional evaluation, we decided that classifying the pre existing conditions as such. Post development will have a decrease in slope in the rear yard and will incorporate fill material and bring grass onto the site therefore improving runoff volume/rate.

- The plan proposes a pumped discharge to the storm system on Nethermont Avenue. We continue to recommend that the applicant evaluate a mitigation system that does not require a pump. If required, design details and sizing calculations for the pump system shall be provided.
- We have included a system in the front yard for the impervious urfaces in the font portion of the property that allow us to gain pitch to the street drain, while downsizing the system in the rear, to accommodate a smaller area. Pump Design details are provided. See pump chamber detail.
- The Highway Department shall opine as to whether a pump discharge is acceptable to discharge to their storm basin.
- The plan shall include design details for the proposed retaining walls. Calculations, preparedby a NYS Licensed Professional Engineer shall be provided to demonstrate adequate factors ofsafety for sliding, overturning and soil bearing.
- Retaining wall design has been provided.
- The Site Plan shall clearly state that the proper construction of all walls four (4) feet and greater in height shall be certified by the Design Professional prior to issuance of a Certificate of Occupancy.
- See Note # 32
- The retaining wall and stormwater mitigation layout shown on the architect's drawings shall be coordinated with the Engineer's plans. The landscaping shown appears minimal.
- Removed for clarification. Gabriel E Senor Plans should only be referenced for site plan.
- The plans from different Design Professionals shall be cross-referenced to one another.
- All plans now match eachother.
- Provide driveway dimensions.
- Dimensions provided.
- Provide inverts for the proposed sewer service. It appears the basement will need to be served by an ejector pump.
- Inverts shown as anticipated but it is noted that field conditions govern and all inverts should be field verified.
- Provide a saddle connection detail for the sewer service.
- Saddle Connection for sewer and drainage overflow provided on sheet 4 of 6 on stormwater plan



GABRIEL E SENOR P.C.

Page **4** of **5** 21 Nethermont Ave - Section, Block & Lot: 122.16/4/41 Response to RPRC Determination Letter

- Provide water service details (connections, curb box, valve, etc.) and illustrate the location of the property line curb box.
- Water service connection and curb box details on sheet 3 of 6 on stormwater plan.

If you need any further clarification, please contact me.

Sincerg Eliot Senor P.E.





GABRIEL E SENOR P.C.

Page 5 of 5 21 Nethermont Ave - Section, Block & Lot: 122.16/4/41 Response to RPRC Determination Letter

#### Possession NOT indicated





Copies of the survey map not bearing the land surveyor's original blue signature and embossed seal shall not be considered to be a true and valid copy. Copyright Gabriel E. Senor, P.C., 2018. ALL RIGHTS RESERVED.

A Title report lists easements and restrictions if the report was not provided these easements and or restrictions may not be shown . A copy of the title report was not provided. A copy of the deed was provided. Survey may be subject to easements not shown.

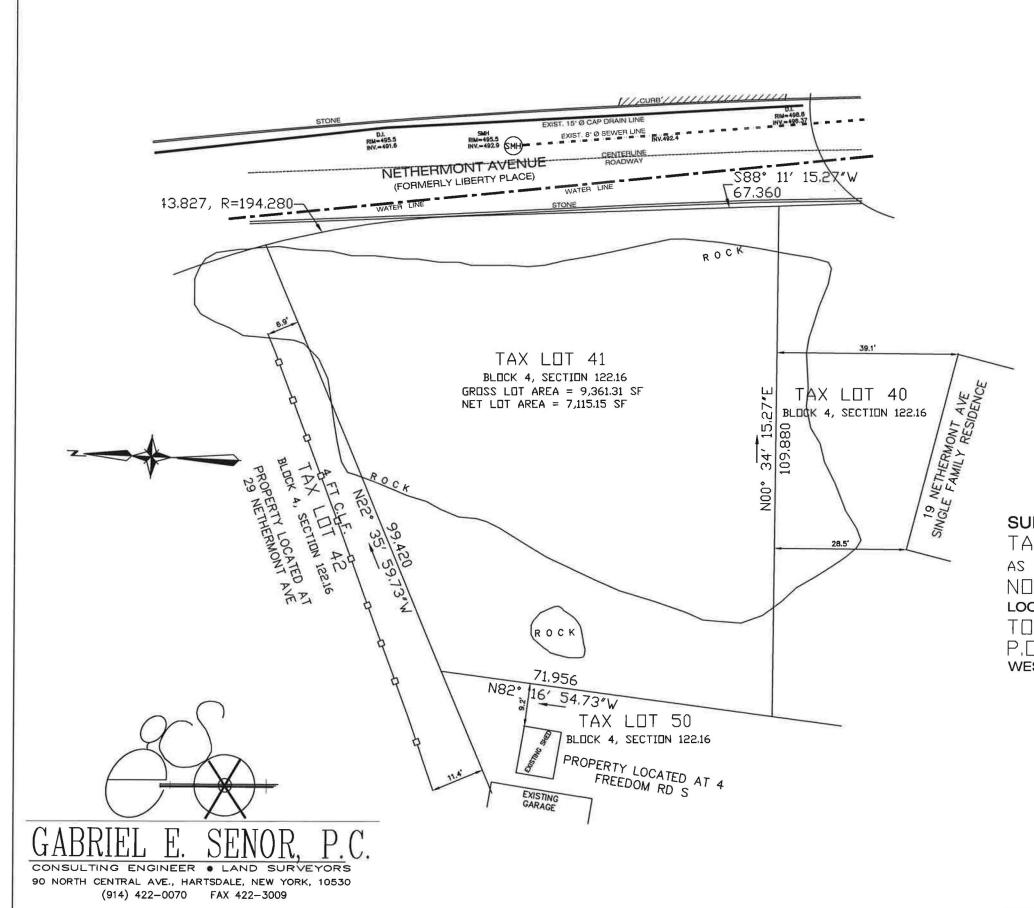
Surface elevations and underground appurtenances, if any, whether or not shown are not guaranteed. Fences or possession lines generally do not follow a straight line. The survey shows straight lines between located points. Any dimensions shown are to the surveyed point only. Labeled dimensions cannot be used for any other point along the line.

Unauthorized alteration or additions to the survey map is a violation of Section 7209 sub-section 2 of the New York State Education Law

NOT FOR TITLE TRANSFER

SURVEY OF 21 NETHERMONT AVE AS SHOWN ON THE OFFICIAL TAX MAP OF NORTH CASTLE LOCATED IN THE TOWN OF NORTH CASTLE P.O. BOX: WHITE PLAINS, NY WESTCHESTER COUNTY, NEW YORK.

SCALE: 1" = 20'

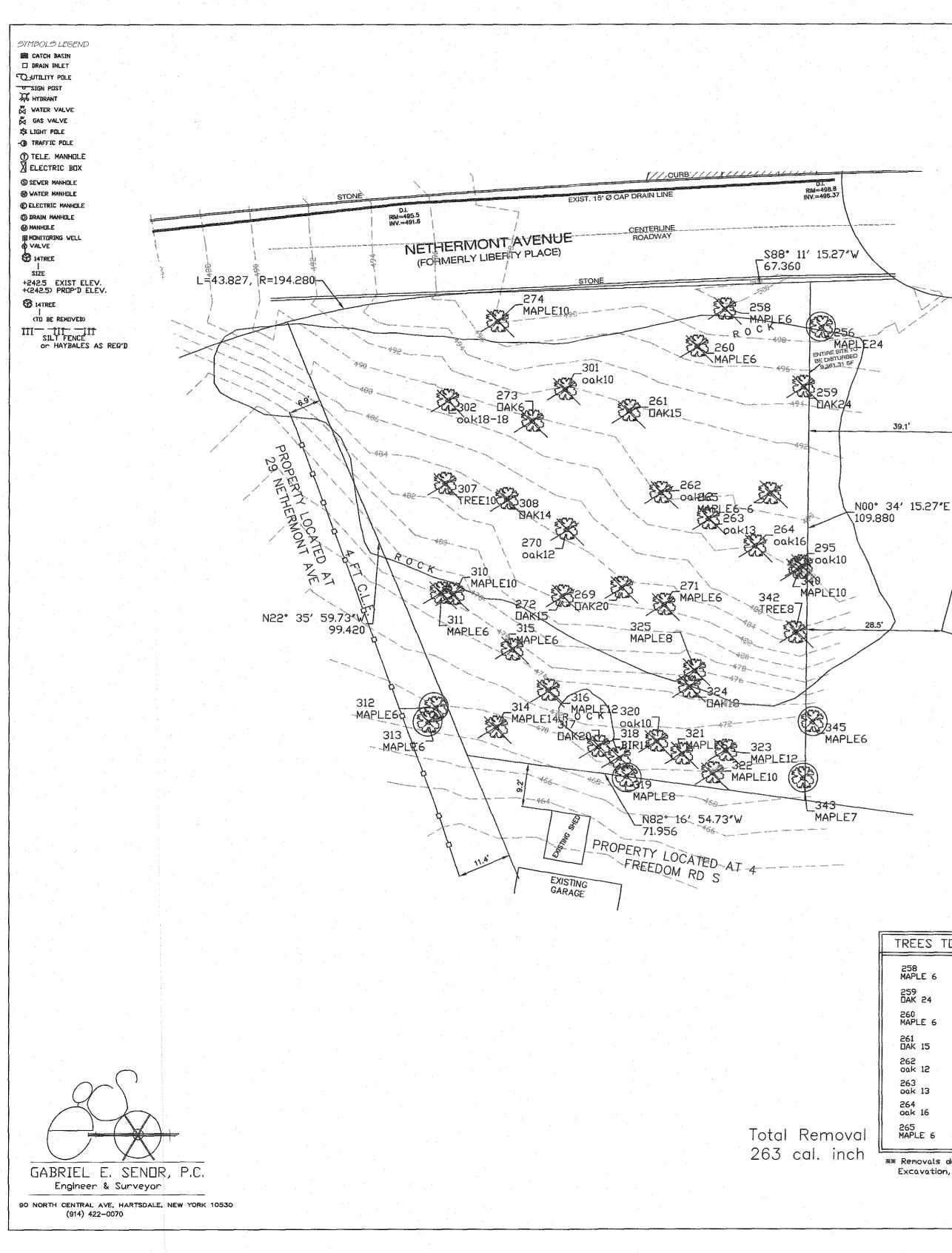


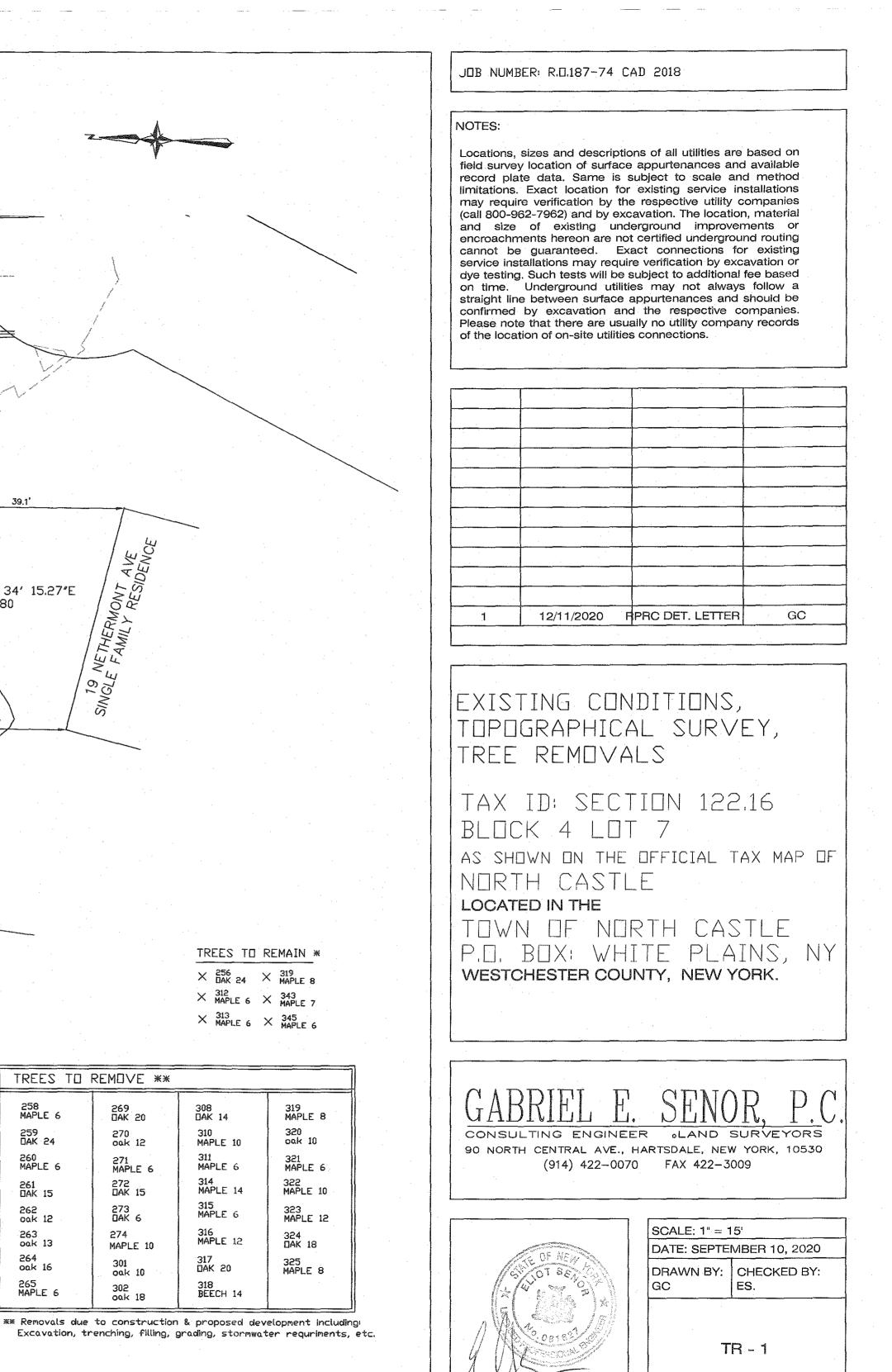
This is to certify that this map and the survey on which it is based were made in accordance with the "Minimum Standard" Detail Requirements for New York State Association of Land Surveyors. This Survey is a representation of the property as surveyed on September 10, 2020 the date that the field work was performed. Subsequent revision dates do not constitute an updated survey.

Eliot Senor, L.S. New York State Lic. No. 049822

# TAX ID: SECTION 122.16 BLOCK 4 LOT 41

DATE: SEPTEMBER 10, 2020



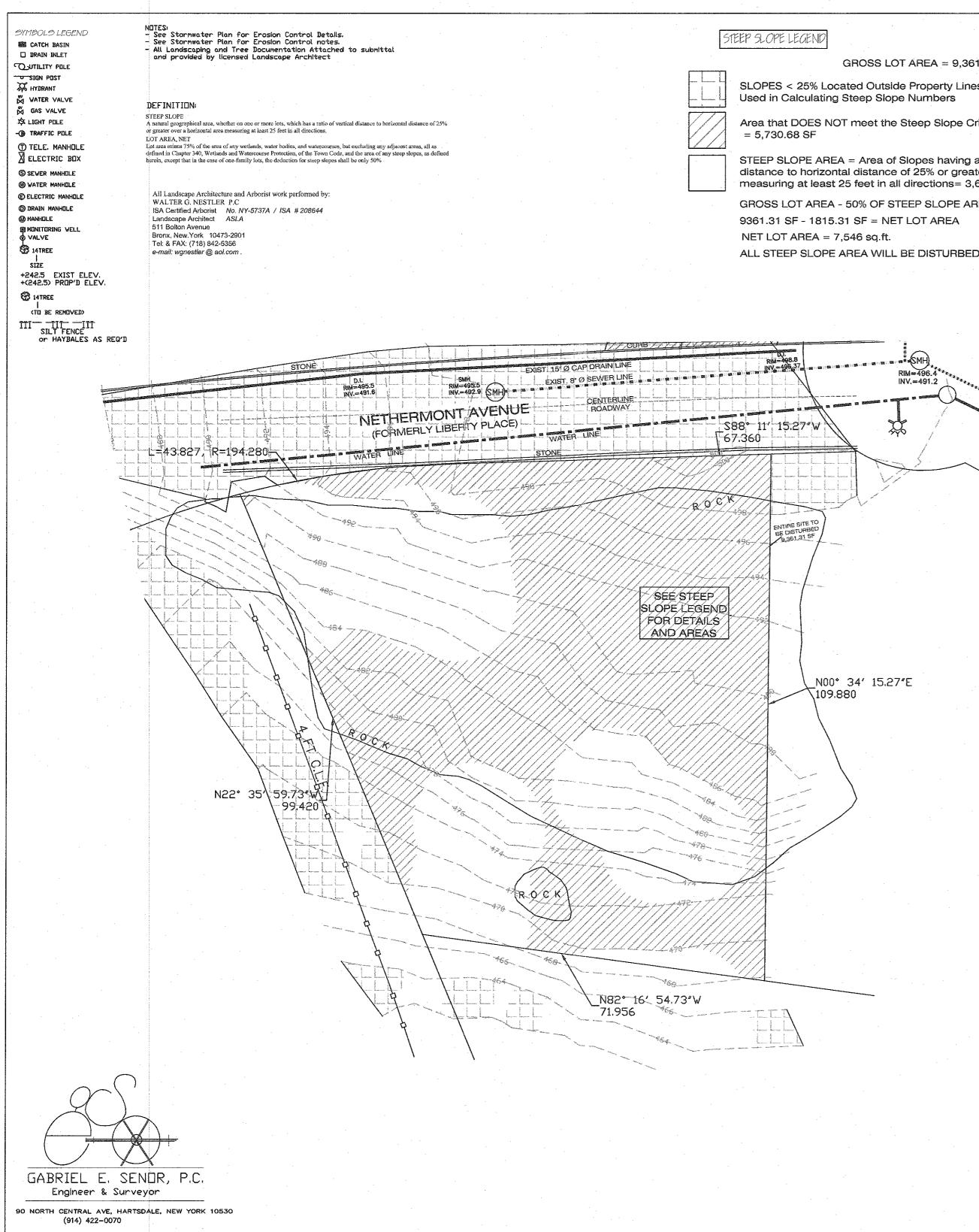


SHEET 1 of 6

TREES TO REMOVE **						
258	269	308	319			
MAPLE 6	DAK 20	DAK 14	MAPLE 8			
259	270	310	320			
DAK 24	ook 12	MAPLE 10	oak 10			
260	271	311	321			
MAPLE 6	MAPLE 6	MAPLE 6	MAPLE 6			
261	272	314	322			
DAK 15	DAK 15	MAPLE 14	MAPLE 10			
262	273	315	323			
oak 12	DAK 6	MAPLE 6	MAPLE 12			
263	274	316	324			
oak 13	MAPLE 10	MAPLE 12	DAK 18			
264	301	317	325			
oak 16	oak 10	DAK 20	MAPLE 8			
265	302	318				
MAPLE 6	oak 18	BEECH 14				

39.1'

Excavation, trenching, filling, grading, stormwater requriments, etc.



GROSS LOT AREA = 9,361.3 sq.ft.

SLOPES < 25% Located Outside Property Lines Which Were

Area that DOES NOT meet the Steep Slope Criteria stated below

STEEP SLOPE AREA = Area of Slopes having a ratio of vertical distance to horizontal distance of 25% or greater over a horizontal area measuring at least 25 feet in all directions= 3,630.62 SF

GROSS LOT AREA - 50% OF STEEP SLOPE AREA = NET LOT AREA

. SMH

RIM=496.4

INV.=491.2

Ķ

# JDB NUMBER: R.D.187-74 CAD 2018

#### NOTES:

Locations, sizes and descriptions of all utilities are based on field survey location of surface appurtenances and available record plate data. Same is subject to scale and method limitations. Exact location for existing service installations may require verification by the respective utility companies (call 800-962-7962) and by excavation. The location, material and size of existing underground improvements or encroachments hereon are not certified underground routing cannot be guaranteed. Exact connections for existing service installations may require verification by excavation or dye testing. Such tests will be subject to additional fee based on time. Underground utilities may not always follow a straight line between surface appurtenances and should be confirmed by excavation and the respective companies. Please note that there are usually no utility company records of the location of on-site utilities connections.

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1 1	2/11/2020	R	PRC DE	T. LETTER	-	GC

EXISTING CONDITIONS, TOPOGRAPHICAL SURVEY & STEEP SLOPE ANALYSIS

TAX ID: SECTION 122.16 BLOCK 4 LOT 7 AS SHOWN ON THE OFFICIAL TAX MAP OF

NORTH CASTLE LOCATED IN THE

TOWN OF NORTH CASTLE P.D. BOX: WHITE PLAINS, NY WESTCHESTER COUNTY, NEW YORK.

90 NORTH CENTRAL AVE., HARTSDALE, NEW YORK, 10530 (914) 422-0070 FAX 422-3009

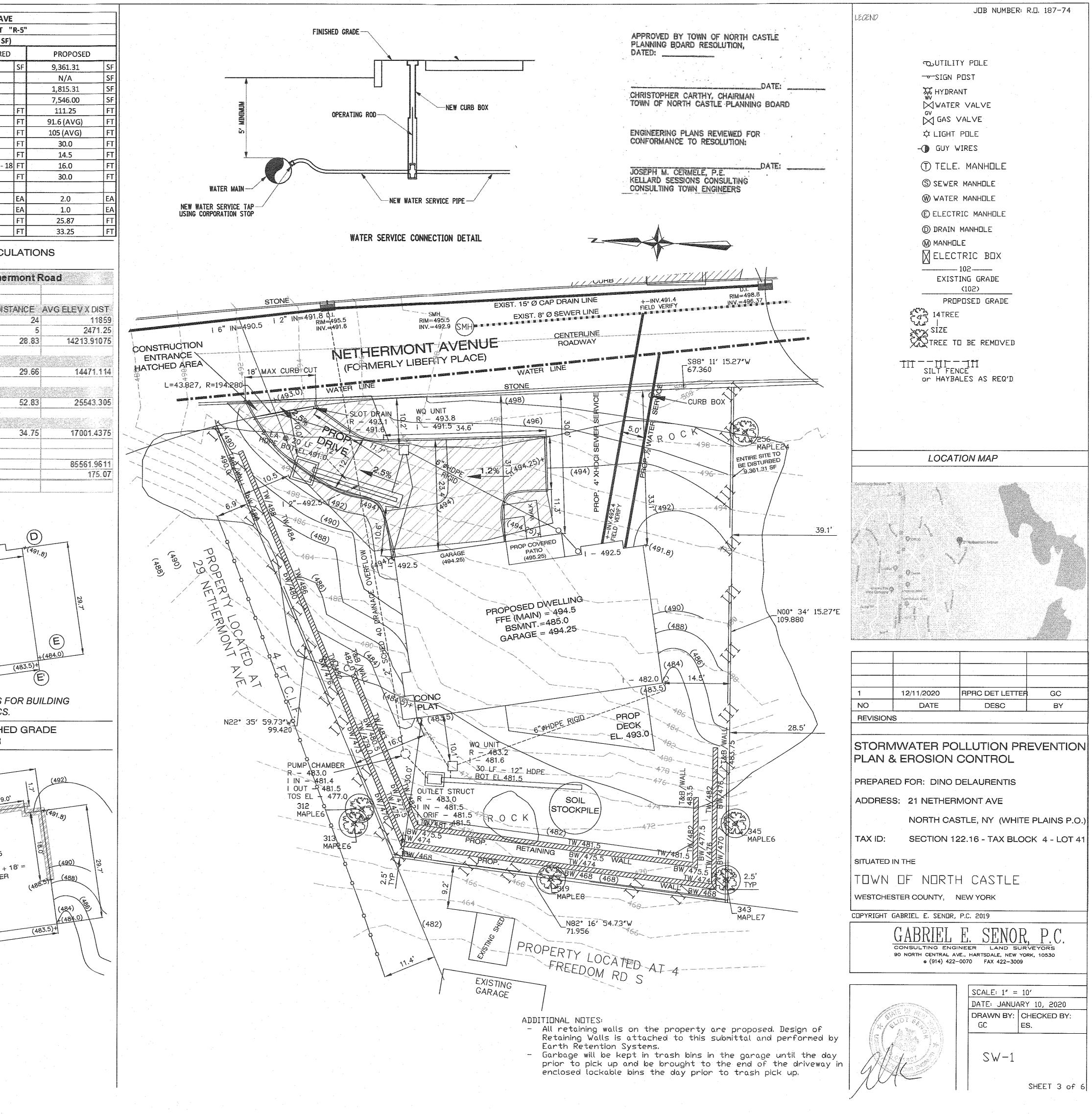
GC

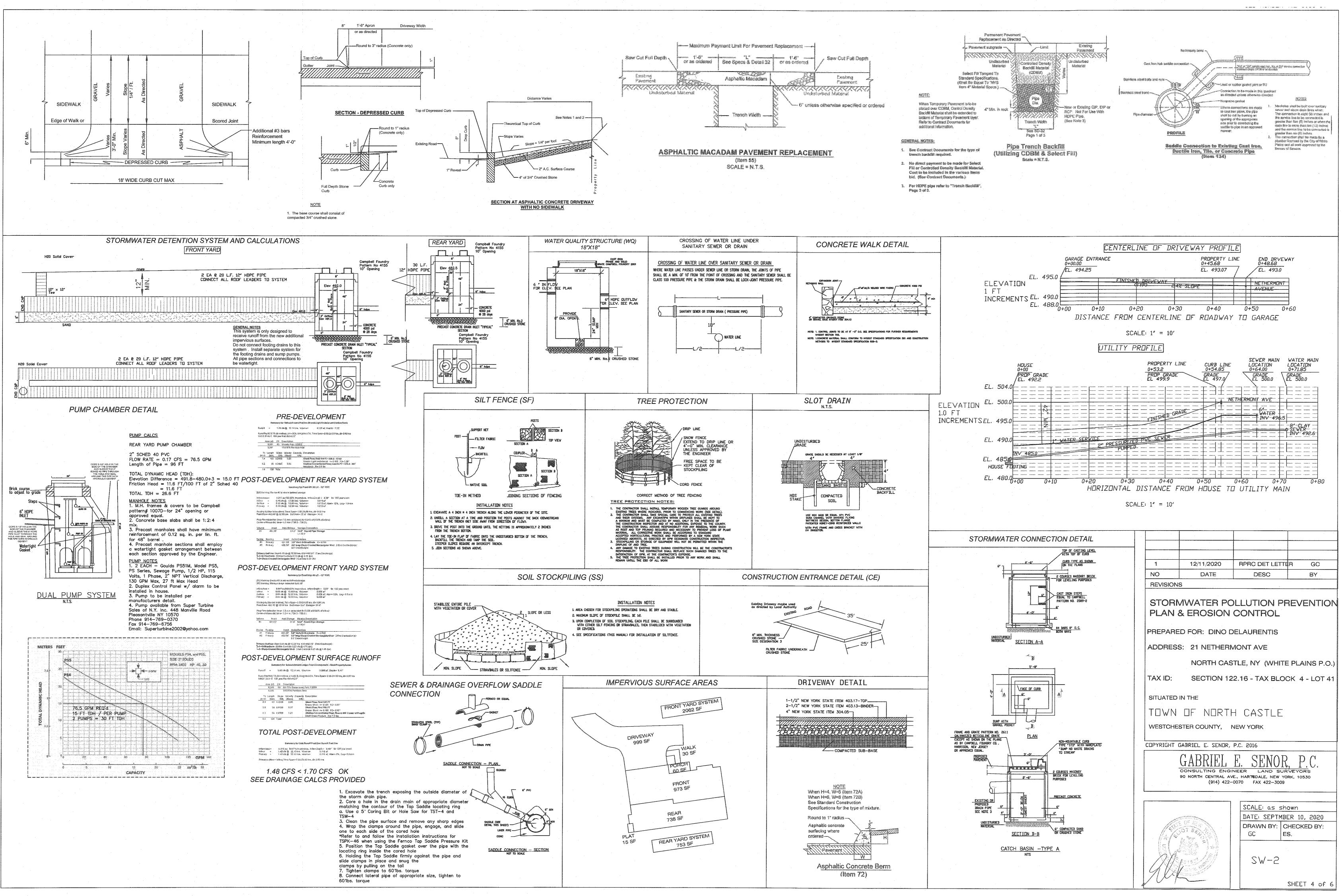
CONSULTING ENGINEER

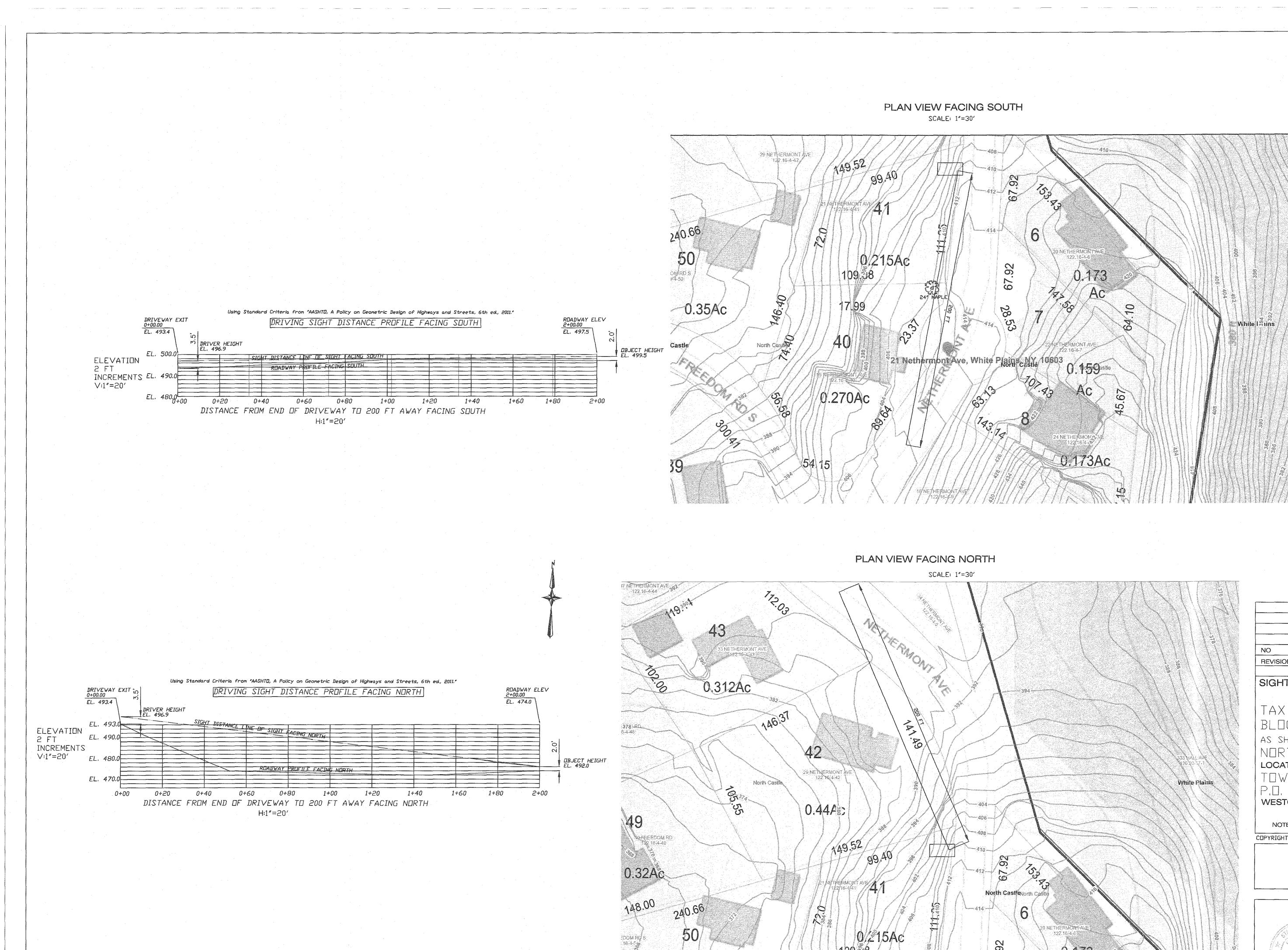
SCALE: 1" = 15' DATE: SEPTEMBER 10, 2020 DRAWN BY: CHECKED BY: ES. TS - 1 SHEET 2 of 6

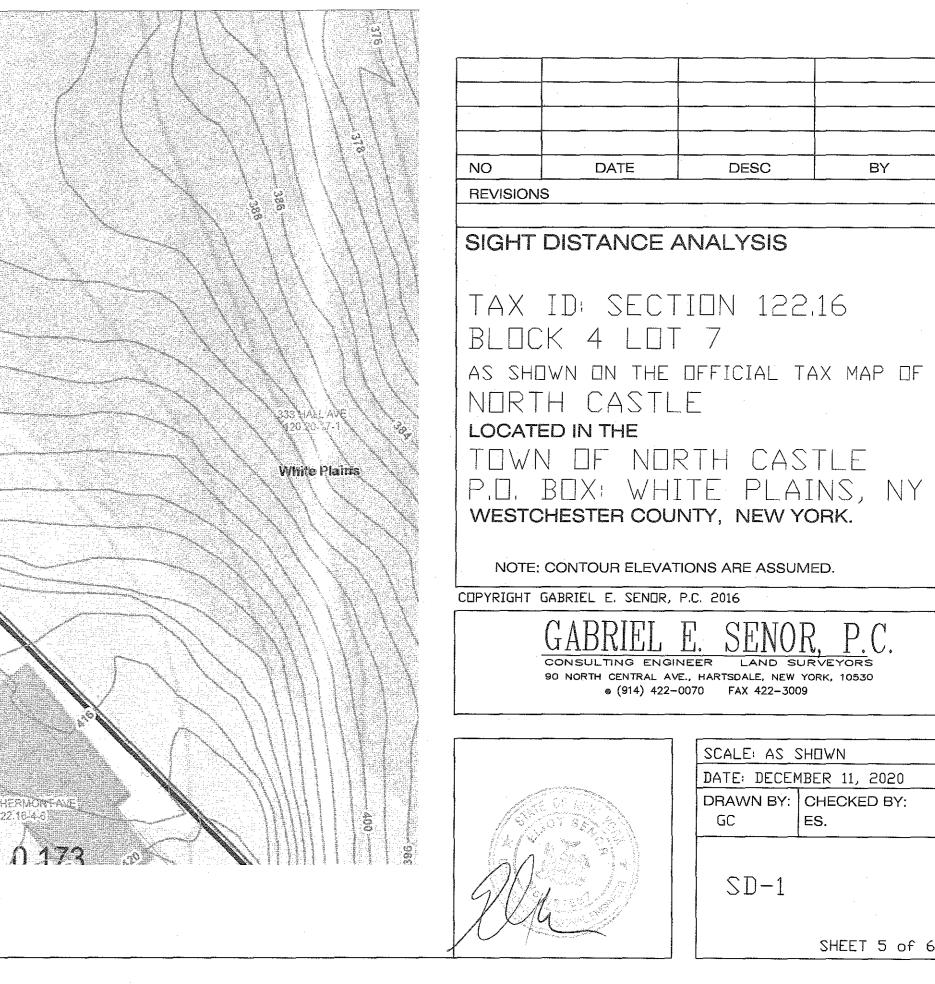
LAND SURVEYORS

GENERAL NOTES		ZONING TABLE - 21 ZONE: SINGLE FAMILY RI TOTAL LOT AREA: 0.	SIDENCE DISTRICT	"R-
<ul> <li>Gabriel E. Senor, P.C. is not responsible for construction supervision unless retained under separate contract.</li> <li>Gabriel E. Senor, P.C. must be notified prior to backfilling any storm water system for inspection if The Engineering</li> </ul>	DESCRIPTIO	ალ 20 მამარ არ მოად აერკალებე აჭერ ბზოლი კა ომიკა რეთ აკი კა კა და მოკორი მით და დადის კა	MIN/REQUIRE	
Dept. will require a final letter of certification from the design engineer for the storm water approval, site work and drainage installation.	MINIMUML	OT AREA	5000	s
Any changes made to these plans shall be approved by Gabriel E. Senor, P.C. Any changes must be filed and approved by the appropriate Department as amendments. Gabriel E. Senor, P.C. is not responsible for damages if changes are made and not approved as in item 1 above.	75% WETLA 50% STEEP S			
All conditions, locations, dimensions and elevations shall be verified by the Contractor or Owner and must report all discrepancies to the Design Engineer prior to the start of construction.	NET LOT AR			
All work and materials shall comply with all applicable codes including, but not limited to the following: NYS Building Code, Local Zoning Code, ACI and AISC.			50	
The Contractor is responsible for all construction means and methods to implement the designs shown. Safety during construction is the responsibility of the Contractor and shall conform to all Local, State and Federal Agencies' requirements.	MIN LOT WI		50 100	
Agencies requirements. The Contractor shall apply for and receive all necessary permits to perform the work shown on these plans prior to the start of construction.	FRONT YAR		30	F
Final grading shall be sloped away from the building and foundations. Unless noted, all drainage piping on this plan is to be 6" Rigid HDPE ASTM F810-07 or better.	SIDE SETBAC		8 F Total Both Sides - 18	
This storm water design plan is not designed to accept footing drains. Refer to Architectural plans for footing drain design. Do not connect footing drains or sump pumps to this surface water drainage system.	REAR YARD		30	F
If the drainage system is to be built in a filled area, the fill should be well drained material with a settling period of one to three months prior to the system installation. Additional percolations are required after the settling period and the system will be revised as percentage.		DADVINC		
system design will be revised as necessary. Proposed Silt Fence to be installed along existing and proposed contours. Orange Construction Fence to be installed along the limits of the proposed disturbance limits line.	OFF-STREET OFF-STREET		2	E
Roof leaders to be connected to the drainage system with 6" rigid HDPE pipe at 2% min. slope or as shown. The Contractor and all Sub-Contractors must submit a "Contractor Certification Statement" as per section 294-8 of the		ING HEIGHT (AVG GRADE TO MID ROOF)		F
IVSDEC "Stormwater Pollution Prevention Plan" manual prior to the start of construction. f imported fill material is required, it shall be certified in writing by a New York State licensed Professional Engineer	MAX BUILDI	ING HEIGHT (HIGHEST SECTION PLANE)	35	F
n-contaminated, clean fill suitable for the intended use. Percolation tests shall be performed by the Design neer to demonstrate that the stormwater management practice will draw down the entire water quality volume n 48 hours. The results of the percolation test (s) shall be submitted to the Municipal Engineer for review and oval.		AVERAGE GRADE EXHIB	T AND CALCI	ULA
bed temporary seeding mixture shall be in accordance with the New York State Standards and Specifications a Erosion Control, dated August 2005. an Istanda and Specification. I standa must be autor because east income a ductile income and		Average Grade calculation	is for 21 Nethe	::::::::::::::::::::::::::::::::::::::
ewer laterals are required for all new construction. Laterals must be extra heavy cast iron or ductile iron pipe or cted by Municipal Engineer. ction permits are is required from the Department of Public Works for Sewer, Water, and Storm Water System		font		raransesta contra
rflows. trenches in the Municipality Right of Way must be backfilled with controlled density fill (k-crete) or as	LOCATION			STAI
d by Municipal Engineer. t opening permit must be obtained from the Municipality, all work in the Right of Way and an	A - B B - C	494 494 1 494.25 494 1	a = 20mmund fallsmännen aussa = 16. maarta = 2012. Allan maat = 20 da maa fala sa aa 2018. Alla a	<u></u> .
ion performed prior to back filling and final approvals. e or re-lay stone curb as directed by Municipal Engineer	C - D	494.25 491	maniferencesses and a second s	
onversion agreement for the basement in Special Flood Hazard Zone must be signed and filed prior to the of a C. of O. for properties subjected to flooding. permit is required from the Department of Public Works. Curb cut maximum width is 18 feet.		right side		
t permit is required from the Department of Public works. Curb cut maximum width is 18 feet. tractor shall schedule with the Municipality a rough grading inspection prior to any framing of a building above braced decking. Excess soils of significance shall be removed and disposed of upon completion of the rough	<u>D-E</u>	491.8 48	487.9	
actures for the storm water management system shall be installed at the earliest date possible when the	· · · · · · · · · · · · · · · · · · ·			
re's roof is complete. The contractor shall consult with the Municipality and schedule this work upon completion on of the rough grading activities.		483.5 483	.5 483.5	
ontractor shall secure a Street Opening Permit with the Municipality for all work to take place on the right of way ling construction of a new driveway apron, and installation of new service laterals.	913an - 744, 2749 4949 1750 1852 2494 5440 982 au	left side		
cessary, the Contractor shall secure a Tree Removal Permit with the Municipality prior to the commencement of truction activities. ractor required to provide Dig Safe NY ticket prior to issuance of permits.	санались на настоя и настоя на на настоя F' - Д	484.5 49	489.25	-14-13- 1944)
instruction of all walls four (4) feet and greater in height shall be certified by the Design Professional prior to ertificate of Occupancy.	Anti-bardeni est Auto-100 Intille - 100euto-100			erenanista en en en el en e
		sum of distance X avg elev		
EROSION CONTROL NOTES	austration in the second s	Sum of distance		and a constraint of the second se
ION & MAINTENANCE OF EROSION CONTROL	S			- 1875 - Rinst av Golfenkom -
RUCTION SCHEDULE				
Y APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 5 DAYS PRIOR TO		B		
ION CONTROL MEASURES stall all erosion control measures prior to start of	A			1
truction. or inspection from the appropriate Municipal Agency having jurisdiction at least 2	(49	(494.25)	28.8'	
s prior to finish. TION BY MUNICIPALITY				
TENANCE (TO BE PERFORMED DURING ALL PHASES OF CONSTRUCTION) ter any rain causing runoff, Contractor to inspect silt fences, etc. and remove any		PROPOSED D	WELLING	
essive sediment and inspect stockpiles and correct and problems with seed ablishment.		FFE (WOULD	1950	
pections shall be documented in writing and submitted to the appropriate Municipal ency having jurisdiction.		BSMNT.= GARAGE=	494.25	
K PILING OF EXCAVATED MATERIAL ip Topsoil and Stockpile.				
ockpile Excavation Subgrade. eed piles with 1 lb. total annual rye or remove from site				
hin two days. CTION BY MUNICIPALITY				(4
AL GRADING		(78, 5) F' $(483.5)$ 52	.8'	
Remove unneeded subgrade from site. Dall for inspection from the appropriate Municipal Agency having jurisdiction at least 2 days prior to finish.		E SEE ARCHITECTURI	A DRAWINGS	FOł
ECTION BY MUNICIPALITY			T SCHEMATICS	
IDSCAPING Spread topsoil evenly over areas to be seeded. Hand rake		FIRST FLOOR EL. > 6FT A		ED
vel. oadcast 1 25lb. bag of Jonathan Green "Fastgrow" mix or		FOR > 50% OF	PERIMETER	
al over areas to be seeded.				
DRAINAGE CALCULATIONS	(492)	(494)	28.8'	
sis was performed utilizing the Soil Conservation Service (SCS) TR-20 5 methodologies. Rainfall intensity was utilized for 100 Year storm	(490)	24.0'	, 25)	<b>••</b>
23" for a 24 hour rainfall in Westchester County. The development is ction of a single family residence with associated impervious areas. as of calculations, the pre-existing condition of the lot was woods with	(488)	AS A	9. 1. 9.	.0 ##
orush and considered a high probability of runoff due to the shallow outcroppings. For the post development condition, excess surface		(494) (494.25)	THATAS	
ter generated by the impervious surfaces of the proposed construction stored in drainage detention structures to be constructed on-site which	(Jage)			
controlled outlet structure entering the existing storm drain system on nt Ave.	P	La HIER EFF (MA	N) = EL. 494.5 - 6 FT = EL. 488.5	
velopment 100 Year Storm Conservation Service's TR-20 method (a more accurate and precise	$\langle \rangle$	34.7. FFE (MAIN) PERIME	N) = EL. 494.0 -6 FT = EL. 488.5 ER = 182.15 FT 1.7' + 1.7' + 28.8' + 1.7' + 28.8' + 1.7' + 28.8' + 1.7' + 28.8' + 1.7' + 28.8' + 1.7' + 28.8' + 1.7' +	+ 18'
on methodology than TR-55) as incorporated in the HydroCAD software d to determine the pre-development and post-development runoff rates		18.6' + 24' + 5' +	- 6 FT ER = 182.15 FT 1.7' + 1.7' + 28.8' + 50% OF PERIMETER	К
ling, driveway and walkway areas.		(Fol 1.9 106.8 r 1		
es of calculations the entire lot area was used. Runoff for pre- nt is 1.70 cfs. using a 100 year storm. (9.23 inch rainfall).		THE P	· .	
velopment 25 Year Storm				
s to be mitigated by a rear yard and front yard system. The rear yard is 30 L.F. of 12" HDPE which will be connected to the roof leader system		4.9	52.8'	
ar of the house. The front yard system is 40 L.F. of 12" HDPE which will ected to the front portion of the home and driveway (see diagrams). The		4(483.5)		
ructures will control the outflow of the system. The entire system has loulated to show that the outflow to the village system will be				
kimately 1.48 cfs. Stormwater Runoff				
gn Storm (yr)   Total Pre- Total Post-				• .
development Development Peak Runoff (cfs) Peak Runoff (cfs) basin				
1.70 1.48				
			· .	
Development basin routing runoff rates for the selected storms				
f has no significant net increase of those of the Pre dition. It is concluded that the proposed design satisfactorily				
Development basin routing runoff rates for the selected storms off has no significant net increase of those of the Pre ondition. It is concluded that the proposed design satisfactorily regulation of no net increase in the rate of offsite storm water				









92

JQ

JOB NUMBER: R.D. 187-74

#### GENERAL INFORMATION AND NOTES:

- THE SITE REQUIRES APPROXIMATELY 900 C.Y. OF FILL
- THERE IS 18 C.Y. OF FILL PER TRUCK LOAD
- THE SITE REQUIRES APPROXIMATELY 50 TRUCK LOADS OF FILL.
- EACH TRUCK WILL TAKE APPROXIMATELY 8 MINUTES TO DUMP AND PULL OFF. - 2 FLAG MEN MUST BE PRESENT AT ALL TIMES DURING DELIVERIES OF FILL IN ORDER TO ENSURE NO ISSUES WITH TRAFFIC FROM EITHER DIRECTION (NORTH OR SOUTH) ON NETHERMONT AVE.
- FILL DELIVERIES TO BE PERFORMED BETWEEN THE HOURS OF 10AM AND 2PM WHEN TRAFFIC IS AT ITS MINIMUM.
- PLEASE NOTE, THE FOUNDATION DOES NOT GET POURED UNTIL BOTH RETAINING WALLS IN THE REAR ARE CONSTRUCTED AND BACK FILLED TO THEIR APPROXIMATE PROPOSED GRADE ELEVATIONS.

## STAGE 1: DIAGRAM A

ASSUMING ALL EROSION CONTROL AND PERMITS/APPROVALS HAVE BEEN OBTAINED, THE FILL DELIVERY/STAGING PLAN IS AS FOLLOWS:

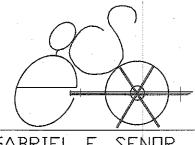
- 1) PERFORM ALL TREE REMOVALS, INCLUDING REMOVAL OF STUMPS.
- 2) BRING 4-5 TRUCK LOADS OF FILL INITIALLY TO LEVEL OUT THE PROPOSED DRIVEWAY AREA WHICH WILL BE USED AS THE TRUCK ENTRANCE/TURN AROUND/DUMPING AREA.
- 3) PREP THE CONSTRUCTION ENTRANCE AREA SHOWN ACCORDING TO THE CONSTRUCTION ENTRANCE DETAIL AND MAKE SURE IT IS STABLE AND FLAT ENDUGH FOR THE DUMP AND DELIVERY TRUCKS TO MANEUVER.
- 4) NEXT THE FIRST TIER OF THE RETAINING WALL WILL BE CONSTRUCTED IN ITS ENTIRETY.
- 5) ON COMPLETION OF THE CONSTRUCTION OF THE FIRST TIER OF THE RETAINING WALL, THE FILL DELIVERIES MAY BEGIN, ACCORDING TO DIAGRAM A NOTES.
  6) AT NO TIME WILL STOCKPILES OF SOIL BE LEFT STAGNANT AT ANY POINT THROUGHOUT THE OPERATION, THE CONTRACTOR IS TO SPREAD THE FILL IMMEDIATELY ON DELIVERY AS DESCRIBED ON THIS PLAN SHEET.

## STAGE 2: DIAGRAM B

- 1) THE SECOND TIER OF THE RETAINING WALL WILL BE CONSTRUCTED IN ITS ENTIRETY. ACCORDING TO THE WALL DESIGN.
- 2) ON THE COMPLETION OF THE WALL CONSTRUCTION, UTILIZING THE SAME CONSTRUCTION ENTRANCE THAT WAS ESTABLISHED DURING STAGE 1, THE FILL DELIVERIES FOR THE BACKFILL OF THE SECOND TIER OF THE WALL WILL BEGIN.
- 3) AFTER THE DUMP TRUCK PULLS IN WITH THE FILL MATERIAL, AND REVERSES TO DUMP IT IN THE LOCATION SHOWN, A FRONT LOADER OR MACHINE OF THE SITE WORK CONTRACTORS CHOICE WILL BE USED TO MOVE THE MATERIAL TO THE REAR YARD BEGINNING AT THE SOUTH END OF THE REAR YARD AND WORKING THEIR WAY TO THE NORTH END OF THE REAR YARD WITH THE BACK FILL.
- 4) AT NO TIME WILL STOCKPILES OF SOIL BE LEFT STAGNANT AT ANY POINT THROUGHOUT THE OPERATION, THE CONTRACTOR IS TO SPREAD THE FILL IMMEDIATELY ON DELIVERY AS DESCRIBED ON THIS PLAN SHEET.

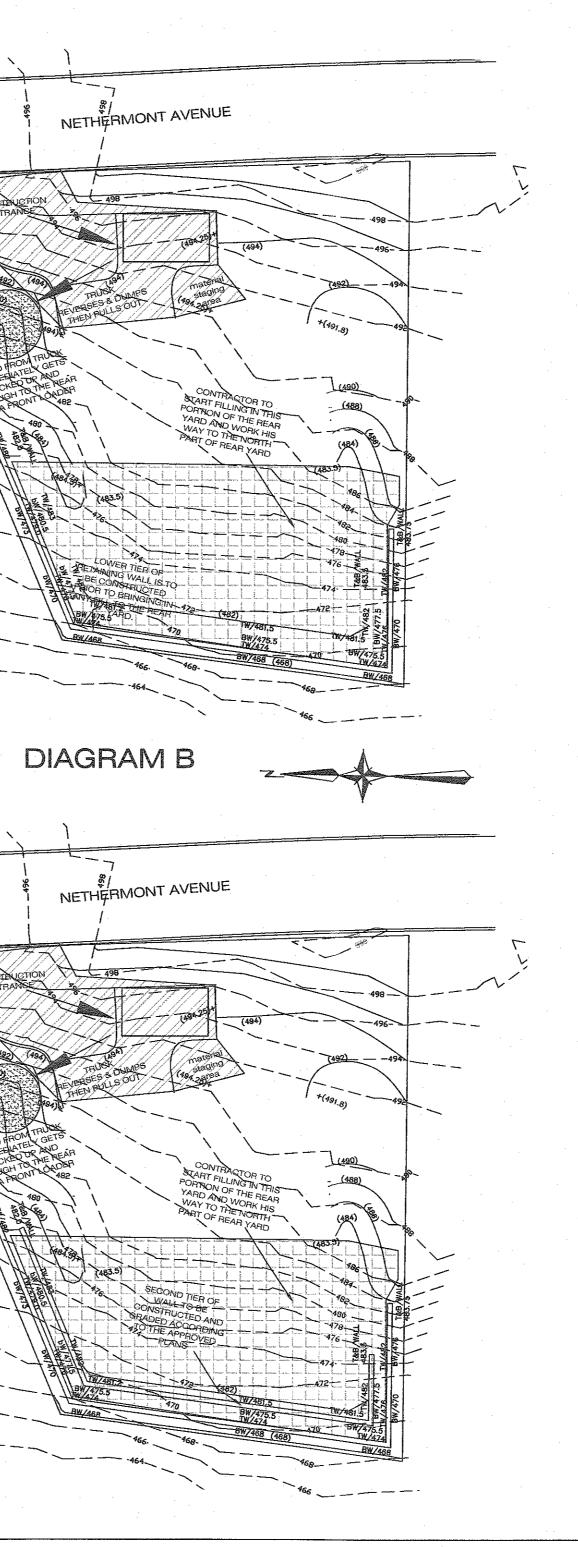
## STAGE 3:

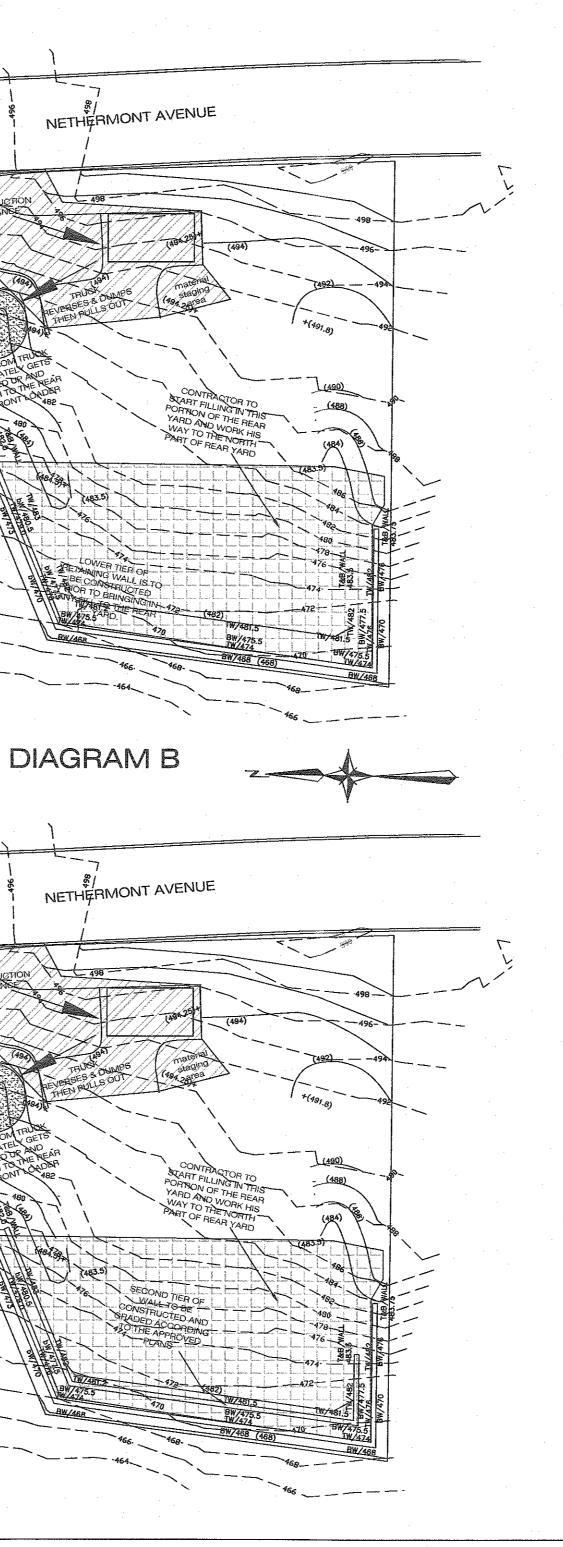
1) ON COMPLETION OF STAGE 2, THE CONTRACTOR MAY BEGIN THE FOUNDATION INSTALLATION AND REMAINING FILL AND SITE WORK ASSOCIATED WITH THE SIDE YARDS AND FRONT YARDS OF THE PROPERTY.



GABRIEL E. SENOR, P.C. Engineer & Surveyor

90 NORTH CENTRAL AVE, HARTSDALE, NEW YORK 10530 (914) 422-0070







(1984) (1984) (1984)



#### JDB NUMBER: R.D.187-74 CAD 2018

#### NOTES:

Locations, sizes and descriptions of all utilities are based on field survey location of surface appurtenances and available record plate data. Same is subject to scale and method limitations. Exact location for existing service installations may require verification by the respective utility companies (call 800-962-7962) and by excavation. The location, material and size of existing underground improvements or encroachments hereon are not certified underground routing cannot be guaranteed. Exact connections for existing service installations may require verification by excavation or dye testing. Such tests will be subject to additional fee based on time. Underground utilities may not always follow a straight line between surface appurtenances and should be confirmed by excavation and the respective companies. Please note that there are usually no utility company records of the location of on-site utilities connections.

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## FILL DELIVERY AND MATERIAL STAGING

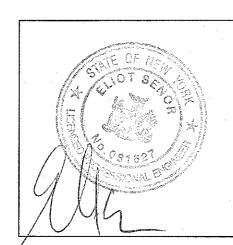
## TAX ID: SECTION 122.16 BLOCK 4 LOT 7

AS SHOWN ON THE OFFICIAL TAX MAP OF NORTH CASTLE

## LOCATED IN THE

TOWN OF NORTH CASTLE P.O. BOX: WHITE PLAINS, NY WESTCHESTER COUNTY, NEW YORK.

CONSULTING ENGINEER ₀LAND 90 NORTH CENTRAL AVE., HARTSDALE, NEW YORK, 10530 (914) 422-0070 FAX 422-3009



SCALE: 1" = 2	20'
DATE: DECEN	/IBER 11, 2020
DRAWN BY: GC	CHECKED BY: ES.
F	<b>S - 1</b> SHEET 6 of 6

# DINO DELAURENTIIS RESIDENCE

# 21 NETHERMONT AVE. NORTH CASTLE, WESTCHESTER COUNTY, NEW YORK

RETAINING WALL (RW) CONSTRUCTION ADDRESSED BY THESE DRAWINGS ARE PART OF A SIGNIFICANTLY LARGER PROJECT BEING BUILT BY THE GENERAL CONTRACTOR, WHO HAS SEPARATELY RETAINED AN EARTHWORK GRADING CONTRACTOR TO ASSIST IN DEVELOPING THE SITE FOR THE OWNER. THE OWNER HAS RETAINED A PROJECT GEOTECHNICAL ENGINEER TO ADVISE IT ON MATTERS RELATIVE TO CONSTRUCTION AND WHO WILL BE PROVIDING QUALITY ASSURANCE TESTING AND OBSERVATION OF THE RW CONSTRUCTION WORK FOR THE OWNER. OUTLINED BELOW IS A BRIEF SUMMARY OF THE RESPONSIBILITIES OF EACH OF THE PARTIES REQUIRED BY THE RW CONSTRUCTION. AS OUTLINED IN THESE DRAWINGS. TO ENSURE A QUALITY CONSTRUCTION PROJECT:

- B. GENERAL/EARTHWORK CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND SEDIMENTATION CONTROL, BEFORE, DURING, AND AFTER RW CONSTRUCTION.

- C. OWNER AND/OR GENERAL CONTRACTOR SHALL PROVIDE SURVEYING SERVICES SUFFICIENT TO LOCATE THE WALL, HORIZONTALLY AND VERTICALLY ON THE SITE FOR CONSTRUCTION PURPOSES.

- LOCATION MEETS OR EXCEEDS THE MINIMUM REQUIREMENTS SHOWN ON THESE DRAWINGS. THE RW CONTRACTOR WILL NOT BEGIN CONSTRUCTION WITHOUT THE APPROVAL.

- MATERIALS MEET AND ARE PLACED ACCORDING TO THE SPECIFICATIONS IN THESE DRAWINGS.
- RETAINING WALL CONSTRUCTION AND ULTIMATELY THE "CERTIFICATE OF OCCUPANCY" FOR THE BUILDING ITSELF.

s drawing is being furnished for this cific project only. Any party epting this document does so in fidence and agrees that it shall not luplicated in whole or in part, nor closed to others without the consent CRS Materials, LLC.		Image: Market M Market Market Mark	NT MCT	<b>ERS</b> <b>earthretention.com</b> 116 Edwards Ferry Road NE, Unit S   Leesburg, VA 20176
2020 ERS Materials, LLC	No.	Date     Revision     Drawn	Design Check	T) 571.707.8057   F) 678.550.9862

This drawing is being furnished for this specific project only. Any party accepting this document does so in			
confidence and agrees that it shall not			
be duplicated in whole or in part, nor disclosed to others without the consent			earthretention.com
of ERS Materials, LLC.	0 11/16/20 RELEASED FOR CONSTRUCTION	NT NT MCT	116 Edwards Ferry Road NE, Unit S   Leesburg, VA 20176
© 2020 ERS Materials, LLC	No. Date Revision	Drawn Design Check	T) 571.707.8057   F) 678.550.9862

## SEGMENTAL RETAINING WALL (RW) PLANS PREPARED FOR:

## INDEX OF SHEETS

SHEET	DESCRIPTION
RW-1.0	TITLE SHEET
RW-2.0	CONSTRUCTION NOTES
RW-3.0	WALL PLAN VIEW
RW-4.0	ELEVATION VIEWS
RW-5.0	CROSS SECTION
RW-6.0 - 6.1	CONSTRUCTION DETAILS

A. GENERAL/EARTHWORK CONTRACTOR SHALL BE RESPONSIBLE FOR OVERALL SITE GRADING AND STORM WATER CONTROL, BEFORE, DURING, AND AFTER RW CONSTRUCTION, UNTIL THE PERMANENT PAVING AND STORM WATER DRAINAGE CONTROLS ARE ALL IN PLACE AND OPERATIONAL. DAMAGE TO EXISTING RW CONSTRUCTION BY POORLY CONTROLLED STORM WATER DRAINAGE SHALL NOT BE THE RESPONSIBILITIES THE RW CONTRACTOR OR RW DESIGNER.

D. GENERAL/EARTHWORK CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A BEARING SURFACE AT THE BOTTOM RETAINING WALL ELEVATION THAT MEETS THE BEARING REQUIREMENTS SHOWN ON THESE DRAWINGS. THE BEARING SURFACE AND ALL AREAS INTO WHICH THE RW CONTRACTOR WILL PLACE AND COMPACT FILL MUST BE CLEARED. GRUBBED AND ALL DELETERIOUS SOILS AND/OR ORGANIC MATTER REMOVED TO PROJECT GEOTECHNICAL ENGINEER'S SATISFACTION. AS PROVIDED IN THEIR DAILY PROJECT REPORTING. E. THE OWNER'S PROJECT GEOTECHNICAL ENGINEER SHALL OBSERVE AND PROVIDE WRITTEN APPROVAL THAT THE "ALLOWABLE" BEARING CAPACITY AT THE BOTTOM RETAINING WALL ELEVATION AND WITHIN THE ENTIRE REINFORCED (GEOGRID) ZONE IN EACH

F. THE OWNER AND/OR GENERAL CONTRACTOR SHALL PROVIDE THE FILL SOILS TO THE RW CONSTRUCTION. THOSE FILL SOILS SHOULD BE TESTED PRIOR TO STARTING RW CONSTRUCTION, AND PERIODICALLY THROUGHOUT THE PROJECT. TO ENSURE THEY MEET THE SPECIFICATION OUTLINED HEREIN. RW CONTRACTOR WILL NOTIFY THE OWNER'S GEOTECHNICAL ENGINEER AND/OR THE GENERAL/EARTHWORK CONTRACTOR WHEN A CHANGE IN FILL SOIL APPEARANCE. CONSISTENCY. OR GRADATION LOOKS TO BE DETRIMENTAL, OR HAS REASON TO BELIEVE THE SOIL BEING PROVIDED DOES NOT MEET THE PROJECT SPECIFICATIONS. HOWEVER, THE OWNER'S GEOTECHNICAL ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING WHETHER THE FILL

G. THE OWNER AND/OR PROJECT GEOTECHNICAL ENGINEER SHALL BE RESPONSIBLE FOR OBTAINING SUFFICIENT DATA THROUGHOUT THE RW CONSTRUCTION TO SATISFY THE REQUIREMENTS OF THE LOCAL GOVERNING AUTHORITY TO SECURE APPROVAL OF THE

THE FOLLOWING IS REQUIRED WHERE THE OWNER OR LOCAL MUNICIPALITY REQUIRES ERS TO CERTIFY THE WALL CONSTRUCTION IS IN COMPLIANCE WITH THE WALL PLANS:

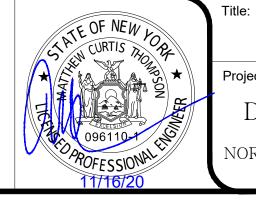
1.) REINFORCED FILL SHALL BE TESTED AND APPROVED BY ERS PRIOR TO AND THROUGHOUT CONSTRUCTION. SEE SHEET RW-2.0 FOR GRADATION, ATTERBERG LIMIT, LIFT THICKNESS, SHEAR STRENGTH, AND OTHER REQUIREMENTS.

2.) THE FOUNDATION SHALL BE INSPECTED AND FOUNDATION BEARING CAPACITY SHALL BE APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER OR GEOTECHNICAL ENGINEER APPROVED BY THE LOCAL MUNICIPALITY

3.) COMPACTION TEST PER CURRENT INDUSTRY STANDARDS SHALL BE PERFORMED ON A MINIMUM FREQUENCY OF 1 TEST FOR EVER FEET OF WALL AREA CONSTRUCTED, NOT TO EXCEED 2-FT VERTICAL IN FILI PLACEMENT. COMPACTION LIFT THICKNESS AND MINIMUM COMPACTION DENSITY SHALL CONFORM TO THE REQUIREMENTS OUTLINED ON SHEET RW-2.0.

4.) REINFORCED FILL AND RETAINED FILL PLACED IN CONJUNCTION WITH THE WALL CONSTRUCTION SHALL BE PLACED AND COMPACTED WITHIN + /- 2% OF OPTIMUM MOISTURE CONTENT. SEE SHEET RW-2.0.

5.) THE PROJECT GEOTECHNICAL ENGINEER OR THIRD-PARTY, QUALITY ASSURANCE ENGINEER, SHALL PROVIDE WRITTEN CERTIFICATION THAT THE WALLS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH ERS PLANS, INCLUDING BUT NOT LIMITED TO WALL GEOMETRY, FILL MATERIAL TYPE SOIL STRENGTHS, SOIL COMPACTION, AND GEOGRID TYPE(S) AND LENGTH(S)



## TITLE SHEET

Project No: 20ERS150 Date: 11/16/20

DINO DELAURENTIIS RESIDENCE NORTH CASTLE, WESTCHESTER COUNTY, NEW YORK

Sheet No: RW-1.0

1.0 MATERIALS         1.1 BACKFILL SOILS	3.6 A MINIMUM OF 3 INCHES OF FIL UNLESS OTHERWISE SHOWN.
1.1.1 REINFORCED FILL MATERIALS SHALL BE APPROVED IN WRITING BY ERS MATERIALS AND THE OWNER'S R SHALL MEET THE STRENGTH REQUIREMENTS AS DEFINED IN SECTION 6.0. THE REINFORCED BACKFILL N	
MEET THE FOLLOWING GRADATION:	4.1 NO CHANGES TO THE GEOGRID
SIEVE SIZE       PERCENT PASSING         3"       100%         1.5"       75-100%         No. 4       20-100%         No. 40       0-60%	4.2 NO CHANGES TO THE WALL FAC MATERIALS.
No. 200 0-35%	5 <u>.0 DRAINAGE</u>
THE PORTION OF THE REINFORCED BACKFILL MATERIAL PASSING THE No. 40 SIEVE SHALL HAVE A LIQUI 30 AND A PLASTICITY INDEX LESS THAN 6. REINFORCED BACKFILL MATERIAL SHALL BE CLASSIFIED PER CLASSIFICATION SYSTEM AS NON-PLASTIC SOILS.	THE UNIFIED SOIL       5.1       AT THE END OF EACH WORK DA         PONDING OF WATER AND SATUR
THE PH SHALL BE BETWEEN 3 AND 9. 1.1.2 FURTHERMORE, REINFORCED BACKFILL AND RETAINED SOIL/FILL MATERIALS SHALL BE FREE OF EXCESS	5.2 PERMANENT AND TEMPORARY S REPRESENTATIVE. SURFACE W. CONSTRUCTION OR AT THE END
MUCK, SOD, SNOW, FROZEN LUMPS, ORGANIC MATTER OR OTHER DELETERIOUS MATERIALS. ALL ROCK P EARTH CLODS SHALL BE LESS THAN FOUR INCHES IN THE LONGEST DIMENSION. REINFORCED BACKFILL DO NOT MEET THIS CRITERIA SHALL BE CONSIDERED UNSUITABLE AND SHALL BE REMOVED.	ARTICLES AND HARD
1.1.3 DRAINAGE FILL SHALL CONSIST OF CLEAN CRUSHED STONE OR CRUSHED GRAVEL MEETING THE FOLLOV TESTED IN ACCORDANCE WITH ASTM C-136:	VING GRADATION 6.1 DESIGN OF THE REINFORCED SC
SIEVE SIZE PERCENT PASSING 1.5" 100%	F
1.0"     95-100%       1/2"     25-60%	REINFORCED FILL RETAINED SOILS
No. 4 0-10% No. 8 0-5%	FOUNDATION SOILS
LOSS BY WASHING 2.0 MAX	6.1.1 DESIGN METHODOLOGY: N
1.1.4 LEVELING PAD SHALL CONSIST OF DENSE-GRADED OR WELL-GRADED CRUSHED STONE OR CRUSHED GRADATION TESTED IN ACCORDANCE WITH ASTM C-136:	AVEL MEETING THE 6.2 FACTORS OF SAFETY 6.2.1 INTERNAL STABILITY:
SIEVE SIZE       PERCENT PASSING         1.5"       100%         3/4"       60-90%         No. 10       25-45%         No. 60       5-30%	MINIMUM FACTOR OF SAF MINIMUM FACTOR OF SAF MINIMUM FACTOR OF SAF MINIMUM FACTOR OF SAF
No. 200 4-11%	MINIMUM FACTOR OF SAF
1.2 GEOGRID REINFORCING SHALL BE TENSAR UX1100MSE (OR STRONGER) GEOGRIDS. THE GEOGRID MANUFACTUR MATERIAL CERTIFICATION THAT THE PRODUCT SHIPPED TO THE PROJECT MEETS OR EXCEEDS THE STRENGT DESIGN.	
<ul><li>1.3 BLOCK FACING SHALL BE TENSAR MESA STANDARD, 8"x18" UNITS. UNITS SHALL MEET ASTM C1372, EXCEPT</li></ul>	6.2.2 EXTERNAL STABILITY: MANUFACTURED
CONCRETE VERTICAL DIMENSIONAL TOLERANCE SHALL BE +/- 1/16". THE MINIMUM COMPRESSIVE STRENGTH AND MAXIMUM ABSORPTION SHALL BE 5% WHEN TESTED IN ACCORDANCE WITH ASTM C140.	MINIMUM FACTOR OF SAFI SHALL BE 4,000 PSIMINIMUM FACTOR OF SAFMINIMUM FACTOR OF SAF
GEOTEXTILE SHALL BE 3.5 oz/sy (MIN.) NON-WOVEN, NEEDLE PUNCHED, POLYPROPYLENE GEOTEXTILE - WINF	-
1.5 DRAIN PIPE SHALL BE 4" DIAMETER, FLEX-DRAIN MANUFACTURED BY CLEVELAND TUBING, CLEVELAND, TN. FITTINGS SHALL MEET ASTM F405-05, EXCEPT ELONGATION REQUIREMENT SHALL BE WAIVED DUE TO FLEX-	
DESIGN. FLEX-DRAIN AND PIPE FITTINGS SHALL MEET CPPA 100-97. 2.0 TECHNICAL REQUIREMENTS	6.3 SURCHARGE LOADING
2.1 THE OWNER'S REPRESENTATIVE OR GRADING CONTRACTOR SHALL SUBMIT TO ERS MATERIALS THE GRADATIC PARAMETERS OF THE REINFORCED BACKFILL MATERIAL, RETAINED SOIL/FILL AND FOUNDATION SOIL, FOR AP PROCEEDING WITH CONSTRUCTION. WORK SHALL NOT PROCEED UNTIL THIS SUBMITTAL IS APPROVED BY ERS	PROVAL, PRIOR TO LIVE LOAD (DRIVEWAY AREAS) =
2.2 PRIOR TO CONSTRUCTION OF THE WALLS, THE GRADING CONTRACTOR SHALL CLEAR AND GRUB THE REINFOR AREA, REMOVING TOP SOILS, BRUSH, SOD OR OTHER ORGANIC OR DELETERIOUS MATERIALS. ANY UNSUITABLE OVER-EXCAVATED, REPLACED AND COMPACTED WITH REINFORCED BACKFILL MATERIAL TO PROJECT SPECIFI OTHERWISE DIRECTED BY THE OWNER'S GEOTECHNICAL ENGINEER.	SOILS SHALL BE
2.3 THE GEOTECHNICAL ENGINEER SHALL CONFIRM THAT THE SITE HAS BEEN PROPERLY PREPARED AND THE DE SECTION 6.0 ARE APPROPRIATE PRIOR TO FILL PLACEMENT. A WRITTEN CONFIRMATION SHALL BE PROVIDED 7 PRIOR TO FILL PLACEMENT.	
2.4 FILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT EXCEEDING 10 INCHES IN UNCOMPACTED THICKNESS FOR COMPACTION EQUIPMENT. FOR ZONES WHERE COMPACTION IS ACCOMPLISHED WITH HAND OPERATED EQUIPM	R HEAVY 6.6 FENCE LOADING
PLACED IN HORIZONTAL LAYERS NOT EXCEEDING 6 INCHES IN UNCOMPACTED THICKNESS. ONLY HAND-OPER SHALL BE ALLOWED WITHIN THREE FEET OF THE BACK FACE OF WALL FACING.	
2.5 FILL MATERIALS SHALL BE PLACED FROM THE BACK OF THE FACING UNITS TOWARDS THE ENDS OF THE GEO	GRID TO ENSURE 6.7 PHREATIC WATER SURFACE OR
FURTHER TENSIONING. 2.6 FILL SHALL BE COMPACTED AS SPECIFIED BY PROJECT SPECIFICATIONS OR TO A MINIMUM 95 PERCENT OF TH	E MAXIMUM DRY DESIGN DOES NOT CONSIDER PH SUFFICIENTLY BELOW BOTTOM
DENSITY AND WITHIN $-2\%$ TO $+2\%$ OF OPTIMUM MOISTURE CONTENT AS DETERMINED IN ACCORDANCE WITH (ASTM D-698).	
2.7 TESTING METHODS AND VERIFICATION OF MATERIAL SPECIFICATIONS AND COMPACTION TESTING IS THE RES OWNER'S REPRESENTATIVE. THE MINIMUM REQUIRED COMPACTION TESTING FREQUENCY REQUIRED BY ERS M TEST FOR EVERY 200 SF OF WALL FACE AT VERTICAL INTERVALS NOT EXCEEDING 2 FEET IN VERTICAL WALL	ATERIALS IS ONE STRUCTURE.
2.8 WHERE REQUIRED, CAP UNITS SHALL BE PERMANENTLY SECURED TO THE BLOCK UNITS USING AN OUTDOOR ( ADHESIVE FOR CONCRETE MASONRY OR HARDSCAPES SUCH AS LIQUID NAILS (OR EQUIVALENT).	CONSTRUCTION <u>7.0 SPECIAL PROVISIONS</u>
<ul> <li>ADHESIVE FOR CONCRETE MASONRY OR HARDSCAPES SUCH AS LIQUID NAILS (OR EQUIVALENT).</li> <li>2.9 AN APPROVED SET OF CONSTRUCTION DRAWINGS AND CONTRACT SPECIFICATIONS SHALL BE ON-SITE AT ALL CONSTRUCTION OF THE RETAINING WALLS.</li> </ul>	
3.0 GEOGRID PLACEMENT	7.2 WALL ELEVATION VIEWS AND L MUST BE VERIFIED BY THE CON CONSTRUCTION.
3.1 GEOGRID SHALL BE PLACED AT THE LOCATIONS AND ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS	7.3 ERS MATERIALS ASSUMES NO L
3.2 GEOGRID LENGTH SHALL BE AS SHOWN ON THE CONSTRUCTION DRAWINGS. GEOGRID LENGTH IS MEASURED I FACE OF WALL UNITS TO THE TAIL OF GEOGRID.	FROM THE FRONT 7.4 THE ON SITE GEOTECHNICAL END
3.2.1 GEOGRID REINFORCEMENT SHALL BE CONTINUOUS THROUGHOUT THEIR EMBEDMENT LENGTH(S).	REINFORCED FILL ZONE OF INFL
3.3 PRIOR TO PLACING FILL, THE GEOGRID MATERIALS SHALL BE PLACED IN BETWEEN BLOCK COURSES IN ACCOR DETAILS. REMOVE GEOGRID SLACK AND ANCHOR GEOGRID PRIOR TO FILL PLACEMENT AND COMPACTION.	7.5THE SOIL DESIGN PARAMETERSDANCE WITH FACINGVERIFICATION OF DESIGN PARACONSTRUCTION.CONSTRUCTION.
<ul> <li>3.4 CONSTRUCTION EQUIPMENT SHALL NOT BE OPERATED DIRECTLY ON THE GEOGRID. A MINIMUM FILL THICKNI REQUIRED FOR OPERATION OF TRACKED VEHICLES OVER THE GEOGRID. TURNING OF VEHICLES SHOULD BE KI TO PREVENT DISPLACING THE FILL AND/OR THE GEOGRID.</li> </ul>	ESS OF SIX INCHES IS 7.6 IF ANY ROCK FORMATIONS AND,
3.5 GEOGRID SHALL BE ROLLED OUT WITH THE LONG AXIS OF THE APERTURES (MACHINE DIRECTION) PERPENDIC	ULAR TO THE WALL 7.7 ANY REVISIONS TO DESIGN PAR MODIFICATIONS PRIOR TO PROC
FACE.	

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UM OF 3 INCHES OF FILL MATERIAL SHALL BE REQUIRED BETWEEN OVERLAPPING LAYERS OF GEOGRID AND GEOTEXTILE, OTHERWISE SHOWN.

IGES TO THE GEOGRID LAYOUT, INCLUDING, BUT NOT LIMITED TO, LENGTH, GEOGRID TYPE, OR ELEVATION, SHALL BE THOUT THE EXPRESSED PRIOR WRITTEN CONSENT OF ERS MATERIALS.

IGES TO THE WALL FACING TYPE SHALL BE MADE WITHOUT THE EXPRESSED PRIOR WRITTEN CONSENT OF ERS LS

END OF EACH WORK DAY, BACKFILL SURFACE SHALL BE COMPACTED WITH A SMOOTH PLATE COMPACTOR TO MINIMIZE OF WATER AND SATURATION OF THE BACKFILL.

ENT AND TEMPORARY SURFACE WATER DIVERSION SHALL BE AS REQUIRED AND PROVIDED BY THE OWNER OR OWNER'S NTATIVE. SURFACE WATER SHALL BE DIVERTED AWAY FROM THE REINFORCED FILL ZONE AND WALL FACE DURING WALL JCTION OR AT THE END OF EACH WORK DAY.

## <u>RAMETERS</u>

OF THE REINFORCED SOIL STRUCTURE IS BASED ON THE FOLLOWING PARAMETERS:

	EFFECTIVE FRICTION ANGLE	EFFECTIVE COHESION	MOIST UNIT WT
CED FILL	30°	0 psf	125 pcf
D SOILS	30°	0 psf	125 pcf
YON SOILS	30°	0 psf	125 pcf

SIGN METHODOLOGY: NCMA GUIDELINES, THIRD EDITION

TERNAL STABILITY:		
	STATIC	SEISMIC*
NIMUM FACTOR OF SAFETY FOR UNCERTAINTIES =	1.5	1.13
NIMUM FACTOR OF SAFETY FOR GEOGRID PULLOUT =	1.5	1.13
NIMUM FACTOR OF SAFETY FOR BLOCK CONNECTION =	1.5	1.13
NIMUM FACTOR OF SAFETY FOR FACING STABILITY =	1.5	1.13
NIMUM FACTOR OF SAFETY FOR SLIDING AT LOWEST GEOGRID =	1.5	1.13
DIL-GEOGRID INTERACTION COEFFICIENT = 0.8 ERCENT COVERAGE OF GEOGRID = 100%		
TERNAL STABILITY:	STATIC	SEISMIC*
NIMUM FACTOR OF SAFETY FOR OVERTURNING = NIMUM FACTOR OF SAFETY FOR SLIDING =	2.0 1.5	<u>SEISMIC</u> 1.5 1.13
/ERALL / GLOBAL STABILITY:	CT A TIC	CEICMIC*
NIMUM FACTOR OF SAFETY FOR GLOBAL STABILITY =	<u>STATIC</u> 1.3	<u>SEISMIC</u> * 1.1

ISMIC VALUES SHALL BE 75% OF STATIC FACTOR OF SAFETY, BUT NOT LESS THAN 1.1

AD (SIDEWALK/LANDSCAPE AREAS) = 100 PSF

AD (DRIVEWAY AREAS) = 250 PSF AD (BUILDING SLAB-ON-GRADE FOUNDATION) = 500 PSF

A APPLIED BEARING PRESSURE = (SEE ELEVATION VIEWS)

SEISMIC HORIZONTAL ACCELERATION COEFFICIENT (As) = 0.151g

ASS "D" UND ACCELERATION (PGA) = 0.094g

POST MAX. x 6' POST SPACING MAX.) S SUFFICIENT FOR 200 LB SINGLE CONCENTRATED LOAD.

WATER SURFACE OR HYDROSTATIC WATER PRESSURE

DOES NOT CONSIDER PHREATIC WATER SURFACE OR HYDROSTATIC WATER PRESSURE. DESIGN ASSUMES WATER IS NTLY BELOW BOTTOM OF STRUCTURE SO AS NOT TO INFLUENCE STRUCTURE STABILITY.

AD HAS NOT BEEN EVALUATED IN THE DESIGN OF THE PROPOSED REINFORCED SOIL (MECHANICALLY STABILIZED EARTH)

IGN PRESENTED HEREIN IS BASED ON SOIL PARAMETERS, FOUNDATION CONDITIONS, GROUNDWATER CONDITIONS, AND S STATED IN SECTION 6.0, AND INTERPOLATED FROM INFORMATION PROVIDED BY OTHERS.

EVATION VIEWS AND LOCATIONS AND GEOMETRY OF EXISTING STRUCTURES AND GRADE ABOVE AND BELOW THE WALLS

VERIFIED BY THE CONTRACTOR, TO MATCH ELEVATIONS SHOWN IN THE CONTRACT DOCUMENTS, PRIOR TO

JCTION. ERIALS ASSUMES NO LIABILITY FOR INFORMATION SUPPLIED BY OTHERS SUCH AS GEOTECHNICAL REPORT, SITE PLAN,

FER ELEVATIONS.

SITE GEOTECHNICAL ENGINEER MUST VERIFY IN WRITING THAT THE FOUNDATION CONDITIONS WITHIN THE WALL AND CED FILL ZONE OF INFLUENCE ARE SUITABLE FOR THE APPLIED BEARING PRESSURE LISTED IN SECTION 6.0.

DESIGN PARAMETERS STATED IN SECTION 6.0 SHALL BE VERIFIED BY THE PROJECT GEOTECHNICAL ENGINEER. WRITTEN TION OF DESIGN PARAMETERS SHALL BE SUBMITTED TO ERS MATERIALS AND PRIOR TO COMMENCING WITH JCTION.

OCK FORMATIONS AND/OR GROUNDWATER ARE ENCOUNTERED DURING THE CONSTRUCTION OF THIS WALL, IMMEDIATELY T ERS MATERIALS AT 678-903-3614 AND THE OWNER'S REPRESENTATIVE.

ISIONS TO DESIGN PARAMETERS STATED IN SECTION 6.0 OR STRUCTURE GEOMETRY SHALL REQUIRE DESIGN ATIONS PRIOR TO PROCEEDING WITH CONSTRUCTION.

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- DIFFERENTIAL SETTLEMENTS.
- 7.11 BORROW SOIL SHALL NOT BE STOCKPILED IN THE VICINITY OF THE RETAINING WALLS.

7.8 ALL PIPES AND UTILITIES WITHIN 100 FEET OF THE RETAINING WALL MUST BE CONSTRUCTED WITH WATER TIGHT JOINTS. 7.9 THE SITE GEOTECHNICAL ENGINEER OR OWNER'S REPRESENTATIVE SHALL BE RESPONSIBLE FOR EVALUATING TOTAL AND

7.10 THE OWNER OR OWNER'S REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE SELECTION OF PERMANENT EROSION PROTECTION AND PERMANENT VEGETATION FOR SLOPES LOCATED ABOVE OR BELOW THE PROPOSED RETAINING WALL.



DINO DELAURENTIIS RESIDENCE

NORTH CASTLE, WESTCHESTER COUNTY, NEW YORK

20ERS150 Date: 11/16/20

CONSTRUCTION NOTES

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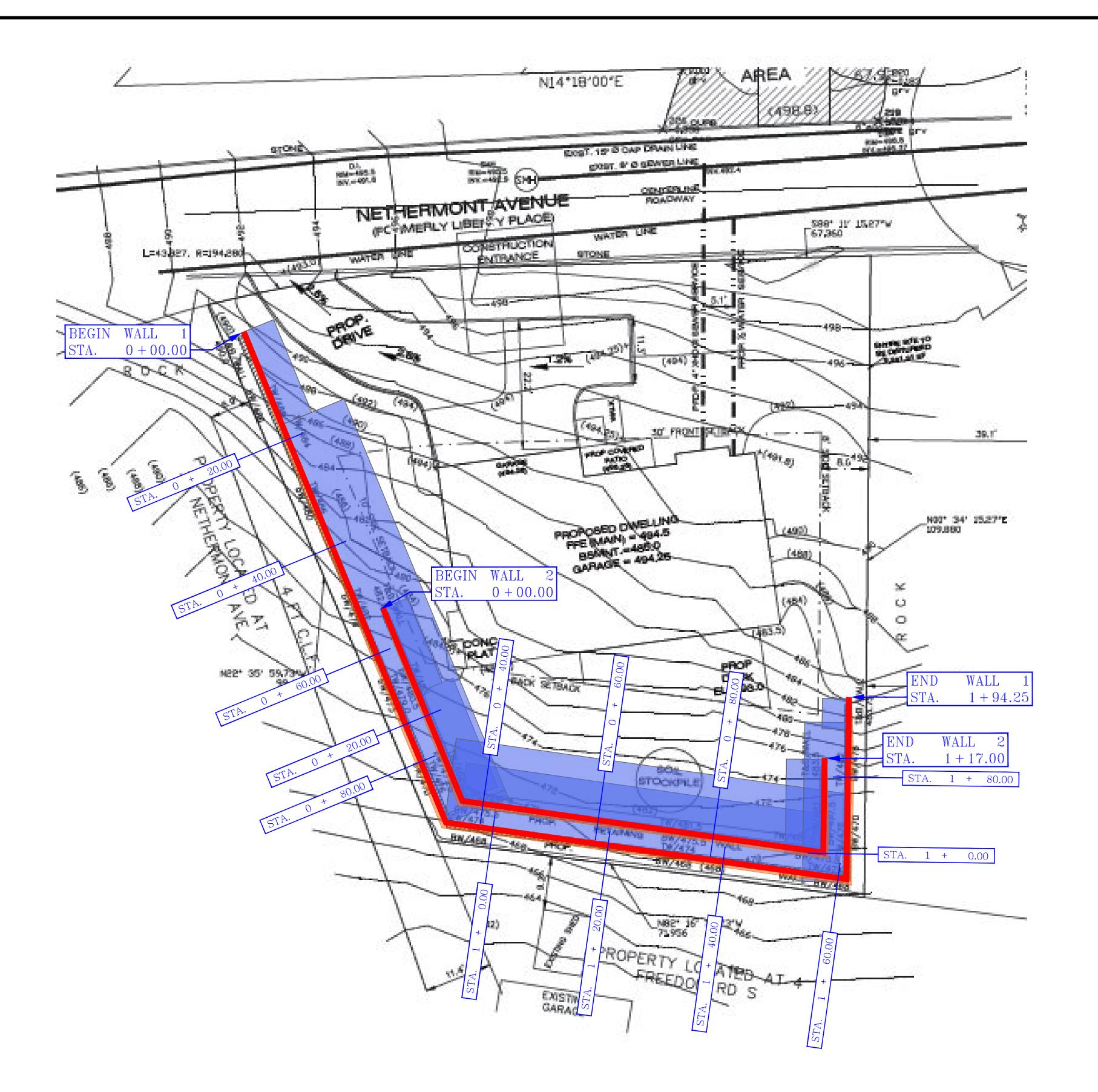
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RW-2.0

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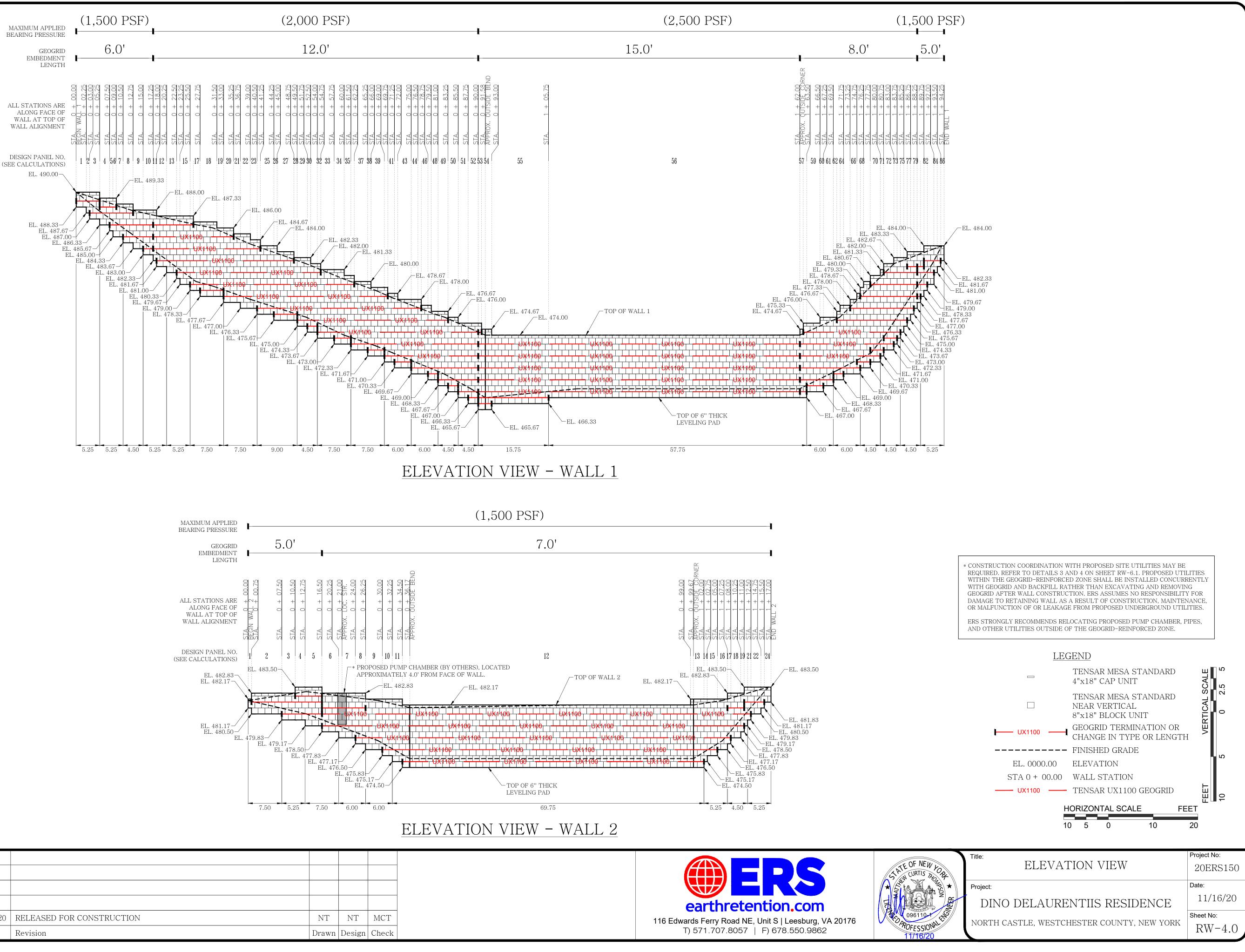
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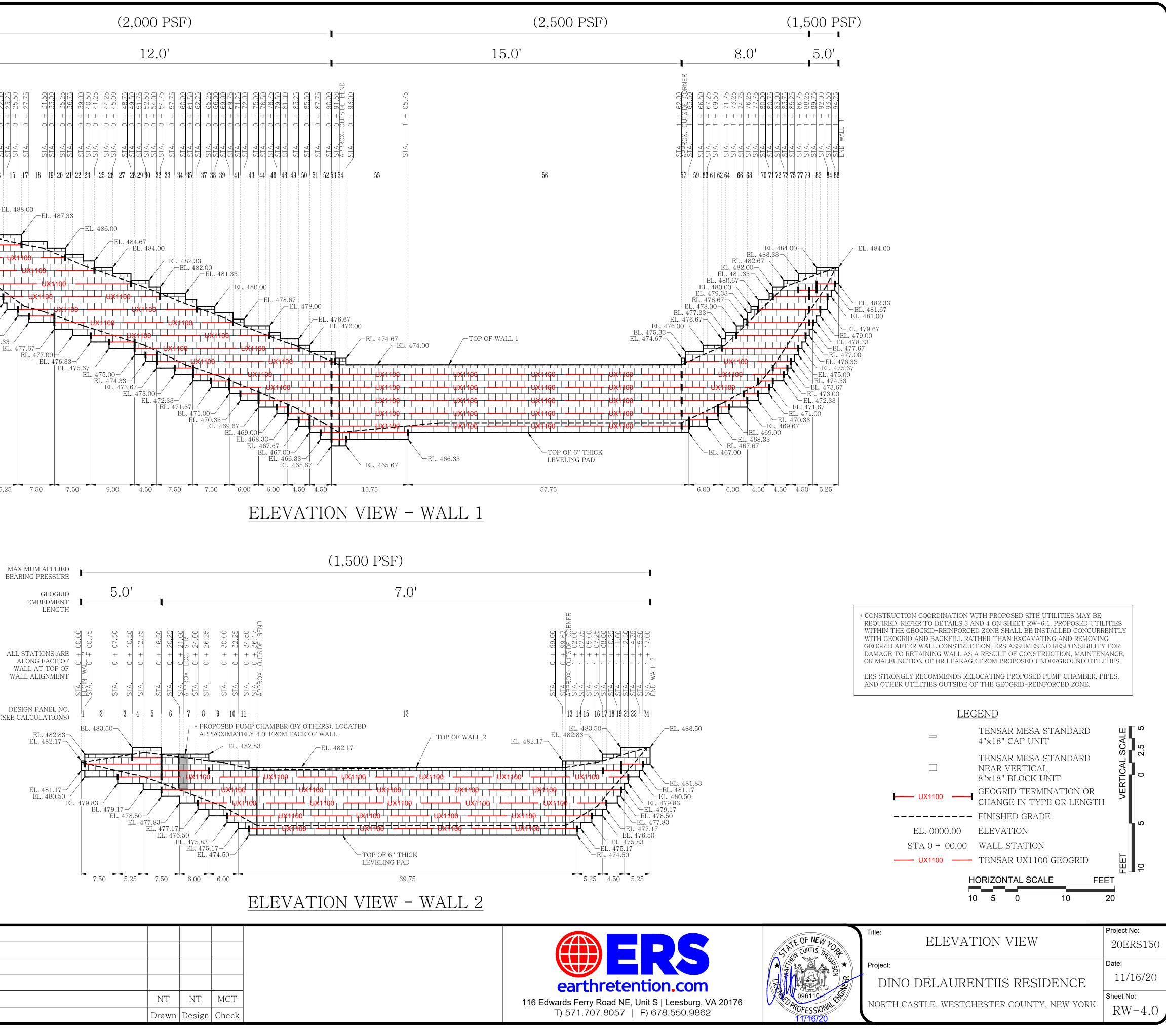


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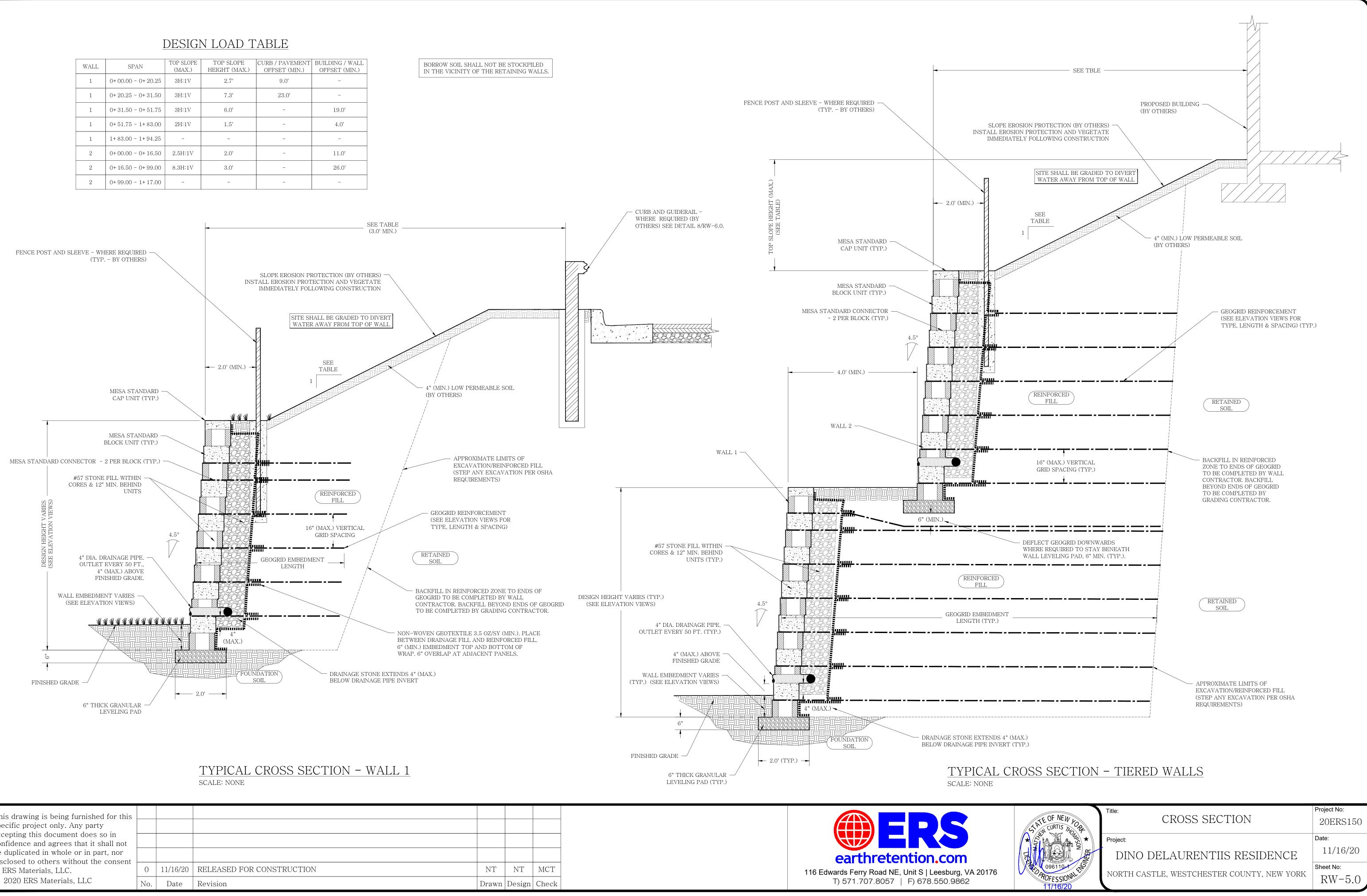
	<u>NOTE:</u> SITE PLAN VIEW IS FOR ILLUSTRATIVE PURPOSES ONLY AND IS TAKEN FROM: SHEET: SW-1 DRAWN BY: GABRIEL E. SENOR, P.C. DATED: 09/29/20 REVISION: 1 (RESP TO	RPRC COMM)
	TOP OF WALL WALL BATTER APPROXIMATE GEOGRID C SCALE UNIT 10 5 0 10 20	OVERAGE
STATE OF NEW YO	Title: WALL PLAN VIEW	Project No: 20ERS150
* THE REAL PROPERTY OF THE REA	Project: DINO DELAURENTIIS RESIDENCE	Date: 11/16/20
096110-1-15 PROFESSIONAL 11/16/20	NORTH CASTLE, WESTCHESTER COUNTY, NEW YORK	Sheet No: RW-3.0



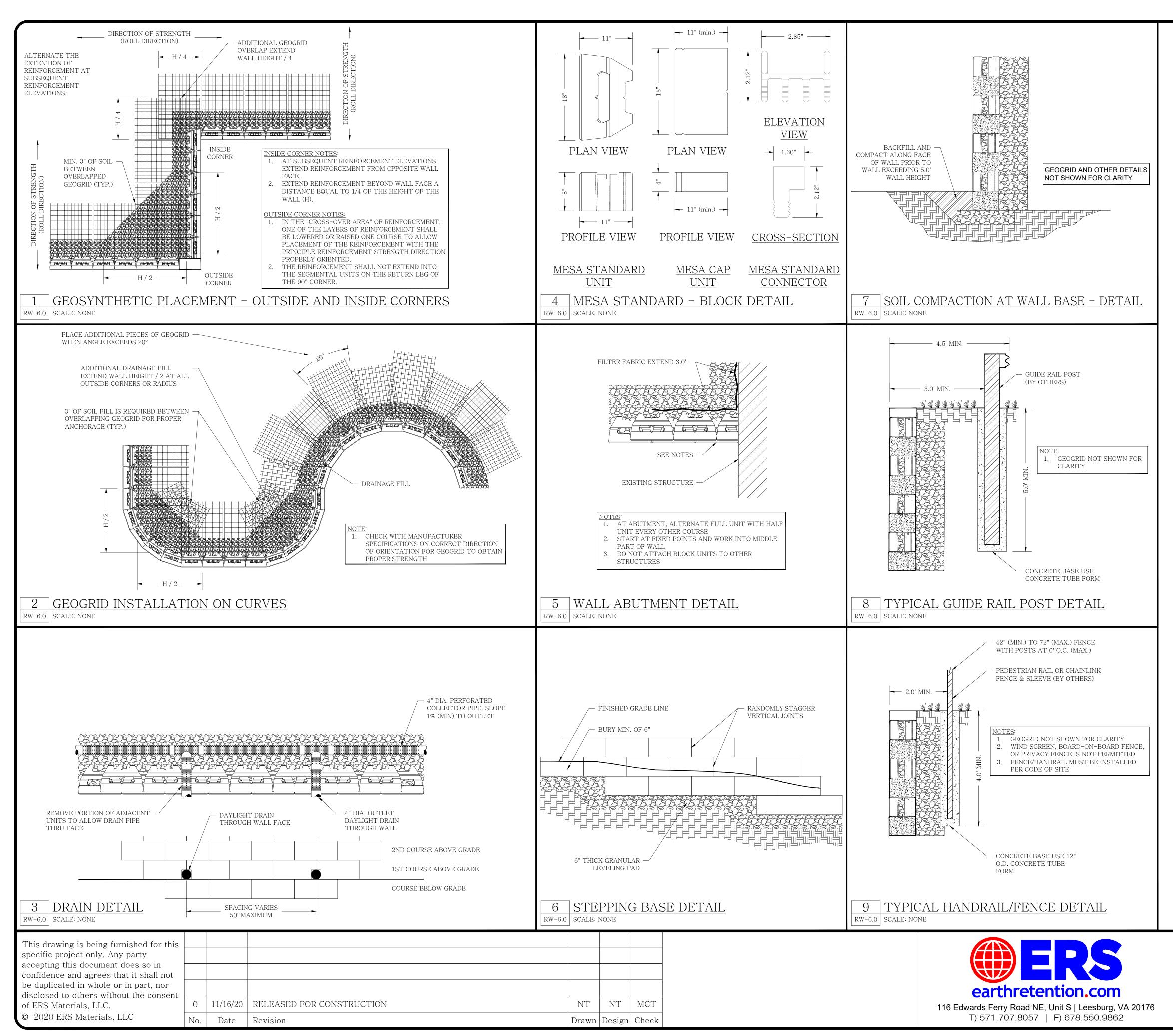


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WALL	SPAN	TOP SLOPE (MAX.)	TOP SLOPE HEIGHT (MAX.)	CURB / PAVEMENT OFFSET (MIN.)	BUILDING / WALL OFFSET (MIN.)
1	0+00.00 - 0+20.25	3H:1V	2.7'	9.0'	-
1	0+20.25 - 0+31.50	3H:1V	7.3'	23.0'	-
1	0+31.50 - 0+51.75	3H:1V	6.0'	-	19.0'
1	0+51.75 - 1+83.00	2H:1V	1.5'	-	4.0'
1	1+83.00 - 1+94.25	-	_	-	_
2	0+00.00 - 0+16.50	2.5H:1V	2.0'	-	11.0'
2	0+16.50 - 0+99.00	8.3H:1V	3.0'	-	26.0'
2	0+99.00 - 1+17.00	_	-	-	-



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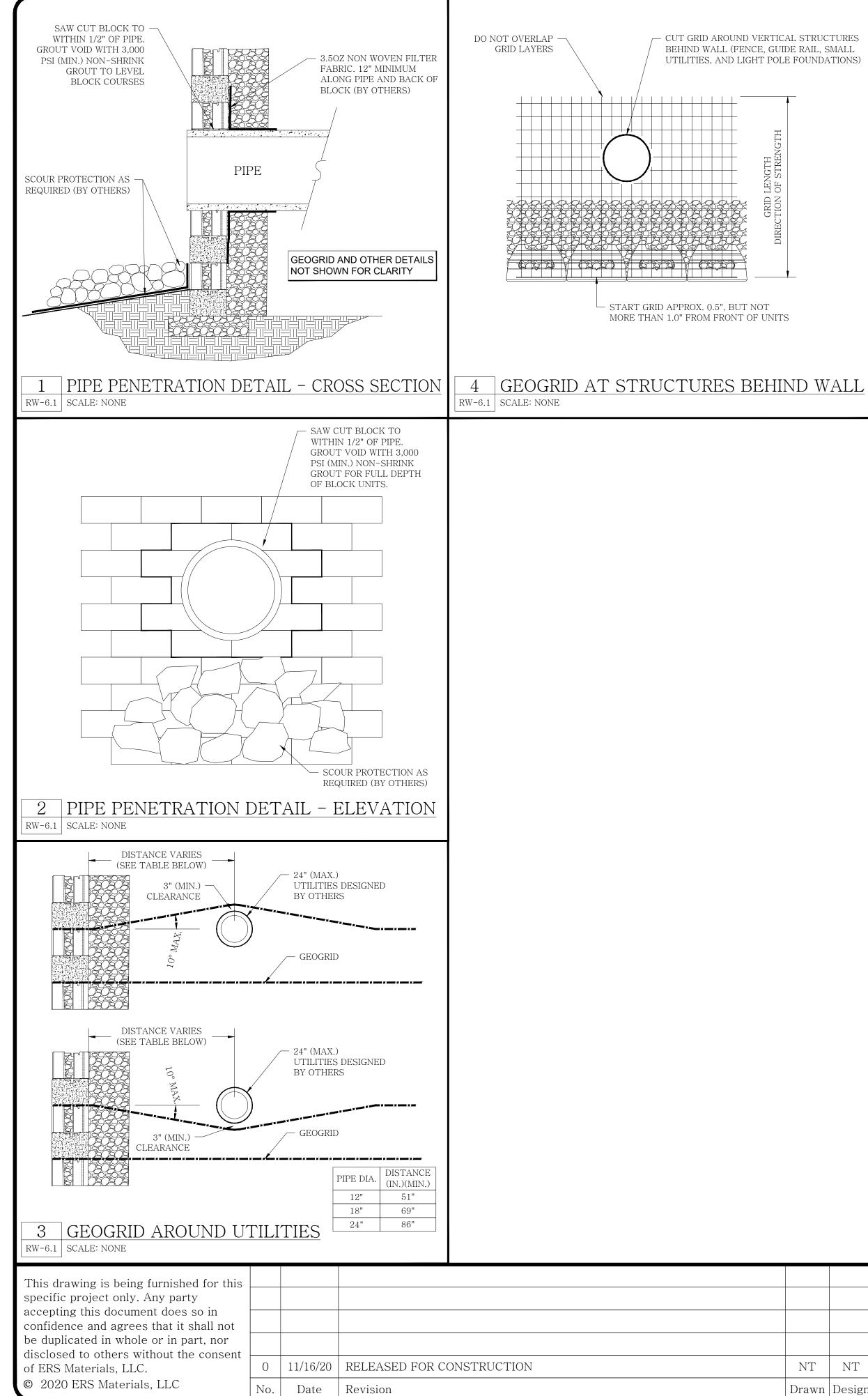
## CONSTRUCTION DETAILS

Date: 11/16/20 Sheet No:

RW-6.0

Project No: 20ERS150

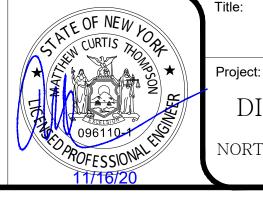
DINO DELAURENTIIS RESIDENCE NORTH CASTLE, WESTCHESTER COUNTY, NEW YORK



ERTICAL STRUCTURES E, GUIDE RAIL, SMALL T POLE FOUNDATIONS)			
A			
GRID LENGTH DIRECTION OF STRENGTH			
<u> </u>			
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## CONSTRUCTION DETAILS

20ERS150 Date: 11/16/20 Sheet No:

RW-6.1

DINO DELAURENTIIS RESIDENCE NORTH CASTLE, WESTCHESTER COUNTY, NEW YORK

Title:

Project No:

## **GENERAL NOTES**

#### SECTION 1 - EXECUTION AND INTENT OF DRAWINGS

1.1 THE CONTRACTOR, BEFORE SUBMITTING A PROPOSAL, SHALL VISIT THE PREMISES FAMILIARIZING HIMSELF AS TO THE NATURE AND SCOPE OF THE WORK AND DIFFICULTIES THAT ATTEND ITS EXECUTION 1.2 THE SUBMISSION OF THE PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS

BEEN MADE, AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN AVERTED HAD SUCH AN EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED

1.3 THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THESE DRAWINGS, THESE NOTES, AND CONDITIONS BEFORE COMMENCING ANY WORK OR ORDERING MATERIALS, AND REQUEST CLARIFICATION

1.4 THE CONTRACTOR SHALL REVIEW THESE DOCUMENTS TO INSURE A FULL UNDERSTANDING OF THE SCOPE OF WORK. THE ARCHITECT OR PROJECT MANAGER SHALL BE AVAILABLE TO REVIEW AND CLARIFY ANY UNCLEAR ITEMS

1.5 IF ANY UNFORESEEN CONDITIONS ARISE DURING ANY PORTION OF THE WORK, THE CONTRACTOR SHALL STOP WORK IMMEDIATELY AND NOTIEY THE ARCHITECT AT ONCE

1.6 THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE. 1.7 THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OVERALL COORDINATION WITH ALL SUBCONTRACTORS, WHETHER UNDER CONTRACT TO HIM OR NOT.

1.8 WHEN "APPROVED EQUAL", "EQUAL TO" OR OTHER GENERAL QUALIFYING TERMS ARE USED, IT SHALL BE BASED UPON THE REVIEW AND APPROVAL BY THE ARCHITECT. NO MATERIAL SUBSTITUTIONS SHALL BE MADE WITHOUT FIRST INFORMING THE ARCHITECT. SUBMIT SUBSTITUTE MATERIAL SPECIFICATIONS AND SAMPLES FOR APPROVAL, IN WRITING, PRIOR TO COMMENCEMENT OF WORK.

1.9 ALL WORK SHOWN ON THE CONSTRUCTION DOCUMENTS SHALL BE FURNISHED AND INSTALLED UNDER THIS CONTRACT UNLESS NOTED OTHERWISE.

1.10 THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF WORKMEN, PUBLIC AND PROPERTY, 1.11 ALL REQUIRED EXITS AND EXIT APPROACH SHALL BE CONTINUOUSLY MAINTAINED FREE OF OBSTRUCTIONS

THROUGHOUT THE CONSTRUCTION.

1.12 DURING THE ENTIRE CONSTRUCTION PERIOD, ALL EXISTING LIGHTING, FIRE PROTECTION DEVICES AND ALARMS SHALL BE CONTINUOUSLY MAINTAINED.

1.13 THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION, CHOPPING AND PATCHING FOR ALL TRADES. ALL CONDUITS, PIPING, BACKBOXES, THROUGHING ETC. SHALL BE CONCEALED WITHIN THE BUILDING CONSTRUCTION U.O.N.

1.14 THE CHARACTER AND SCOPE OF THE WORK ARE ILLUSTRATED BY THE CONTRACT DRAWINGS, ANY ADDITIONAL DETAIL DRAWINGS REQUIRED TO INTERPRET AND EXPLAIN THE DRAWINGS SHALL BE FURNISHED UPON THE REQUEST OF THE GENERAL CONTRACTOR AND AUTHORIZATION OF THE OWNER. IT SHALL BE UNDERSTOOD THAT THIS ADDITIONAL DATA SHALL BE CONSIDERED AS FORMING PART OF THESE NOTES AS THEY RELATE AND NO ADDITIONAL CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS SHALL BE CONSIDERED BY THE ISSUANCE OF SUCH DATA.

1.15 BEFORE WORK COMMENCES THE ARCHITECT IS TO APPROVE ALL LAYOUTS.

1.16 THE GENERAL CONTRACTOR SHALL FURNISH A LIST OF SUB-CONTRACTORS AND MANUFACTURERS HE INTENDS TO USE BEFORE WORK COMMENCES.

1.17 DRAWINGS SHALL NOT BE SCALED, LARGER SCALE DRAWINGS SHALL ALWAYS GOVERN OVER SMALLER SCALE DRAWINGS.

1.18 THE A.I.A. A101 STANDARD FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR, 1977 EDITION, B201 GENERAL CONDITIONS, 1976 EDITION, SHALL BE BINDING ON THE WORK 1.19 THE G.C. SHALL SUBMIT A CONSTRUCTION SCHEDULE AND SCHEDULE OF CONSTRUCTION COST VALUES

PRIOR TO THE START OF CONSTRUCTION. 1.20 THE GENERAL CONTRACTOR UPON ACCEPTANCE OF THE DRAWINGS ASSUMES FULL RESPONSIBILITY FOR THE CONSTRUCTION, MATERIAL AND WORKMANSHIP OF THE WORK DESCRIBED IN THESE NOTES AND DRAWINGS, AND HE WILL BE EXPECTED TO COMPLY WITH THE SPIRIT AS WELL AS THE LETTER IN WHICH THEY WERE WRITTEN.

1.21 ALL EXISTING APPURTENANCES NOT BEING REMOVED SHALL BE REFURBISHED WHERE REQUIRED, ANY LOOSE ITEMS TIGHTENED (CEILING EXIT SIGNS, ETC.) AND ANY MISSING PARTS REPLACED BY THE GENERAL CONTRACTOR TO ACHIEVE A FINISHED FIRST CLASS INSTALLATION AND APPEARANCE.

1.22 WHERE OPENINGS OCCUR IN EXISTING FIRE RATED AREAS OR PARTITIONS DUE TO EXISTING OR NEW CONDUIT RUNS, DUCTWORK, CABLES, PIPING, ETC., AND/OR WHERE EXISTING FIREPROOFING HAS BEEN REMOVED AS A RESULT OF EXISTING OR NEW CONSTRUCTION WORK THE GENERAL CONTRACTOR SHALL CLOSE AND /OR PATCH AS REQUIRED ALL OPENINGS TO MATCH AREAS IN MATERIAL, FINISH AND FIRE RATING, ESCUTCHEON PLATES, ETC.

#### SECTION 2 - GOVERNING AGENCIES AND PERMITS

2.1 THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY BUILDING PERMITS AND FOR SCHEDULING BUILDING DEPARTMENT INSPECTIONS, PROVIDING CONTROLLED INSPECTIONS OBTAINING COMPLETION LETTERS OR CERTIFICATE OF OCCUPANCY WHEN REQUIRED. THE G.C. SHALL BEAR THE COSTS OF ALL THE ABOVE ITEMS

2.2 THE GENERAL CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND REGULATORY AGENCIES' CODES HAVING JURISDICTION.

2.3 ALL MATERIALS, ASSEMBLIES, CONSTRUCTION AND EQUIPMENT SHALL CONFORM THE TO THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE AND CODE OF THE MUNICIPALITY HAVING JURISDICTION AND SHALL CONFORM TO GENERALLY ACCEPTED STANDARDS.

#### 2.4 ALL WOOD SHALL BE FIRE-PROOFED AS REQUIRED BY THE BUILDING CODE.

2.5 IF THE CONTRACTOR VIOLATES ANY BUILDING OR FIRE DEPARTMENT CODES OR REGULATIONS, HE SHALL AT HIS OWN EXPENSE BEAR THE COSTS OF ALL PENALTIES AND CORRECTIVE MEASURES, AND HOLD HARMLESS THE OWNER AGAINST ANY DAMAGES WHICH MAY RESULT FROM SUCH VIOLATIONS. SECTION 3 - INSURANCES

3.1 NO WORK SHALL COMMENCE UNTIL PROPER CERTIFICATES OF INSURANCE IN THE AMOUNT AGREED TO ARE SUBMITTED TO THE OWNER.

### SECTION 4 - WORKMANSHIP

4.1 THE GENERAL CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP AGAINST DEFECTS FOR ONE YEAR FROM FINAL PAYMENT AND MAKE GOOD ALL SUCH DEFECTS APPEARING DURING THIS PERIOD OF GUARANTEE.

4.2 ANY PATCHING AND FINISHING NECESSARY TO FINISH ANY WORK, BUT NOT CALLED OUT ON THESE DRAWINGS, IS CONSIDERED TO BE WITHIN THE SCOPE OF THE WORK.

4.3 THE GENERAL CONTRACTOR SHALL CONTROL CLEANING TO PREVENT DIRT AND DUST FROM LEAVING THE JOB SITE AND INFILTRATING AREAS NOT INVOLVED IN THE PROJECT. 4.4 ALL WALLS SHALL BE PROPERLY PREPARED (SPACKLED, SANDED, ETC.) FOR PAINTING OR WALLCOVERING AS PER MANUFACTURER'S SPECIFICATIONS.

4.5 ALL WORK SHALL BE PERFORMED IN A FIRST CLASS MANNER AND IN ACCORDANCE WITH BEST PRACTICES WITH FIRST CLASS MATERIALS.

4.6 THE GENERAL CONTRACTOR WARRANTS THAT NONE BUT EX-PERIENCED WORKMEN SHALL BE EMPLOYED ON THE PROJECT. 4.7 NO INFERIOR WORK OR MATERIALS SHALL BE ACCEPTED ON THIS PROJECT, WHETHER THEY ARE DISCOVERED

AT THE TIME OF INSTALLATION OR AFTERWARDS; THIS WORK MUST BE REMOVED AND MADE CORRECT IMMEDIATELY.

4.8 ANY SUBSTITUTION THE GENERAL CONTRACTOR WISHES TO MAKE OTHER THAN THOSE STATED IN HIS PROPOSAL, SHALL BE SUBMITTED IN WRITING WITH THE COST DIFFERENCE BEFORE IT IS ACCEPTED.

4.9 THE GENERAL CONTRACTOR SHALL PERIODICALLY REMOVE ALL RUBBISH AND DEBRIS OF BOTH HIS OWN AND OTHER SUB-CONTRACTORS EMPLOYEES, INCLUDING THAT RUBBISH WHICH IS A BY PRODUCT OF THE EQUIPMENT COMPANY, CARPET INSTALLER, TELEPHONE CO., ETC. AND AT THE COMPLETION OF THE WORK LEAVE THE JOB SITE VACUUM CLEAN AND FREE OF ALL MATERIAL. NOTE: VACUUM THE CONVECTOR ENCLOSURES PRIOR TO PAINTING.

#### SECTION 5 - CHANGE ORDERS AND FIELD ORDERS

5.1 THE OWNER WITHOUT INVALIDATING THE CONTRACT, MAY ORDER EXTRA WORK OR MAKE CHANGES BY ALTERING, ADDING OR DEDUCTING FROM THE WORK. THE CONTRACT SUM WILL BE ADJUSTED ACCORDINGLY. ALL SUCH WORK SHALL BE EXECUTED UNDER THE CONDITIONS OF THE ORIGINAL CONTRACT EXCEPT THAT ANY CLAIM FOR EXTENSIONS OF THE TIME CAUSED THEREBY SHALL BE ADJUSTED AT THE TIME OF ORDERING SUCH CHANGE. 6.2 NO EXTRAS WILL BE PERMITTED UNLESS SUBMITTED IN WRITING BY THE GENERAL CONTRACTOR TO THE OWNER AND MUST INCLUDE THE FOLLOWING INFORMATION:

- 1 DATE AND CHANGE ORDER NUMBER THE LOCATION AND COMPLETE DESCRIPTION OF THE WORK TO BE PERFORMED.
- THE CHANGE ORDER COST INCLUDING A COMPLETE BREAK- DOWN SO THAT AN EVALUATION OF THE CHANGE ORDER CAN BE MADE. 4. TIME SCHEDULE OF THE WORK TO BE DONE AND CONFORMATION THAT IT SHALL NOT IMPACT THE PROJECT COMPLETION DATE.

#### SECTION 6 - CUTTING AND PATCHING

6.1 THE GENERAL CONTRACTOR SHALL DO ALL PATCHING REQUIRED FOR ALL SUBCONTRACTORS TO COMPLETE THEIR WORK.

6.2 ALL PENETRATIONS THROUGH FIRE PARTITIONS SHALL BE FIRESTOPPED OR FILLED WITH NONCOMBUSTIBLE MATERIALS TO PREVENT THE PASSAGE OF FLAME, SMOKE, FUMES AND HOT GASSES. FLAMMABLE MATERIALS ARE NOT PERMITTED AS INSULATION OR FILL.

6.3 ALL EXISTING VALVES AND CONTROLS FOR MECHANICAL EQUIPMENT ARE TO BE KEPT CLEAN AND READY FOR ACCESS.ANY POSSIBLE CONSTRUCTION INTERFERENCE THAT WOULD PREVENT ACCESS IS TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

DAMAGE TO ADJOINING PROPERTY RESULTING FROM THE G.C.'S OPERATIONS SHALL BE PROMPTLY RESTORED. 7.2 THE G.C. SHALL BE RESPONSIBLE FOR THE SECURITY OF THE CONSTRUCTION AREAS UNTIL THE SPACE IS

TURNED OVER THE TO THE OWNER

7.3 THE GENERAL CONTRACTOR SHALL PROVIDE AND MAINTAIN FIRE EXTINGUISHERS AS REQUIRED BY OSHA AND

THE FIRE DEPARTMENT THROUGHOUT THE CONSTRUCTION PERIOD

SECTION 7 - PROTECTION OF WORK AND PROPERTY

SECTION 9 - SUBSTANTIAL COMPLETION

9.1 SUBSTANTIAL COMPLETION OF THE WORK IS DEFINED AS THE DATE CERTIFIED BY THE OWNER WHEN

CONSTRUCTION IS SUFFICIENTLY COMPLETE, IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, SO THAT THE OWNER CAN OCCUPY THE AREA FOR THE PURPOSE FOR WHICH IT WAS INTENDED.

9.2 BEFORE FINAL PAYMENT IS ISSUED THE FOLLOWING ITEMS MUST BE SUBMITTED BUT THESE SUBMISSIONS IS NOT LIMITED TO THESE ITEMS:

1. WAIVER OF LIENS ALL WARRANTIES AND GUARANTEES. MANUALS AND INSTRUCTIONS

4. AS BUILT DRAWINGS.

SECTION 10 - ASBESTOS 10.1 IF THE CONTRACTOR ENCOUNTERS ASBESTOS HE SHALL NOTIFY THE OWNER'S PROJECT MANAGER IMMEDIATELY AND TAKE PRECAUTIONS TO NOT DISTURB THE ASBESTOS UNTIL PROPER MEASURES FOR ITS REMOVAL HAVE BEEN MADE

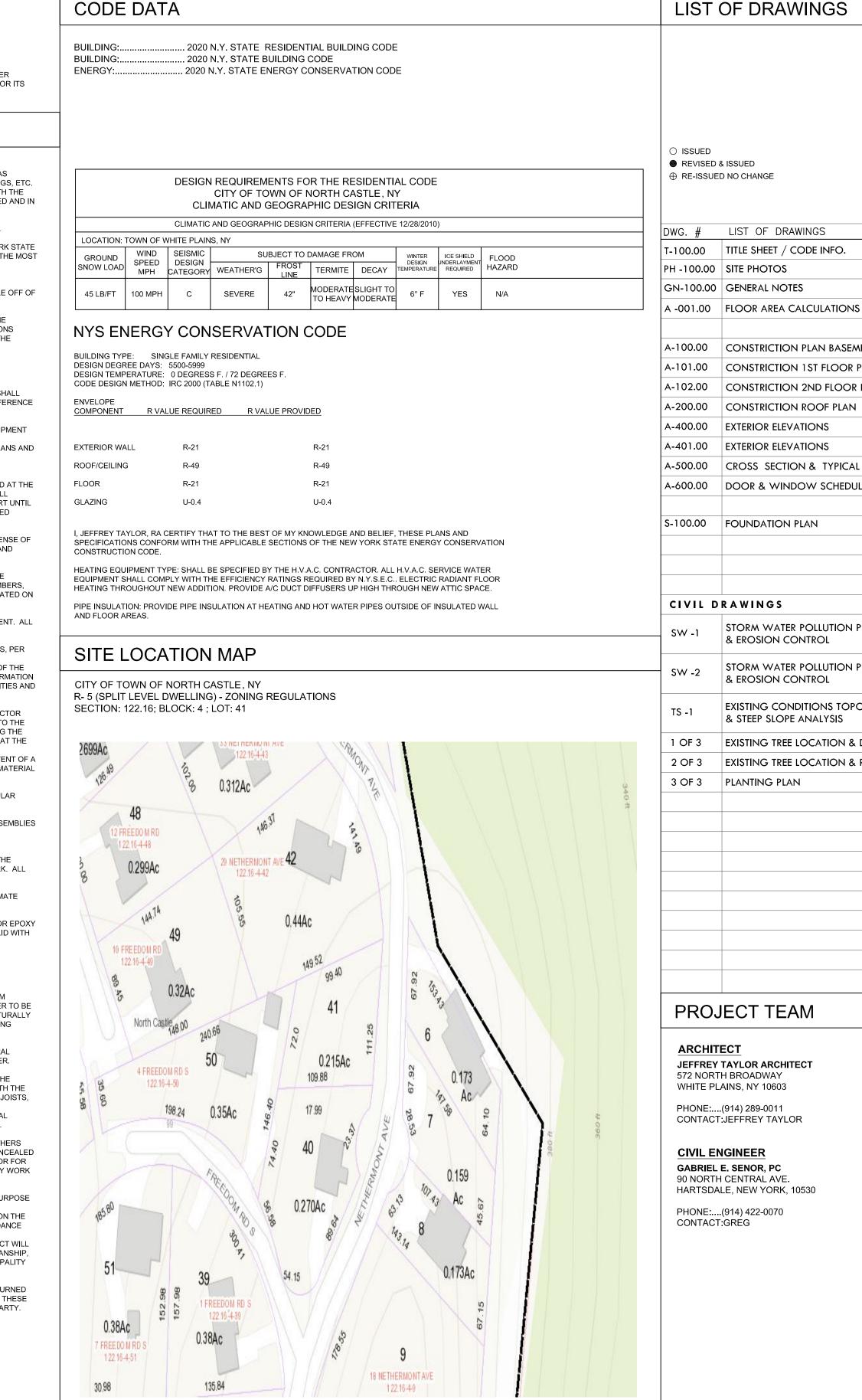
## GENERAL CONSTRUCTION NOTES

- CONTRACTOR ACCEPTS THE RESPONSIBILITY TO PROVIDE ALL ITEMS AND SERVICES REQUIRED AS INDICATED ON THESE DRAWINGS AND IN CONFORMANCE WITH ALL THE NOTES, DETAILS, DRAWINGS, ETC. CONTAINED WITHIN THIS SET OF CONSTRUCTION DOCUMENTS UPON ENTERING A CONTRACT WITH THE OWNER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CARRY OUT THE WORK AS SPECIFIED AND IN ACCORDANCE WITH ALL CODES, RULES, REGULATIONS GOVERNING, AND MAUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO FOLLOW THE BUILDING DEPARTMENT APPROVED SET OF DOCUMENTS. NO SUBSTITUTIONS SHALL BE MADE WITHOUT CONSULTING THE ARCHITECT FIRST.
- ALL WORK SHALL COMPLY WITH THE LOCAL MUNICIPALITY & THE RESIDENTIAL CODE OF NEW YORK STATE ALONG WITH ALL OTHER APPLICABLE CODES & AGENCIES HAVING JURISDICTION. IN ALL CASES. THE MOST RESTRICTIVE LIMITATION OF ANY APPLICABLE CODE SHALL BE FOLLOWED BY THE CONTRACTOR. CONTRACTOR SHALL BE LICENSED AND INSURED
- CONTRACTOR(S) SHALL FOLLOW ALL LISTED AND NOTED DIMENSIONS AND NOTES. DO NOT SCALE OFF OF
- CONTRACTOR TO NOTIFY THE OWNER, IN A TIMELY MANNER, WHEN THE WORK WILL BEGIN ON THE PROJECT AND SHALL COORDINATE WITH SAME. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF RELATED WORK. ANY DISCREPANCIES FOUND SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IN A TIMELY MANNER AND PRIOR TO THE COMMENCEMENT OF WORK.
- CONTRACTOR TO COORDINATE WORK WITH REQUIRED INSPECTIONS SO AS TO NOT DELAY THE PROGRESS OF THE PROJECT.
- THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH ALL OTHER CONTRACTORS AND SHALL CUT, LAY AND INSTALL THEIR WORK AT SUCH A TIME AND MANNER SO THAT NO DELAY OR INTERFERENCE WITH THE CARRYING FORWARD OF THE WORK OF OTHER CONTRACTORS SHALL OCCUR.
- CONTRACTOR TO INSTITUTE & MAINTAIN ALL SAFETY MEASURES & AND SHALL PROVIDE ALL EQUIPMENT AND TEMPORARY CONSTRUCTION NECESSARY TO SAFEGUARD ALL PERSONS & PROPERTY. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SUPPORTS AND SHORING, ANY AND ALL MEANS AND METHODS OF CONSTRUCTION, ALL TEMPORARY SERVICES, PROTECTION AGAINST WEATHER. COORDINATION OF TRADES AND SERVICES, ETC.
- WITH THE EXCEPTION OF THE INITIAL BUILDING PERMIT. ALL PERMITS SHALL BE SECURED BY, AND AT THE EXPENSE OF, THE CONTRACTOR, CONTRACTOR SHALL GIVE ALL NOTICES AND REQUESTS FOR ALL TESTING AND INSPECTIONS REQUIRED BY THE GOVERNING JURISTICTION. NO WORK SHALL START UNTIL ALL THE NECESSARY PERMITS ARE ISSUED AND THE CONTRACTOR'S WORK SHALL BE CONSIDERED COMPLETE ONLY WHEN ALL REQUIRED CLOSE-OUT DOCUMENTS ARE IN ORDER
- THIS PROJECT TO BE FILED UNDER SEPARATE ELECTRICAL AND PLUMBING PERMITS AT THE EXPENSE OF THE CONTRACTOR(S). ELECTRICAL AND PLUMBING CONTRACTORS ARE TO BE FULLY LICENSED AND INSURED
- 10. CONTRACTOR SHALL NOTIFY ARCHITECT DURING THE DEMOLITION PHASE OF ANY QUESTIONABLE CONDITION OF EXPOSED MATERIALS THAT ARE TO REMAIN, ALONG WITH ALL LOAD-BEARING MEMBERS ETC. ANY DISCREPANCIES FOUND BETWEEN THOSE UNCOVERED IN THE FIELD AND THOSE INDICATED ON THE DRAWINGS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IN A TIMELY MANNER.
- ALL PATCHING & REPAIRING SHALL BE DONE WITH MATERIAL & WORKMANSHIP TO MATCH ADJACENT. ALL NEW CONSTRUCTION TO ALIGN WITH EXISTING UNLESS OTHERWISE INDICATED.
- 2. ALL WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE BEST ACCEPTABLE TRADE PRACTICES, PER MANUFACTURERS RECOMMENDATIONS & PER THE REQUIREMENTS OF THE CODE OWNER AND ARCHITECT RESERVE THE RIGHT TO REJECT UNACCEPTABLE CONSTRUCTION AT THE EXPENSE OF THE CONTRACTOR. CONTRACTOR TO PROVIDE TO THE OWNER ALL WARRANTY AND GUARANTY INFORMATION PROVIDED BY THE APPROPRIATE MANUFACTURERS AND SHALL INFORM THE OWNER OF WARRANTIES AND GUARANTIES ASSOCIATED WITH SAID WORK.
- 3. ANY SUBSTITUTION TO ANY SPECIFIED MATERIALS OR ASSEMBLIES REQUESTED BY THE CONTRACTOR SHALL BE PRESENTED TO THE ARCHITECT IN A TIMELY MANNER. CONTRACTOR SHALL FURNISH TO THE ARCHITECT ALL PRODUCT DATA, TEST REPORT DATA, CODE RELATED MATERIAL, ETC. REGARDING THE SUBSTITUTION (IF APPLICABLE) ALONG WITH A SIGNED APPROVAL BY THE OWNER INDICATING THAT THE OWNER HAS APPROVED SUCH SUBSTITUTION PENDING THE APPROVAL OF THE ARCHITECT. THE ARCHITECT RESERVES THE RIGHT TO REJECT SUCH SUBSTITUTION FOR ANY REASON. IN THE EVENT OF A REJECTION, THE CONTRACT AMOUNT SHALL NOT BE INCREASED BY THE USE OF THE SPECIFIED MATERIAL OVER THE REQUESTED SUBSTITUTION.
- 4. ALL CONSTRUCTION DEBRIS & REFUSE SHALL BE REMOVED FROM THE PROJECT SITE ON A REGULAR BASIS AND LEGALLY DISPOSED OF OFF OF THE PROPERTY.
- ALL FINISHES SHALL COMPLY WITH THE NEW YORK STATE BUILDING CODE. ALL MATERIALS & ASSEMBLIES REQUIRED TO HAVE A FIRE RESISTANCE RATING SHALL BE OF AN APPROVED ASSEMBLY BY THE
- UNDERWRITERS LABORATORIES (UL) OR AN APPROVED AGENCY. 16. ALL FIXTURES, FINISHES, FURNISHINGS, EQUIPMENT, HARDWARE, ETC. TO BE APPROVED OF BY THE OWNER. CONTRACTOR TO COORDINATE OWNER SUPPLIED MATERIAL WITH CONTRACTOR'S WORK. ALL FURNITURE BY OWNER UNLESS OTHERWISE NOTED
- 7. ALL STRUCTURAL CONCRETE SHALL COMPLY WITH ACI SPECIFICATIONS & HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 3,500 PSI @ DAY 28.
- 18. ALL CMU FOUNDATIONS SHALL BE REINFORCED VERTICALLY WITH HOT GALVANIZED ASTM A653 OR EPOXY COATED GRADE 60 OR BETTER DEFORMED REBAR. ALL CELLS OF THE CMU SHALL BE FILLED SOLID WITH GROUT - MORTAR SHALL NOT BE PERMITTED TO FILL CORES SOLID.
- 19. BEARING CAPACITY OF SOIL 1.5 KIP/S.F. MINIMUM ASSUMED.
- 20. ALL STRUCTURAL STEEL TO BE A-36 GRADE. ALL LIGHT GAUGE FRAMING TO BE 24 GA MINIMUM. I. ALL INTERIOR STRUCTURAL LUMBER TO BE DOUGLAS FIR-LARCH NO. 2 OR EQUAL WITH A MINIMUM BENDING STRESS OF 900 PSI AND CONFORM TO AFPA STANDARDS. ALL EXTERIOR GRADE LUMBER TO BE PRESSURE TREATED SOUTHERN PINE CONFORMING TO AWPA STANDARDS OR OF A SPECIES NATURALLY RESISTANT TO DECAY AND INSECTS. LAMINATED VENEER LUMBER (LVL) TO HAVE MINIMUM BENDING STRESS OF 2,600 PSI AND A MODULUS OF ELASTICITY OF 1,900,000 PSI.
- 22. ALL CONCRETE, MASONRY, AND EXTERIOR LUMBER FASTENERS, SCREWS, ANCHORS, STRUCTURAL ACCESSORIES, ETC. TO BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A653 OR BETTER.
- 23. ALL STRUCTURAL SHEATHING SHALL BE INSTALLED WITH THE FACE GRAIN PERPENDICULAR TO THE FRAMING BENEATH. ALL LOAD BEARING ELEMENTS SHALL BE INSTALLED IN DIRECT CONTACT WITH THE LOAD BEARING ELEMENT RECEIVING THE LOAD. ALIGN ALL JOISTS OVER STUDS, RAFTERS OVER JOISTS, FULL BEARING OF JOISTS AND STUDS ONTO SILLS. ETC. DISCREPANCIES SHALL BE REMEDIED AT CONTRACTOR'S EXPENSE. ALL CONNECTIONS SHALL BE WITH APPROVED HOT-GALVANIZED METAL CONNECTORS - TOE NAILING SHALL NOT BE CONSIDERED A POSITIVE STRUCTURAL CONNECTION.
- NO RESPONSIBILITY HAS BEEN ASSUMED BY THE ARCHITECT FOR INFORMATION SUPPLIED BY OTHERS AND BELIEVED BY THE ARCHITECT TO BE RELIABLE. NOR FOR ANY CONDITIONS WHICH WERE CONCEALED OR IMPOSSIBLE TO DETECT WITHOUT SUBSTANTIAL AND/OR EXTENSIVE PROBING OR TESTING NOR FOR ANY LATENT DEFECTS IN THE EXISTING STRUCTURE. ARCHITECT ASSUMES NO LIABILITY FOR ANY WORK NOT IN CONFORMANCE WITH THE CODE NOR FOR EXISTING CONDITIONS SHOWN HEREON.
- 5. ANY SITE OBSERVATIONS PERFORMED BY THE ARCHITECT ARE SOLELY FOR THE ARCHITECT'S PURPOSE OF DETERMINING IF THE WORK IS BEING CARRIED OUT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS FOR THE GENERAL DESIGN AND AESTHETIC INTENT. THE ARCHITECT'S PRESENCE ON THE SITE IN NO WAY RELIEVES THE CONTRACTOR OF HIS DUTIES TO PERFORM THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE RULES AND REGULATIONS MANDATED BY THE LOCAL MUNICIPALITY, OR THE REQUIREMENTS OF THE NEW YORK STATE BUILDING CODE. THE ARCHITECT WILL NOT BE HELD LIABLE FOR ANY UNSATISFACTORY WORK PERFORMED. THE QUALITY OF CRAFTSMANSHIP. MEANS AND METHODS OF CONSTRUCTION AND SITE SAFETY, EXCEPTIONS BY THE LOCAL MUNICIPALITY FAILED INSPECTIONS, OR ANY OTHER DEFICIENCIES BY THE CONTRACTOR.
- 6. THESE CONSTRUCTION DOCUMENTS ARE THE PROPERTY OF THE ARCHITECT AND SHALL BE RETURNED TO THE OWNER AT THE COMPLETION OF BIDDING AND/OR CONSTRUCTION ADDITIONAL SETS OF THESE DOCUMENTS CAN BE PROVIDED BY THE ARCHITECT FOR A FEE CHARGED TO THE REQUESTING PARTY.

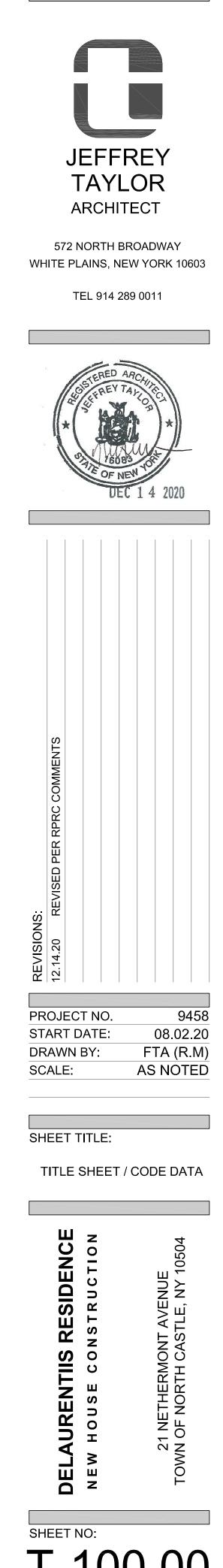
#### 7.1 THE GENERAL CONTRACTOR SHALL PROTECT AND BE RESPONSIBLE FOR THE EXISTING STRUCTURES, FACILITIES AND IMPROVEMENTS ADJOINING THE AREA UNDER THIS CONTRACT, ANY DISTURBANCES OR

# DELAURENTIIS RESIDENCE NEW CONSTRUCTION

# 21 NETHERMONT AVENUE TOWN OF NORTH CASTLE, NY 10504



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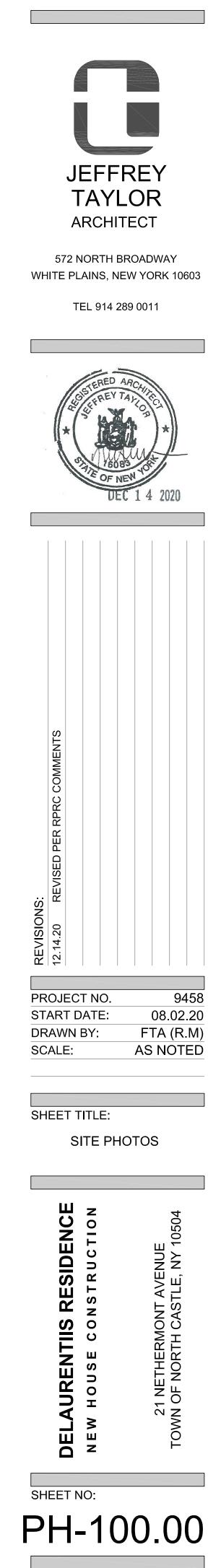
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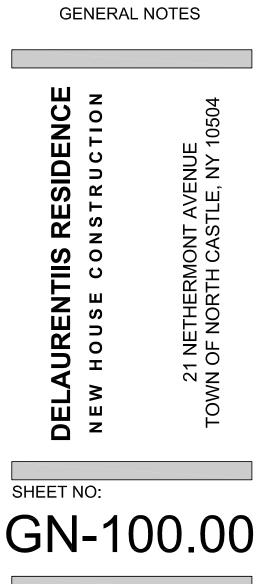


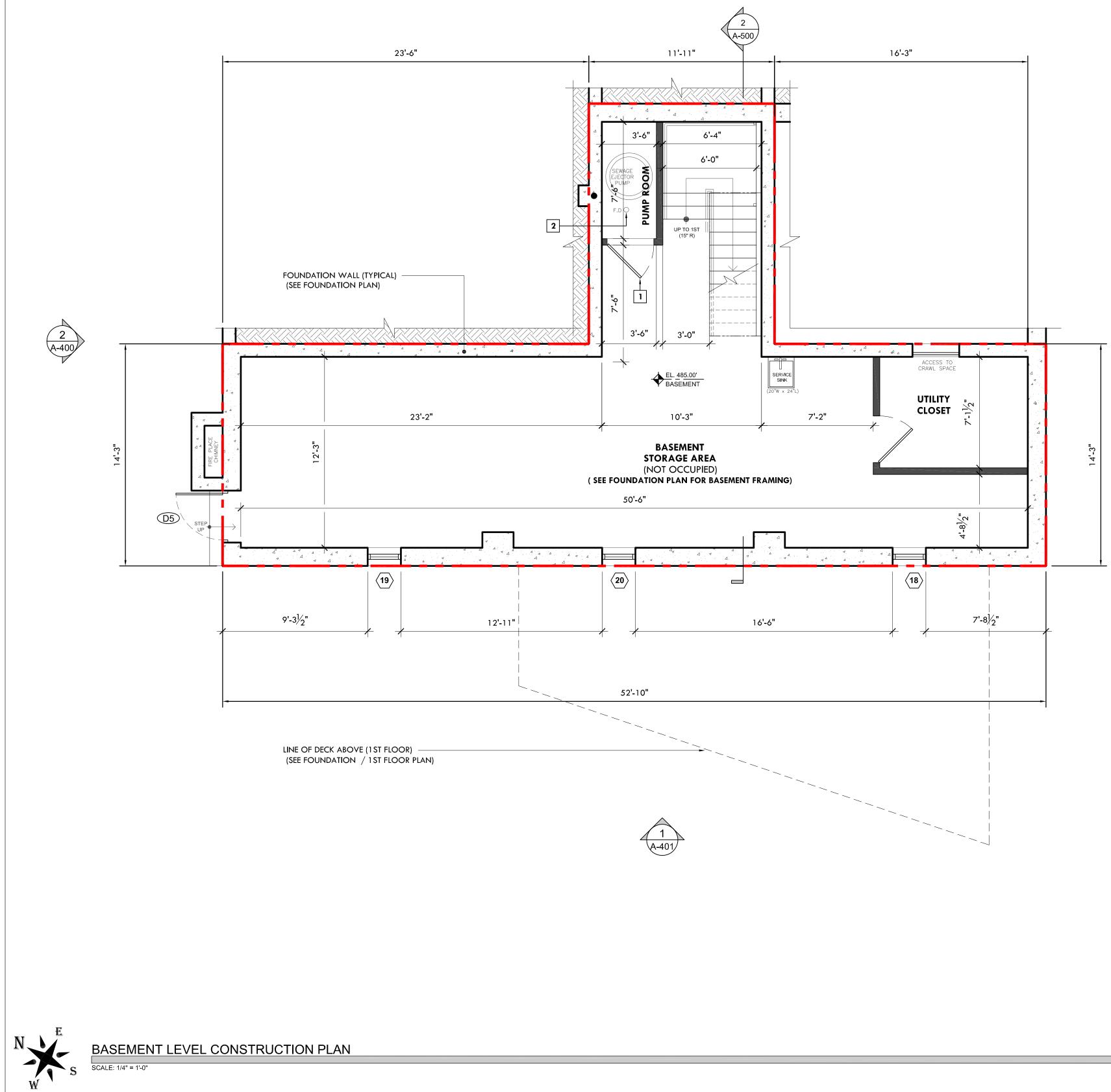
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PLUMBING NOTES PLUMBER SHALL FILE SEPARATELY FOR ALL PERMITS AND INSPECTIONS	CARPENTRY NOTES	STRUCTURAL STEEL NOTES			
PLUMBER SHALL FILE SEPERATELY FOR ALL PLUMBING PERMITS AND INSPECTIONS	ALL FRAMING SHALL BE DONE IN CONFORMANCE WITH THE LATEST EDITION OF "NATIONAL DESIGN     SPECIFICATIONS FOR STRESS GRADED LUMBER AND ITS FASTENINGS" AS PUBLISHED BY THE NATIONAL     LIMPER MANUER CITUPEER ASSOCIATION	1. STRUCTURAL STEEL	6. WHERE ROCK OUTCROPPINGS ARE ENCOUNTERED IN A BUILDING OR DECK FOUNDATION BEARING ON SOIL,		
<ol> <li>ALL FIXTURES SHALL BE PROVIDED BY OWNER AND INSTALLED BY PLUMBING CONTRACTOR U.O.N.</li> <li>COORDINATE ALL FIXTURE LOCATIONS WITH THE REQUIREMENTS OF THE OWNER AND IN ACCORDANCE w/</li> </ol>	LUMBER MANUFACTURERS ASSOCIATION. 2 ALL LUMBER MATERIALS USED IN THE BUILDING SHALL BE GOOD, SOUND, DRY MATERIAL, FREE FROM ROT, LARGE AND LOOSE KNOTS, SHAKES, AND OTHER IMPERFECTIONS WHEREBY THE STRENGTH MAY BE IMPAIRED	A. STEEL CONSTRUCTION SHALL CONFORM TO AISC "MANUAL OF STEEL CONSTRUCTION", LATEST EDITION, AND SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AS ADOPTED SEPTEMBER 1, 1986.	SUCH OUTCROPPING OR INTERFERENCE SHALL BE REMOVED TO A DEPTH 12 INCHES BELOW BOTTOM OF FOOTING AND REPLACED WITH CLEAN GRANULAR MATERIAL CONTAINING LESS THAN 15% SILT, COMPACTED TO 95% MAXIMUM DENSITY PER MODIFIED PROCTOR METHOD. MAINTAIN A MINIMUM COVER OF 2'-6" TO BOTTOM OF CONCRETE.		
THE CODE. 3. PROVIDE ALL REQUIRED ROUGH PLUMBING. CONNECTIONS TO HARDWARE. WASTE CONNECTIONS TO	AND OF SIZES INDICATED ON DRAWINGS. 3. ALL WORKMANSHIP INCLUDING NAILING, BLOCKING, BRIDGING, ETC., SHALL CONFORM TO THE LATEST EDITION	B. MATERIALS FOR STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS: BEAMS, GIRDERS, COLUMNS, MISC. STEEL UNLESS NOTED OTHERWISE -A36	<ol> <li>WHERE NECESSARY, FOOTING STEPS SHALL BE CONSTRUCTED AT MAXIMUM SLOPE OF 1 VERTICAL TO 2 HORIZONTAL.</li> </ol>		
FIXTURES, VENTING, ETC. AS REQ'D.	OF THE RESIDENTIAL CODE OF THE STATE OF NEW YORK. 4. PROVIDE 4" X 6" OR 4" X 4" SOLID POST OR (2) 2" X 6" OR (2) 2"X 4" SPIKED AT BEARING POINTS OF ALL DOUBLE FRAMED MEMBERS UNLESS OTHERWISE NOTED AS REQUIRED FOR WALL THICKNESS.	UNLESS NOTED OTHERWISE -A36 PLATE -A36 STRUCTURAL TUBE -A500, GRADE B STRUCTURAL PIPE -A501 OR A53 TYPE E	8. WHERE SOLID UNFRACTURED ROCK IS ENCOUNTERED FOR A WALL LENGTH OF AT LEAST 25 FEET, WALLS MAY BE POURED WITHOUT FOOTINGS BY TRENCHING 6 INCHES INTO THE ROCK AND PINNING THE WALL TO ROCK WITH #6 X 3'-0" LONG DOWELS AT 2'-8" ON CENTER, GROUTED INTO ROCK, EXTENDING 1'-6" INTO ROCK, NO		
<ol> <li>MAINTAIN ALL REQUIRED CLEARANCES AROUND EACH FIXTURE IN ACCORDANCE w/ FIGURE R307.2 OF THE RESIDENTIAL CODE.</li> <li>ALL NOT WATER QUALL BE DOUBLE RIPER WITH OROUND ATING RUMP.</li> </ol>	<ol> <li>ALL HEADERS SHALL BE (2) 2" X 12" UNLESS OTHERWISE NOTED.</li> <li>PROVIDE (3) 2' X 6" SPIKED AT BEARING POINTS OF ALL TRIPLE FRAMING MEMBERS UNLESS OTHERWISE</li> </ol>	C. ALL BOLTED CONNECTIONS SHALL BE MADE USING A325-F BOLTS, ¾" DIAMETER INSTALLED IN ACCORDANCE WITH "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 BOLTS OR A490 BOLTS", UNLESS OTHERWISE DETAILED.	FROST PROVISIONS ARE REQUIRED FOR THIS DETAIL. PROVIDE CONTROL JOINT IN WALL AT ANY TRANSITION BETWEEN ROCK BEARING AND SOIL BEARING CONDITIONS. 9. EXCAVATIONS SHALL BE DEWATERED TO ALLOW INSTALLATION OF FOOTINGS IN DRY ATMOSPHERE.		
<ol> <li>ALL HOT WATER SHALL BE DOUBLE PIPED WITH CIRCULATING PUMP.</li> <li>ALL HOT AND COLD WATER PIPES SHALL BE PEX THROUGHOUT HOUSE WITH A CIRCULATOR PUMP. (FOR</li> </ol>	<ol> <li>PROVIDE (3) 2 X 6 SPIKED AT BEAKING POINTS OF ALL TRIPLE FRAMING MEMBERS UNLESS OTHERWISE NOTED.</li> <li>PROVIDE MID-HEIGHT BLOCKING IN ALL BEARING PARTITIONS.</li> </ol>	<ul> <li>D. ANCHOR BOLTS SHALL BE OF A36 OR A307 STEEL. 5/8" X 12" WITH 7" MINIMUM EMBEDMENT @ 4'-0" ON CENTER (MAXIMUM).</li> </ul>	10. DIFFERENTIAL BACKFILL AGAINST FOUNDATION WALLS SHALL NOT EXCEED FOUR FEET UNTIL TOP BRACING SLAB OR FRAMEWORK HAS BEEN IN PLACE FOR A MINIMUM OF THREE DAYS. CANTILEVERED RETAINING	JEFFREY	
HOT WATER). 7. HOT WATER HEATER SHALL BE PROPANE FIRED AND HIGHEST EFFICIENCY AVAILABLE ON MARKET WITH	8. PROVIDE "X" BRIDGING OR SOLID BLOCKING MAXIMUM 8'-0" ON CENTER AT MID-SPAN OF ALL FLOOR JOISTS SPANNING MORE THAN 9-0".	E. ALL STEEL SHALL BE SHOP PAINTED WITH GRAY ZINC CHROMATE PRIMER 2.0 MILS IN THICKNESS, EXCEPT WHERE FIELD WELDING OR FRICTION BOLTING IS TO BE DONE, AND EXCEPT WHERE STEEL IS TO RECEIVE SPRAY APPLIED FIREPROOFING. ALL WELDS AND BARE SPOTS SHALL RECEIVE TOUCH UP PAINT.	WALLS MAY BE BACKFILLED WITHIN 14 DAYS OF CONCRETE PLACEMENT, BUT IN NO CASE SHALL DIFFERENTIAL OF BACKFILL, BETWEEN OPPOSITE SIDES OF THE WALL, EXCEED THE FINAL DIFFERENTIAL. 11. FURNISH AND INSTALL 4" PERFORATED FOOTING DRAIN PIPE AT ALL NEW FOUNDATION/RETAINING WALLS AND	TAYLOR	
MINIMUM 100 GALLON CAPACITY.	9. PROVIDE DOUBLE JOISTS UNDER ALL PARTITIONS PARALLEL TO JOIST AND AROUND ALL OPENINGS IN FLOORS, CEILINGS, AND ROOF.	<ul> <li>F. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH STANDARDS OF THE AMERICAN WELDING SOCIETY. ELECTRODES MUST MEET ASTM A233E70XX SERIES REQUIREMENTS.</li> </ul>	AT ANY LOCATION EXPOSED DURING CONSTRUCTION REQUIRING SAME. SURROUND ATION/RETAINING WALLS AND GRAVEL WITH FILTER MAT BARRIER. FOLLOW SPECIFICATION OF FILTER MAT MANUFACTURER.TERMINATE FOOTING DRAIN TO STORM SEWER, DAYLIGHT, OR DRYWELL AS REQUIRED BY TERRAIN OR	ARCHITECT	
ELECTRICAL & POWER NOTES	<ol> <li>FLASH THE FRONT AND/OR REAR DECK AND ANY OTHER EXTERIOR DOORS WHEN THE DECK IS POURED AGAINST WOOD BOX BEAM.</li> <li>LUMBER IN CONTACT WITH CONCRETE TO BE PRESSURE TREATED.</li> </ol>	G. SHOP AND ERECTION DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT OR STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL. SHOP DRAWINGS SHALL BEAR THE SEAL OF A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THIS PROJECT. NO FABRICATION OF STEEL SHALL COMMENCE	CITY/VILLAGE/VILLAGE REGULATIONS. 12. DAMP-PROOFING OR WATERPROOFING SHALL BE PROVIDED AT ALL FOOTING AND FOUNDATION WALLS WHERE EXPOSED TO SOIL. EITHER BITUMINOUS TROWELD-ON MATERIAL OR MEMBRANE MATERIAL SHALL BE		
ELECTRICIAN SHALL FILE SEPARATELY FOR ALL PLUMBING PERMITS AND INSPECTIONS         1.       ELECTRICIAN SHALL BE LICENSED AND INSURED TO PERFORM WORK IN THIS JURISDICTION.	12. ALL LUMBER IN CONTACT WITH CONCRETE TO BE PRESSURE TREATED. 12. ALL LUMBER USED FOR EXTERIOR DECKING, IF REQUIRED, SHALL BE PRESSURE TREATED, WHITE CEDAR OR MAHOGANY. SEE DRAWINGS FOR SIZES AND THICKNESSES.VERIFY FINISH WITH OWNER.	WITHOUT APPROVED SHOP DRAWINGS. SHOP DRAWINGS ARE PREPARED AND USED BY THE CONTRACTOR AS INSTRUMENTS TO SEQUENCE HIS WORK AND TO FACILITATE FABRICATION AND ERECTION. REVIEW OF SHOP DRAWINGS SHALL BE FOR GENERAL DETAIL AND ARRANGEMENT ONLY. CONTRACTOR SHALL BEAR	ACCEPTABLE. REFERENCE DRAWINGS FOR ADDITIONAL INFORMATION. DRAWINGS SHALL TAKE PRESIDENCE OVER OUTLINE SPECIFICATION. NOTIFY ARCHITECT IF CLARIFICATION NECESSARY. PROTECT DAMPROOFING FROM DAMAGE BY BACK FILLING OPERATIONS WITH RIGID INSULATION OR PROTECTION BOARD.	572 NORTH BROADWAY WHITE PLAINS, NEW YORK 10603	
2. ALL DEVICES AND WIRING SHALL BE OF AN APPROVED TYPE AS REQUIRED BY THE N.E.C. AND ALL LOCAL	<ol> <li>ALL NEW EXTERIOR SHEATHING SHALL BE 1/2" EXTERIOR PLYWOOD AS SHOWN ON DRAWINGS, AND NOTED ABOVE. ALL SHEATHING SHALL BE AGENCY APPROVED C.D.X. GRADE DOUGLAS FIR PLYWOOD AND SHALL BE</li> </ol>	FULL RESPONSIBILITY FOR DIMENSIONS, PROPER FIT, AND DETAILED DESIGN OF CONNECTIONS. THEIR APPROVAL BY THE ARCHITECT OR STRUCTURAL ENGINEER IS NOT TO BE CONSTRUED AS A WAIVER OF CONSTRUCTION CONTRACT REQUIREMENT OR RESPONSIBILITIES, UNLESS THE CONTRACTOR HAS BEEN GRANTED A DEVIATION IN WRITING.	13. FURNISH AND INSTALL 16 OZ.COPPER OR EQUAL TERMITE SHIELD UNDER PRESSURE TREATED (P.T.) SILL PLATE ALONG ENTIRE PERIMETER OF NEW FOUNDATION WALL. FOLLOW SHEET METAL AND AIR CONDITIONING	WHITE PLAINS, NEW TORK 1000	
CODES GOVERNING. 3. ALL STANDARD RECESSED FIXTURES SHALL BY I.C. TYPE W/ 60-WATT PAR 30 BULBS U.O.N. COORDINATE	SECURED IN ACCORDANCE WITH APA MINIMUM NAILING FREQUENCIES, TYPICALLY AS FOLLOWS: EDGES 6" OC, FIELD 8"OC.	<ul> <li>CONNECTIONS SHALL BE DESIGNED FOR MAXIMUM CAPACITY OF THE MEMBER, OR FOR SHEARS SHOWN X 1.25, UNLESS OTHERWISE DETAILED.</li> </ul>	CONTRACTORS NATIONAL ASSOCIATION ("SMACNA") DETAILS. 14. FURNISH AND INSTALL POLYETHYLENE FOAM SILL SEALER ALONG ENTIRE LENGTH OF NEW FOUNDATION WALL BETWEEN TOP OF FOUNDATION WALL AND P.T. SILL PLATE.	TEL 914 289 0011	
<ol> <li>TRIM KITS WITH OWNER.</li> <li>COORDINATE TYPE AND LOCATIONS ALL FIXTURES, SWITCHES, DEVICES AND OUTLETS WITH OWNER.</li> </ol>	<ol> <li>ALL INTERIOR PARTITIONS SHALL BE 5/8" GYPSUM BOARD ON EACH SIDE OF 2" X 4" STUD 16" INCHES ON CENTER UNLESS OTHERWISE NOTED.</li> <li>A VAPOR BARRIER SHALL BE PROVIDED ON THE WARM SIDE OF ALL INSULATED CONSTRUCTION.</li> </ol>	I. DURING ERECTION, APPROVED TEMPORARY BRACING SHALL BE INSTALLED AS REQUIRED TO PREVENT DISTORTION OR DAMAGE TO THE FRAMEWORK DUE TO ERECTION FORCES.	15. FURNISH & INSTALL CONTINUOUS RIGID INSULATION / PROTECTION BOARD ALONG FOUNDATION WALL & UNDER BASEMENT FLOOR SLAB. SEE DRAWINGS FOR ADDITIONAL INFORMATION.		
5. PROVIDE MIN. 100 C.F.M. FANS IN BATHROOMS. FAN SHALL BE INSTALLED WITH A RIGID DUCT RUNNING	<ul> <li>6. METHOD OF SUPPORT AT STAIRS OR STEPS SHALL BE BY CONTRACTOR. ALL STAIRS/STEPS TO SUPPORT 100 LB. LIVE LOAD.</li> </ul>	<ul><li>J. STEEL ERECTOR SHALL PROVIDE A FIRE WATCH DURING ALL FIELD WELDING OPERATIONS.</li><li>2. LINTELS</li></ul>	15. 4" REINFORCED CONCRETE FLOOR SLAB W/ WELDED WIRE REINFORCING @ 6x6-#6x#6 2" RIGID INSULATION OVER POLYETHYLENE VAPOR BARRIER OVER 4" MINIMUM GRAVEL FILL		
<ol> <li>ALL FIXTURES LOCATED WITHIN BATHROOMS AND LOCATED OUTSIDE SHALL BE RATED FOR WET SERVICE.</li> </ol>	7. STUD FRAMING HAVING AN UNSUPPORTED HEIGHT OF 10'-0" SHALL BE BRIDGED AT 8'-0" INTERVALS.	A. STEEL LINTELS, SHALL BE HOT STIFFED GALVANIZED WITH A MINIMUM OF 5" BEARING. PRECAST LINTELS SHALL HAVE MINIMUM BEARING OF 8". BEARING POINTS SHALL HAVE GROUTED BLOCK FOR THREE COURSES BELOW LINTEL.	<ol> <li>CONCRETE MASONRY UNITS (CMU):</li> <li>A. ALL CONCRETE MASONRY UNITS SHALL BE HOLLOW LOAD BEARING UNITS CONFORMING TO ASTM C90, WITH AUXIMUM COMPRESSIVE STRENGTL OF UNITS 1500 PSL WITH ASSUMPTION COMPRESSIVE.</li> </ol>	STERED ARCAUS	
7. ALL SURFACE FIXTURES SHALL HAVE A COVER OR GLOBE - NO BARE-BULB FIXTURES PERMITTED.	<ol> <li>8. STUDS TO BE DOUBLED AT ALL SIDES OF OPENING IN EXTERIOR WALLS AND BEARING PARTITIONS.</li> <li>9. ALL RAFTERS AND FLOOR FRAMING TO BE BRIDGED AT 8'-0" ON CENTER MAXIMUM INTERVALS.</li> </ol>	<ul> <li>B. FOR MASONRY OPENINGS 4'-0" OR LESS, USE (1) L 3-1/2" X 3-1/2" X 5/16" FOR EACH 4" OF WALL THICKNESS</li> <li>OR PRECAST LINTEL 8" DEEP WITH ONE #3 BAR TOP AND BOTTOM FOR EACH 4" OR 5", FM=2500 PSI. WHERE</li> </ul>	WITH MINIMUM COMPRESSIVE STRENGTH OF UNITS-1500 PSI, WITH ASSUMED DESIGN COMPRESSIVE STRENGTH, FM'=L150 PSI AND DENSITY OF 140 PSF. B. ALL UNITS SHALL BE PLACED IN RUNNING BOND.	US HEREY TANTO	
8. ELECTRICIAN SHALL EVALUATE THE ELECTRICAL PANEL AND UPGRADE AS REQUIRED. CONTRACTOR SHALL COORDINATE WORK AND COMPLY WITH THE LOCAL UTILITY COMPANY AS REQUIRED.	<ol> <li>ALL WOOD POSTS TO BE DOUGLAS FIR OR SOUTHERN YELLOW PINE NO. 1 OR BETTER.</li> <li>CUT OFF AND DISCARD ALL SPLIT OR CHECKED ENDS OF LUMBER BEFORE USING.</li> </ol>	10" BLOCK IS USED, USE L 4" X 4" X 5/16" FOR EACH 5" OF WALL THICKNESS. C. FOR MASONRY OPENINGS 4'-0" TO 6"-0" USE (1) L 5" X 3-1/2" X 5/16" FOR EACH 4" OF WALL THICKNESS, OR PRECAST LINTEL 8" DEEP WITH ONE #4 BAR TOP AND BOTTOM FOR EACH 4" OR 5", FM=2500 PSI, WHERE 10"	C. MORTAR SHALL BE TYPE M OR S. MIX 1 PART PORTLAND CEMENT, 1/4 TO 1/2 PART HYDRATED LIME, AND 2-1/4 TO 3 PARTS SAND, MIXED ON SITE.	(*(*)*)	
9. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THAT THE LIGHT FIXTURE TRIM SPECIFIED IS COMPATIBLE WITH CEILING CONSTRUCTION SPECIFIED.	<ol> <li>PROVIDE BRIDGING SPACED NOT MORE THAN 8'-0" O.C. AND SOLID BLOCKING AT SUPPORTS.</li> <li>PROVIDE TEMPORARY AND PERMANENT BRACING FOR FRAMING AS REQUIRED TO HOLD IT SECURELY IN</li> </ol>	BLOCK IS USED, USE L 6" X 4" X 5/16" FOR EACH 5" OF WALL. 3. FRAMING LUMBER	D. STORE ALL UNITS OFF GROUND TO PREVENT CONTAMINATION. COVER MATERIALS TO PROTECT FROM THE ELEMENTS.	a many	
10. MULTIPLE ADJACENT SWITCHES SHALL BE MOUNTED IN A SINGLE MULTI-GANG BOX AND BE COVERED WITH A SINGLE CONTINUOUS FACEPLATE, WHERE AN ADDITIONAL SWITCH IS ADDED TO AN EXISTING	POSITION AT ALL TIMES. 14. PROVIDE DOUBLE MEMBERS AROUND OPENINGS MORE THAN 16" WIDE.	A. ALL NEW INTERIOR FRAMING LUMBER SHALL BE DOUGLAS FIR, S-DRY OR KILN DRY, NO. 2 OR BETTER, AS GOVERNED BY THE WESTERN WOOD PRODUCTS ASSOCIATION, AS DETERMINED BY THE IN-GRADE TESTING PROGRAM IN 1978. DESIGN VALUES ASSUMED.	<ul> <li>E. NO AIR-ENTRAINING ADMIXTURES OR ANTIFREEZE COMPOUNDS, SUCH AS CALCIUM CHLORIDE SHALL BE ADDED TO MORTAR.</li> <li>E. ALL WALLS OR BU ASTERS SUPPORTING STEEL AT REARING PLATES SHALL BE GROUTED SOLID FOR FOUR</li> </ul>	THE OF NEW YOR	
SWITCH LOCATION, REMOVE EXISTING SWITCHES AND PROVIDE A NEW SINGLE FACEPLATE.	7. PROVIDE A MINIMUM OF TWO (2) MEMBERS OR SOLID BLOCKING AT 2'-0" O.C. UNDER ALL PARTITIONS THAT ARE PARALLEL TO FLOOR FRAMING.	B. ALL NEW EXTERIOR FRAMING LUMBER SHALL BE SOUTHERN YELLOW PINE, S-DRY OR KILN DRY, NO.1 DENSE OR BETTER, PRESSURE TREATED FOR ABOVE GROUND USE, AS GOVERNED BY THE STANDARD	<ul> <li>F. ALL WALLS OR PILASTERS SUPPORTING STEEL AT BEARING PLATES SHALL BE GROUTED SOLID FOR FOUR COURSES IN DEPTH FOR A WIDTH OF 32".</li> <li>G. DO NOT BACKFILL AGAINST FOUNDATION WALLS UNTIL MORTAR HAS ATTAINED MAXIMUM STRENGTH.</li> </ul>	DEC 1 4 2020	
SCOPE OF WORK. CONTRACTOR TO VERIFY SCOPE OF REMOVALS AND NEW CONSTRUCTION TO DETERMINE LIMITS OF NEW CEILING CONSTRUCTION.	<ol> <li>PROVIDE NAILERS, LEDGERS AND BLOCKING WHERE REQUIRED; FASTEN SECURELY.</li> <li>LAP AND SPIKE ENDS OF RAFTERS OR JOISTS. ANCHOR ALL FRAMING TO WALLS AT 2-0" O.C. MAXIMUM WHEN RAFTERS OR JOISTS ARE PARALLEL TO WALLS</li> </ol>	GRADING RULES FÓR THE SOUTHERN PINE LUMBER (SPLB), AS DETERMINED BY THE IN-GRADE TESTING PROGRAM IN 1978. MIN. DESIGN VALUES ASSUMED. C. ALL LUMBER SHALL BEAR VISIBLE GRADE STAMPING.	WHERE BACKFILL IS PLACED AGAINST FOUNDATION WALLS BEFORE FLOOR CONSTRUCTION IS IN PLACE, PROVIDE TEMPORARY BRACING.		
12. PROVIDE ALL NECESSARY HANGERS & CLIPS FOR PROPER LIGHT FIXTURE INSTALLATION.	RAFTERS OR JOISTS ARE PARALLEL TO WALLS. 10. PROVIDE ALL HARDWARE AND STORM CONNECTIONS AS REQUIRED TO PROPERLY SECURE AND SUPPORT THE FRAMING AND AS INDICATED ON DRAWINGS OR REQUIRED BY CODE.	D. ALL JOISTS BEARING ON MASONRY SHALL BE FIRECUT WITH MINIMUM BEARING LENGTH OF FOUR INCHES	H. FILL ALL CORES WITH MORTAR AND #4 RE-BAR, CONTINUOUS AT ALL CMU FOUNDATION WALLS. FOR ALL OTHER NON-FOUNDATION WALLS THE FIRST BLOCK COURSE ON FOOTING SHALL BE FILLED SOLID WITH MORTAR, UNLESS OTHERWISE NOTED ON DRAWINGS.		
<ol> <li>FOR LIGHT SWITCHES AND EXHAUST FAN CONTROLS SEE ELECTRICAL DRAWINGS.</li> <li>ALL LIGHTING SHALL HAVE DIMMER SWITCHES.</li> </ol>	11. LAMINATED VENEER LUMBER (LVL) BEAMS SHALL BE 2.0E G - P LAM PRODUCTS AS MANUFACTURED BY THE	E. EXCEPT AS UPGRADED ON PLANS AND DETAILS, ALL LUMBER SHALL BE NAILED IN ACCORDANCE WITH THE SPECIFIED NAILING SCHEDULE OR NAILING SCHEDULE FOR SPECIFIC COMPONENT FASTENING AS DEFINED IN THE NEW YORK	I. VERTICAL CONTROL JOINTS SHALL BE PLACED AT A MAXIMUM DISTANCE OF 50 FEET ON CENTER FOR STRAIGHT WALLS. CONTROL JOINTS SHALL BE CONSTRUCTED USING SASH BLOCKS AND DUR-O-WALL PREFORMED REGULAR RAPID CONTROL JOINT (OR EQUAL OF EXTRUDED RUBBER). WALL REINFORCING CHARTER DE DECONTRUCTOR AT JOINTE OF TACHT. DURING CONTROL TO THE DECONTROL OF CONTROL TO THE DECONTROL TO THE DECONTROL OF CONTROL TO THE DECONTROL TO TH		
15. PATCH EXISTING CEILING AT AREA OF NEW CONSTRUCTION AND ALONG ACCESSIBLE ROUTE FOR ALL	"GEORGIA - PACIFIC CORP." OR 2.0E GANG LAM PRODUCTS AS MANUFACTURED BY THE "LOUISIANA - PACIFIC CORP." THE ALLOWABLE STRESSES SHALL BE AS FOLLOWS (PSI): FB 2,850 (FOR 12" DEPTH) (12/D)1/9	STATE BUILDING CODE, LATEST EDITION. F. ALL COLUMNS & POSTS EITHER EXISTING, INDICATED ON THE DRAWINGS, OR REQUIRED IN THE FIELD	SHALL BE DISCONTINUOUS AT JOINTS. VERTICAL JOINTS SHALL BE LOCATED AT CENTER LINE OR COLUMNS, UNLESS SPECIFIC LOCATIONS ARE INDICATED ON DRAWINGS. J CMU WALLS SHALL BE REINFORCED WITH TRUSS TYPE REINFORCING OF 9 GAGE ASTM A82 WIRE.		
TRADES, INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL AND PLUMBING TRADES. 16. ALL CEILING REGISTERS TO BE CENTERED IN CEILING COORDINATE WITH OWNER.	FV 285 FC PERPENDICULAR 750 FC 2,750 FC 2,750	ARE TO BE CONTINUED DOWN TO AND BEAR ON THE FOUNDATION WALL OR FOOTING. PROVIDE FULL BLOCKING AS REQUIRED TO ACHIEVE FULL COLUMN CONTINUITY.	<ul> <li>J. CMU WALLS SHALL BE REINFORCED WITH TRUSS TYPE REINFORCING OF 9 GAGE ASTM A82 WIRE, GALVANIZED, AT 16" ON CENTER (VERTICALLY).</li> <li>K. ALL MASONRY WALLS SHALL BE ADEQUATELY BRACED DURING CONSTRUCTION TO RESIST WIND LOADS OF ADD AND PROPERTING TO ADD PROCEDULE BRACED DURING CONSTRUCTION TO RESIST WIND LOADS OF</li> </ul>		
17. ELECTRICAL CONTRACTOR TO HARD WIRE SMOKE & CARBON MONOXIDE DETECTORS.	E 2,000,000 DO NOT SUBSTITUTE WITH OTHER MANUFACTURER'S PRODUCTS.THE CONTRACTOR SHALL INSPECT THE G - P LAM OR GANG LAM PRODUCTS UPON ARRIVAL AT THE JOB SITE AND REJECT ANY MATERIAL WHICH IS	4. MICROLAM AND PARALLAM BEAMS.	25 PSF. NOTE THAT FLOOR AND ROOF DIAPHRAGMS WILL PROVIDE ULTIMATE STABILITY FOR WALLS. UNTIL THESE ARE IN PLACE, MASONRY WALLS SHALL NOT BE BUILT HIGHER THAN 10 TIMES THEIR THICKNESS WITHOUT BRACING.		
<ol> <li>ALL TOILET ROOM EXHAUST FANS SHALL BE MIN. 100 CFM (WHISPER FANS).</li> <li>COORDINATE NEW GENERATOR INTERLOCKING WITH THE MAIN PANEL.</li> </ol>	WARPED, WET OR OTHERWISE DEFECTIVE. G-P LAM PRODUCTS SHALL BE KEPT UNDER COVER BEFORE, DURING AND AFTER INSTALLATION.	A. MICROLAM AND PARALLAM BEAMS INDICATED ON DRAWINGS SHALL HAVE A MIN. E= 2,000,000 PSI; G= 125,000 PSI; FC PERP.= 750 PSI; FC= 2725 PSI; FV=285 PSI. FB= 2925 PSI; FC PERP.= 750 PSI; FC= 2725 PSI; FV=285 PSI.	L. EXPOSED EXTERIOR FACES OF FOUNDATION WALLS SHALL BE FINISHED WITH 3/8" CEMENT PLASTER PARGING (FLOAT FINISH) FULL HEIGHT, COVED AT FOOTING. DAMPROOFING SHALL BE PROVIDED AT BELOW GRADE EXTERIOR SURFACES.INSTALL #5 RE-BAR		
20. CONTRACTOR SHALL INSTALL ALL LIGHTS PROVIDE BY OWNER.	12. ALL LUMBER IN CONTACT WITH CONCRETE, MASONRY OR THE GROUND, OR EXPOSED TO THE WEATHER OR WITHIN 12" OF THE GROUND, AND WHERE INDICATED ON THE DRAWINGS SHALL BE PRESSURE TREATED TO .40 DENSITY AGAINST ROT AND INSECT INVASION. TREATED LUMBER SHALL CARRY A 30 YEAR MANUFACTURER WARRANTEE AND SHALL NOT STAIN OR OTHERWISE DAMAGE ADJACENT MATERIALS. NAILS,	B. BEAMS THAT ARE DOUBLED AND TRIPLED SHALL BE FASTENED TOGETHER WITH A MIN. OF TWO ROWS OF 16D NAILS AT 12" O.C. USE THREE ROWS OF 10D NAILS AT 12" O.C. FOR 14" AND DEEPER SIZES OR PER MANUFACTURES SPECS. OR AS SHOWN ON PLANS.			
21. ALL LIGHT SHALL BE LED.	BOLTS, CONNECTORS AND OTHER DEVICES USED TO ANCHOR TREATED LUMBER SHALL BE COMPATIBLE WITH TREATMENT METHOD.	C. BEAMS THAT ARE SIDE LOADED SHALL BE FASTENED TOGETHER USING 2 ROWS OF 1/2" DIA. BOLTS @ 12" O.C. MAINTAIN A MIN. OF 2" EDGE DISTANCE FROM TOP AND BOTTOM OF BEAMS.			
H.V.A.C NOTES	<ol> <li>MEMBERS LISTED AS "FLUSH" SHALL BE CONNECTED TO HEADERS OR OTHER SUPPORTING MEMBERS WITH HANGERS OF THE APPROPRIATE SIZE AND TYPE. THE TOP OF THE FLUSH MEMBER SHALL BE SET EVEN WITH THE TOP OF THE SURROUNDING FRAMING OR AS OTHERWISE INDICATED ON DRAWINGS.</li> </ol>	<ul> <li>D. NO NOTCHING OR DRILLING THROUGH MICROLAM BEAM SHALL BE PERMITTED.</li> <li>5. PLYWOOD.</li> </ul>	SITE WORK NOTES:	<u>v</u>	
H.V.A.C G.C SHALL FILE SEPARATELY FOR ALL PERMITS AND INSPECTIONS         1. THE HVAC SYSTEM FOR THE ENTIRE HOUSE CONSTRUCTION IS TO BE COORDINATED AND REVIEWED WITH	<ol> <li>ALL MEMBERS GREATER THAN THREE (3) COMPONENT WIDTHS; IE: (4) 2"X12", ETC., SHALL BE ASSEMBLED WITH 1/2" DIAMETER CARRIAGE BOLTS STAGGERED AT 16" O.C.</li> <li>TREATED LUMBER SHALL CONFORM WITH THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR</li> </ol>	A. PLYWOOD FOR SUBFLOOR (FLOOR SHEATHING) OVER SAWN LUMBER SHALL BE MINIUM OF 3/4" CDX EXTERIOR, SPECIES GROUP 3, APA IDENTIFICATION INDEX 42/20 GLUED TO TOP OF JOIST, BEAM OR TRUSS AND SCREWED TO TOP FLANGE AT 12" O.C. AND GLUED WITH CONSTRUCTION ADHESIVE. INDEX STAMP			
THE OWNER AND THE ARCHITECT PRIOR TO CONSTRUCTION. ANY COST ASSOCIATED WITH ADDITIONAL SERVICE THAT IS REQUIRED SHOULD BE INCLUDED IN THE BASE BID. ALL UNITS TO BE SUBMITTED TO	10. TREATED LUMBER SHALL CONFORM WITH THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, DESIGN VALUES FOR WOOD CONSTRUCTION SUPPLEMENT AS PUBLISHED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION. LUMBER SHALL BE SOUTHERN YELLOW PINE NO. 2 OR BETTER AND SHALL BE CAPABLE OF DEVELOPING THE FOLLOWING MINIMUM ALLOWABLE WET SERVICE STRESSES (IN	SHALL BE VISIBLE ON ALL SHEETS. B. PLYWOOD USED FOR SLOPED ROOF SHEATHING SHALL BE MINIMUM OF 1/2" C-CX EXTERIOR APA	1. ALL FILL MATERIAL SHALL BE SOIL-ROCK MIXTURE WHICH IS FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES. IT SHALL CONTAIN NO ROCKS OR LUMPS OVER SIX INCHES IN GREATEST		
OWNER AND ARCHITECT FOR APPROVAL. 2. TEMPORARY HEAT: THE CONSTRUCTOR SHALL FURNISH TEMPORARY HEAT FOR THE DURATION OF THE	PSI): SIZE (NOM. IN) FB FT FV FC PERPENDICULAR FC	IDENTIFICATION INDEX 24/0. COVER WITH 30 LB.BUILDERS FELT IMMEDIATELY AFTER INSTALLATION. PLYWOOD USED FOR ROOF DECK SHEATHING SHALL BE 3/4" C-CX EXTERIOR APA IDENTIFICATION INDEX 24/0.COVER WITH 30LB.BUILDERS FELT IMMEDIATELY AFTER INSTALLATION.	DIMENSION, AND NOT MORE THAN 15% OF THE ROCKS OR LUMPS SHALL BE LARGER THAN 2.5 INCHES IN GREATEST DIMENSION. 2. GRANULAR CUSHION UNDER INTERIOR FLOOR SLABS SHALL BE CLEAN MINERAL AGGREGATE WITH PARTICLE		
PROJECT, WHENEVER REQUIRED. SUFFICIENT HEAT OF THE PROPER AND ADEQUATE TEMPERATURE SHALL BE FURNISHED AS NEEDED TO CARRY OUT THE WORK OF ALL TRADES UNDER THE CORRECT CONDITIONS, INCLUDING THE REQUIRED DRYNESS FOR INSTALLATION OF VARIOUS MATERIALS. TEMPORARY HEATING	2 X 4 1,275 825 196 378 1,320 1.6 X106 2 X 6 1,062 725 " " 1,280 " 2 X 8 1,050 650 " " 1,240 " 2 X 10 1,050 575 " " 1,200 "	C. PLYWOOD SHALL BE NAILED TO JOISTS WITH 8D COMMON NAILS AT 6" ON CENTER AT EXTERIOR EDGES AND 10" ON CENTER AT INTERMEDIATE SUPPORTS.	SIZE GRADING WITHIN THE FOLLOWING LIMITS: PASSING THE ONE INCH MESH: 100% PASSING THE NUMBER 4 SIEVE: NOT MORE THAN 5%	러	
UNITS SHALL BE ELECTRICAL AND SUCH AS ARE APPROVED BY THE AMERICAN INSURANCE ASSOCIATION AND LOCAL AUTHORITIES. A SUFFICIENT NUMBER OF UNITS SHALL BE PROVIDED TO AFFORD EVEN	2 X 12 975 550 " " 1,160 " 17. CEDAR LUMBER SHALL CONFORM WITH THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR	<ul><li>D. USE PLYCLIPS OR OTHER EDGE SUPPORTS FOR ALL PLYWOOD SHEATHING.</li><li>E. PLACE FACE GRAIN IN DIRECTION OF SPAN (TRANSVERSE TO JOISTS SPAN)</li></ul>	PASSING THE NUMBER 200 SIEVE: NOT MORE THAN 1% 3. IMPORTED CUSHION LESS MATERIAL USED FOR TRENCH AND STRUCTURAL BACKFILL SHALL BE FREE FROM ORGANIC SUBSTANCE AND OTHER DELETERIOUS MATTER, SHALL BE SUBJECT TO THE APPROVAL OF THE		
DISTRIBUTION TO HEAT THROUGHOUT THE BUILDING UNDER ALL CONDITIONS. 3. AC IS TO COMPLY WITH THE FOLLOWING CRITERIA: ALL ROOM TEMPERATURES ARE NOT TO EXCEED 72	WOOD CONSTRUCTION, DESIGN VALUES FOR WOOD CONSTRUCTION SUPPLEMENT AS PUBLISHED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION. LUMBER SHALL BE WESTERN CEDAR, GRADE D - SELECT OR CLEAR AND SHALL BE CAPABLE OF DEVELOPING THE FOLLOWING MINIMUM ALLOWABLE STRESSES (IN PSI):	<ul> <li>F. LEAVE 1/16" SPACE AT ALL PLYWOOD PANEL END JOINTS AND 1/8" SPACE AT ALL PANEL EDGE JOINTS.</li> <li>G. PLYWOOD USED FOR WALL SHEATHING SHALL BE MINIMUM OF 1/2" C-CX EXTERIOR APA.COVER WITH TYVEK HOUSE WRAP OR BUILDER'S PAPER IMMEDIATELY AFTER INSTALLATION.</li> </ul>	ENGINEER, AND SHALL BE IN PARTICLE SIZE GRADING WITHIN THE FOLLOWING LIMITS: PASSING THE NUMBER 4 SIZE CRADING WITHIN THE FOLLOWING LIMITS: PASSING THE NUMBER 200 SIEVE: 100% PASSING THE NUMBER 200 SIEVE: 3% MAXIMUM		
DEGREES IN COOLING SEASON, OR BE LESS THAN 65 DEGREES IN THE HEATING SEASON. 4. LOCATION OF THERMOSTATS TO BE REVIEWED WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION.	SIZE (NOM. IN) FB FT FV FC PERPENDICULAR FC 2 X 4 1,500 900 125 425 1,150 1.1 X106 2 X 6 1,300 780 " " 1,100 " 2 X 8 1 200 720 " " 1 050 "	HOUSE WRAP OR BUILDER'S PAPER IMMEDIATELY AFTER INSTALLATION.	4. CAREFULLY PLACE THE SPECIFIED CUSHION IN AREAS TO RECEIVE CORNER SLABS ON GRADE, UNIFORMLY ATTAINING THE THICKNESS INDICATED ON THE DRAWINGS AND PROVIDING ALL REQUIRED TRANSITION PLANES		
5. DUCTING AND GRILLES, PER "H" DRAWINGS.	2 X 8 1,200 720 " " 1,050 " 2 X 10 1,100 660 " " 1,000 " 2 X 12 1,000 600 " " 1,000 "	STRUCTURAL GENERAL NOTES	<ol> <li>MINIMAL VEGETATION IS TO BE DISTURBED DURING EXCAVATION AND CONSTRUCTION. REMOVE EXISTING VEGETATION IF DEEMED REQUIRED, ONLY WITH PERMISSION OF OWNER. GENERAL CONTRACTOR TO</li> </ol>		
<ol> <li>REVIEW SIZE, LAYOUT, LOCATION AND TYPE OF HVAC GRILLES WITH THE OWNER AND ARCHITECT IN THE FIELD PRIOR TO CONSTRUCTION.</li> </ol>		1. BUILDING CODES:	COORDINATE BEFORE COMMENCEMENT OF WORK. 6. CONSTRUCTION LIMIT: 5' - 0" OUTSIDE OF NEW BUILDING CONSTRUCTION.	EVIS	
<ol> <li>BALANCE THE SYSTEM: THE ENTIRE AC SYSTEM IS TO BE BALANCED ONCE THE CONSTRUCTION IS COMPLETED.</li> </ol>		THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED IN ACCORDANCE WITH THE RESIDENTIAL NEW YORK STATE BUILDING CODE, LATEST EDITION. ALL WORK SHALL BE PREFORMED IN ACCORDANCE WITH THIS CODE, AND LOCAL REQUIREMENTS OF THE VILLAGE OF ARDSLEY .	<ol> <li>FINISHED GRADE AT PERIMETER OF BUILDING SHALL BE 8" BELOW TOP OF FOUNDATION WALL.</li> <li>FINAL GRADING TO BE DETERMINED BY OWNER AND ARCHITECT AT A LATER TIME IN THE FIELD.</li> </ol>	₩ 150	
8. CONTRACTOR SHALL INSTALL BOILER PER "H" DRAWINGS.		2. DESIGN LOADS: A. ROOF:	<ol> <li>STOCKPILING OF TOPSOIL, CONSTRUCTION DEBRIS OR CONSTRUCTION MATERIAL, ETC. SHALL NOT BE PERMITTED WITHIN DRIP LINE OF ANY TREE DESIGNATED TO REMAIN. FURTHER INFORMATION AS TO STORAGE ON SITE TO BE REGULATED BY OWNER OR AGENCIES HAVING JURISDICTION.</li> </ol>		
9. CONTRACTOR SHALL PROVIDE 2 SPLIT A/C UNITS PER "H" DRAWINGS.		UPLIFT 14 PSF			
10. ALL HVAC SYSTEM TO BE CONTROLLED BY I-PHONE.		LIVE LOAD 30 PSF	<ol> <li>ALL TREES DESIGNATED TO REMAIN SHALL BE PRUNED TO ELIMINATE DEAD, DISEASED OR DAMAGED WOOD AS MAY BE REQUIRED. ALL PRUNING TO BE PERFORMED BY A RECOGNIZED PROFESSIONAL. IN THE EVENT A</li> </ol>	PROJECT NO. 9458 START DATE: 08.02.20	
		LIVE LOAD 30 PSF DEAD LOAD 10 PSF B. FLOORS:		START DATE: 08.02.20 DRAWN BY: FTA (R.M	
SMOKE AND C.O DETECTORS	STONE & TILE	DEAD LOAD     10     PSF       B.     FLOORS:       LIVE LOAD     40     PSF       DEAD LOAD     10     PSF	AS MAY BE REQUIRED. ALL PRUNING TO BE PERFORMED BY A RECOGNIZED PROFESSIONAL. IN THE EVENT A DESIRABLE TREE IS DAMAGED DURING CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENGAGE THE SERVICES OF A REPUTABLE TREE SURGEON IN ORDER TO REPAIR OR REPLACE THE DAMAGED TREE. 11. TREE PROTECTION TECHNIQUES TO REMAIN INTACT UNTIL FINAL GRADING PHASE OF SITE IMPROVEMENT OR UNTIL AUTHORIZATION IS GRANTED BY OWNER AND ARCHITECT.	START DATE: 08.02.20	
SMOKE AND C.O DETECTORS PER N.Y.S. CODE - SECTION R317:		DEAD LOAD 10 PSF B. FLOORS: LIVE LOAD 40 PSF	<ul> <li>AS MAY BE REQUIRED. ALL PRUNING TO BE PERFORMED BY A RECOGNIZED PROFESSIONAL. IN THE EVENT A DESIRABLE TREE IS DAMAGED DURING CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENGAGE THE SERVICES OF A REPUTABLE TREE SURGEON IN ORDER TO REPAIR OR REPLACE THE DAMAGED TREE.</li> <li>11. TREE PROTECTION TECHNIQUES TO REMAIN INTACT UNTIL FINAL GRADING PHASE OF SITE IMPROVEMENT OR UNTIL AUTHORIZATION IS GRANTED BY OWNER AND ARCHITECT.</li> <li>12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT TREES WITH PROTECTION TECHNIQUES ON A DAILY BASIS AND TO REPAIR ANY DAMAGE TO INSURE TREE'S SAFETY.</li> </ul>	START DATE: 08.02.20 DRAWN BY: FTA (R.M	
	STONE & TILE	DEAD LOAD     10     PSF       B.     FLOORS:     LIVE LOAD     40     PSF       DEAD LOAD     40     PSF       C.     SNOW DRIFT LOAD HAS BEEN CONSIDERED WHERE REQUIRED.       D.     HABITABLE ATTIC FOR STORAGE:       LIVE LOAD     30PSF       DEAD LOAD     10	<ul> <li>AS MAY BE REQUIRED. ALL PRUNING TO BE PERFORMED BY A RECOGNIZED PROFESSIONAL. IN THE EVENT A DESIRABLE TREE IS DAMAGED DURING CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENGAGE THE SERVICES OF A REPUTABLE TREE SURGEON IN ORDER TO REPAIR OR REPLACE THE DAMAGED TREE.</li> <li>11. TREE PROTECTION TECHNIQUES TO REMAIN INTACT UNTIL FINAL GRADING PHASE OF SITE IMPROVEMENT OR UNTIL AUTHORIZATION IS GRANTED BY OWNER AND ARCHITECT.</li> <li>12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT TREES WITH PROTECTION TECHNIQUES ON A DAILY BASIS AND TO REPAIR ANY DAMAGE TO INSURE TREE'S SAFETY.</li> <li>13. ANY TREE DESIGNATED TO REMAIN WHICH IS SEVERELY DAMAGED MUST BE REMOVED AND REPLACED WITH A TREE SELECTED BY A LANDSCAPE ARCHITECT. REPLACEMENT IS SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.</li> </ul>	START DATE: 08.02.20 DRAWN BY: FTA (R.M SCALE: AS NOTED	
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ATTIC WIL OAD       60       PSF         SHALL BE VERIFIED BY A SOLS ENGINEER. SHOULD CONDITIONS VARY FROM THOSE ASSUMED THE ARCHITECT SHALL BE NOTIFICE BEFORE CONTICULATION OF WORK CONTRATOR TO BE RESPONSIBLE FOR CONTACTING AND THE COORDINATION OF SOLS ENGINEER. IN THE CASE OF A NEW SECOND STORY A DDITION THE CONTRACTOR AND LEPORE CONTICUL ON OF WORK CONTRATOR TO BE RESPONSIBLE FOR CONTACTING AND VERIFY THE SUE ADAID THE COLORDINATION OF SOLS ENGINEER. IN THE CASE OF A NEW SECOND STORY A DDITION THE CONTRACTOR THE ACHITECT/ENGINEER.         2. ALL FOOTINGS SHALL BE EVACHTECT VARIES FROM DRAWINGS NOLE BUILDER TO EXCAVATE TO VIRGIN SOLL FOR FOOTING SAND THE XCAVATH TO VARIES FROM DRAWINGS, NOTIFY ARCHITECT.         3. CONCRETE FOR FOUNDATIONS:	<ul> <li>AS MAY BE REQUIRED. ALL PRUNING TO BE PERFORMED BY A RECOGNIZED PROFESSIONAL. 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DECKS:       LIVE LOAD       80         LIVE LOAD       80       PSF         OCONTACTIONS HAVE BEEN DO ESIGNEED TO AN ALLOWABLE SOLIS BEARING PRESSURE OF 3.000 PSF, WHICH         SHALL BE VERHIED BY A SOLIS ENGINEERS. SHOULD CONDITIONS VARY FROM THOSE ASSUMED THE         ACLICTING AND THEE DECOREIONNEERS. HOUND CONDITIONS VARY FROM THOSE ASSUMED THE         ACLICTING AND THEE DECOREIONNEERS. HOUND CONDITIONS VARY FROM THOSE ASSUMED THE         ACLICTING AND THEE DECOREINANTER APORTION OF WORK CONTRATOR TO BE RESPONSIBLE FOR         CONTRACTING AND THE	<ul> <li>AS MAY BE REQUIRED. ALL PRUNING TO BE PERFORMED BY A RECOGNIZED PROFESSIONAL. IN THE EVENT A DESIRABLE TREE IS DAMAGED DURING CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENGAGE THE SERVICES OF A REPUTABLE TREE SURGEON IN ORDER TO REPAIR OR REPLACE THE DAMAGED TREE.</li> <li>11. 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SNOW DRIFT LOAD HAS BEEN CONSIDERED WHERE REQUIRED.         D. HABITABLE ATTIC FOR STORAGE:         LIVE LOAD       30PSF         DEAD LOAD       10       PSF         DEAD LOAD       10       PSF         DEAD LOAD       10       PSF         DEAD LOAD       10       PSF         C. ATTIC WITH STORAGE       20       PSF         F. ATTIC WITH STORAGE       10       PSF         DEAD LOAD       10PSF       E         C. DECKS:       LIVE LOAD       60         DEAD LOAD       10PSF       E         STOUNDATIONS HAVE BEEN DESIGNED TO AN ALLOWABLE SOL BEARING PRESSURE OF 3.000 PSF. WHICH STALL SCAVER A PORTION OF WORK CONTRACTOR TO BALLE FOR CONTINUE CONTRACTOR SHALL BE VERIFIED BY A SOLS ENGINEER. 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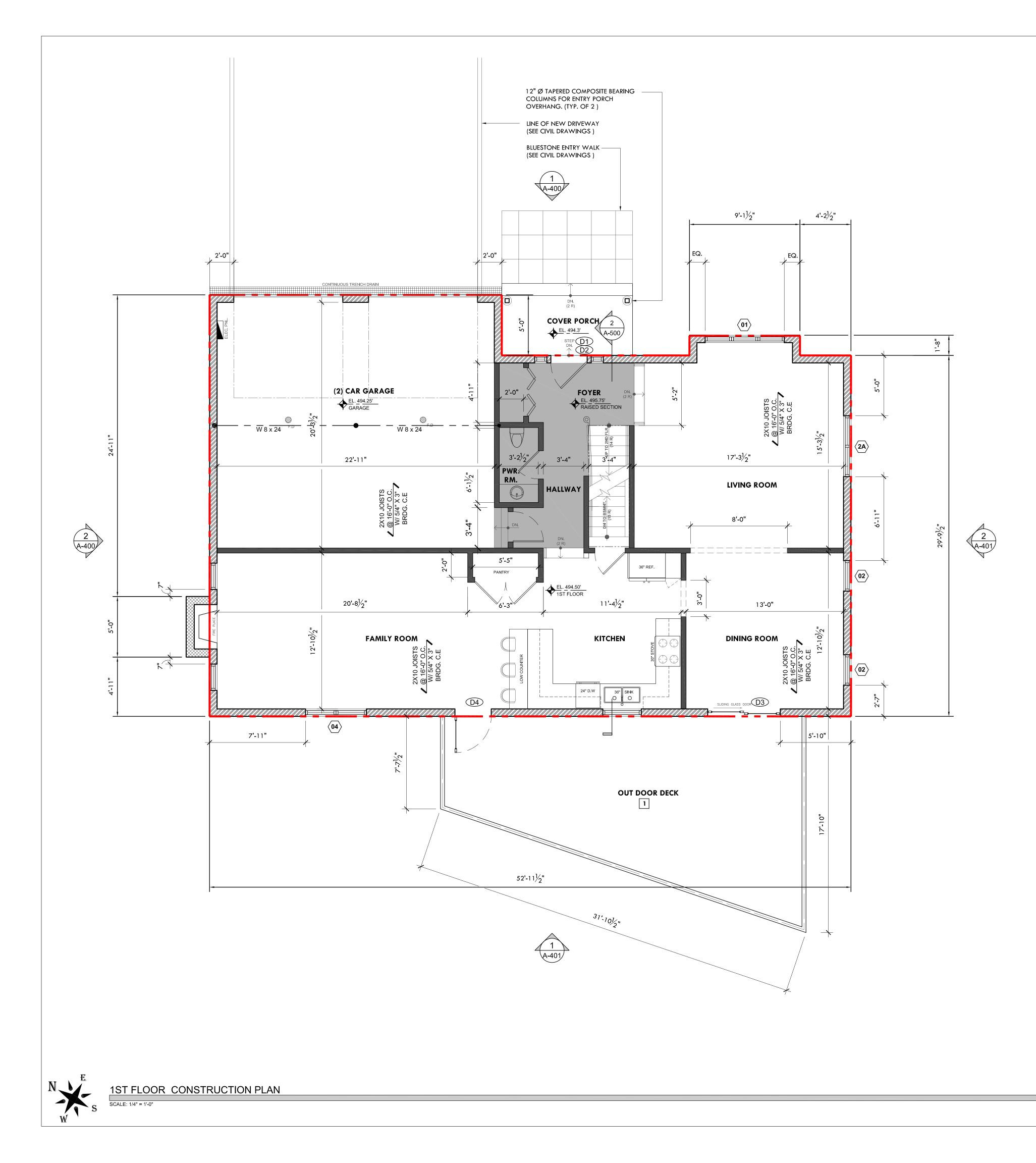
BASEMENT LEVEL CONSTRUCTION PLAN

SCALE: 1/4" = 1'-0"





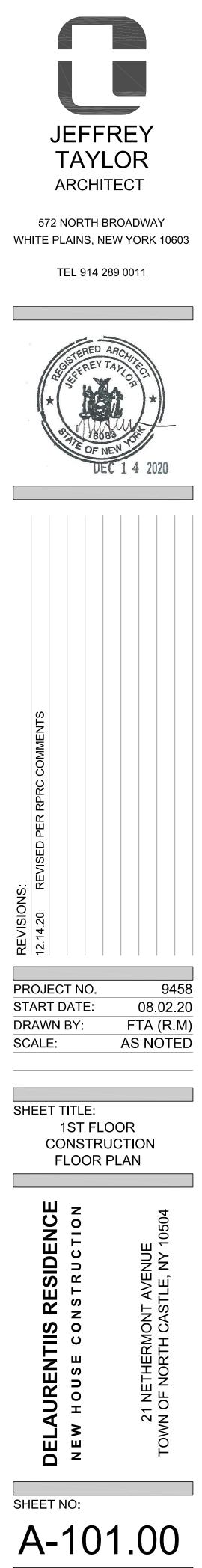
<b>STIMBUL</b>	LEGEND		
SYMBOL	DESCRIPTION DENOTES DRAWING NOTE ( SEE THIS DRAWING )		
	DENOTES WINDOW SIZE		
 	(SEE WINDOW SCHEDULE THIS DRAWING) DENOTES DOOR SIZE		
	(SEE WINDOW SCHEDULE THIS DRAWING) QUAD OUTLET	JEFF	REV
	(CONFIRM HEIGHTS OF ALL OUTLETS WITH OWNER) DUPLEX OUTLET	TAY	
φ	(CONFIRM HEIGHTS OF ALL OUTLETS WITH OWNER)	ARCHI	
G.F.I	PROVIDE GROUND FAULT CIRCUIT INTERRUPTER OUTLET	572 NORTH	
$\triangleright$	DATA_OUTLET (CONFIRM HEIGHT WITH OWNER)	WHITE PLAINS, N TEL 914	
WALL LE	GEND		
SYMBOL	DESCRIPTION NEW EXTERIOR WALL:	TERED	ARCL
	<ul> <li>- 2 x 6 WOOD STUDS @ 16" O.C (TO ALIGN WITH EXISTING).</li> <li>BATT INSULATION (R-21) BETWEEN STUDS, FULL HEIGHT.</li> <li>FINISH EXTERIOR SIDE OF WALL WITH 3/4" EXTERIOR GRADE PLY. WOOD (ALL JOINTS TO BE STAGGER).</li> <li>PROVIDE "TYVEK" VAPOR BARRIER THRU OUT EXTERIOR WALL.</li> <li>FINISH INTERIOR SIDE OF WALL WITH 1/2" GYP. BD.</li> </ul>	* HE V	TALION CON MEN YOR
	NOTE: WHERE WALL TILE IS BEEN INSTALLED G.C TO PROVIDE 5/8" CEMENT BOARD.		EC 1 4 2020
	NEW INTERIOR WALL: 2 × 4 WOOD STUDS @ 16" O.C FINISH WITH 1/2" GYP. BD. PROVIDE WATER RESISTANT (PURPLE BOARD) GYP. BD. AT ALL WET AREAS NOTES:		
	WHERE WALL TILE IS BEEN INSTALLED G.C TO PROVIDE 1/2" CEMENT BOARD.		
	PROVIDE SOUND INSUL. IN ALL INTERIOR PARTITIONS.		
	Y NOTES R (DOOR TO BE GASKETED) E 4" RAISED CURB @ DOOR WAY	R RPRC COMMENTS	
1 2'-8" x 7'-0" DOO NOTE: PROVIDE	R (DOOR TO BE GASKETED)	S S	94 08.02. FTA (R. AS NOTE
1 2'-8" x 7'-0" DOO NOTE: PROVIDE	R (DOOR TO BE GASKETED)	REVISIONS: PROJECT NO. START DATE: DRAWN BY:	08.02. FTA (R. AS NOTE
1 2'-8" x 7'-0" DOO NOTE: PROVIDE	R (DOOR TO BE GASKETED)	PROJECT NO. START DATE: DRAWN BY: SCALE: SHEET TITLE: BASEMEN CONSTR	08.02. FTA (R. AS NOTE



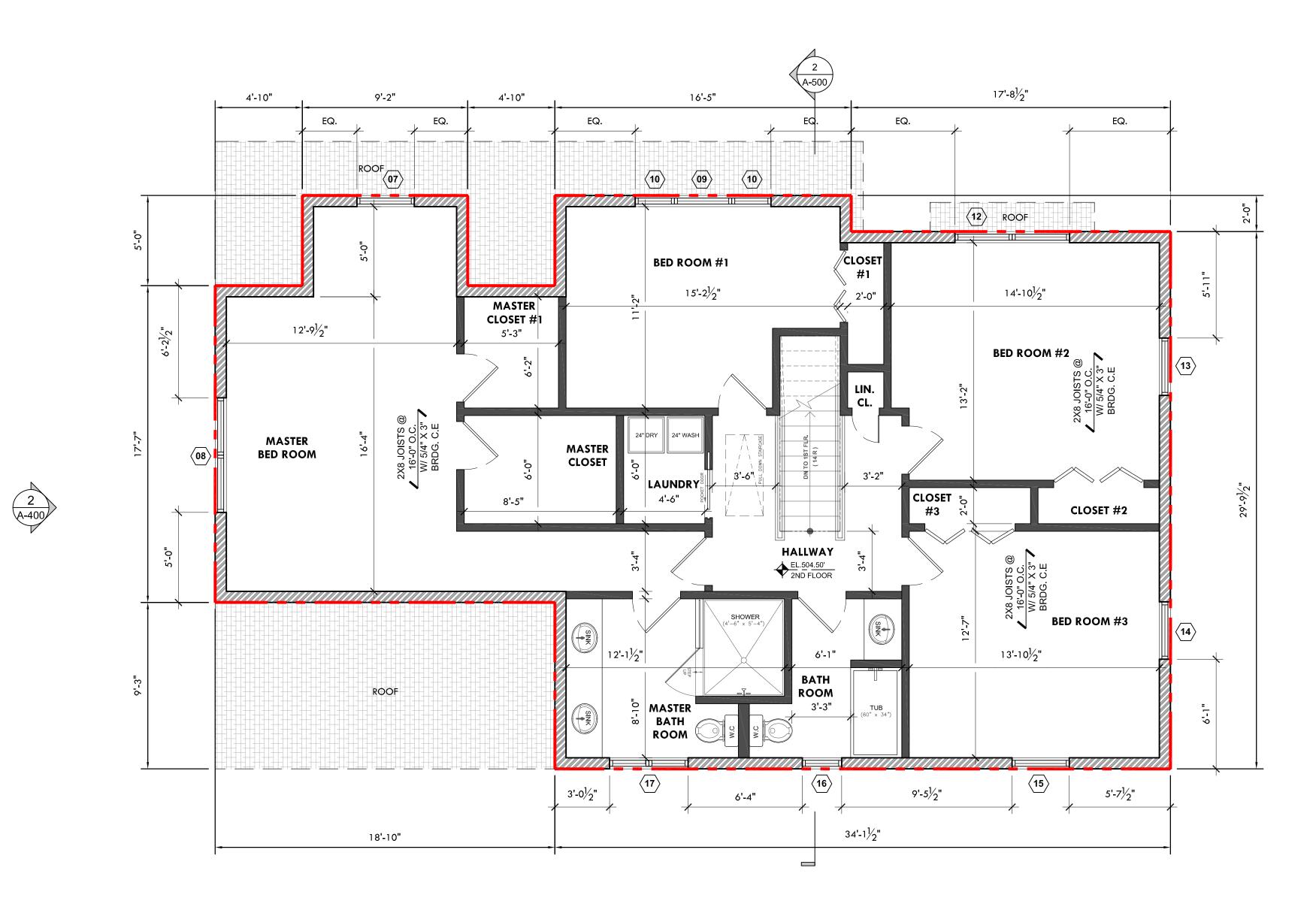
(SEE DRAWING A-001)

1ST FLOOR SQ. FT. = ( \_\_\_\_\_ )

SYMBOL	
	DENOTES DRAWING NOTE ( SEE THIS DRAWING )
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XX	DENOTES DOOR SIZE ( SEE WINDOW SCHEDULE THIS DRAWING )
<b>+</b>	QUAD OUTLET
۲۲ س	(CONFIRM HEIGHTS OF ALL OUTLETS WITH OWNER) DUPLEX OUTLET
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G.F.I	PROVIDE GROUND FAULT CIRCUIT INTERRUPTER OUTLET
$\triangleright$	DATA OUTLET (CONFIRM HEIGHT WITH OWNER)
WALL LE	
SYMBOL	DESCRIPTION NEW EXTERIOR WALL: (SEE WALL SECTION ON A-500 )
	<ul> <li>- 2 x 6 WOOD STUDS @ 16" O.C (TO ALIGN WITH EXISTING).</li> <li>- BATT INSULATION (R-20) BETWEEN STUDS, FULL HEIGHT.</li> <li>- FINISH EXTERIOR SIDE OF WALL WITH 3/4" EXTERIOR GRADE PLY. WOOD (ALL JOINTS TO BE STAGGER).</li> <li>- PROVIDE "TYVEK" VAPOR BARRIER THRU OUT EXTERIOR WALL.</li> <li>- FINISH INTERIOR SIDE OF WALL WITH 1/2" GYP. BD.</li> </ul>
	NOTE: WHERE WALL TILE IS BEEN INSTALLED G.C TO PROVIDE 5/8" CEMENT BOARD.
	NEW INTERIOR WALL: 2 x 4 WOOD STUDS @ 16" O.C FINISH WITH 1/2" GYP. BD. PROVIDE WATER RESISTANT (PURPLE BOARD) GYP. BD. AT ALL WET AREAS
	NOTES: WHERE WALL TILE IS BEEN INSTALLED G.C TO PROVIDE
	1/2" CEMENT BOARD. PROVIDE SOUND INSUL. IN ALL INTERIOR PARTITIONS.
PLAN KE 1 6" TREX. OR EQ RECOMMENDAT 2	UAL DECK BOARDS INSTALL AS PER MANUF.
1 6" TREX. OR EQ RECOMMENDAT	UAL DECK BOARDS INSTALL AS PER MANUF.
1 6" TREX. OR EQ RECOMMENDAT	UAL DECK BOARDS INSTALL AS PER MANUF.
1 6" TREX. OR EQ RECOMMENDAT	UAL DECK BOARDS INSTALL AS PER MANUF.
1 6" TREX. OR EQ RECOMMENDAT	UAL DECK BOARDS INSTALL AS PER MANUF.
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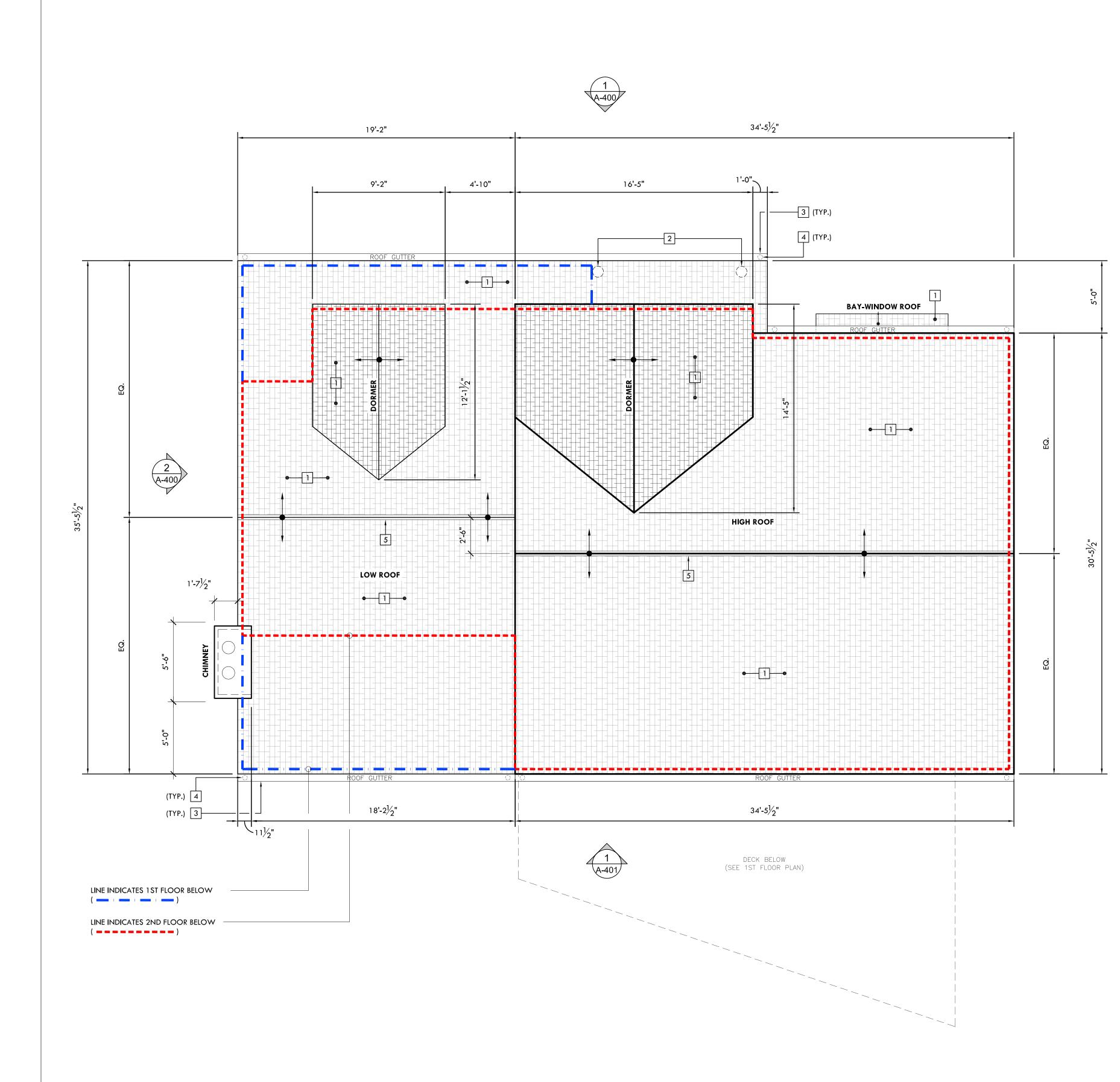
2ND FLOOR CONSTRUCTION PLAN SCALE: 1/4" = 1'-0"

1 A-401

2ND FLOOR SQ. FT. = (\_\_\_\_\_) ( SEE DRAWING A-001)

2 A-401

SYMROI	LEGEND		
SYMBOL	DESCRIPTION		
	DENOTES DRAWING NOTE ( SEE THIS DRAWING )		
< XX>	DENOTES WINDOW SIZE ( SEE WINDOW SCHEDULE THIS DRAWING )		
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( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	DUPLEX_OUTLET (CONFIRM HEIGHTS OF ALL OUTLETS WITH OWNER)	IAY ARCH	
G.F.I	PROVIDE GROUND FAULT CIRCUIT INTERRUPTER OUTLET	ARCH	IIECI
$\triangleright$	DATA OUTLET	572 NORTH WHITE PLAINS, N	BROADWAY NEW YORK 106
		TEL 914	289 0011
WALL LE	DESCRIPTION		
	NEW EXTERIOR WALL: (SEE WALL SECTION ON A-500 )	GISTERED	ARCHITE
	- 2 x 6 WOOD STUDS @ 16" O.C (TO ALIGN WITH EXISTING). - BATT INSULATION (R-20) BETWEEN STUDS, FULL HEIGHT.	A A A	CP CT
	- FINISH EXTERIOR SIDE OF WALL WITH 3/4" EXTERIOR GRADE PLY. WOOD (ALL JOINTS TO BE STAGGER).	<b>  </b> *( <b>#</b>	
	- PROVIDE "TYVEK" VAPOR BARRIER THRU OUT EXTERIOR WALL.	STATE OF	083 OR
	- FINISH INTERIOR SIDE OF WALL WITH 1/2" GYP. BD.		EC 1 4 2020
	NOTE: WHERE WALL TILE IS BEEN INSTALLED G.C TO PROVIDE 5/8" CEMENT BOARD.		
	NEW INTERIOR WALL:		
	2 x 4 WOOD STUDS @ 16" O.C FINISH WITH 1/2" GYP. BD. PROVIDE WATER RESISTANT (PURPLE BOARD) GYP. BD. AT ALL WET AREAS		
	NOTES: WHERE WALL TILE IS BEEN INSTALLED G.C TO PROVIDE		
	1/2" CEMENT BOARD.		
	PROVIDE SOUND INSUL. IN ALL INTERIOR PARTITIONS.		
PLAN KE 1 - 2	YNOTES	ER RPRC COMMENTS	
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1 -	YNOTES	REVISIONS: PROJECT NO. START DATE: DRAWN BY: SCALE: SHEET TITLE: SHEET TITLE: SHEET TITLE: SHEET CONSTR FLOOR NON STRUCTION	21 NETHERMONT AVENUE 21 NETHERMONT AVENUE 21 NOTH CASTLE, NY 10504



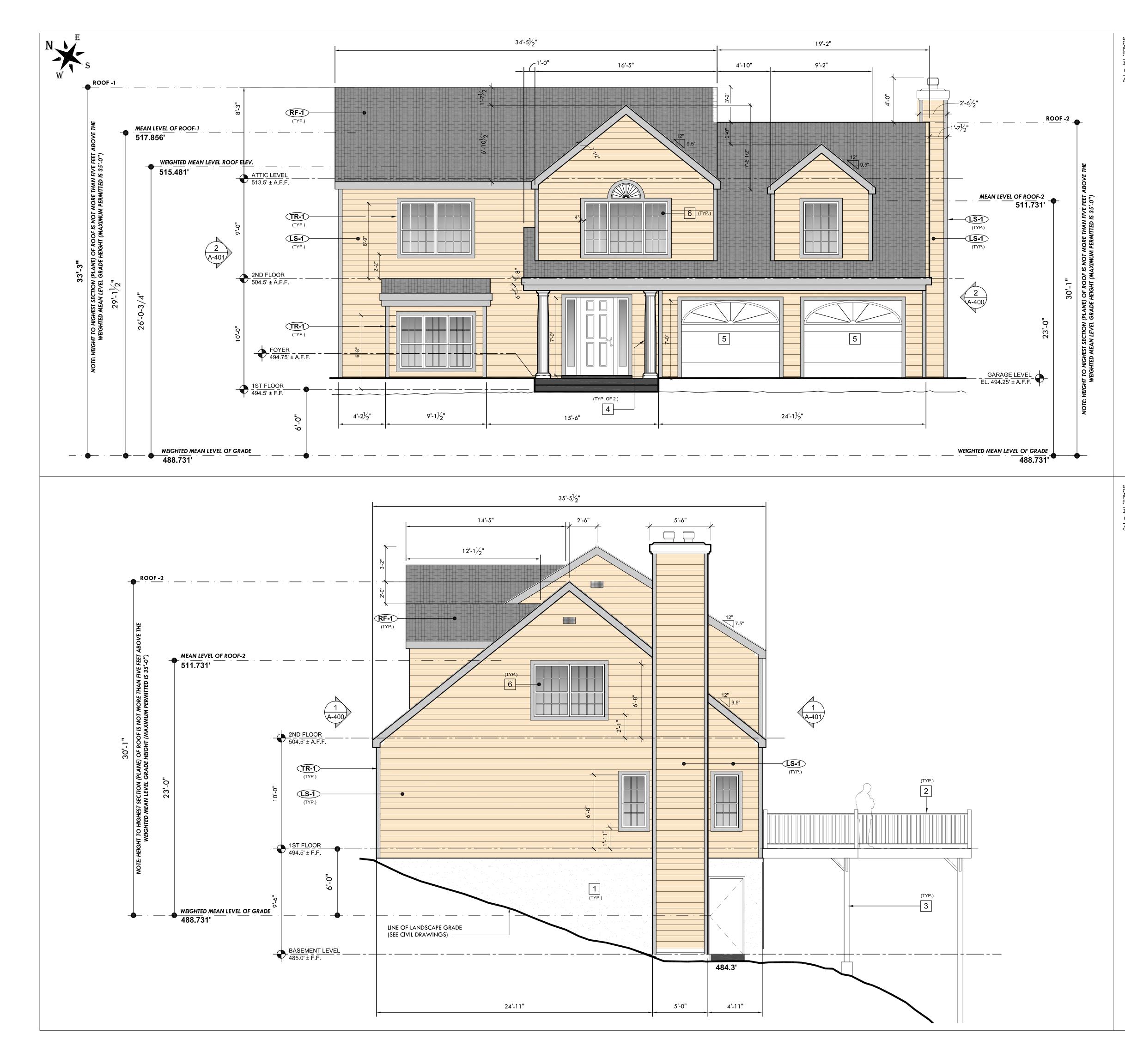


ROOF CONSTRUCTION PLAN

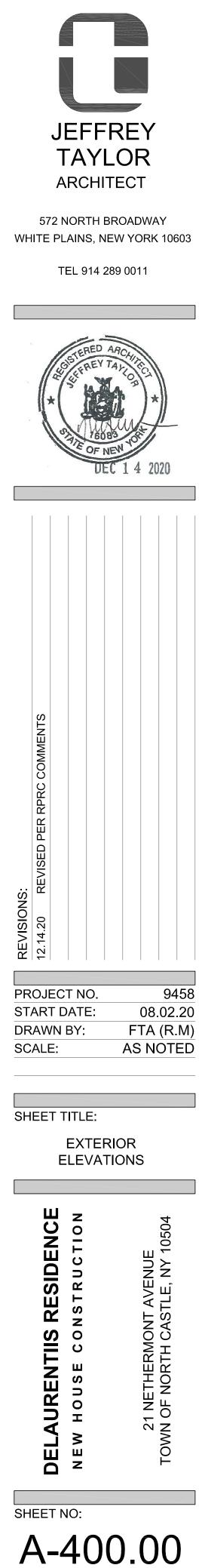
SCALE: 1/4" = 1'-0"

2 A-401

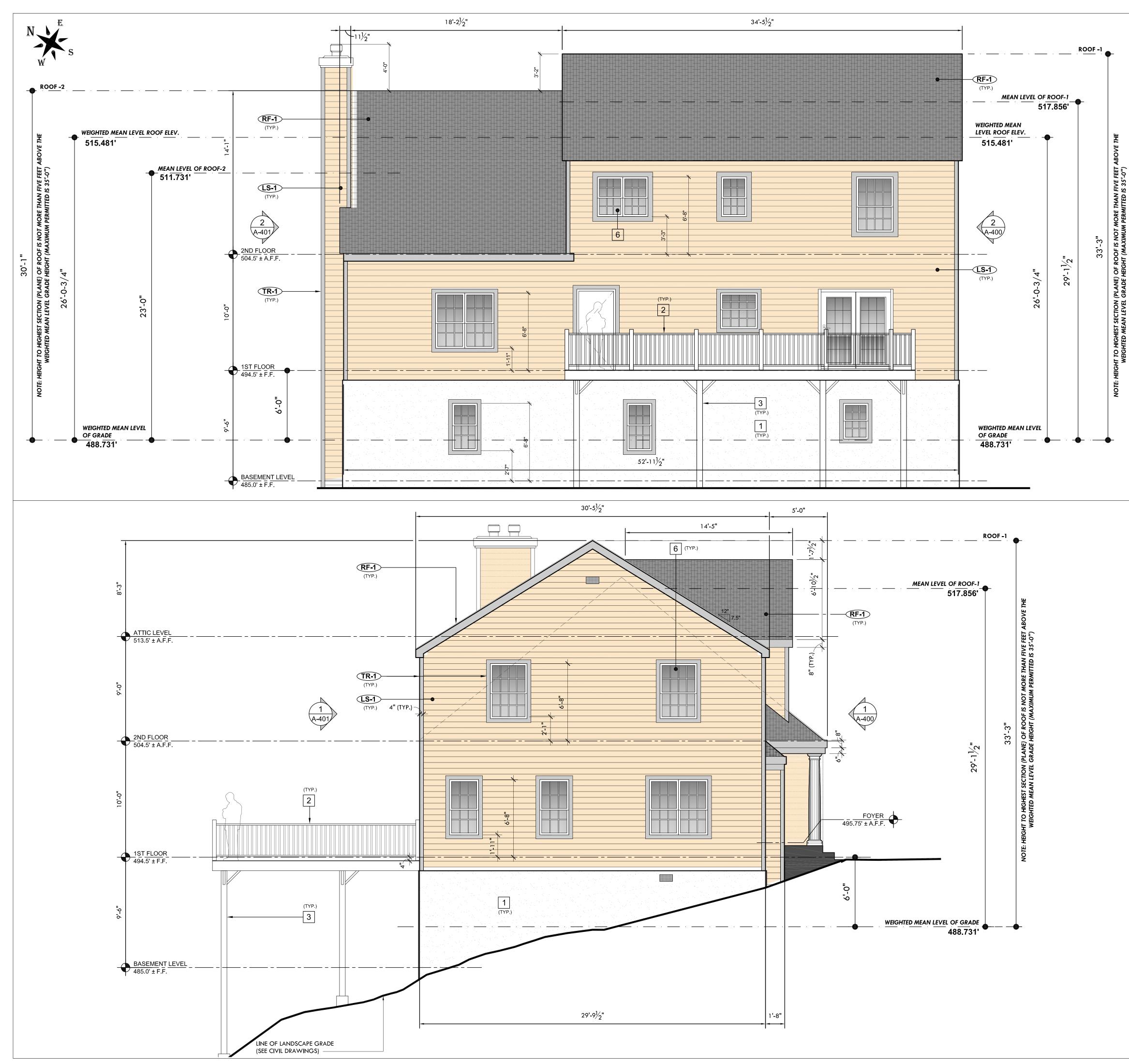
LEC	GEND	7	
SYMBOI	DESCRIPTION		
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	DENOTES ROOF SLOPE	-	
			EFFREY
PLA	AN KEY NOTES		TAYLOR
	SPHALT ROOF SHINGLES ( SEE DRAWING A-200's FOR SPEC. ). ISTALL PER MANUFACTURER PUBLISH INSTRUCTIONS		RCHITECT
2 C	OLUMNS BELOW (1ST FLOOR PLAN)		NORTH BROADWAY AINS, NEW YORK 1060.
	ONTINUOUS ALUMINUM ROOF GUTTER WITH LEAF GUARD. COLOR PER OWNERS DIRECTION - G.C TO COORDINATE )		EL 914 289 0011
	ONTINUOUS VERTICAL ALUMINUM ROOF LEADER. COLOR PER OWNERS DIRECTION - G.C TO COORDINATE )		
N	OTE: ROOF LEADERS TIE INTO TO "CULTEC" CHAMBERS- SEE CIVIL DRAWINGS )		
5 C	ONTINUOUS RIDGE VENT		STERED ARCHUR
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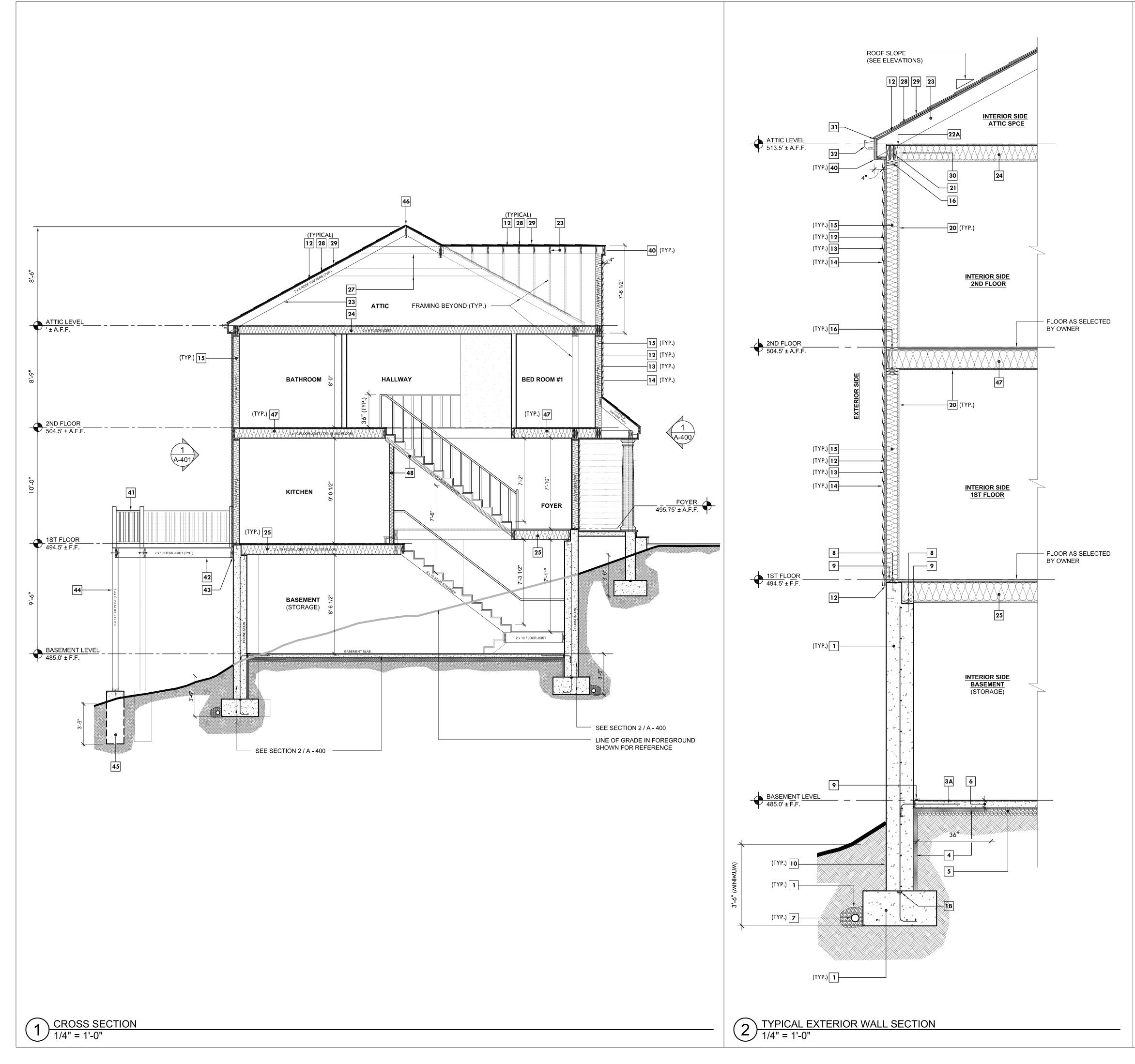
LAP SIDING       FINISH:       SMOOTH         LAP SIDING       COLOR:       DESIGNER CREAM         SIZE:       6-14" WITH S' EXPOSURE         TRIM BOARD       COLOR:       WHTE         SIZE:       GAF TIMBERLINE HDZ         FINISH:       SMOOTH         SIZE:       GAF TIMBERLINE HDZ         ROOFING       MANUFACTURER:       GAF TIMBERLINE HDZ         ROOFING       COLOR:       CHARCOAL         SIZE:       MANUFACTURER:       GAF TIMBERLINE HDZ         ROOFING       COLOR:       CHARCOAL         SIZE:       COLOR:       CHARCOAL         SIZE:       MANUFACTURER:       GAF TIMBERLINE HDZ         ROOFING       DESCRPTION       CHARCOAL         SMOOTH FINISHED PARGED REINFORCED EXPOSE       CONCRETE:         CONCRETE:       SMOOTH FINISHED PARGED REINFORCED EXPOSE         CONCRETE:       GAF 2' HIGH P.T RAILING WITH 2x2 P.T BALUSTERS @ 4" 0.C         SEG P.T COLUMNS OVER 18" DIA. "SONETUBE" FOOTING 42"         MIN. BELOW GRADE       MIN BELOW GRADE         INBUL ELOW GRADE       SONET HE BARING COLUMNS FOR ENTRY         PORCH OVERHANG. (BEARING)       INSULATED GARGE DOORS         DOUBLE GLAZED VINYL CLAD , DOUBLE HUNG OPERABLE         WINDOWS (TYPICAL)	LAP SIDING       FINSH:       SMOOTH         LAP SIDING       COCRE:       BESINER CREAM         TRIM BOARD       SZE:       SMOOTH         TRIM BOARD       COLOR:       SMOOTH         TRIM BOARD       SZE:       WHITE         TRIM BOARD       MANUFACTURER:       GAF TIMBERLINE HDZ         ROOFING       MANUFACTURER:       GAF TIMBERLINE HDZ         ROOFING       MANUFACTURER:       GAF TIMBERLINE HDZ         NO       DESCRIPTION       CHARCOAL         I       SMOOTH FINISHED PARGED REINFORCED EXPOSE       CONCRETE.         I       SMOOTH FINISHED PARGED REINFORCED EXPOSE       GORCORETE.         I       SMOOTH FINISHER PARGED COLUMNS FOR ENTRY       GORCORETE.         I       12' 0' TAPERED COMPOSE ELEVATION CALLULATIONS (BEARING)       GORCORETARG. (BEARING)         I       ISINGLARGE DOWNY CLAD, DOUBLE HUNG OPERABLE       GORCORES         I       DOUBLE GLAZED VINYL CLAD, DOUBLE HUNG OPERABLE       GORCORES         I       DOUBLE GLAZED VINYL CLAD, DOUBLE HUNG OPERABLE	LAP SIDING       COCRE.       DESIGNER CREAM         URD       COCRE.       CESIGNER CREAM         SZE.       6-14" WITH 5" EXPOSURE         TRIM BOARD       COCRE.       VANUFACTURER.         INSH.       SAMOTH         COLOR.       CAP TIMBERLINE HD2         ROOFING       MANUFACTURER.       GAF TIMBERLINE HD2         ROOFING       MANUFACTURER.       GAF TIMBERLINE HD2         ROOFING       COLOR.       CHARCOAL         SMOOTH FINSHED PARGED REINFORCED EXPOSE       COLORETE.         I       SMOOTH FINSHED PARGED REINFORCED EXPOSE         CONCRETE.       Image: SMOTH FINSHED PARGED REINFORCED EXPOSE         I       SMOOTH FINSHED PARGED REINFORCED EXPOSE         I       SMOOTH FINSHED PARGED REINFORCED EXPOSE         I       SMOOTH FINSHENED PARGED REINFORCED EXPOSE         I       SMOOTH FINSHENCH PARGED REINFORCED EXPOSE         I       SMOOTH FINSHER COMPOSE ELEXATION COLLIANS FOR ENTRY         I       SMOOTH FINDER COMPOSE         I	FINISH	DESCRIPTION MANUFACTURER:JAMESHARDIE
TRIM BOARD       FINSH	TRIM BOARD       FINSH	TRIM BOARD       FINSH	LS-1 LAP SIDING	FINISH: SMOOTH COLOR: DESIGNER CREAM
ROOFING       FINSH	ROOFING       FINSH	ROOFING       FINSH		FINISH: SMOOTH COLOR: WHITE
NO.       DESCRIPTION         1       SMOOTH FINISHED PARGED REINFORCED EXPOSE CONCRTE.         2       +42" HIGH P.T RAILING WITH 2x2 P.T BALUSTERS @ 4" O.C         3       6x6 P.T COLUMNS OVER 18" DIA. "SONETUBE" FOOTING 42" MIN. BELOW GRADE         4       12" Ø TAPERED COMPOSITE BEARING COLUMNS FOR ENTRY PORCH OVERHANG. (BEARING)         5       INSULATED GARAGE DOORS         6       DOUBLE GLAZED VINYL CLAD , DOUBLE HUNG OPERABLE WINDOWS (TYPICAL)         VEIGHTED MEAN ROOF ELEVATION CALCULATIONS (WEIGHTED MEAN LEVEL OF GRADE = 488.731 )         EAST ELEVATION A. SOUTH SIDE ROOF MEAN ELEVATION =	NO.       DESCRIPTION         1       SMOOTH FINISHED PARGED REINFORCED EXPOSE CONCRTE.         2       +42" HIGH P.T RAILING WITH 2x2 P.T BALUSTERS @ 4" O.C         3       6x6 P.T COLUMNS OVER 18" DIA. "SONETUBE" FOOTING 42" MIN. BELOW GRADE         4       12" Ø TAPERED COMPOSITE BEARING COLUMNS FOR ENTRY PORCH OVERHANG. (BEARING)         5       INSULATED GARAGE DOORS         6       DOUBLE GLAZED VINYL CLAD , DOUBLE HUNG OPERABLE WINDOWS (TYPICAL)         VEIGHTED MEAN ROOF ELEVATION CALCULATIONS (WEIGHTED MEAN LEVEL OF GRADE = 488.731 )         EAST ELEVATION A. SOUTH SIDE ROOF MEAN ELEVATION =	NO.       DESCRIPTION         1       SMOOTH FINISHED PARGED REINFORCED EXPOSE CONCRTE.         2       +42" HIGH P.T RAILING WITH 2x2 P.T BALUSTERS @ 4" O.C         3       6x6 P.T COLUMNS OVER 18" DIA. "SONETUBE" FOOTING 42" MIN. BELOW GRADE         4       12" Ø TAPERED COMPOSITE BEARING COLUMNS FOR ENTRY PORCH OVERHANG. (BEARING)         5       INSULATED GARAGE DOORS         6       DOUBLE GLAZED VINYL CLAD , DOUBLE HUNG OPERABLE WINDOWS (TYPICAL)         VEIGHTED MEAN ROOF ELEVATION CALCULATIONS (WEIGHTED MEAN LEVEL OF GRADE = 488.731 )         EAST ELEVATION A. SOUTH SIDE ROOF MEAN ELEVATION =		FINISH: ASPHALT ROOF SHINGLES
WINDOWS (TYPICAL)         WEIGHTED MEAN ROOF ELEVATION CALCULATIONS         (WEIGHTED MEAN ROOF ELEVATION CALCULATIONS         (WEIGHTED MEAN LEVEL OF GRADE = 488.731 )         EAST ELEVATION         A. SOUTH SIDE ROOF MEAN ELEVATION =	WINDOWS (TYPICAL)         WEIGHTED MEAN ROOF ELEVATION CALCULATIONS         (WEIGHTED MEAN ROOF ELEVATION CALCULATIONS         (WEIGHTED MEAN LEVEL OF GRADE = 488.731 )         EAST ELEVATION         A. SOUTH SIDE ROOF MEAN ELEVATION =	WINDOWS (TYPICAL)         WEIGHTED MEAN ROOF ELEVATION CALCULATIONS         (WEIGHTED MEAN ROOF ELEVATION CALCULATIONS         (WEIGHTED MEAN LEVEL OF GRADE = 488.731 )         EAST ELEVATION         A. SOUTH SIDE ROOF MEAN ELEVATION =	NO.         1       SMOOTH FINICONCRETE.         2       +42" HIGH P.T         3       6x6 P.T COLU MIN. BELOW O         4       12" Ø TAPEREE PORCH OVERH	DESCRIPTION ISHED PARGED REINFORCED EXPOSE RAILING WITH 2x2 P.T BALUSTERS @ 4" O.C MNS OVER 18" DIA. "SONETUBE" FOOTING 42" GRADE D COMPOSITE BEARING COLUMNS FOR ENTRY IANG. (BEARING)
WEIGHTED MEAN ROOF ELEVATION CALCULATIONS( WEIGHTED MEAN LEVEL OF GRADE = 488.731 )EAST ELEVATIONA. SOUTH SIDE ROOF MEAN ELEVATION =	WEIGHTED MEAN ROOF ELEVATION CALCULATIONS( WEIGHTED MEAN LEVEL OF GRADE = 488.731 )EAST ELEVATIONA. SOUTH SIDE ROOF MEAN ELEVATION =	WEIGHTED MEAN ROOF ELEVATION CALCULATIONS( WEIGHTED MEAN LEVEL OF GRADE = 488.731 )EAST ELEVATIONA. SOUTH SIDE ROOF MEAN ELEVATION =		
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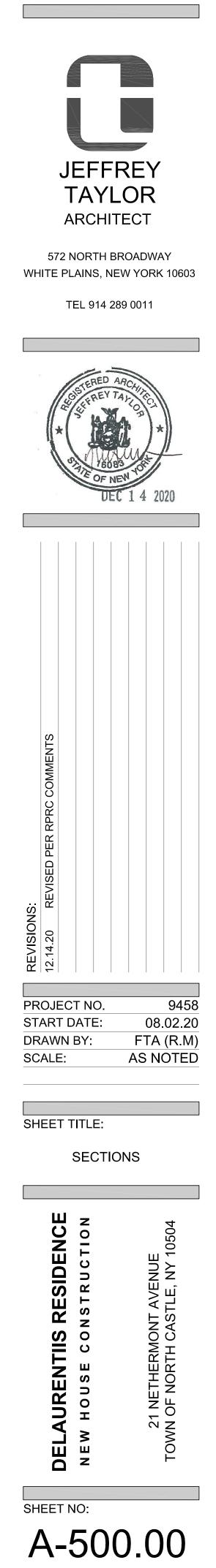
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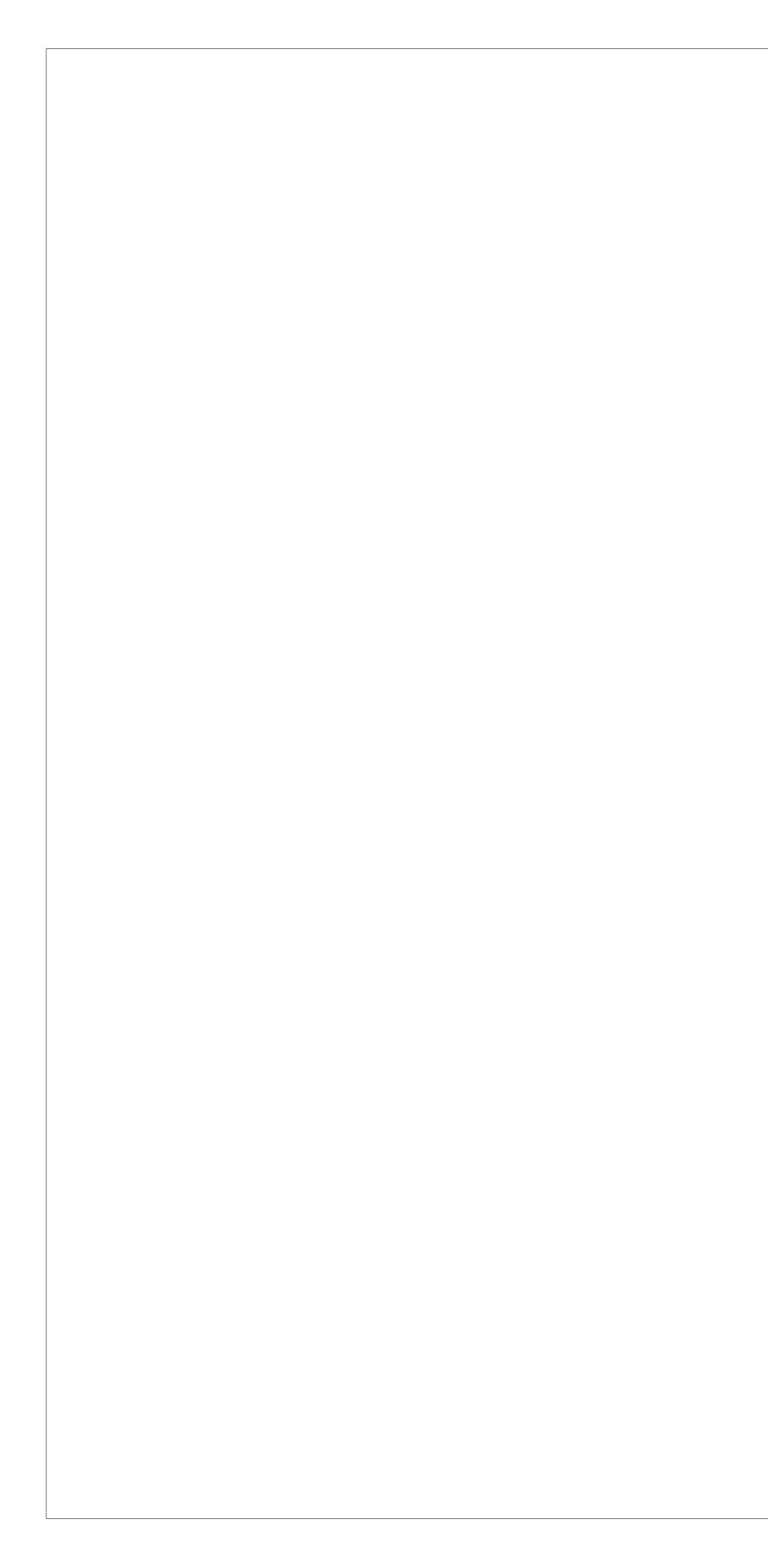


SCALE: 1/4" = 1'-0'	WES	FINISH LI	EGEND		
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	ATION ( RE	TR-1 TRIM BOARD	MANUFACTURER: AZEK FINISH:SMOOTH COLOR:WHITE SIZE: MANUFACTURER:GAF TIMBERLINE HDZ	JEFFF	
	EAR)	RF-1 ROOFING	FINISH: ASPHALT ROOF SHINGLES COLOR: CHARCOAL	TAYL ARCHIT 572 NORTH BF	ECT
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			IISHED PARGED REINFORCED EXPOSE TRAILING WITH 2x2 P.T BALUSTERS @ 4" O.C	UEC	1 4 2020
		MIN. BELOW       4       12"ØTAPERE       PORCH OVER	JMNS OVER 18" DIA. "SONETUBE" FOOTING 42" GRADE D COMPOSITE BEARING COLUMNS FOR ENTRY HANG. (BEARING)		
			ARAGE DOORS ZED VINYL CLAD , DOUBLE HUNG OPERABLE TYPICAL)		
SCALE: 1/4" = 1'-0"	SOUT			COMMENTS	
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				DELAURENTIIS NEW HOUSE CO	21 21 0 TOWN 0
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Pl	AN KEY NOTES
1	NEW REINFORCED POURED IN PLACE CONCRETE FOUNDATION WALL (SEE DRAWING S-1 FOR ADDITIONAL INFORMATION)
1A	NEW REINFORCED POURED IN PLACE CONCRETE FOOTING.
2	(SEE DRAWING S-1 FOR ADDITIONAL INFORMATION) #4 HORIZONTAL CONTINUOUS REBAR CROSSED TIED TO VERTICAL REBAR EVERY 24" .
3	#10 VERTICAL BENT REBAR INTO FOOTINGS @ 24" O.C.
3A	BENT REBAR INTO FLOOR SLAB @ 24" O.C.
3B	2 x 4 KEY
4	2" THICK CONTINUOUS RIGID INSULATION.
5	4" COMPACTED CRUSHED STONE
6	4" THICK CONCRETE SLAB ON GRADE WITH W.W.M 6x6 W10 x W10 ON CRUSH STONE. WELL TAMPED FILL WITH 6 MIL "VISQUEEN' VAPOR BARRIER
7	6" Ø CONTINUOUS PERIMETER PERFORATED FOOTING DRAIN SET IN GRAVEL. TIE INTO NEW STORM WATER CONTAINMENT CATCH BASIN (SEE DRAWING C-100)
8	1/2" BENT END GALVANIZED ANCHOR BLOT SET MIN. 16" INTO FOUNDATION - 6'-0" O.C (MAX)
9	(2) 2 x 6 CONTINUOUS P.T WOOD SILL PLATE OVER POLYSTYRENE SILL SEALER.
10	"ENKA" DRAINAGE MATT (OR APPROVED EQUAL) - WATERPROOFING @ FOUNDATION WALL. INSTALLED PER MANUFACTURE PUBLISHED INSTRUCTIONS.
11	CONTINUOUS TERMITE SHIELD OVER SEALANT.
12	3/4" CDX PLYWOOD. (NOTE: ALL JOINTS TO BE STAGGERED)
13	"TYVEK" VAPOR BARRIER (OR APPROVED EQUAL) ON SUBSTRATE - INSTALLED PER MANUFACTURE PUBLISHED INSTRUCTIONS. NOTE: TURN BARRIER INTO ALL WINDOW OPENINGS .
14	EXTERIOR SIDING ( SEE EXTERIOR ELEVATIONS )
15	2 x 6 WOOD STUDS 16" O.C WITH <b>R-21</b> BATT. INSULATION ( TYP. AT EXTERIOR WALLS)
16	2 x 6 CONTINUOUS P.T WOOD BLOCKING.
17	CONTINUOUS P.T WOOD BLOCKING ( AS REQUIRED )
18	FILL VOID WITH "TOUCH N SEAL" ALL SEASON POLYURETHANE FOAM SEALANT.
19	PROVIDE CONTINUOUS CAULKING WITH BACKER ROD.
20	1/2" GYP. BD. FINISH. TAPE / SPACKLE & SAND SMOOTH. PROVIDE CORNER BEADS.
21	(3) 2 x 8 HEADER WITH 3/4" CDX PLY. WD. SPACER, GLUE & SCREW (LAG SCREW) TOGETHER.
22 22A	(3) 2 x 8 HEADER - GLUE & NAIL TOGETHER. PROVIDE "BIRDS MOUTH" CUT AT HEADER.
23	2 x 8 ROOF RAFTERS @ 16" O.C . TYPICAL (G.C TO COORDINATE IN FIELD)
24 25	2 x 8 ATTIC FLOOR JOIST @ 16" O.C . WITH R-49 BATT. INSUL. (TYP.) 2 x 10 FLOOR JOIST @ 16" O.C . WITH R-49 BATT. INSUL. (TYP.)
26	FASCIA BOARD TO MATCH AND ALIGN WITH EXISTING.
27	2 x 8 COLLAR TIE @ EVERY OTHER ROOF RATERS
28	"TYVEK " PROTEC 200 ROOF UNDERLAYMENT (OR APPROVED EQUAL) ON SUBSTRATE - INSTALLED PER MANUFACTURE PUBLISHED INSTRUCTIONS.
29	ROOF SHINGLES AS SELECTED BY OWNER - SEE EXTERIOR ELEVATIONS.
30	INSTALLED PER MANUFACTURE PUBLISHED INSTRUCTIONS. "SIMPSON" STRONG JOIST TIES (OR APPROVED EQUAL)
	INSTALLED PER MANUFACTURE PUBLISHED INSTRUCTIONS.
31	CONTINUOUS FLASHING AND ALUMINUM DRIP EDGE.
32	CONTINUOUS ROOF GUTTER AS SELECTED BY OWNER (G.C TO COORDINATE) "AZEK" WINDOW SILL AND FRAME TRIM AS SELECTED BY OWNER.
34	4 OZ. NON - WOVEN FILTER FABRIC AROUND STONE SURROUND FOOTING DRAIN.
40	SOFFIT FINISH TO MATCH TRIM BOARD. SEE EXTERIOR ELEVATION NOTE: PROVIDE FLUSH SOFFIT VENTS
41	+42" HIGH P.T RAILING WITH 2X2 P.T BALUSTERS @ 4" O.C
42	2 x 10 P.T DECK FLOOR JOIST @ 16" O.C .
43	2 x 10 CONTIONOUS P.T LEDGER (AT DECK) SECURED TO FOUNDATION WALL WITH CARRIAGE BOLTS @ 24" O.C
44	P.T POST ( SEE FOUNDATION PLAN )
45	"SONEOTUBE" FOOTING ( SEE FOUNDATION PLAN )
46	CONTINUOUS RIDGE VENT (SEE ROOF PLAN)
47	ROLLED BATT SOUND INSULATION BETWEEN FLOOR JOIST
48	R-13 INSULATION

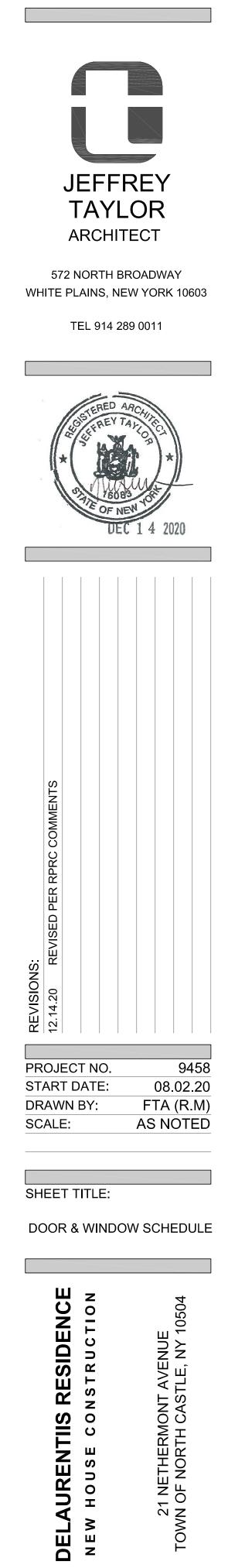




WINDOW SCHEDULE										
	Anderson Window: Double Hung, Tilt Wash (TW) 400									
Exterior Finish & Color: White Vinyl, Interior Finish: Pine										
Window Dimesion         Rough Or										
#	Catalog #	QTY	Location	Width	/ Height	Width	A / Height			
$\langle 1 \rangle$	TW2046	3	LIVING ROOM	2'-1 5/8"	4'-8 7/8"	2'-2 1/8"	4'-8 7/8"			
$\langle 2 \rangle$	TW2446	1	LIVING ROOM	2'-5 5/8"	4'-8 7/8"	2'-6 1/8"	4'-8 7/8"			
$\langle 2 \rangle$	TW2446	2	DINING ROOM	2'-5 5/8"	4'-8 7/8"	2'-6 1/8"	4'-8 7/8"			
3	TW30210	1	KITCHEN	3'-1 5/8"	3'-0 7/8"	3'-2 1/8"	3'-0 7/8"			
		(2) -								
		Double								
$\langle 4 \rangle$	TW2446	Mullion	FAMILY ROOM	2'-5 5/8"	4'-8 7/8"	2'-6 1/8"	4'-8 7/8"			
$\langle 5 \rangle$	TW2046	1	FAMILY ROOM	2'-1 5/8"	4'-8 7/8"	2'-2 1/8"	4'-8 7/8"			
<u>(6)</u>	TW2046	1	FAMILY ROOM	2'-1 5/8"	4'-8 7/8"	2'-2 1/8"	4'-8 7/8"			
$\overline{\langle 7 \rangle}$	TW3046	1	MASTER BEDROOM	3'-1 5/8"	4'-8 7/8"	3'-2 1/8"	4'-8 7/8"			
		(2) DBL								
8	TW3046	Mullion	MASTER BEDROOM	3'-1 5/8"	4'-8 7/8"	3'-2 1/8"	4'-8 7/8"			
<u>(9)</u>	TW3046	1	BEDROOM - 1	3'-1 5/8"	4'-8 7/8"	3'-2 1/8"	4'-8 7/8"			
	TW2046	2	BEDROOM - 1	2'-1 5/8"	4'-8 7/8"	2'-2 1/8"	4'-8 7/8"			
(11)	CTN30	1	BEDROOM - 1	3'-1 5/8"	1'-9 3/16"	3'-2 1/8"	1'-9 3/4"			
		(2) DBL								
(12)	TW3046	Mullion	BEDROOM - 2	3'-1 5/8"	4'8 7/8"	3'-2 1/8"	4'-8 7/8"			
(13)	TW3046	1	BEDROOM - 2	3'-1 5/8"	4'8 7/8"	3'-2 1/8"	4'-8 7/8"			
(14)	TW3046	1	BEDROOM - 3	3'-1 5/8"	4'8 7/8"	3'-2 1/8"	4'-8 7/8"			
(15)	TW3046	1	BEDROOM - 3	3'-1 5/8"	4'8 7/8"	3'-2 1/8"	4'-8 7/8"			
(16)	TW2032	1	HALL BATH	2'-1 5/8"	3'-4 7/8"	2'-2 1/8"	3'-4 7/8"			
		(2) DBL								
	TW2032	Mullion	MASTER BATH	2'-1 5/8"	3'-4 7/8"	2'-2 1/8"	3'-4 7/8"			
18	TW20210	1	BASEMENT	2'-1 5/8"	3'-0 7/8"	2'-1 5/8"	3'-0 7/8"			
19	TW210310	1	BASEMENT	2'-11 5/8"	4'-0 7/8"	3'-0 1/8"	4'-0 7/8"			
20	TW210310	1	BASEMENT	2'-11 5/8"	4'-0 7/8"	3'-0 1/8"	4'-0 7/8"			

	DOOR SCHEDULE									
#	Catalog #	Manufacturer	QTY	Location	Width ,	/ Height	NOTES			
							Front Entry Door: Thermatru Classic-Craft Amrerican Style Collection. Arborwatch 1- Lite w/ privacy glass. Autumn Harvest			
D1	CCA9100	Thermatru	1	ENTRY	3'-0"	6'-8"	color finish.			
							Thermatru Classic-Craft American Style Collection. Right and Left Side Lite Arborwatch w/ privacy glass. Autumn			
D2	CCA9100SL	Thermatru	2	ENTRY-Side Lites	12"	6'-8"	Harvest color finish.			
<b>D3</b>	NLGD6068R	Anderson	1	DINING ROOM	6'-0"	6'-8"	Gliding Patio Door. Color is white.			
<u>D4</u>	ISPD3168AR	Anderson	1	DINETTE	3'-0"	6'-8"	Hinged Patio door. Color is white.			
D5	Exterior door	Jeld Wen	1	BASEMENT	3'-0"	6'-8"	Metal panel door			

							Perma-Shield Gliding Patio Door. Color is
<b>D</b> 3	PS61611R	Anderson	1	DINING ROOM	6'-0"	6'-8"	white.
D4		Anderson	1	DINETTE	3'-0"	6'-8"	Hinged Patio door. Color is white.



SHEET NO: **A-600.00** 

## Map Unit Description

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named, soils that are similar to the named components, and some minor components that differ in use and management from the major soils.

Most of the soils similar to the major components have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Some minor components, however, have properties and behavior characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities. Soils that have profiles that are almost alike make up a *soil series*. All the soils of a series have major horizons that are similar in composition, thickness, and arrangement. Soils of a given series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Additional information about the map units described in this report is available in other soil reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the soil reports define some of the properties included in the map unit descriptions.

#### Westchester County, New York

#### HrF—Hollis-Rock outcrop complex, 35 to 60 percent slopes

#### Map Unit Setting

National map unit symbol: 2w69q Elevation: 0 to 1,540 feet Mean annual precipitation: 36 to 71 inches Mean annual air temperature: 39 to 55 degrees F Frost-free period: 145 to 240 days

USDA

Farmland classification: Not prime farmland

#### Map Unit Composition

Hollis, very stony, and similar soils: 60 percent
Rock outcrop: 20 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

#### Description of Hollis, Very Stony

#### Setting

Landform: Hills, ridges
Landform position (two-dimensional): Shoulder, summit, backslope
Landform position (three-dimensional): Nose slope, crest, side slope
Down-slope shape: Convex
Across-slope shape: Linear, convex
Parent material: Coarse-loamy melt-out till derived from granite, gneiss, and/or schist

#### Typical profile

*Oi - 0 to 2 inches:* slightly decomposed plant material *A - 2 to 7 inches:* gravelly fine sandy loam *Bw - 7 to 16 inches:* gravelly fine sandy loam *2R - 16 to 26 inches:* bedrock

#### Properties and qualities

Slope: 35 to 60 percent
Surface area covered with cobbles, stones or boulders: 1.6 percent
Depth to restrictive feature: 8 to 23 inches to lithic bedrock
Drainage class: Somewhat excessively drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.9 mmhos/cm)
Available water capacity: Very low (about 2.7 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7s Hydrologic Soil Group: D Ecological site: F144AY033MA - Shallow Dry Till Uplands Hydric soil rating: No

#### Description of Rock Outcrop

#### Setting

*Landform:* Hills, ridges *Parent material:* Igneous and metamorphic rock

#### Typical profile

R - 0 to 79 inches: bedrock

#### **Properties and qualities**

Slope: 35 to 60 percent
Depth to restrictive feature: 0 inches to lithic bedrock
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Available water capacity: Very low (about 0.0 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 8 Hydrologic Soil Group: D Hydric soil rating: No

#### **Minor Components**

#### Chatfield, very stony

Percent of map unit: 10 percent Landform: Hills, ridges Landform position (two-dimensional): Backslope, shoulder, summit Landform position (three-dimensional): Crest, side slope, nose slope Down-slope shape: Convex Across-slope shape: Linear, convex Hydric soil rating: No

#### Charlton, very stony

Percent of map unit: 5 percent Landform: Ridges, hills Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope Down-slope shape: Linear, convex Across-slope shape: Convex Hydric soil rating: No

#### Leicester, very stony

Percent of map unit: 4 percent Landform: Depressions, drainageways, hills, ground moraines Landform position (two-dimensional): Toeslope, footslope Landform position (three-dimensional): Base slope Down-slope shape: Linear, concave Across-slope shape: Concave Hydric soil rating: Yes

#### Sutton, very stony

Percent of map unit: 1 percent Landform: Hills, ground moraines Landform position (two-dimensional): Footslope Landform position (three-dimensional): Base slope Down-slope shape: Concave Across-slope shape: Linear

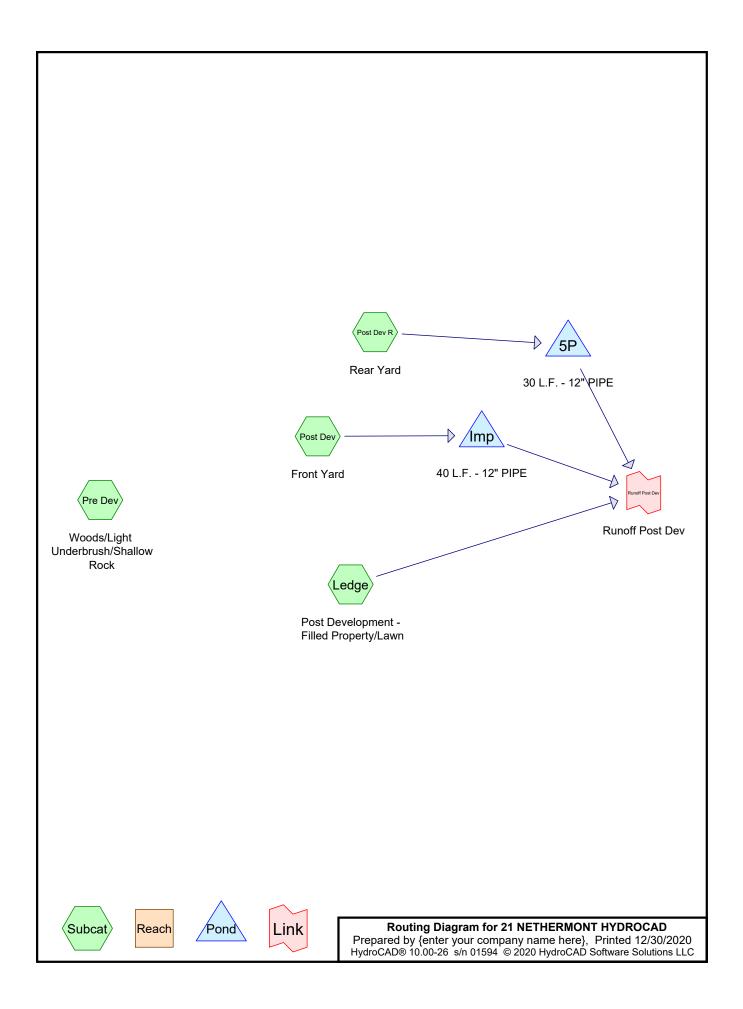
USDA

Hydric soil rating: No

## **Data Source Information**

Soil Survey Area: Westchester County, New York Survey Area Data: Version 16, Jun 11, 2020





#### **21 NETHERMONT HYDROCAD**

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#### Area Listing (all nodes)

Area	CN	Description
 (acres)		(subcatchment-numbers)
0.150	69	50-75% Grass cover, Fair, HSG B (Ledge)
0.065	98	Impervious Area Constructed (Post Dev, Post Dev R)
0.215	83	Woods, Poor, HSG D (Pre Dev)
0.430	80	TOTAL AREA

#### **21 NETHERMONT HYDROCAD**

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#### Soil Listing (all nodes)

Area	Soil	Subcatchment
(acres)	Group	Numbers
0.000	HSG A	
0.150	HSG B	Ledge
0.000	HSG C	
0.215	HSG D	Pre Dev
0.065	Other	Post Dev, Post Dev R
0.430		TOTAL AREA

21 Nethermont Ave - Drainage Analysis 100 Year Storm

#### **21 NETHERMONT HYDROCAD**

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Ground Covers (an nodes)									
HSG-A	HSG-B	HSG-C	HSG-D	Other	Total	Ground	Subcatchment		
 (acres)	(acres)	(acres)	(acres)	(acres)	(acres)	Cover	Numbers		
 0.000	0.150	0.000	0.000	0.000	0.150	50-75% Grass cover, Fair	Ledge		
0.000	0.000	0.000	0.000	0.065	0.065	Impervious Area Constructed	Post		
							Dev,		
							Post		
							Dev R		
0.000	0.000	0.000	0.215	0.000	0.215	Woods, Poor	Pre		
							Dev		
0.000	0.150	0.000	0.215	0.065	0.430	TOTAL AREA			

### Ground Covers (all nodes)

	21 Nethermont Ave - Drainage Analysis 100 Year Storm						
21 NETHERMONT HYDROCAD	NRCC 24-hr C 100 year Rainfall=9.23"						
Prepared by {enter your company name h	•						
HydroCAD® 10.00-26 s/n 01594 © 2020 Hydro	CAD Software Solutions LLC Page 5						
Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points Runoff by SCS TR-20 method, UH=SCS, Weighted-CN Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method							
SubcatchmentLedge: Post Development -	Runoff Area=6,546 sf 0.00% Impervious Runoff Depth>5.41" Flow Length=124' Tc=6.4 min CN=69 Runoff=0.98 cfs 0.068 af						
SubcatchmentPost Dev: Front Yard Flow Length=35'	Runoff Area=2,062 sf 100.00% Impervious Runoff Depth>8.99" Slope=0.0500 '/' Tc=0.3 min CN=98 Runoff=0.50 cfs 0.035 af						
SubcatchmentPost Dev R: Rear Yard Flow Length=50'	Runoff Area=753 sf 100.00% Impervious Runoff Depth>8.99" Slope=0.0300 '/' Tc=0.6 min CN=98 Runoff=0.18 cfs 0.013 af						
SubcatchmentPre Dev: Woods/Light	Runoff Area=9,361 sf 0.00% Impervious Runoff Depth>7.15" Flow Length=126' Tc=7.6 min CN=83 Runoff=1.70 cfs 0.128 af						
Pond 5P: 30 L.F 12" PIPE	Peak Elev=482.08' Storage=14 cf Inflow=0.18 cfs 0.013 af Outflow=0.16 cfs 0.013 af						
Pond Imp: 40 L.F 12" PIPE	Peak Elev=492.10' Storage=31 cf Inflow=0.50 cfs 0.035 af Outflow=0.44 cfs 0.035 af						
Link Runoff Post Dev: Runoff Post Dev	Inflow=1.48 cfs 0.116 af						
	Primary=1.48 cfs 0.116 af						
Total Runoff Area = 0.430 ad	c Runoff Volume = 0.244 af Average Runoff Depth = 6.82'						

Total Runoff Area = 0.430 acRunoff Volume = 0.244 afAverage Runoff Depth = 6.82"84.96% Pervious = 0.365 ac15.04% Impervious = 0.065 ac

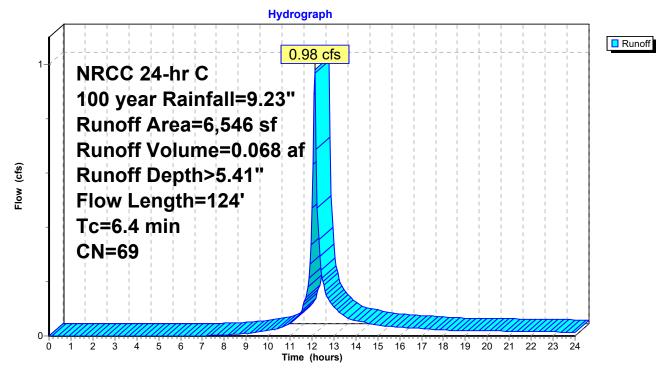
#### Summary for Subcatchment Ledge: Post Development - Filled Property/Lawn

Runoff = 0.98 cfs @ 12.14 hrs, Volume= 0.068 af, Depth> 5.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs NRCC 24-hr C 100 year Rainfall=9.23"

A	rea (sf)	CN [	Description		
	6,546	69 5	50-75% Gra	ass cover, F	Fair, HSG B
	6,546		100.00% Pe	ervious Are	a
Tc (min)	Length (feet)	Slope (ft/ft)		Capacity (cfs)	Description
2.3	61	0.2600	0.45		Sheet Flow, First 100 FT
					Grass: Short n= 0.150 P2= 3.50"
3.8	39	0.0300	0.17		Sheet Flow, First 100 FT
0.3	24	0.0300	1.21		Grass: Short n= 0.150 P2= 3.50" Shallow Concentrated Flow, Flow to NW Corner of Prop/Design Short Grass Pasture Kv= 7.0 fps
6.4	124	Total			

#### Subcatchment Ledge: Post Development - Filled Property/Lawn



21 Nethermont Ave - Drainage Analysis 100 Year Storm 21 NETHERMONT HYDROCAD NRCC 24-hr C 100 year Rainfall=9.23" Printed 12/30/2020 Prepared by {enter your company name here} HydroCAD® 10.00-26 s/n 01594 © 2020 HydroCAD Software Solutions LLC

#### Summary for Subcatchment Post Dev: Front Yard

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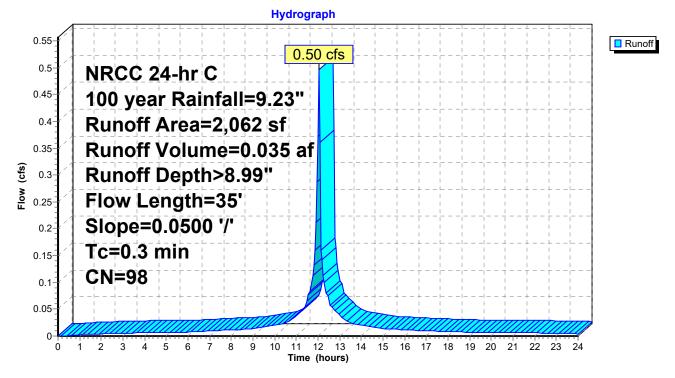
[49] Hint: Tc<2dt may require smaller dt

0.50 cfs @ 12.05 hrs, Volume= 0.035 af, Depth> 8.99" Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs NRCC 24-hr C 100 year Rainfall=9.23"

	Area (sf)	CN E	N Description							
*	2,062	98 l	Impervious Area Constructed							
	2,062	1	100.00% Impervious Area							
Тс	: Length	Slope	Velocity	Capacity	Description					
(min)	) (feet)	(ft/ft)	(ft/sec) (cfs)							
0.3	35	0.0500	1.68		Sheet Flow, Imp Surfaces to FY Detention Smooth surfaces n= 0.011 P2= 3.50"					

#### Subcatchment Post Dev: Front Yard



21 Nethermont Ave - Drainage Analysis 100 Year Storm 21 NETHERMONT HYDROCAD Prepared by {enter your company name here}

#### Summary for Subcatchment Post Dev R: Rear Yard

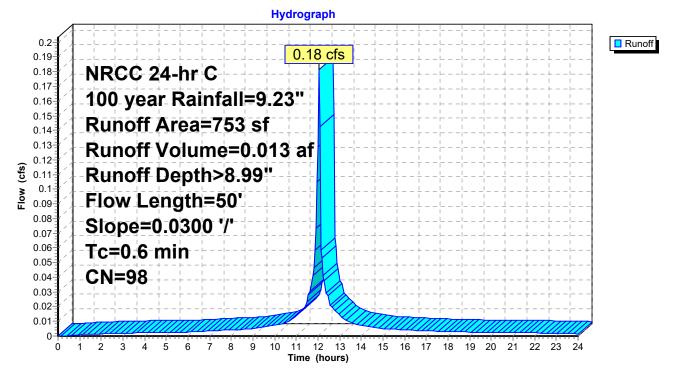
[49] Hint: Tc<2dt may require smaller dt

0.18 cfs @ 12.05 hrs, Volume= 0.013 af, Depth> 8.99" Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs NRCC 24-hr C 100 year Rainfall=9.23"

_	A	rea (sf)	CN [	Description			
*		753	98 I	98 Impervious Area Constructed			
		753	100.00% Impervious A			rea	
	Тс	Length	Slope	Velocity	Capacity	Description	
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)		
	0.6	50	0.0300	1.47		<b>Sheet Flow, Imp Surfaces to RY Detention</b> Smooth surfaces n= 0.011 P2= 3.50"	

#### Subcatchment Post Dev R: Rear Yard



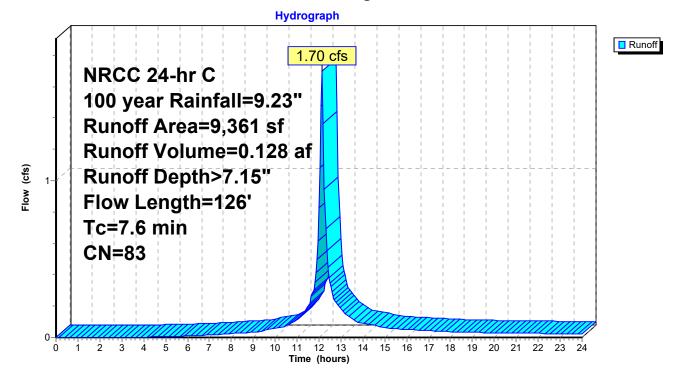
#### Summary for Subcatchment Pre Dev: Woods/Light Underbrush/Shallow Rock

Runoff = 1.70 cfs @ 12.14 hrs, Volume= 0.128 af, Depth> 7.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs NRCC 24-hr C 100 year Rainfall=9.23"

	A	rea (sf)	CN I	Description		
		9,361	83 V	Noods, Poo	or, HSG D	
		9,361	100.00% Pervious Are			a
	Tc (min)	Length (feet)	Slope (ft/ft)		Capacity (cfs)	Description
_	7.4	100	0.2600	0.23	· · · ·	Sheet Flow, First 100 Ft = 500.0 - 474.0
_	0.2	26	0.2690	2.59		Woods: Light underbrush n= 0.400 P2= 3.50" Shallow Concentrated Flow, Last 26 FT = 474.0 - 467 Woodland Kv= 5.0 fps
_	7.6	126	Total			

Subcatchment Pre Dev: Woods/Light Underbrush/Shallow Rock



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#### Summary for Pond 5P: 30 L.F. - 12" PIPE

[92] Warning: Device #2 is above defined storage

Inflow Area =	0.017 ac,100.00% Impervious, Inflow Depth > 8.99" for 100 year event	
Inflow =	0.18 cfs @ 12.05 hrs, Volume= 0.013 af	
Outflow =	0.16 cfs @ 12.09 hrs, Volume= 0.013 af, Atten= 12%, Lag= 1.9 min	ו
Primary =	0.16 cfs @ 12.09 hrs, Volume= 0.013 af	

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Peak Elev= 482.08' @ 12.09 hrs Surf.Area= 30 sf Storage= 14 cf

Plug-Flow detention time= 1.3 min calculated for 0.013 af (100% of inflow) Center-of-Mass det. time= 1.1 min (736.3 - 735.3)

Volume	Invert	Avail.Storage	Storage Description		
#1	481.50'	24 cf	<b>12.0" Round Pipe Storage</b> L= 30.0'		
Device	Routing	Invert Out	let Devices		
#1	Primary	481.50' <b>3.0</b> "	Vert. Orifice/Grate C= 0.600		
#2	Primary	482.50' <b>2.0'</b>	Iong Sharp-Crested Rectangular Weir 2 End Contraction(s)		
		0.5'	Crest Height		
Primary OutFlow Max=0.15 cfs @ 12.09 hrs HW=482.05' (Free Discharge)					

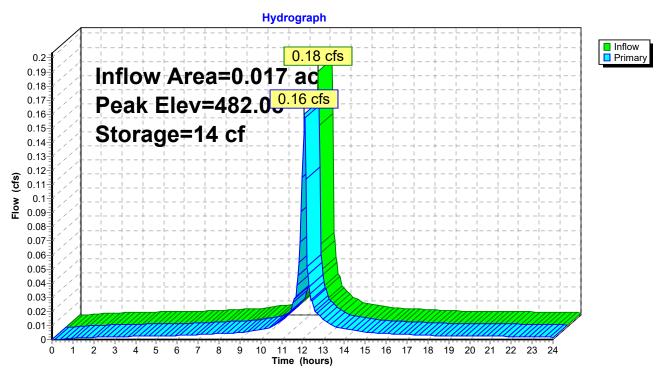
-1=Orifice/Grate (Orifice Controls 0.15 cfs @ 3.15 fps)

-2=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)

#### **21 NETHERMONT HYDROCAD**

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#### Pond 5P: 30 L.F. - 12" PIPE

# 21 Nethermont Ave - Drainage Analysis 100 Year Storm21 NETHERMONT HYDROCADNRCC 24-hr C 100 year Rainfall=9.23"Prepared by {enter your company name here}Printed 12/30/2020HydroCAD® 10.00-26 s/n 01594 © 2020 HydroCAD Software Solutions LLCPage 12

#### Summary for Pond Imp: 40 L.F. - 12" PIPE

[92] Warning: Device #2 is above defined storage [93] Warning: Storage range exceeded by 0.10'

Inflow Area =	0.047 ac,100.00% Impervious, Inflow De	epth > 8.99" for 100 year event
Inflow =	0.50 cfs @ 12.05 hrs, Volume=	0.035 af
Outflow =	0.44 cfs @ 12.00 hrs, Volume=	0.035 af, Atten= 12%, Lag= 0.0 min
Primary =	0.44 cfs @ 12.00 hrs, Volume=	0.035 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Peak Elev= 492.10' @ 12.00 hrs Surf.Area= 0 sf Storage= 31 cf

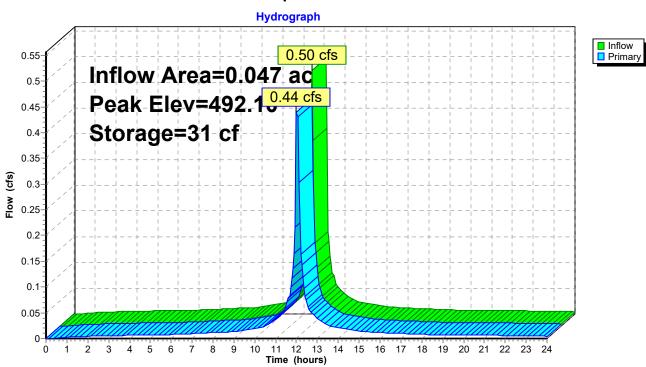
Plug-Flow detention time= 1.5 min calculated for 0.035 af (100% of inflow) Center-of-Mass det. time= 1.3 min (736.3 - 735.0)

Volume	Invert	Avail.Storage	Storage Description			
#1	491.00'	31 cf	12.0" Round Pipe Storage			
			L= 40.0'			
Device	Routing	Invert Ou	tlet Devices			
#1	Primary	491.00' <b>3.0</b>	" Vert. Orifice/Grate C= 0.600			
#2	Primary	492.00' <b>2.0</b>	' long Sharp-Crested Rectangular Weir 2 End Contraction(s)			
		0.5	' Crest Height			
Primary OutFlow Max=0.44 cfs @ 12.00 hrs HW=492.10' (Free Discharge) 1=Orifice/Grate (Orifice Controls 0.23 cfs @ 4.75 fps)						

2=Sharp-Crested Rectangular Weir (Weir Controls 0.21 cfs @ 1.05 fps)

# **21 NETHERMONT HYDROCAD**

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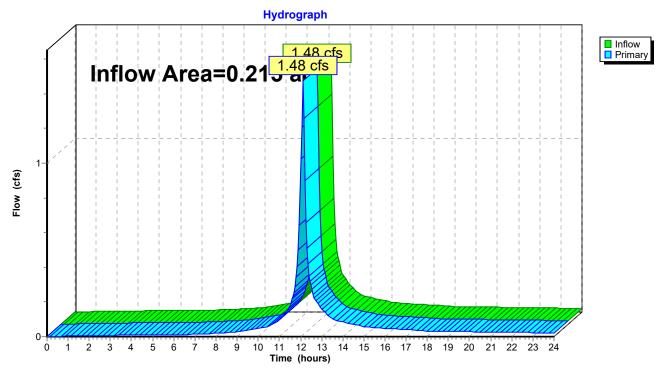
# Pond Imp: 40 L.F. - 12" PIPE

	21 Nethermont Ave - Drainage Analysis 100 Year Storm
21 NETHERMONT HYDROCAD	NRCC 24-hr C 100 year Rainfall=9.23"
Prepared by {enter your company name here	e} Printed 12/30/2020
HydroCAD® 10.00-26 s/n 01594 © 2020 HydroCAD	Software Solutions LLC Page 14

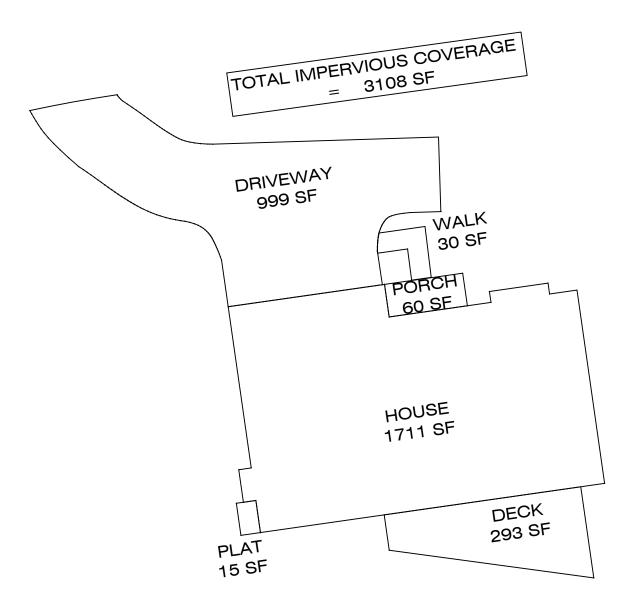
# Summary for Link Runoff Post Dev: Runoff Post Dev

Inflow Are	a =	0.215 ac, 30.07% Impervious, Inflow Depth > 6.48" for 100 year event
Inflow	=	1.48 cfs @ 12.10 hrs, Volume= 0.116 af
Primary	=	1.48 cfs @ 12.10 hrs, Volume= 0.116 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs



# Link Runoff Post Dev: Runoff Post Dev



DESIGN CALCULATIONS

FOR

# DINO DELAURENTIIS RESIDENCE

# NORTH CASTLE, WESTCHESTER COUNTY, NEW YORK

PROJECT NO.: 20ERS150 PLANS & CALCULATIONS DATED 11/16/20, REV. 0



PREPARED BY:



116 EDWARDS FERRY ROAD NE, UNIT S, LEESBURG, VA | T: (571) 707-8057 | F: (678) 550-9862

# **Project Information**

Client	ERS				
Name	Dino DeLaurentis Resi	dence		Number	20ERS150
Site	North Castle, NY			Designer	NT
Revision	1	Created	11/12/2020	Modified	11/13/2020
Standard	National Concrete Mas	onry Associatio	on 3rd Edition		

Seismic As 0.15 Default Deflection of 2.00 inch

## **Selected Facing Unit**

Licensor/Product Line: User defined Name: MESA (STD. PRIVATE)



Project: 20ERS150 - Dino DeLaurentis Residence [Rev. 1] North Castle, NY

	#10 at Station 15.00				
	November 13, 2020				
	NT				
dard	National Concrete Masonry Association 3rd Edition				
	Static and Seismic				
sure	U.S./Imperial				
r/Product Lin	e: User defined				
MESA (S	TD. PRIVATE)				
0.15	Default Deflection of 2.00 inch				
	sure r/Product Lin MESA (S				

Soil Parameters		In Situ				
		Friction	Density	Cohesion Cf		
Soil Zone	Soil Type	Angle	[lb/ft³]	[lb/ft <sup>2</sup> ]		
Infill (i)	SM	30°	125.00	n/a		
Retained (r)	SM	30°	125.00	n/a		
Foundation (f)	SM	30°	125.00	0.00		
Base (b)	GW	36°	140.02	n/a		
Drainage (d)	GP	38°	105.00	n/a		

#### Section Details

Section Height	5.00	Back Slope	18.40°	LL Surcharge	100	DL Surcharge	250
Design Height	5.00 ft	Crest Offset	8.00 ft	LL Offset	0.00 ft	DL Offset	8.00 ft
Embedment	0.53 ft	Wall Batter	4.50°	Toe Slope	0.00°	Toe Offset	0.00 ft

#### **Minimum Factors of Safety**

Reinforced								
External		Value	Internal		Value	Facing		Value
FSsl	Base Sliding	1.50	FSsl	Internal Sliding	1.50	FScs	Connection Strength	1.50
FSbc	Bearing Capacity	2.00	FSpo	Pullout	1.50	FSsc	Facing Shear	1.50
FSct	Crest Toppling	1.50	FSto	Tensile Overstress	1.50		-	
FSot	Overturning	2.00						

#### Seismic

Reinforce	ed							
External		Value	Internal		Value	Facing		Value
FSsl	Base Sliding	1.10	FSsl	Internal Sliding	1.10	FScs	Connection Strength	1.10
FSbc	Bearing Capacity	1.50	FSpo	Pullout	1.10	FSsc	Facing Shear	1.10
FSct	Crest Toppling	1.10	FSto	Tensile Overstress	1.10			
FSot	Overturning	1.50						

## Reinforcements

UXMSE - UX	1100MSE	Supplier: Ter	nsar International C	orporation,	Fill Type: Sands		
Tult	3,971.52 lb/ft	RFcr	2.56	RFd	1.00	LTDS	1,436.46 lb/ft
RFid	1.08	Cds	0.80	Ci	0.80		
Connection	/Shear Properties						
cs1	1,253.00 lb/ft	IP-1	0.00 lb/ft	cs2	1,253.00 lb/ft	IP-2	6,502.00 lb/ft
cs max	1,253.00 lb/ft	au	705.00 lb/ft	u	33.00 lb/ft	Vu(max)	1,927.00 lb/ft

#### **Analysis Results**

\* Analysis includes Vertical Forces

\* Uses Live and Dead Load Reduction due to Offset

\* Uses External Horiz. Accel Coeff in Seismic Crest Toppling

\* Embedment is not included in Bearing Capacity

External Static	FS			
Bearing Capacity	8.76	Bearing Pressure	928.15	lb/ft <sup>2</sup>
Overturning	5.28	Max Eccentricity	0.10	ft
Base Sliding	2.26			
Crest Toppling	2.36			
Internal Sliding	2.67			
External Seismic	FS			
Bearing Capacity	10.26	Bearing Pressure	792.73	lb/ft <sup>2</sup>
Overturning	5.61	Max Eccentricity	0.04	ft



External Seismic	FS
Base Sliding	2.32
Crest Toppling	3.05
Internal Sliding	2.76

Internal Static Layer	Elevation [ft]	Rein.	Length [ft]	Internal Sliding FS	Pullout FS	Tensile Overstress FS
4	487.00	UXMSE	6.00	4.48	7.08	18.54
3	486.33	UXMSE	6.00	3.90	8.16	13.77
2	485.00	UXMSE	6.00	3.15	8.24	7.16
1	483.67	UXMSE	6.00	2.67	10.04	5.30

Internal Seismic Layer	Elevation [ft]	Rein.	Length [ft]	Internal Sliding FS	Pullout FS	Tensile Overstress FS
4	487.00	UXMSE	6.00	5.19	3.08	20.65
3	486.33	UXMSE	6.00	4.34	4.73	20.46
2	485.00	UXMSE	6.00	3.34	5.49	12.20
1	483.67	UXMSE	6.00	2.76	7.32	9.89

Facing Static				Connection Strength
Layer	Elevation [ft]	Rein.	Length [ft]	FS
4	487.00	UXMSE	6.00	16.18
3	486.33	UXMSE	6.00	12.01
2	485.00	UXMSE	6.00	6.24
1	483.67	UXMSE	6.00	4.62

Facing Seismic Layer	Elevation [ft]	Rein.	Length [ft]	Connection Strength FS
4	487.00	UXMSE	6.00	7.04
3	486.33	UXMSE	6.00	6.97
2	485.00	UXMSE	6.00	4.16
1	483.67	UXMSE	6.00	3.37

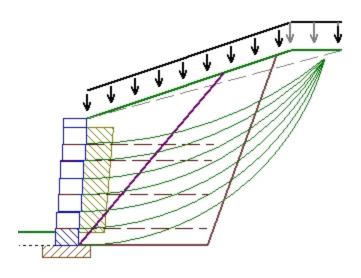
# Internal Compound Stability

Internal Compound	Stability			
10 Lowest Static				
Radius Point	Entry Point	Exit Point	Result	Status
1	10	1	1.66	Pass
1	10	2	1.66	Pass
1	10	4	1.79	Pass
1	10	3	2.02	Pass
1	10	5	2.19	Pass
1	10	6	2.33	Pass
1	10	7	2.34	Pass
10 Lowest Seism	ic			
1	10	1	1.62	Pass
1	10	2	1.62	Pass
1	10	4	1.75	Pass
1	10	3	2.03	Pass
1	10	5	2.22	Pass
1	10	7	2.36	Pass
1	10	6	2.38	Pass

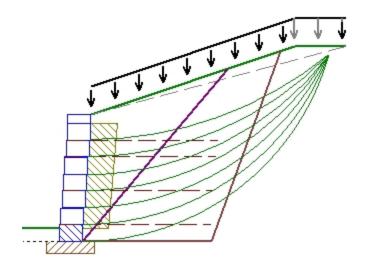


# Section 10 Details

## Section 10 Static ICS Cross-section



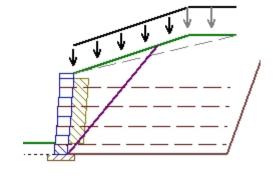
## Section 10 Seismic ICS Cross-section



- \* Analysis includes Vertical Forces
- \* Uses Live and Dead Load Reduction due to Offset
- \* Uses External Horiz. Accel Coeff in Seismic Crest Toppling
- \* Embedment is not included in Bearing Capacity

Project: 20ERS150 - Dino DeLaurentis Residence [Rev. 1] North Castle, NY

Section		#12 at Station 18.00
<b>Report Date</b>		November 13, 2020
Designer		NT
<b>Design Stan</b>	dard	National Concrete Masonry Association 3rd Edition
Design		Static and Seismic
Unit of Meas	sure	U.S./Imperial
Sele Licenso	r/Product Lin	e: User defined
Name:	MESA (S	TD. PRIVATE)
Seismic As	0.15	Default Deflection of 2.00 inch



Wall: 1

Soil Parameters		In Situ					
		Friction	Density	Cohesion Cf			
Soil Zone	Soil Type	Angle	[lb/ft³]	[lb/ft <sup>2</sup> ]			
Infill (i)	SM	30°	125.00	n/a			
Retained (r)	SM	30°	125.00	n/a			
Foundation (f)	SM	30°	125.00	0.00			
Base (b)	GW	36°	140.02	n/a			
Drainage (d)	GP	38°	105.00	n/a			

#### Section Details

Section Height	5.67	Back Slope	18.40°	LL Surcharge	100	DL Surcharge	250
Design Height	5.67 ft	Crest Offset	8.00 ft	LL Offset	0.00 ft	DL Offset	8.00 ft
Embedment	0.76 ft	Wall Batter	4.50°	Toe Slope	0.00°	Toe Offset	0.00 ft

#### **Minimum Factors of Safety**

Reinforce	ed							
External		Value	Internal		Value	Facing		Value
FSsl	Base Sliding	1.50	FSsl	Internal Sliding	1.50	FScs	Connection Strength	1.50
FSbc	Bearing Capacity	2.00	FSpo	Pullout	1.50	FSsc	Facing Shear	1.50
FSct	Crest Toppling	1.50	FSto	Tensile Overstress	1.50		-	
FSot	Overturning	2.00						

#### Seismic

Reinforc	ed							
External		Value	Internal		Value	Facing		Value
FSsl	Base Sliding	1.10	FSsl	Internal Sliding	1.10	FScs	Connection Strength	1.10
FSbc	Bearing Capacity	1.50	FSpo	Pullout	1.10	FSsc	Facing Shear	1.10
FSct	Crest Toppling	1.10	FSto	Tensile Overstress	1.10			
FSot	Overturning	1.50						

## Reinforcements

UXMSE - UX	1100MSE	Supplier: Ter	nsar International C	orporation,	Fill Type: Sands		
Tult	3,971.52 lb/ft	RFcr	2.56	RFd	1.00	LTDS	1,436.46 lb/ft
RFid	1.08	Cds	0.80	Ci	0.80		
Connection	/Shear Properties						
cs1	1,253.00 lb/ft	IP-1	0.00 lb/ft	cs2	1,253.00 lb/ft	IP-2	6,502.00 lb/ft
cs max	1,253.00 lb/ft	au	705.00 lb/ft	u	33.00 lb/ft	Vu(max)	1,927.00 lb/ft

#### **Analysis Results**

\* Analysis includes Vertical Forces

\* Uses Live and Dead Load Reduction due to Offset

\* Uses External Horiz. Accel Coeff in Seismic Crest Toppling

\* Embedment is not included in Bearing Capacity

External Static	FS		
Bearing Capacity	14.75	Bearing Pressure	1138.95 lb/ft <sup>2</sup>
Overturning	15.84	Max Eccentricity	0.00 ft
Base Sliding	4.16		
Crest Toppling	2.36		
Internal Sliding	3.99		
External Seismic	FS		
Bearing Capacity	16.16	Bearing Pressure	1040.00 lb/ft <sup>2</sup>
Overturning	16.36	Max Eccentricity	0.00 ft



External Seismic	FS
Base Sliding	4.18
Crest Toppling	3.05
Internal Sliding	4.03

Internal Static Layer	Elevation [ft]	Rein.	Length [ft]	Internal Sliding FS	Pullout FS	Tensile Overstress FS
4	486.33	UXMSE	12.00	5.93	45.39	13.73
3	485.00	UXMSE	12.00	5.07	40.43	8.95
2	483.67	UXMSE	12.00	4.46	37.11	6.28
1	482.33	UXMSE	12.00	3.99	36.18	4.83

Internal Seismic Layer	Elevation [ft]	Rein.	Length [ft]	Internal Sliding FS	Pullout FS	Tensile Overstress FS
4	486.33	UXMSE	12.00	6.55	20.46	15.85
3	485.00	UXMSE	12.00	5.35	24.73	14.01
2	483.67	UXMSE	12.00	4.58	25.67	11.12
1	482.33	UXMSE	12.00	4.03	26.94	9.21

Facing Static Layer	Elevation [ft]	Rein.	Length [ft]	Connection Strength FS
4	486.33	UXMSE	12.00	11.98
3	485.00	UXMSE	12.00	7.80
2	483.67	UXMSE	12.00	5.47
1	482.33	UXMSE	12.00	4.22

Facing Seismic Layer	Elevation [ft]	Rein.	Length [ft]	Connection Strength FS
4	486.33	UXMSE	12.00	5.40
3	485.00	UXMSE	12.00	4.77
2	483.67	UXMSE	12.00	3.79
1	482.33	UXMSE	12.00	3.14

#### Internal Compound Stability

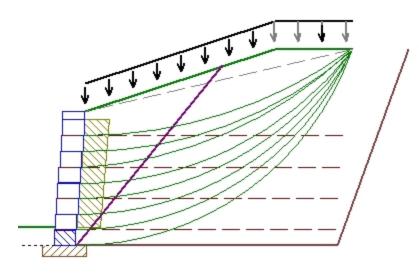
10	l owest S	totio
10	I OWAST S	tatic

<b>Radius Point</b>	Entry Point	Exit Point	Result	Status
1	10	8	2.30	Pass
3	9	6	3.28	Pass
1	1	2	3.53	Pass
1	1	1	3.63	Pass
1	1	4	3.64	Pass
1	1	7	3.79	Pass
1	1	3	4.11	Pass
1	1	5	4.45	Pass
Lowest Seisn	nic			
1	10	8	2.18	Pass
1	1	1	2.43	Pass
6	1	2	2.45	Pass
1	10	6	2.51	Pass
1	1	4	2.53	Pass
1	1	3	2.73	Pass
1	1	5	2.86	Pass
1	10	7	2.88	Pass

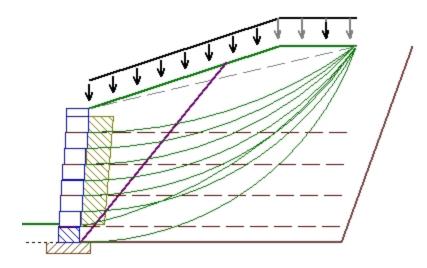


# **Section 12 Details**

## Section 12 Static ICS Cross-section



## Section 12 Seismic ICS Cross-section



- \* Analysis includes Vertical Forces
- \* Uses Live and Dead Load Reduction due to Offset
- \* Uses External Horiz. Accel Coeff in Seismic Crest Toppling
- \* Embedment is not included in Bearing Capacity



Project: 20ERS150 - Dino DeLaurentis Residence [Rev. 1] North Castle, NY

Section		#18 at Station 27.75
<b>Report Date</b>		November 13, 2020
Designer		NT
<b>Design Stan</b>	dard	National Concrete Masonry Association 3rd Edition
Design		Static and Seismic
Unit of Meas	sure	U.S./Imperial
Sele/Licenso	r/Product Lin	e: User defined
Name:	MESA (S	TD. PRIVATE)
Seismic As	0.15	Default Deflection of 2.00 inch

Soil Parameters			In Situ	
		Friction	Density	Cohesion Cf
Soil Zone	Soil Type	Angle	[lb/ft³]	[lb/ft <sup>2</sup> ]
Infill (i)	SM	30°	125.00	n/a
Retained (r)	SM	30°	125.00	n/a
Foundation (f)	SM	30°	125.00	0.00
Base (b)	GW	36°	140.02	n/a
Drainage (d)	GP	38°	105.00	n/a

#### Section Details

Section Height	8.33	Back Slope	18.40°	LL Surcharge	100	DL Surcharge	250
Design Height	8.33 ft	Crest Offset	22.00 ft	LL Offset	0.00 ft	DL Offset	22.00 ft
Embedment	1.13 ft	Wall Batter	4.50°	Toe Slope	0.00°	Toe Offset	0.00 ft

#### **Minimum Factors of Safety**

Reinforce	d							
External		Value	Internal		Value	Facing		Value
FSsl	Base Sliding	1.50	FSsl	Internal Sliding	1.50	FScs	Connection Strength	1.50
FSbc	Bearing Capacity	2.00	FSpo	Pullout	1.50	FSsc	Facing Shear	1.50
FSct	Crest Toppling	1.50	FSto	Tensile Overstress	1.50		-	
FSot	Overturning	2.00						

#### Seismic

Reinforce	ed							
External		Value	Internal		Value	Facing		Value
FSsl	Base Sliding	1.10	FSsl	Internal Sliding	1.10	FScs	Connection Strength	1.10
FSbc	Bearing Capacity	1.50	FSpo	Pullout	1.10	FSsc	Facing Shear	1.10
FSct	Crest Toppling	1.10	FSto	Tensile Overstress	1.10			
FSot	Overturning	1.50						

## Reinforcements

UXMSE - UX	1100MSE	Supplier: Ter	nsar International C	orporation,	Fill Type: Sands		
Tult	3,971.52 lb/ft	RFcr	2.56	RFd	1.00	LTDS	1,436.46 lb/ft
RFid	1.08	Cds	0.80	Ci	0.80		
Connection	/Shear Properties						
cs1	1,253.00 lb/ft	IP-1	0.00 lb/ft	cs2	1,253.00 lb/ft	IP-2	6,502.00 lb/ft
cs max	1,253.00 lb/ft	au	705.00 lb/ft	u	33.00 lb/ft	Vu(max)	1,927.00 lb/ft

#### **Analysis Results**

\* Analysis includes Vertical Forces

\* Uses Live and Dead Load Reduction due to Offset

\* Uses External Horiz. Accel Coeff in Seismic Crest Toppling

\* Embedment is not included in Bearing Capacity

External Static	FS			
Bearing Capacity	11.34	Bearing Pressure	1481.56 lb/ft <sup>2</sup>	
Overturning	8.73	Max Eccentricity	0.00 ft	
Base Sliding	2.99			
Crest Toppling	2.36			
Internal Sliding	2.77			
External Seismic	FS			
Bearing Capacity	12.15	Bearing Pressure	1383.22 lb/ft <sup>2</sup>	
Overturning	8.47	Max Eccentricity	0.00 ft	



External Seismic	FS
Base Sliding	2.85
Crest Toppling	3.05
Internal Sliding	2.65

				Internal		Tensile
Internal Static				Sliding	Pullout	Overstress
Layer	Elevation [ft]	Rein.	Length [ft]	FS	FS	FS
7	485.67	UXMSE	12.00	4.66	27.19	17.26
6	485.00	UXMSE	12.00	4.38	25.58	12.81
5	483.67	UXMSE	12.00	3.90	19.87	6.66
4	482.33	UXMSE	12.00	3.49	20.53	4.93
3	481.00	UXMSE	12.00	3.16	21.68	3.91
2	479.67	UXMSE	12.00	2.89	31.43	4.42
1	479.00	UXMSE	12.00	2.77	31.14	3.91

				Internal		Tensile
Internal Seismic			Sliding	Pullout	Overstress	
Layer	Elevation [ft]	Rein.	Length [ft]	FS	FS	FS
7	485.67	UXMSE	12.00	5.20	6.16	10.01
6	485.00	UXMSE	12.00	4.70	8.82	11.31
5	483.67	UXMSE	12.00	3.97	8.58	7.36
4	482.33	UXMSE	12.00	3.46	10.40	6.39
3	481.00	UXMSE	12.00	3.08	12.22	5.65
2	479.67	UXMSE	12.00	2.78	18.98	6.84
1	479.00	UXMSE	12.00	2.65	19.71	6.33

				Connection
Facing Static				Strength
Layer	Elevation [ft]	Rein.	Length [ft]	FS
7	485.67	UXMSE	12.00	15.05
6	485.00	UXMSE	12.00	11.18
5	483.67	UXMSE	12.00	5.81
4	482.33	UXMSE	12.00	4.30
3	481.00	UXMSE	12.00	3.41
2	479.67	UXMSE	12.00	3.86
1	479.00	UXMSE	12.00	3.41

Facing Seismic Layer	Elevation [ft]	Rein.	Length [ft]	Connection Strength FS
7	485.67	UXMSE	12.00	3.41
6	485.00	UXMSE	12.00	3.85
5	483.67	UXMSE	12.00	2.51
4	482.33	UXMSE	12.00	2.18
3	481.00	UXMSE	12.00	1.92
2	479.67	UXMSE	12.00	2.33
1	479.00	UXMSE	12.00	2.16

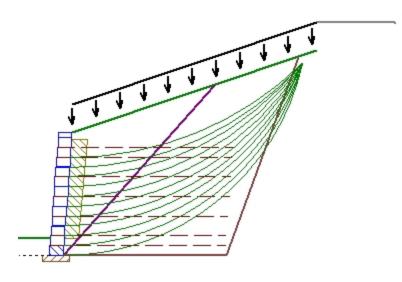
#### Internal Compound Stability 10 Lowest Static

To Lonoot otatio				
Radius Point	Entry Point	Exit Point	Result	Status
1	10	3	2.66	Pass
1	10	5	2.86	Pass
1	10	1	2.89	Pass
1	10	2	2.90	Pass
1	10	4	3.12	Pass
1	10	7	3.20	Pass
1	10	6	3.40	Pass
1	10	9	3.50	Pass
1	10	11	3.72	Pass
1	10	8	4.01	Pass
10 Lowest Seism	ic			
1	10	1	2.00	Pass
1	10	3	2.04	Pass

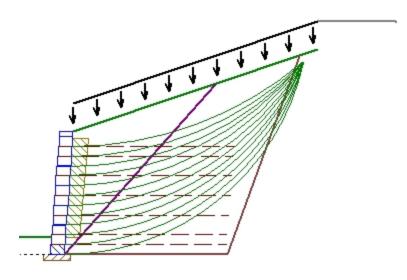
## Project: 20ERS150 - Dino DeLaurentis Residence [Rev. 1] North Castle, NY

1	10	2	2.11	Pass
1	10	5	2.22	Pass
1	10	4	2.29	Pass
1	10	12	2.35	Pass
1	10	6	2.54	Pass
1	10	7	2.65	Pass
1	10	9	3.05	Pass
1	10	8	3.15	Pass

## Section 18 Static ICS Cross-section



## Section 18 Seismic ICS Cross-section



- \* Analysis includes Vertical Forces
- \* Uses Live and Dead Load Reduction due to Offset
- \* Uses External Horiz. Accel Coeff in Seismic Crest Toppling
- \* Embedment is not included in Bearing Capacity



# Dino DeLaurentis Residence

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## PROJECT IDENTIFICATION

Title:Dino DeLaurentis ResidenceProject Number:20ERS150 -Client:ERSDesigner:NT

## Description:

WALL 1 - PANEL 18

#### Company's information:

Name: ERS Materials, LLC Street: 116 Edwards Ferry Road NE Unit S Leesburg, VA 20176

Telephone #: Fax #: E-Mail:

Original file path and name:V:\2020\20 ..... tle, NY\Calculations\Ressa\ReSSA\_WALL1\_PANEL18.MSEOriginal date and time of creating this file:Thu Nov 12 11:06:25 2020

**PROGRAM MODE:** Analysis of a General Slope using GEOSYNTHETIC as reinforcing material.

## INPUT DATA (EXCLUDING REINFORCEMENT LAYOUT)

## SOIL DATA

======================================	Unit weight, γ [lb/ft <sup>3</sup> ]	Internal angle of friction, $\phi$ [deg.]	Cohesion, c [lb/ft <sup>2</sup> ]
1 Block Face	130.0	0.0	500.0
.2 Reinforced Fill	125.0	30.0	0.0
.3 Retained Soil	125.0	30.0	0.0
4 Foundation Soil	125.0	30.0	0.0

## REINFORCEMENT

Reinfo	orcement	Ultimate Strength,	Reduction Factor for	Reduction Factor for	Reduction Factor for	Additional Reduction	Coverage Ratio,
Type #	Geosynthetic Designated Name	Tult [lb/ft]	Installation Damage, RFid	Durability,	Creep, RFc	Factor, RFa	Rc
1 UX	1100MSE	3971.52	1.08	1.00	2.56	1.00	1.00
Intera	ction Parameters	== Direct S	liding ==	=====	Pullout ====	=	
Type #	Geosynthetic Designated Name	Cds-phi	Cds-c	Ci		Alpha	
1 UX	1100MSE	0.80	0.00	0.80	(	0.80	

Relative Orientation of Reinforcement Force, ROR = 1.00. Assigned Factor of Safety to resist pullout, Fs-po = 1.50 Design method for Global Stability: AASHTO/FHWA Bishop.

## WATER

Water is not present

## SEISMICITY

Not Applicable

## DRAWING OF SPECIFIED GEOMETRY - GENERAL - Quick Input

-- Problem geometry is defined along sections selected by user at x,y coordinates.

-- X1,Y1 represents the coordinates of soil surface. X2,Y2 represent the coordinates of the end of soil layer 1 and start of soil layer 2, and so on.

## GEOMETRY

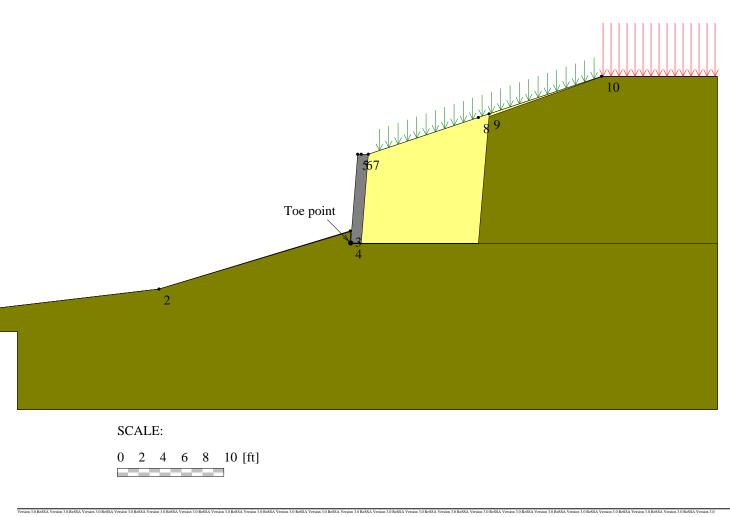
Soil profile contains 4 layers (see details in next page)

#### UNIFORM SURCHARGE

Load Q1 = 100.00 [lb/ft<sup>2</sup>] inclined from verical at 0.00 degrees, starts at X1s = 2.70 and ends at X1e = 23.70 [ft]. Load Q2 = 250.00 [lb/ft<sup>2</sup>] inclined from verical at 0.00 degrees, starts at X2s = 23.70 and ends at X2e = 100.00 [ft]. Surcharge load, Q3.....None

STRIP LOAD

.....None.....



Dino DeLaurentis Residence		Page 3 of 11
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## TABULATED DETAILS OF GEMERAL SPECIFIED GEOMETRY

Soil profile contains 4 layers. Coordinates in [ft.]

	#	Xi	Yi
Top of Layer 1	1	-52.00	470.00
	2	-18.00	474.00
	3	-0.03	479.46
	4	0.00	478.33
	5	0.66	486.66
	6	1.66	486.66
	7	23.57	493.98
Top of Layer 2	8	-52.00	470.00
	9	-18.00	474.00
	10	-0.03	479.46
	11	0.00	478.33
	12	1.00	478.33
	13	1.66	486.66
	14	23.57	493.98
Top of Layer 3	15	-52.00	470.00
	16	-18.00	474.00
	17	-0.03	479.42
	18	0.00	478.30
	19	12.00	478.30
	20	13.00	490.20
	21	23.57	493.95
Top of Layer 4	22	-52.00	470.00
	23	-18.00	474.00
	24	-0.03	479.39
	25	0.00	478.26

Ve

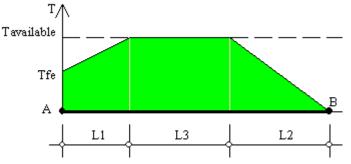
## TABULATED DETAILS OF SPECIFIED GEOMETRY

Soil profile contains 4 layers. Coordinates in [ft.]

#	Х	Y1	Y2	Y3	Y4
1	-52.00	470.00	470.00	470.00	470.00
2	-18.00	474.00	474.00	474.00	474.00
3	-0.03	479.46	479.46	479.42	479.39
4	0.00	478.33	478.33	478.30	478.26
5	0.66	486.66	478.33	478.30	478.26
6	1.00	486.66	478.33	478.30	478.26
7	1.66	486.66	486.66	478.30	478.26
8	12.00	490.11	490.11	478.30	478.26
9	13.00	490.45	490.45	490.20	478.26
10	23.57	493.98	493.98	493.95	478.26

Ve

## DISTRIBUTION OF AVAILABLE STRENGTH ALONG EACH REINFORCEMENT LAYER



 $\begin{aligned} A &= \text{Front-end of reinforcement (at face of slope)} \\ B &= \text{Rear-end of reinforcement} \\ AB &= L1 + L2 + L3 = \text{Embedded length of reinforcement} \end{aligned}$ 

Tavailable = Long-term strength of reinforcement Tfe = Available front-end strength (e.g., connection to facing)

L1 = Front-end 'pullout' length L2 = Rear-end pullout length Tavailable prevails along L3

Factor of safety on resistance to pullout on either end of reinforcement, Fs-po = 1.50

Reinforcement Layer #	Designated Name	Height Relative to Toe [ft]	L [ft]	L1 [ft]	L2 [ft]	L3 [ft]	Tfe [lb/ft]	Tavailable [lb/ft]
1	UX1100MSE	0.67	12.00	0.46	2.20	9.34	1249.72	1436.46
2	UX1100MSE	1.33	12.00	0.46	2.33	9.21	1249.72	1436.46
3	UX1100MSE	2.67	12.00	0.46	2.69	8.85	1249.72	1436.46
4	UX1100MSE	4.00	12.00	0.46	3.18	8.36	1249.72	1436.46
5	UX1100MSE	5.33	12.00	0.46	3.94	7.60	1249.72	1436.46
6	UX1100MSE	6.67	12.00	0.46	5.31	6.23	1249.72	1436.46
7	UX1100MSE	7.33	12.00	0.46	6.59	4.95	1249.72	1436.46

## **RESULTS OF ROTATIONAL STABILITY ANALYSIS**

Results in the tables below represent critical circles identified between specified points on entry and exit. (Theta-exit set to 50.00 deg.) The most critical circle is obtained from a search considering all the combinations of input entry and exit points.

Entry	Entry	Point		Point		ical C			
Point #	(X,		()	X,Y)	()	Xc, Yc, R	R)	Fs	STATUS
	[f	t]		[ft]		[ft]			
1	4.00	487.45	-23.91	473.41	-13.50	487.48	17.51	3.77	
2	5.24	487.86	-21.91	473.69	-12.05	487.90	17.30	3.27	
3	6.49	488.27	-19.84	473.92	-10.77	488.60	17.26	2.94	
4	7.73	488.69	-18.93	474.11	-9.84	489.14	17.57	2.68	
5	8.97	489.10	-18.93	474.08	-10.18	491.24	19.26	2.46	
6	10.21	489.52	-17.61	474.14	-8.88	491.20	19.17	2.28	
7	11.45	489.93	-17.73	474.19	-9.12	493.14	20.82	2.11	
8	12.69	490.35	-14.76	475.24	-5.24	490.44	17.94	1.92	
9	13.93	490.76	-14.53	475.10	-4.64	490.82	18.57	1.75	
10	15.17	491.18	-13.50	475.41	-3.53	491.25	18.71	1.61	
11	16.42	491.59	-13.74	475.56	-3.48	492.64	19.93	1.53	
12	17.66	492.00	-13.62	475.48	-3.48	494.14	21.24	1.46	
13	18.90	492.42	-14.85	475.24	-4.46	496.57	23.72	1.41	
14	20.14	492.83	-15.62	474.80	-5.58	499.35	26.53	1.38	
15	21.38	493.25	-15.70	474.82	-6.12	502.05	28.87	1.35	
16	22.62	493.66	-16.94	474.56	-7.22	504.96	31.91	1.33	
17	23.86	493.98	-17.70	474.16	-8.45	508.24	35.32	1.32	
18	25.10	493.98	-18.93	474.01	-9.30	511.30	38.52	1.31	
19	26.35	493.98	-18.93	474.00	-9.43	513.75	40.87	1.30 .	OK
20	27.59	493.98	-18.93	473.99	-10.13	517.62	44.51	1.30	
21	28.83	493.98	-19.93	473.86	-11.19	521.81	48.74	1.31	
22	30.07	493.98	-18.93	473.97	-11.38	525.48	52.05	1.32	
23	31.31	493.98	-19.91	473.84	-12.68	530.64	57.26	1.33	
24	32.55	493.98	-20.86	473.70	-14.10	536.38	63.04	1.35	
25	33.79	493.98	-20.84	473.70	-14.79	541.12	67.69	1.38	
26	35.03	493.98	-20.81	473.69	-15.61	546.37	72.87	1.40	
27	36.28	493.98	-20.79	473.69	-16.57	552.22	78.65	1.43	
28	37.52	493.98	-24.10	473.34	-19.20	560.98	87.78	1.46	
29	38.76	493.98	-24.11	473.33	-20.48	568.29	95.03	1.49	
30	40.00	493.98	-22.97	473.44	-21.00	574.21	100.79	1.53	

Note: In the 'Status' column, OK means the critical circle was identified within the specified search domain. 'On extreme X-entry' means that the critical result is on the edge of the search domain; a lower Fs may result if the search domain is expanded.

Dino DeLaurentis Residence	
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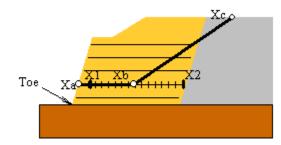
## **RESULTS OF ROTATIONAL STABILITY ANALYSIS**

Results in the tables below represent critical circles identified between specified points on entry and exit. (Theta-exit set to 50.00 deg.) The most critical circle is obtained from a search considering all the combinations of input entry and exit points.

Exit	Exit		Ent	<b>onsidering all</b> ry Point		ical Ci			
Point #	(X,			X,Y)		Xc, Yc, R		Fs	STATUS
	〔f			[ft]	,	[ft]			
1	-30.10	472.61	28.83	493.98	-17.07	528.61	57.49	1.36	
2	-29.28	472.01	28.83	493.98	-16.32	527.50	56.23	1.36	
3	-29.28	472.98	28.83	493.98	-15.36	523.27	51.98	1.30	
4	-26.98	472.98	28.83	493.98	-15.43	526.91	55.16	1.35	
5	-26.11	473.13	28.83	493.98	-14.66	525.77	53.87	1.34	
6	-25.28	473.30	27.59	493.98	-13.67	521.54	49.61	1.33	
7	-24.36	473.45	27.59	493.98	-12.91	520.47	48.39	1.32	
8	-22.86	473.46	27.59	493.98	-12.70	520.76	48.38	1.31	
9	-21.91	473.60	27.59	493.98	-11.93	519.66	47.12	1.31	
10	-20.94	473.74	27.59	493.98	-11.15	518.56	45.88	1.30	
10	-19.96	473.88	26.35	493.98	-10.20	514.77	42.04	1.30	
12	-18.93	474.00	26.35	493.98	-9.43	513.75	40.87	1.30	OK
13	-18.06	474.22	27.59	493.98	-9.32	516.64	43.31	$\frac{1.30}{1.30}$	OK
13	-17.00	474.53	27.59	493.98	-8.50	515.87	42.21	1.30	
15	-15.82	474.83	26.35	493.98	-7.04	511.48	37.69	1.30	
16	-14.76	475.13	26.35	493.98	-6.24	510.79	36.66	1.30	
17	-13.70	475.44	26.35	493.98	-5.43	510.10	35.64	1.31	
18	-12.64	475.75	26.35	493.98	-4.63	509.42	34.61	1.31	
19	-11.58	476.06	26.35	493.98	-3.82	508.74	33.59	1.32	
20	-10.70	476.42	26.35	493.98	-2.63	507.25	31.88	1.35	
21	-9.63	476.72	26.35	493.98	-1.84	506.61	30.88	1.37	
22	-8.57	477.03	26.35	493.98	-1.04	505.96	29.90	1.39	
23	-7.50	477.33	26.35	493.98	-0.25	505.32	28.91	1.42	
24	-6.53	477.67	26.35	493.98	0.88	504.03	27.38	1.46	
25	-5.39	477.95	27.59	493.98	1.67	505.36	28.30	1.50	
26	-4.29	478.25	27.59	493.98	2.47	504.72	27.32	1.55	
27	-3.17	478.54	27.59	493.98	3.58	503.46	25.81	1.61	
28	-2.39	478.94	26.35	493.98	4.58	500.59	22.75	1.71	
29	-1.18	479.28	32.55	493.98	12.27	494.46	20.28	3.08	
30	-0.33	478.31	28.83	493.98	-1.99	516.38	38.10	1.62	
31	-4.10	478.43	27.59	493.98	3.09	503.84	26.41	1.57	
32	-1.62	479.27	26.35	493.98	8.27	494.40	18.08	2.34	
33	-0.15	479.80	27.59	493.98	-1.15	515.98	36.19	1.60	
34	-0.07	480.57	27.59	493.98	1.82	511.89	31.38	1.73	
35	0.02	481.32	27.59	493.98	3.71	509.63	28.54	1.72	
36	0.11	482.05	27.59	493.98	2.03	515.22	33.23	1.86	
37	0.20	482.80	26.35	493.98	4.49	508.92	26.47	1.81	
38	0.29	483.54	27.59	493.98	5.96	509.63	26.69	1.96	
39	0.37	484.27	26.35	493.98	4.85	511.90	27.99	1.91	
40	0.46	485.01	27.59	493.98	6.39	512.59	28.20	2.05	

Note: In the 'Status' column, OK means the critical circle was identified within the specified search domain. 'On extreme X-exit' means that the critical result is on the edge of the search domain; a lower Fs may result if the search domain is expanded.

## **RESULTS OF TRANSLATIONAL ANALYSIS**



Results in the table below represent critical two-part wedges identified between specified starting (X1) and ending (X2) search points. Wedges along all reinforcement layers and at elevation zero are reported. The critical two-part wedge, one for each predetermined elevation, is defined by Xa, Xb and Xc where Xa is the front end of the passive wedge (slope face), Xb is where the passive wedge ends and the active one starts, and Xc is the X-ordinate at which the active wedge starts.

Critical two-	part wedge along eac	h inter	face:						
Interface	Height Relative to To [ft]	`	, Ya ) [ft]		9, Yb ) [ft]	<b>`</b>	, Yc ) [ft]	Fs	STATUS
At toe elevation	0.00	0.00	478.33	10.83	478.33	32.37	493.98	1.67	OK
. Reinf. Layer #1	0.67	0.05	479.00	11.30	479.00	30.47	493.98	1.53	ОК
Reinf. Layer #2	1.33	0.11	479.66	12.29	479.66	30.62	493.98	1.55	Minimum on Edge
Reinf. Layer #3	2.67	0.21	481.00	12.39	481.00	29.00	493.98	1.59	Minimum on Edge
Reinf. Layer #4	4.00	0.32	482.33	12.49	482.33	27.95	493.98	1.64	Minimum on Edge
Reinf. Layer #5	5.33	0.42	483.66	12.69	483.66	27.43	493.98	1.70	Minimum on Edge
Reinf. Layer #6	6.67	0.53	485.00	12.79	485.00	26.62	493.98	1.76	Minimum on Edge
Reinf. Layer #7	7.33	0.58	485.66	12.79	485.66	26.10	493.98	1.78	Minimum on Edge

Note: In the 'Status' column, OK means the critical two part-wedge was identified within the specified search domain. 'Minimum on Edge' means the critical result corresponds to a minimum on the edge of the search domain; i.e., either on X1 or X2 or the internally preset limits on Xc.

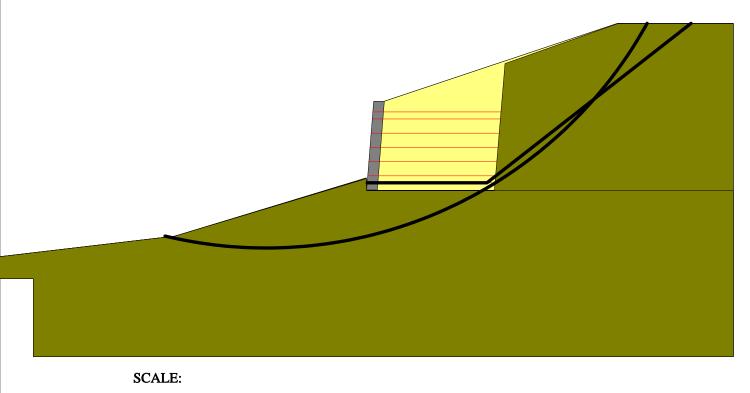
## CRITICAL RESULTS OF ROTATIONAL AND TRANSLATIONAL STABILITY ANALYSES Rotational (Circular Arc; Bishop) Stability Analysis

## Translational (2-Part Wedge; Spencer), Direct Sliding, Stability Analysis

 $\begin{array}{ll} \mbox{Minimum Factor of Safety} = 1.53 \\ \mbox{Critical Two-Part Wedge:} & (Xa = 0.05, Ya = 479.00) [ft] \\ & (Xb = 11.30, Yb = 479.00) [ft] \\ & (Xc = 30.47, Yc = 493.98) [ft] \\ & (Number of slices used = 30) \\ & Interslice resultant force inclination = 26.09 [degrees] \\ \end{array}$ 

**Three-Part Wedge Stability Analysis** 

N O T C O N D U C T E D REINFORCEMENT LAYOUT: DRAWING



0 2 4 6 8 10 [ft]

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R	EINFO	RCEMENT LAYOU	T: TABULA	ATED DAT.	A & QUA	NTITIES	Embedded Length Used in Calculations		Length of S
Layer #	Reinf. Type #	Geosynthetic Designated Name	Height Relative to Toe [ft]	Embedded Length [ft]	Covergae Ratio, Rc	( X, Y ) front [ft]	( X, Y ) rear [ft]	Lsv * [ft]	Lre [ft]
1	1	UX1100MSE	0.67	12.00	1.00	0.05 1569.99	12.05 1569.99	0.00	0.00
2	1	UX1100MSE	1.33	12.00	1.00	0.11 1570.65	12.11 1570.65	0.00	0.00
3	1	UX1100MSE	2.67	12.00	1.00	0.21 1571.99	12.21 1571.99	0.00	0.00
4	1	UX1100MSE	4.00	12.00	1.00	0.32 1573.32	12.32 1573.32	0.00	0.00
5	1	UX1100MSE	5.33	12.00	1.00	0.42 1574.65	12.42 1574.65	0.00	0.00
6	1	UX1100MSE	6.67	12.00	1.00	0.53 1575.99	12.53 1575.99	0.00	0.00
7	1	UX1100MSE	7.33	12.00	1.00	0.58 1576.65	12.58 1576.65	0.00	0.00

\* Vertical distance between layers.

## QUANTITIES

Reinf. Type #	Designated Name	Coverage Ratio	Area of reinforcemnt [ft <sup>2</sup> ] / length of slope [ft]
1	UX1100MSE	1.00	84.00

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Project: 20ERS150 - Dino DeLaurentis Residence [Rev. 1] North Castle, NY

Section		#26 at Station 44.25
<b>Report Date</b>		November 13, 2020
Designer		NT
<b>Design Stan</b>	dard	National Concrete Masonry Association 3rd Edition
Design		Static and Seismic
Unit of Meas	sure	U.S./Imperial
Sele/Licenso	r/Product Li	ne: User defined
Name:	MESA (	STD. PRIVATE)
Seismic As	0.15	Default Deflection of 2.00 inch

Soil Parameters		In Situ					
		Friction	Density	Cohesion Cf			
Soil Zone	Soil Type	Angle	[lb/ft³]	[lb/ft <sup>2</sup> ]			
Infill (i)	SM	30°	125.00	n/a			
Retained (r)	SM	30°	125.00	n/a			
Foundation (f)	SM	30°	125.00	0.00			
Base (b)	GW	36°	140.02	n/a			
Drainage (d)	GP	38°	105.00	n/a			

#### Section Details

Section Height	8.33	Back Slope	18.40°	LL Surcharge	100	DL Surcharge	500
Design Height	8.33 ft	Crest Offset	18.00 ft	LL Offset	0.00 ft	DL Offset	18.00 ft
Embedment	1.14 ft	Wall Batter	4.50°	Toe Slope	0.00°	Toe Offset	0.00 ft

#### **Minimum Factors of Safety**

Reinforce	d							
External		Value	Internal		Value	Facing		Value
FSsl	Base Sliding	1.50	FSsl	Internal Sliding	1.50	FScs	Connection Strength	1.50
FSbc	Bearing Capacity	2.00	FSpo	Pullout	1.50	FSsc	Facing Shear	1.50
FSct	Crest Toppling	1.50	FSto	Tensile Overstress	1.50		-	
FSot	Overturning	2.00						

#### Seismic

Reinforce	ed							
External		Value	Internal		Value	Facing		Value
FSsl	Base Sliding	1.10	FSsl	Internal Sliding	1.10	FScs	Connection Strength	1.10
FSbc	Bearing Capacity	1.50	FSpo	Pullout	1.10	FSsc	Facing Shear	1.10
FSct	Crest Toppling	1.10	FSto	Tensile Overstress	1.10			
FSot	Overturning	1.50						

## Reinforcements

UXMSE - UX	1100MSE	Supplier: Ter	nsar International C	orporation,	Fill Type: Sands		
Tult	3,971.52 lb/ft	RFcr	2.56	RFd	1.00	LTDS	1,436.46 lb/ft
RFid	1.08	Cds	0.80	Ci	0.80		
Connection	/Shear Properties						
cs1	1,253.00 lb/ft	IP-1	0.00 lb/ft	cs2	1,253.00 lb/ft	IP-2	6,502.00 lb/ft
cs max	1,253.00 lb/ft	au	705.00 lb/ft	u	33.00 lb/ft	Vu(max)	1,927.00 lb/ft

## **Analysis Results**

\* Analysis includes Vertical Forces

\* Uses Live and Dead Load Reduction due to Offset

\* Uses External Horiz. Accel Coeff in Seismic Crest Toppling

\* Embedment is not included in Bearing Capacity

External Static	FS			
Bearing Capacity	11.44	Bearing Pressure	1468.37	lb/ft <sup>2</sup>
Overturning	9.61	Max Eccentricity	0.00	ft
Base Sliding	3.31			
Crest Toppling	2.36			
Internal Sliding	3.07			
External Seismic	FS			
Bearing Capacity	12.27	Bearing Pressure	1368.98	lb/ft <sup>2</sup>
Overturning	9.36	Max Eccentricity	0.00	ft



External Seismic	FS
Base Sliding	3.16
Crest Toppling	3.05
Internal Sliding	2.94

				Internal		Tensile
Internal Static				Sliding	Pullout	Overstress
Layer	Elevation [ft]	Rein.	Length [ft]	FS	FS	FS
7	483.00	UXMSE	12.00	5.18	27.19	17.26
6	482.33	UXMSE	12.00	4.88	25.58	12.81
5	481.00	UXMSE	12.00	4.33	19.87	6.66
4	479.67	UXMSE	12.00	3.88	20.53	4.93
3	478.33	UXMSE	12.00	3.51	21.68	3.91
2	477.00	UXMSE	12.00	3.20	31.43	4.42
1	476.33	UXMSE	12.00	3.07	31.14	3.91

				Internal		Tensile
Internal Seismic				Sliding	Pullout	Overstress
Layer	Elevation [ft]	Rein.	Length [ft]	FS	FS	FS
7	483.00	UXMSE	12.00	5.79	6.16	10.01
6	482.33	UXMSE	12.00	5.23	8.82	11.31
5	481.00	UXMSE	12.00	4.41	8.58	7.36
4	479.67	UXMSE	12.00	3.84	10.40	6.39
3	478.33	UXMSE	12.00	3.42	12.22	5.65
2	477.00	UXMSE	12.00	3.08	18.98	6.84
1	476.33	UXMSE	12.00	2.94	19.71	6.33

<b>-</b> · · · · ·				Connection
Facing Static				Strength
Layer	Elevation [ft]	Rein.	Length [ft]	FS
7	483.00	UXMSE	12.00	15.05
6	482.33	UXMSE	12.00	11.18
5	481.00	UXMSE	12.00	5.81
4	479.67	UXMSE	12.00	4.30
3	478.33	UXMSE	12.00	3.41
2	477.00	UXMSE	12.00	3.86
1	476.33	UXMSE	12.00	3.41

Facing Seismic Layer	Elevation [ft]	Rein.	Length [ft]	Connection Strength FS
7	483.00	UXMSE	12.00	3.41
6	482.33	UXMSE	12.00	3.85
5	481.00	UXMSE	12.00	2.51
4	479.67	UXMSE	12.00	2.18
3	478.33	UXMSE	12.00	1.92
2	477.00	UXMSE	12.00	2.33
1	476.33	UXMSE	12.00	2.16

#### Internal Compound Stability 10 Lowest Static

To Lonoor orano				
Radius Point	Entry Point	Exit Point	Result	Status
1	10	3	2.80	Pass
1	10	5	3.03	Pass
1	10	2	3.04	Pass
1	10	1	3.05	Pass
1	10	4	3.29	Pass
1	10	7	3.40	Pass
1	10	6	3.65	Pass
1	10	9	3.70	Pass
1	10	11	3.92	Pass
1	10	8	4.29	Pass
10 Lowest Seism	ic			
1	10	1	2.09	Pass
1	10	3	2.14	Pass

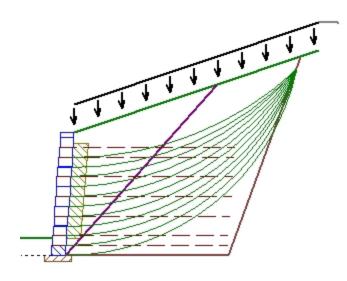


## Project: 20ERS150 - Dino DeLaurentis Residence [Rev. 1] North Castle, NY

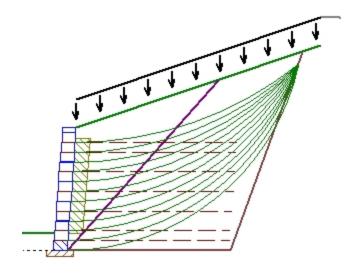
1	10	2	2.19	Pass
1	10	5	2.34	Pass
1	10	4	2.41	Pass
1	10	12	2.53	Pass
1	10	6	2.73	Pass
1	10	7	2.83	Pass
1	10	9	3.29	Pass
1	10	8	3.39	Pass

# **Section 26 Details**

## Section 26 Static ICS Cross-section



## Section 26 Seismic ICS Cross-section



- \* Analysis includes Vertical Forces
- \* Uses Live and Dead Load Reduction due to Offset
- \* Uses External Horiz. Accel Coeff in Seismic Crest Toppling
- \* Embedment is not included in Bearing Capacity



# Dino DeLaurentis Residence

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## PROJECT IDENTIFICATION

Title:Dino DeLaurentis ResidenceProject Number:20ERS150 -Client:ERSDesigner:NT

#### Description:

WALL 1 - PANEL 26

#### Company's information:

Name:	ERS Materials, LLC
Street:	116 Edwards Ferry Road NE
	Unit S
	Leesburg, VA 20176

Telephone #: Fax #: E-Mail:

Original file path and name:V:\2020\20 ..... tle, NY\Calculations\Ressa\ReSSA\_WALL1\_PANEL26.MSEOriginal date and time of creating this file:Thu Nov 12 11:06:25 2020

**PROGRAM MODE:** Analysis of a General Slope using GEOSYNTHETIC as reinforcing material.

## INPUT DATA (EXCLUDING REINFORCEMENT LAYOUT)

## SOIL DATA

======================================	Unit weight, γ [lb/ft <sup>3</sup> ]	Internal angle of friction, $\phi$ [deg.]	Cohesion, c [lb/ft <sup>2</sup> ]
1 Block Face	130.0	0.0	500.0
.2 Reinforced Fill	125.0	30.0	0.0
.3 Retained Soil	125.0	30.0	0.0
4 Foundation Soil	125.0	30.0	0.0

#### REINFORCEMENT

Reinf	orcement	Ultimate Strength,	Reduction Factor for	Reduction Factor for	Reduction Factor for	Additional Reduction	Coverage Ratio,
Type #	Geosynthetic Designated Name	Tult [lb/ft]	Installation Damage, RFid	Durability,	Creep, RFc	Factor, RFa	Rc
1 UX	1100MSE	3971.52	1.08	1.00	2.56	1.00	1.00
Intera	ction Parameters	== Direct S	liding ==	=====	Pullout ====	=	
Type #	Geosynthetic Designated Name	Cds-phi	Cds-c	Ci		Alpha	
1 UX	1100MSE	0.80	0.00	0.80		0.80	

Relative Orientation of Reinforcement Force, ROR = 1.00. Assigned Factor of Safety to resist pullout, Fs-po = 1.50 Design method for Global Stability: AASHTO/FHWA Bishop.

#### WATER

Water is not present

## SEISMICITY

Not Applicable

## DRAWING OF SPECIFIED GEOMETRY - GENERAL - Quick Input

-- Problem geometry is defined along sections selected by user at x,y coordinates.

-- X1,Y1 represents the coordinates of soil surface. X2,Y2 represent the coordinates of the end of soil layer 1 and start of soil layer 2, and so on.

## GEOMETRY

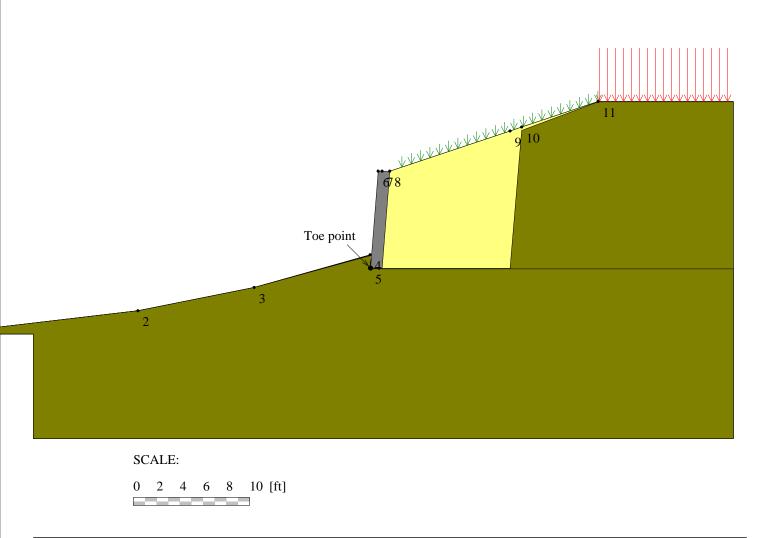
Soil profile contains 4 layers (see details in next page)

#### UNIFORM SURCHARGE

Load Q1 = 100.00 [lb/ft<sup>2</sup>] inclined from verical at 0.00 degrees, starts at X1s = 2.70 and ends at X1e = 19.70 [ft]. Load Q2 = 500.00 [lb/ft<sup>2</sup>] inclined from verical at 0.00 degrees, starts at X2s = 19.70 and ends at X2e = 100.00 [ft]. Surcharge load, Q3.....None

STRIP LOAD

.....None.....



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## TABULATED DETAILS OF GEMERAL SPECIFIED GEOMETRY

Soil profile contains 4 layers. Coordinates in [ft.]

	#	Xi	Yi
Top of Layer 1	1	-37.00	470.00
	2	-20.00	472.00
	3	-10.00	474.00
	4	-0.03	476.81
	5	0.00	475.67
	6	0.66	484.00
	7	1.66	484.00
	8	19.57	489.99
Top of Layer 2	9	-37.00	470.00
	10	-20.00	472.00
	11	-10.00	474.00
	12	-0.03	476.81
	13	0.00	475.67
	14	1.00	475.67
	15	1.66	484.00
	16	19.57	489.99
Top of Layer 3	17	-37.00	470.00
	18	-20.00	472.00
	19	-10.00	474.00
	20	-0.03	476.78
	21	0.00	475.64
	22	12.00	475.64
	23	13.00	487.50
	24	19.57	489.96
Top of Layer 4	25	-37.00	470.00
	26	-20.00	472.00
	27	-10.00	474.00
	28	-0.03	476.74
	29	0.00	475.60

Ve

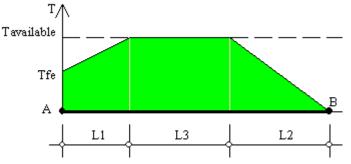
## TABULATED DETAILS OF SPECIFIED GEOMETRY

Soil profile contains 4 layers. Coordinates in [ft.]

#	Х	Y1	Y2	Y3	Y4
1	-37.00	470.00	470.00	470.00	470.00
2	-20.00	472.00	472.00	472.00	472.00
3	-10.00	474.00	474.00	474.00	474.00
4	-0.03	476.81	476.81	476.78	476.74
5	0.00	475.67	475.67	475.64	475.60
6	0.66	484.00	475.67	475.64	475.60
7	1.00	484.00	475.67	475.64	475.60
8	1.66	484.00	484.00	475.64	475.60
9	12.00	487.46	487.46	475.64	475.60
10	13.00	487.79	487.79	487.50	475.60
11	19.57	489.99	489.99	489.96	475.60

Ve

## DISTRIBUTION OF AVAILABLE STRENGTH ALONG EACH REINFORCEMENT LAYER



 $\begin{aligned} A &= \text{Front-end of reinforcement (at face of slope)} \\ B &= \text{Rear-end of reinforcement} \\ AB &= L1 + L2 + L3 = \text{Embedded length of reinforcement} \end{aligned}$ 

Tavailable = Long-term strength of reinforcement Tfe = Available front-end strength (e.g., connection to facing)

L1 = Front-end 'pullout' length L2 = Rear-end pullout length Tavailable prevails along L3

Factor of safety on resistance to pullout on either end of reinforcement, Fs-po = 1.50

Reinforcement Layer #	Designated Name	Height Relative to Toe [ft]	L [ft]	L1 [ft]	L2 [ft]	L3 [ft]	Tfe [lb/ft]	Tavailable [lb/ft]
1	UX1100MSE	0.67	12.00	0.46	2.20	9.34	1249.72	1436.46
2	UX1100MSE	1.33	12.00	0.46	2.33	9.21	1249.72	1436.46
3	UX1100MSE	2.67	12.00	0.46	2.69	8.85	1249.72	1436.46
4	UX1100MSE	4.00	12.00	0.46	3.18	8.36	1249.72	1436.46
5	UX1100MSE	5.33	12.00	0.46	3.94	7.60	1249.72	1436.46
6	UX1100MSE	6.67	12.00	0.46	5.31	6.23	1249.72	1436.46

### **RESULTS OF ROTATIONAL STABILITY ANALYSIS**

Results in the tables below represent critical circles identified between specified points on entry and exit. (Theta-exit set to 50.00 deg.) The most critical circle is obtained from a search considering all the combinations of input entry and exit points.

Entry	Entry	Point		Point		ical Ci		Fs		
Point #	(X,Y)		( )	X,Y)	( )	( Xc , Yc , R )			STATUS	
	[f	t]		[ft]		[ft]				
1	6.00	485.46	-13.61	473.39	-7.52	485.47	13.52	3.03		
2	7.18	485.86	-14.72	473.24	-7.41	485.86	14.59	2.74		
3	8.35	486.24	-13.47	473.32	-6.64	486.67	14.99	2.54		
4	9.52	486.63	-13.69	473.43	-6.44	487.68	15.99	2.37		
5	10.69	487.02	-13.63	473.40	-6.25	488.75	17.03	2.22		
6	11.86	487.41	-12.70	473.68	-4.48	487.82	16.35	2.07		
7	13.04	487.81	-12.66	473.67	-3.76	487.92	16.80	1.91		
8	14.21	488.20	-12.63	473.65	-3.19	488.27	17.40	1.76		
9	15.38	488.60	-12.60	473.64	-2.61	488.61	17.99	1.63		
10	16.55	488.98	-12.56	473.61	-2.38	489.58	18.94	1.55		
11	17.73	489.37	-13.65	473.43	-3.03	491.36	20.85	1.49		
12	18.90	489.77	-13.60	473.39	-3.26	493.30	22.44	1.45		
13	20.07	489.99	-13.56	473.36	-3.57	495.49	24.28	1.40		
14	21.24	489.99	-13.52	473.34	-3.97	498.01	26.46	1.36		
15	22.42	489.99	-14.56	473.13	-4.90	500.93	29.43	1.33		
16	23.59	489.99	-14.51	473.11	-4.85	502.75	31.17	1.31		
17	24.76	489.99	-15.95	473.03	-5.57	505.45	34.04	1.30		
18	25.93	489.99	-15.90	473.00	-5.97	508.54	36.90	1.30 .	OK	
19	27.10	489.99	-15.86	472.98	-6.48	512.05	40.18	1.31		
20	28.28	489.99	-16.81	472.74	-7.41	515.72	43.99	1.32		
21	29.45	489.99	-17.72	472.51	-8.98	521.30	49.57	1.34		
22	30.62	489.99	-19.06	472.35	-10.12	525.95	54.34	1.36		
23	31.79	489.99	-19.85	472.10	-11.36	531.07	59.59	1.38		
24	32.97	489.99	-21.03	471.96	-12.71	536.92	65.48	1.41		
25	34.14	489.99	-21.98	471.82	-14.19	543.51	72.11	1.44		
26	35.31	489.99	-21.03	471.95	-14.10	547.29	75.66	1.47		
27	36.48	489.99	-21.03	471.94	-14.99	553.37	81.65	1.50		
28	37.66	489.99	-21.95	471.81	-15.69	558.10	86.51	1.54		
29	38.83	489.99	-24.36	471.59	-18.65	569.66	98.24	1.58		
30	40.00	489.99	-25.18	471.46	-17.94	569.89	98.70	1.61		

Note: In the 'Status' column, OK means the critical circle was identified within the specified search domain. 'On extreme X-entry' means that the critical result is on the edge of the search domain; a lower Fs may result if the search domain is expanded.

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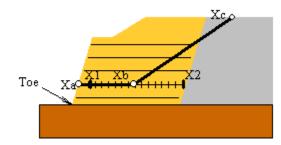
### **RESULTS OF ROTATIONAL STABILITY ANALYSIS**

Results in the tables below represent critical circles identified between specified points on entry and exit. (Theta-exit set to 50.00 deg.) The most critical circle is obtained from a search considering all the combinations of input entry and exit points.

Exit	Exit		Ent	<b>onsidering all</b> y Point		ical Ci			
Point #	(X,			Х, Y)		Xc , Yc , R		Fs	STATUS
	<b>[</b> f			[ft]	,	[ft]			
1	-30.52	470.96	28.28	489.99	-16.08	526.67	57.55	1.40	
2	-29.05	470.97	28.28	489.99	-15.35	525.56	56.29	1.39	
3	-28.19	471.13	28.28	489.99	-14.62	524.46	55.03	1.39	
4	-27.36	471.32	27.10	489.99	-13.73	520.32	50.87	1.30	
5	-25.87	471.31	27.10	489.99	-13.01	519.29	49.67	1.35	
6	-24.95	471.46	27.10	489.99	-12.28	518.26	48.48	1.35	
7	-24.00	471.61	27.10	489.99	-12.06	518.63	48.51	1.34	
8	-23.03	471.75	27.10	489.99	-11.32	517.56	47.29	1.33	
9	-22.05	471.88	27.10	489.99	-10.58	516.50	46.08	1.32	
10	-21.03	472.01	25.93	489.99	-9.73	512.82	42.34	1.32	
11	-19.82	472.11	25.93	489.99	-8.99	511.88	41.21	1.32	
12	-18.87	472.34	25.93	489.99	-8.23	511.00	40.13	1.31	
13	-17.90	472.57	25.93	489.99	-7.48	510.20	39.05	1.30	
14	-16.92	472.79	25.93	489.99	-6.72	509.37	37.97	1.30	
15	-15.90	473.00	25.93	489.99	-5.97	508.54	36.90	1.30 .	OK
16	-14.87	473.21	25.93	489.99	-5.21	507.71	35.83	1.30	•
17	-13.85	473.43	24.76	489.99	-4.43	504.76	32.71	1.31	
18	-12.76	473.62	24.76	489.99	-3.68	503.98	31.69	1.31	
19	-11.65	473.80	24.76	489.99	-2.92	503.22	30.68	1.31	
20	-10.52	473.98	24.76	489.99	-2.17	502.45	29.67	1.33	
21	-9.38	474.21	25.93	489.99	-1.75	504.53	31.27	1.34	
22	-8.55	474.57	24.76	489.99	-0.63	501.15	27.73	1.36	
23	-7.32	474.80	25.93	489.99	0.16	502.41	28.61	1.39	
24	-6.26	475.08	25.93	489.99	0.94	501.75	27.62	1.42	
25	-5.53	475.46	25.93	489.99	2.02	500.45	26.10	1.45	
26	-4.40	475.73	25.93	489.99	2.79	499.82	25.14	1.50	
27	-3.22	475.98	27.10	489.99	3.61	501.01	25.95	1.56	
28	-2.12	476.25	24.76	489.99	4.74	496.00	20.91	1.66	
29	-1.21	476.69	29.45	489.99	11.19	490.10	18.26	2.86	
30	-0.03	475.67	25.93	489.99	-2.45	510.75	35.17	1.57	
31	-4.31	475.74	25.93	489.99	2.84	499.78	25.08	1.51	
32	-1.74	476.46	23.59	489.99	6.31	491.86	17.38	1.93	
33	-0.16	477.07	25.93	489.99	-1.10	511.77	34.72	1.53	
34	-0.08	477.79	25.93	489.99	1.25	508.78	31.02	1.64	
35	0.00	478.50	25.93	489.99	2.75	507.32	28.95	1.62	
36	0.09	479.23	25.93	489.99	5.34	503.02	24.36	1.74	
37	0.17	479.91	24.76	489.99	3.61	506.56	26.87	1.68	
38	0.26	480.62	24.76	489.99	5.63	503.30	23.30	1.81	
39	0.34	481.31	24.76	489.99	4.31	508.82	27.80	1.76	
40	0.42	482.02	23.59	489.99	5.91	503.71	22.37	1.87	

Note: In the 'Status' column, OK means the critical circle was identified within the specified search domain. 'On extreme X-exit' means that the critical result is on the edge of the search domain; a lower Fs may result if the search domain is expanded.

### **RESULTS OF TRANSLATIONAL ANALYSIS**



Results in the table below represent critical two-part wedges identified between specified starting (X1) and ending (X2) search points. Wedges along all reinforcement layers and at elevation zero are reported. The critical two-part wedge, one for each predetermined elevation, is defined by Xa, Xb and Xc where Xa is the front end of the passive wedge (slope face), Xb is where the passive wedge ends and the active one starts, and Xc is the X-ordinate at which the active wedge starts.

Critical two-part wedge along each interface:												
Interface	Height Relative to T [ft]	ight Relative to Toe (Xa, Ya) [ft] [ft]		( Xb, Yb ) [ft]		( Xc, Yc ) [ft]		Fs	STATUS			
At toe elevation	0.00	0.00	475.67	10.83	475.67	29.84	489.99	1.63	OK			
. Reinf. Layer #1	0.67	0.05	476.34	11.30	476.34	28.16	489.99	1.49	ОК			
Reinf. Layer #2	1.33	0.11	477.00	12.29	477.00	28.33	489.99	1.51	Minimum on Edge			
Reinf. Layer #3	2.67	0.21	478.34	12.39	478.34	26.78	489.99	1.54	Minimum on Edge			
Reinf. Layer #4	4.00	0.32	479.67	12.49	479.67	25.70	489.99	1.58	Minimum on Edge			
Reinf. Layer #5	5.33	0.42	481.00	12.69	481.00	25.06	489.99	1.63	Minimum on Edge			
Reinf. Layer #6	6.67	0.53	482.34	12.79	482.34	23.72	489.99	1.68	Minimum on Edge			

Note: In the 'Status' column, OK means the critical two part-wedge was identified within the specified search domain. 'Minimum on Edge' means the critical result corresponds to a minimum on the edge of the search domain; i.e., either on X1 or X2 or the internally preset limits on Xc.

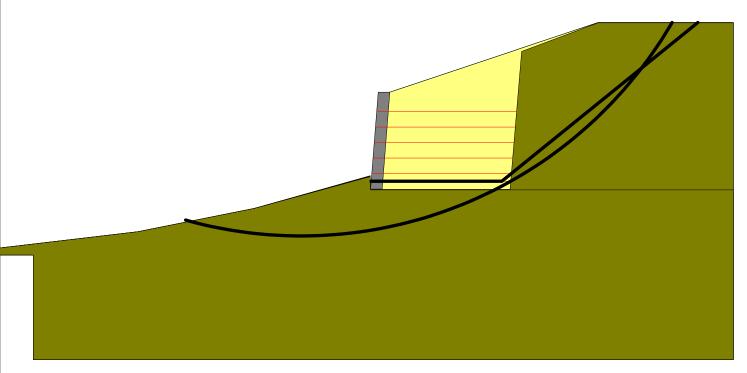
### CRITICAL RESULTS OF ROTATIONAL AND TRANSLATIONAL STABILITY ANALYSES Rotational (Circular Arc; Bishop) Stability Analysis

### Translational (2-Part Wedge; Spencer), Direct Sliding, Stability Analysis

 $\begin{array}{ll} \mbox{Minimum Factor of Safety} = 1.49 \\ \mbox{Critical Two-Part Wedge:} & (Xa = 0.05, Ya = 476.34) \ [ft] \\ & (Xb = 11.30, Yb = 476.34) \ [ft] \\ & (Xc = 28.16, Yc = 489.99) \ [ft] \\ & (Number of slices used = 30) \\ & Interslice \ resultant \ force \ inclination = 26.52 \ [degrees] \\ \end{array}$ 

**Three-Part Wedge Stability Analysis** 

N O T C O N D U C T E D REINFORCEMENT LAYOUT: DRAWING



### SCALE:

0 2 4 6 8 10 [ft]

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R	EINFOF	RCEMENT LAYOU	T: TABULA	ATED DAT.	A & QUA	NTITIES			dded Length n Calculations		Length of S
Layer #	Reinf. Type #	Geosynthetic Designated Name	Height Relative to Toe [ft]	Embedded Length [ft]	Covergae Ratio, Rc	( X, Y ) [ft]	front	( X, Y [ft	) rear ]	Lsv * [ft]	Lre [ft]
1	1	UX1100MSE	0.67	12.00	1.00	0.05	1561.27	12.05	1561.27	0.00	0.00
2	1	UX1100MSE	1.33	12.00	1.00	0.11	1561.93	12.11	1561.93	0.00	0.00
3	1	UX1100MSE	2.67	12.00	1.00	0.21	1563.27	12.21	1563.27	0.00	0.00
4	1	UX1100MSE	4.00	12.00	1.00	0.32	1564.60	12.32	1564.60	0.00	0.00
5	1	UX1100MSE	5.33	12.00	1.00	0.42	1565.93	12.42	1565.93	0.00	0.00
6	1	UX1100MSE	6.67	12.00	1.00	0.53	1567.27	12.53	1567.27	0.00	0.00

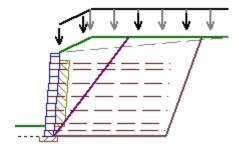
# QUANTITIES

\* Vertical distance between layers.

Rein	nf. Type #	Designated Name	Coverage Ratio	Area of reinforcemnt [ft <sup>2</sup> ] / length of slope [ft]	
	1	UX1100MSE	1.00	72.00	

Ve

Section		#38 at Station 65.25					
<b>Report Date</b>		November 13, 2020					
Designer		NT					
<b>Design Stan</b>	dard	National Concrete Masonry Association 3rd Edition					
Design		Static and Seismic					
Unit of Meas	sure	U.S./Imperial					
Sele Licenso	r/Product Lin	e: User defined					
Name:	MESA (S	TD. PRIVATE)					
Seismic As	0.15	Default Deflection of 2.00 inch					



Soil Parameters		In Situ							
		Friction	Density	Cohesion Cf					
Soil Zone	Soil Type	Angle	[lb/ft³]	[lb/ft <sup>2</sup> ]					
Infill (i)	SM	30°	125.00	n/a					
Retained (r)	SM	30°	125.00	n/a					
Foundation (f)	SM	30°	125.00	0.00					
Base (b)	GW	36°	140.02	n/a					
Drainage (d)	GP	38°	105.00	n/a					

#### Section Details

Section Height	8.33	Back Slope	26.60°	LL Surcharge	100	DL Surcharge	800
Design Height	8.33 ft	Crest Offset	3.00 ft	LL Offset	0.00 ft	DL Offset	3.00 ft
Embedment	1.04 ft	Wall Batter	4.50°	Toe Slope	0.00°	Toe Offset	0.00 ft

#### **Minimum Factors of Safety**

Reinforce	d							
External		Value	Internal		Value	Facing		Value
FSsl	Base Sliding	1.50	FSsl	Internal Sliding	1.50	FScs	Connection Strength	1.50
FSbc	Bearing Capacity	2.00	FSpo	Pullout	1.50	FSsc	Facing Shear	1.50
FSct	Crest Toppling	1.50	FSto	Tensile Overstress	1.50		-	
FSot	Overturning	2.00						

#### Seismic

Reinforc	ed							
External		Value	Internal		Value	Facing		Value
FSsl	Base Sliding	1.10	FSsl	Internal Sliding	1.10	FScs	Connection Strength	1.10
FSbc	Bearing Capacity	1.50	FSpo	Pullout	1.10	FSsc	Facing Shear	1.10
FSct	Crest Toppling	1.10	FSto	Tensile Overstress	1.10			
FSot	Overturning	1.50						

### Reinforcements

UXMSE - UX	1100MSE	Supplier: Ter	nsar International C	orporation,	Fill Type: Sands		
Tult	3,971.52 lb/ft	RFcr	2.56	RFd	1.00	LTDS	1,436.46 lb/ft
RFid	1.08	Cds	0.80	Ci	0.80		
Connection	/Shear Properties						
cs1	1,253.00 lb/ft	IP-1	0.00 lb/ft	cs2	1,253.00 lb/ft	IP-2	6,502.00 lb/ft
cs max	1,253.00 lb/ft	au	705.00 lb/ft	u	33.00 lb/ft	Vu(max)	1,927.00 lb/ft

#### **Analysis Results**

\* Analysis includes Vertical Forces

\* Uses Live and Dead Load Reduction due to Offset

\* Uses External Horiz. Accel Coeff in Seismic Crest Toppling

FS		
8.51	Bearing Pressure	1973.76 lb/ft <sup>2</sup>
11.22	Max Eccentricity	0.00 ft
3.65		
1.82		
3.32		
FS		
8.96	Bearing Pressure	1875.33 lb/ft <sup>2</sup>
10.84	Max Eccentricity	0.00 ft
	8.51 11.22 3.65 1.82 3.32 <b>FS</b> 8.96	8.51Bearing Pressure11.22Max Eccentricity3.651.823.32FS8.96Bearing Pressure



External Seismic	FS
Base Sliding	3.52
Crest Toppling	2.48
Internal Sliding	3.20

				Internal		Tensile
Internal Static				Sliding	Pullout	Overstress
Layer	Elevation [ft]	Rein.	Length [ft]	FS	FS	FS
7	479.00	UXMSE	12.00	8.59	94.80	21.52
6	478.33	UXMSE	12.00	7.15	65.17	12.83
5	477.00	UXMSE	12.00	5.49	20.34	3.10
4	475.67	UXMSE	12.00	4.56	22.60	2.74
3	474.33	UXMSE	12.00	3.94	24.86	2.45
2	473.00	UXMSE	12.00	3.50	36.60	3.00
1	472.33	UXMSE	12.00	3.32	37.27	2.80

				Internal		Tensile
Internal Seismic				Sliding	Pullout	Overstress
Layer	Elevation [ft]	Rein.	Length [ft]	FS	FS	FS
7	479.00	UXMSE	12.00	8.63	36.38	21.14
6	478.33	UXMSE	12.00	7.10	37.93	19.12
5	477.00	UXMSE	12.00	5.39	16.52	6.44
4	475.67	UXMSE	12.00	4.44	18.77	5.82
3	474.33	UXMSE	12.00	3.82	21.02	5.31
2	473.00	UXMSE	12.00	3.38	31.34	6.57
1	472.33	UXMSE	12.00	3.20	32.22	6.20

Facing Static				Connection Strength
Layer	Elevation [ft]	Rein.	Length [ft]	FS
7	479.00	UXMSE	12.00	18.78
6	478.33	UXMSE	12.00	11.19
5	477.00	UXMSE	12.00	2.70
4	475.67	UXMSE	12.00	2.39
3	474.33	UXMSE	12.00	2.14
2	473.00	UXMSE	12.00	2.62
1	472.33	UXMSE	12.00	2.44

Facing Seismic				Connection Strength
Layer	Elevation [ft]	Rein.	Length [ft]	FS
7	479.00	UXMSE	12.00	7.20
6	478.33	UXMSE	12.00	6.51
5	477.00	UXMSE	12.00	2.19
4	475.67	UXMSE	12.00	1.98
3	474.33	UXMSE	12.00	1.81
2	473.00	UXMSE	12.00	2.24
1	472.33	UXMSE	12.00	2.11

#### Internal Compound Stability 10 Lowest Static

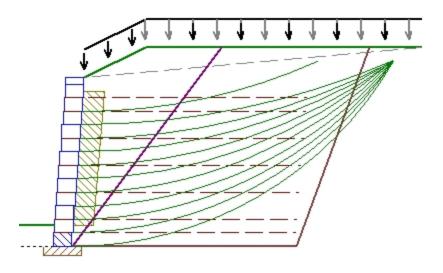
Radius Point	Entry Point	Exit Point	Result	Status
1	10	3	2.13	Pass
1	10	2	2.24	Pass
1	10	1	2.25	Pass
1	10	5	2.33	Pass
1	10	4	2.39	Pass
1	10	7	2.55	Pass
1	10	6	2.68	Pass
1	10	9	2.99	Pass
1	10	8	3.11	Pass
1	1	11	4.26	Pass Pass Pass Pass Pass Pass Pass Pass
) Lowest Seism	nic			
1	10	1	1.71	Pass
4	10	3	1.74	Pass

6	10	2	1.75	Pass
1	10	4	1.90	Pass
6	8	5	1.90	Pass
2	8	6	2.11	Pass
1	9	7	2.12	Pass
1	10	8	2.51	Pass
1	1	9	2.61	Pass
1	1	10	3.09	Pass

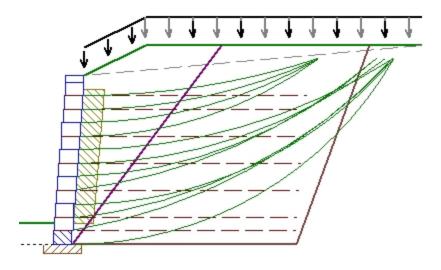


# Section 38 Details

### Section 38 Static ICS Cross-section



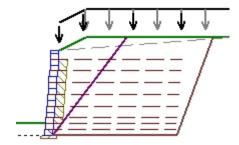
### Section 38 Seismic ICS Cross-section



- \* Analysis includes Vertical Forces
- \* Uses Live and Dead Load Reduction due to Offset
- \* Uses External Horiz. Accel Coeff in Seismic Crest Toppling
- \* Embedment is not included in Bearing Capacity



Section		#53 at Station 90.00
Report Date		November 13, 2020
Designer		NT
Design Stan	dard	National Concrete Masonry Association 3rd Edition
Design		Static and Seismic
Unit of Meas	sure	U.S./Imperial
Sele Licenso	r/Product Lin	e: User defined
Name:	MESA (S	TD. PRIVATE)
Seismic As	0.15	Default Deflection of 2.00 inch



Soil Parameters		In Situ					
		Friction	Density	Cohesion Cf			
Soil Zone	Soil Type	Angle	[lb/ft³]	[lb/ft²]			
Infill (i)	SM	30°	125.00	n/a			
Retained (r)	SM	30°	125.00	n/a			
Foundation (f)	SM	30°	125.00	0.00			
Base (b)	GW	36°	140.02	n/a			
Drainage (d)	GP	38°	105.00	n/a			

#### Section Details

Section Height	9.67	Back Slope	26.60°	LL Surcharge	100	DL Surcharge	1,100
Design Height	9.67 ft	Crest Offset	3.00 ft	LL Offset	0.00 ft	DL Offset	3.00 ft
Embedment	1.35 ft	Wall Batter	4.50°	Toe Slope	0.00°	Toe Offset	0.00 ft

#### **Minimum Factors of Safety**

Reinforce	d							
External		Value	Internal		Value	Facing		Value
FSsl	Base Sliding	1.50	FSsl	Internal Sliding	1.50	FScs	Connection Strength	1.50
FSbc	Bearing Capacity	2.00	FSpo	Pullout	1.50	FSsc	Facing Shear	1.50
FSct	Crest Toppling	1.50	FSto	Tensile Overstress	1.50		-	
FSot	Overturning	2.00						

#### Seismic

Reinforce	ed							
External		Value	Internal		Value	Facing		Value
FSsl	Base Sliding	1.10	FSsl	Internal Sliding	1.10	FScs	Connection Strength	1.10
FSbc	Bearing Capacity	1.50	FSpo	Pullout	1.10	FSsc	Facing Shear	1.10
FSct	Crest Toppling	1.10	FSto	Tensile Overstress	1.10			
FSot	Overturning	1.50						

#### Reinforcements

UXMSE - UX	1100MSE	Supplier: Ter	sar International C	orporation,	Fill Type: Sands		
Tult	3,971.52 lb/ft	RFcr	2.56	RFd	1.00	LTDS	1,436.46 lb/ft
RFid	1.08	Cds	0.80	Ci	0.80		
Connection	/Shear Properties						
cs1	1,253.00 lb/ft	IP-1	0.00 lb/ft	cs2	1,253.00 lb/ft	IP-2	6,502.00 lb/ft
cs max	1,253.00 lb/ft	au	705.00 lb/ft	u	33.00 lb/ft	Vu(max)	1,927.00 lb/ft

#### **Analysis Results**

\* Analysis includes Vertical Forces

\* Uses Live and Dead Load Reduction due to Offset

\* Uses External Horiz. Accel Coeff in Seismic Crest Toppling

External Static	FS			
Bearing Capacity	8.60	Bearing Pressure	2443.33	lb/ft <sup>2</sup>
Overturning	13.20	Max Eccentricity	0.00	ft
Base Sliding	4.01			
Crest Toppling	1.82			
Internal Sliding	3.54			
External Seismic	FS			
Bearing Capacity	8.96	Bearing Pressure	2344.56	lb/ft <sup>2</sup>
Overturning	12.63	Max Eccentricity	0.00	ft



External Seismic	FS
Base Sliding	3.84
Crest Toppling	2.48
Internal Sliding	3.39

Internal Static				Internal Sliding	Pullout	Tensile Overstress
Layer	Elevation [ft]	Rein.	Length [ft]	FS	FS	FS
8	474.33	UXMSE	15.00	10.56	103.88	13.77
7	473.00	UXMSE	15.00	7.47	24.92	2.67
6	471.67	UXMSE	15.00	5.93	27.17	2.40
5	470.33	UXMSE	15.00	5.00	29.44	2.18
4	469.00	UXMSE	15.00	4.36	31.70	2.00
3	467.67	UXMSE	15.00	3.89	45.74	2.48
2	467.00	UXMSE	15.00	3.70	70.21	3.55
1	466.33	UXMSE	15.00	3.54	47.89	2.26

				Internal		Tensile
Internal Seismic				Sliding	Pullout	Overstress
Layer	Elevation [ft]	Rein.	Length [ft]	FS	FS	FS
8	474.33	UXMSE	15.00	10.45	42.05	14.27
7	473.00	UXMSE	15.00	7.29	20.29	5.56
6	471.67	UXMSE	15.00	5.75	22.55	5.10
5	470.33	UXMSE	15.00	4.82	24.81	4.71
4	469.00	UXMSE	15.00	4.19	27.08	4.37
3	467.67	UXMSE	15.00	3.74	39.46	5.49
2	467.00	UXMSE	15.00	3.55	60.96	7.90
1	466.33	UXMSE	15.00	3.39	41.83	5.06

Facing Static				Connection Strength
Layer	Elevation [ft]	Rein.	Length [ft]	FS
8	474.33	UXMSE	15.00	12.02
7	473.00	UXMSE	15.00	2.33
6	471.67	UXMSE	15.00	2.09
5	470.33	UXMSE	15.00	1.90
4	469.00	UXMSE	15.00	1.74
3	467.67	UXMSE	15.00	2.17
2	467.00	UXMSE	15.00	3.10
1	466.33	UXMSE	15.00	1.97

Facing Seismic				Connection Strength
Layer	Elevation [ft]	Rein.	Length [ft]	FS
8	474.33	UXMSE	15.00	4.86
7	473.00	UXMSE	15.00	1.90
6	471.67	UXMSE	15.00	1.74
5	470.33	UXMSE	15.00	1.60
4	469.00	UXMSE	15.00	1.49
3	467.67	UXMSE	15.00	1.87
2	467.00	UXMSE	15.00	2.69
1	466.33	UXMSE	15.00	1.72

#### Internal Compound Stability

10 Lowest Static	•			
Radius Point	Entry Point	Exit Point	Result	Status
1	10	4	2.31	Pass
1	10	3	2.37	Pass
1	10	1	2.43	Pass
1	10	2	2.43	Pass
1	10	6	2.48	Pass
1	10	5	2.53	Pass
1	9	8	2.75	Pass
1	10	7	2.83	Pass
1	7	10	3.21	Pass

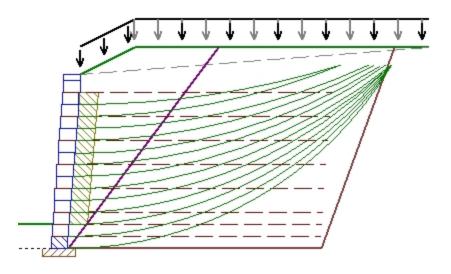


Radius Point	Entry Point	Exit Point	Result	Status
1	8	9	3.26	Pass
10 Lowest Seism	nic			
1	9	1	1.76	Pass
9	10	2	1.76	Pass
6	10	3	1.78	Pass
4	10	4	1.80	Pass
8	6	5	1.94	Pass
5	6	6	1.96	Pass
5	7	7	2.15	Pass
1	7	8	2.19	Pass
5	1	9	2.47	Pass
1	1	10	2.54	Pass

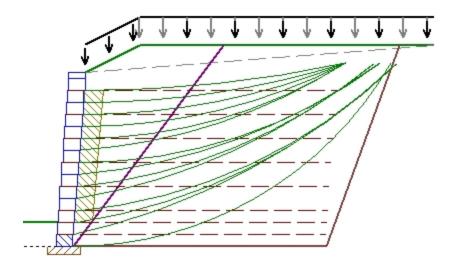


# Section 53 Details

### Section 53 Static ICS Cross-section



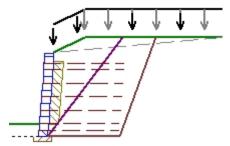
### Section 53 Seismic ICS Cross-section



- \* Analysis includes Vertical Forces
- \* Uses Live and Dead Load Reduction due to Offset
- \* Uses External Horiz. Accel Coeff in Seismic Crest Toppling
- \* Embedment is not included in Bearing Capacity



Section		#60 at Station 166.50				
<b>Report Date</b>		November 13, 2020				
Designer		NT				
<b>Design Stan</b>	dard	National Concrete Masonry Association 3rd Edition				
Design		Static and Seismic				
Unit of Meas	sure	U.S./Imperial				
Sele Licenso	Sele Licensor/Product Line: User defined					
Name:	MESA (S	TD. PRIVATE)				
Seismic As	0.15	Default Deflection of 2.00 inch				



Soil Parameters			In Situ	
		Friction	Density	Cohesion Cf
Soil Zone	Soil Type	Angle	[lb/ft³]	[lb/ft <sup>2</sup> ]
Infill (i)	SM	30°	125.00	n/a
Retained (r)	SM	30°	125.00	n/a
Foundation (f)	SM	30°	125.00	0.00
Base (b)	GW	36°	140.02	n/a
Drainage (d)	GP	38°	105.00	n/a

#### Section Details

Section Height	8.33	Back Slope	26.60°	LL Surcharge	100	DL Surcharge	1,200
Design Height	8.33 ft	Crest Offset	3.00 ft	LL Offset	0.00 ft	DL Offset	3.00 ft
Embedment	1.26 ft	Wall Batter	4.50°	Toe Slope	0.00°	Toe Offset	0.00 ft

#### **Minimum Factors of Safety**

Reinforce	d							
External		Value	Internal		Value	Facing		Value
FSsl	Base Sliding	1.50	FSsl	Internal Sliding	1.50	FScs	Connection Strength	1.50
FSbc	Bearing Capacity	2.00	FSpo	Pullout	1.50	FSsc	Facing Shear	1.50
FSct	Crest Toppling	1.50	FSto	Tensile Overstress	1.50		-	
FSot	Overturning	2.00						

#### Seismic

Reinforc	ed							
External		Value	Internal		Value	Facing		Value
FSsl	Base Sliding	1.10	FSsl	Internal Sliding	1.10	FScs	Connection Strength	1.10
FSbc	Bearing Capacity	1.50	FSpo	Pullout	1.10	FSsc	Facing Shear	1.10
FSct	Crest Toppling	1.10	FSto	Tensile Overstress	1.10			
FSot	Overturning	1.50						

#### Reinforcements

UXMSE - UX	1100MSE	Supplier: Ter	sar International C	orporation,	Fill Type: Sands		
Tult	3,971.52 lb/ft	RFcr	2.56	RFd	1.00	LTDS	1,436.46 lb/ft
RFid	1.08	Cds	0.80	Ci	0.80		
Connection	/Shear Properties						
cs1	1,253.00 lb/ft	IP-1	0.00 lb/ft	cs2	1,253.00 lb/ft	IP-2	6,502.00 lb/ft
cs max	1,253.00 lb/ft	au	705.00 lb/ft	u	33.00 lb/ft	Vu(max)	1,927.00 lb/ft

#### **Analysis Results**

\* Analysis includes Vertical Forces

\* Uses Live and Dead Load Reduction due to Offset

\* Uses External Horiz. Accel Coeff in Seismic Crest Toppling

FS		
5.18	Bearing Pressure	2161.86 lb/ft <sup>2</sup>
4.70	Max Eccentricity	0.00 ft
2.12		
1.82		
1.97		
FS		
5.43	Bearing Pressure	2064.23 lb/ft <sup>2</sup>
4.58	Max Eccentricity	0.00 ft
	5.18 4.70 2.12 1.82 1.97 <b>FS</b> 5.43	5.18Bearing Pressure4.70Max Eccentricity2.121.821.97FS5.43Bearing Pressure



External Seismic	FS
Base Sliding	2.06
Crest Toppling	2.48
Internal Sliding	1.92

Internal Static				Internal Sliding	Pullout	Tensile Overstress
Layer	Elevation [ft]	Rein.	Length [ft]	FS	FS	FS
7	475.00	UXMSE	8.00	4.82	45.12	21.52
6	474.33	UXMSE	8.00	4.03	31.20	11.68
5	473.00	UXMSE	8.00	3.13	9.34	2.36
4	471.67	UXMSE	8.00	2.63	11.68	2.14
3	470.33	UXMSE	8.00	2.30	14.01	1.96
2	469.00	UXMSE	8.00	2.06	21.99	2.44
1	468.33	UXMSE	8.00	1.97	23.11	2.31

				Internal		Tensile
Internal Seismic				Sliding	Pullout	Overstress
Layer	Elevation [ft]	Rein.	Length [ft]	FS	FS	FS
7	475.00	UXMSE	8.00	4.84	17.31	21.14
6	474.33	UXMSE	8.00	4.01	18.87	18.08
5	473.00	UXMSE	8.00	3.09	7.95	5.13
4	471.67	UXMSE	8.00	2.58	10.07	4.73
3	470.33	UXMSE	8.00	2.25	12.22	4.39
2	469.00	UXMSE	8.00	2.01	19.35	5.50
1	468.33	UXMSE	8.00	1.92	20.47	5.23

Facing Static				Connection Strength
Layer	Elevation [ft]	Rein.	Length [ft]	FS
7	475.00	UXMSE	8.00	18.78
6	474.33	UXMSE	8.00	10.19
5	473.00	UXMSE	8.00	2.06
4	471.67	UXMSE	8.00	1.87
3	470.33	UXMSE	8.00	1.71
2	469.00	UXMSE	8.00	2.13
1	468.33	UXMSE	8.00	2.01

Facing Seismic				Connection Strength
Layer	Elevation [ft]	Rein.	Length [ft]	FS
7	475.00	UXMSE	8.00	7.20
6	474.33	UXMSE	8.00	6.16
5	473.00	UXMSE	8.00	1.75
4	471.67	UXMSE	8.00	1.61
3	470.33	UXMSE	8.00	1.49
2	469.00	UXMSE	8.00	1.87
1	468.33	UXMSE	8.00	1.78

#### Internal Compound Stability 10 Lowest Static

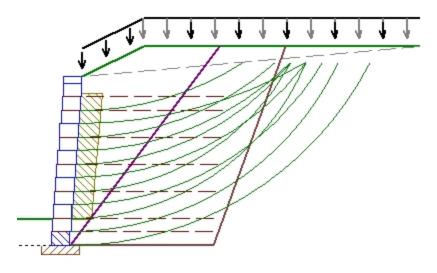
Radius Point	Entry Point	Exit Point	Result	Status
1	5	3	1.40	Pass
1	4	5	1.48	Pass
1	9	1	1.49	Pass
1	7	2	1.54	Pass
1	4	7	1.60	Pass
1	6	4	1.63	Pass
1	5	6	1.78	Pass
1	3	9	1.83	Pass
1	4	8	2.01	Pass
1	5	10	2.55	Pass
0 Lowest Seism	nic			
3	5	3	1.29	Pass
7	6	2	1.33	Pass



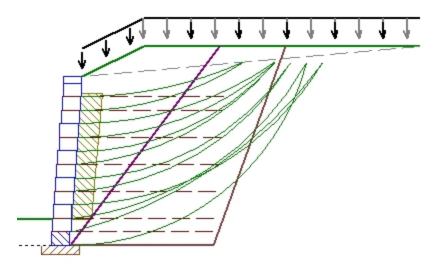
1	5	1	1.34	Pass
2	4	5	1.38	Pass
1	6	4	1.42	Pass
3	3	7	1.51	Pass
1	4	6	1.53	Pass
1	3	8	1.71	Pass
1	3	9	1.77	Pass
1	3	10	2.30	Pass

# **Section 60 Details**

### Section 60 Static ICS Cross-section



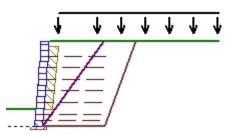
### Section 60 Seismic ICS Cross-section



- \* Analysis includes Vertical Forces
- \* Uses Live and Dead Load Reduction due to Offset
- \* Uses External Horiz. Accel Coeff in Seismic Crest Toppling
- \* Embedment is not included in Bearing Capacity



Section		#73 at Station 183.00
<b>Report Date</b>		November 13, 2020
Designer		NT
<b>Design Stan</b>	dard	National Concrete Masonry Association 3rd Edition
Design		Static and Seismic
Unit of Meas	sure	U.S./Imperial
Sele/Licenso	r/Product Lin	e: User defined
Name:	MESA (S	TD. PRIVATE)
Seismic As	0.15	Default Deflection of 2.00 inch



Soil Parameters		In Situ					
		Friction	Density	Cohesion Cf			
Soil Zone	Soil Type	Angle	[lb/ft³]	[lb/ft <sup>2</sup> ]			
Infill (i)	SM	30°	125.00	n/a			
Retained (r)	SM	30°	125.00	n/a			
Foundation (f)	SM	30°	125.00	0.00			
Base (b)	GW	36°	140.02	n/a			
Drainage (d)	GP	38°	105.00	n/a			

#### Section Details

Section Height	9.67	Back Slope	0.00°	LL Surcharge	100	DL Surcharge	0
Design Height	9.67 ft	Crest Offset	0.00 ft	LL Offset	1.00 ft	DL Offset	0.00 ft
Embedment	1.90 ft	Wall Batter	4.50°	Toe Slope	0.00°	Toe Offset	0.00 ft

#### Minimum Factors of Safety Reinforced

	4							
External		Value	Internal		Value	Facing		Value
FSsl	Base Sliding	1.50	FSsl	Internal Sliding	1.50	FScs	Connection Strength	1.50
FSbc	Bearing Capacity	2.00	FSpo	Pullout	1.50	FSsc	Facing Shear	1.50
FSct	Crest Toppling	1.50	FSto	Tensile Overstress	1.50			
FSot	Overturning	2.00						

#### Seismic

Reinforc	ed							
External		Value	Internal		Value	Facing		Value
FSsl	Base Sliding	1.10	FSsl	Internal Sliding	1.10	FScs	Connection Strength	1.10
FSbc	Bearing Capacity	1.50	FSpo	Pullout	1.10	FSsc	Facing Shear	1.10
FSct	Crest Toppling	1.10	FSto	Tensile Overstress	1.10			
FSot	Overturning	1.50						

#### Reinforcements

UXMSE - UX	1100MSE	Supplier: Ter	sar International C	orporation,	Fill Type: Sands		
Tult	3,971.52 lb/ft	RFcr	2.56	RFd	1.00	LTDS	1,436.46 lb/ft
RFid	1.08	Cds	0.80	Ci	0.80		
Connection	/Shear Properties						
cs1	1,253.00 lb/ft	IP-1	0.00 lb/ft	cs2	1,253.00 lb/ft	IP-2	6,502.00 lb/ft
cs max	1,253.00 lb/ft	au	705.00 lb/ft	u	33.00 lb/ft	Vu(max)	1,927.00 lb/ft

#### **Analysis Results**

\* Analysis includes Vertical Forces

\* Uses Live and Dead Load Reduction due to Offset

\* Uses External Horiz. Accel Coeff in Seismic Crest Toppling

External Static	FS			
Bearing Capacity	8.11	Bearing Pressure	1381.07	lb/ft <sup>2</sup>
Overturning	8.50	Max Eccentricity	0.00	ft
Base Sliding	3.68			
Crest Toppling	4.20			
Internal Sliding	3.73			
External Seismic	FS			
Bearing Capacity	8.60	Bearing Pressure	1302.01	lb/ft <sup>2</sup>
Overturning	7.26	Max Eccentricity	0.01	ft



External Seismic	FS
Base Sliding	3.27
Crest Toppling	1.82
Internal Sliding	3.30

Internal Static				Internal Sliding	Pullout	Tensile Overstress
Layer	Elevation [ft]	Rein.	Length [ft]	FS	FS	FS
7	481.00	UXMSE	8.00	18.69	3.17	12.03
6	479.67	UXMSE	8.00	10.59	6.00	8.83
5	478.33	UXMSE	8.00	7.44	8.36	6.54
4	477.00	UXMSE	8.00	5.76	10.70	5.19
3	475.67	UXMSE	8.00	4.72	13.02	4.30
2	474.33	UXMSE	8.00	4.00	20.83	4.99
1	473.67	UXMSE	8.00	3.73	21.63	4.49

						Tensile
Internal Seismic				Sliding	Pullout	Overstress
Layer	Elevation [ft]	Rein.	Length [ft]	FS	FS	FS
7	481.00	UXMSE	8.00	14.79	1.12	10.94
6	479.67	UXMSE	8.00	8.77	3.61	13.59
5	478.33	UXMSE	8.00	6.32	5.61	11.23
4	477.00	UXMSE	8.00	4.98	7.70	9.56
3	475.67	UXMSE	8.00	4.13	9.84	8.33
2	474.33	UXMSE	8.00	3.54	16.26	9.97
1	473.67	UXMSE	8.00	3.30	17.26	9.17

Facing Static				Connection Strength
Layer	Elevation [ft]	Rein.	Length [ft]	FS
7	481.00	UXMSE	8.00	10.49
6	479.67	UXMSE	8.00	7.71
5	478.33	UXMSE	8.00	5.70
4	477.00	UXMSE	8.00	4.53
3	475.67	UXMSE	8.00	3.75
2	474.33	UXMSE	8.00	4.35
1	473.67	UXMSE	8.00	3.92

Facing Seismic				Connection Strength
Layer	Elevation [ft]	Rein.	Length [ft]	FS
7	481.00	UXMSE	8.00	3.73
6	479.67	UXMSE	8.00	4.63
5	478.33	UXMSE	8.00	3.82
4	477.00	UXMSE	8.00	3.26
3	475.67	UXMSE	8.00	2.84
2	474.33	UXMSE	8.00	3.40
1	473.67	UXMSE	8.00	3.13

#### Internal Compound Stability 10 Lowest Static

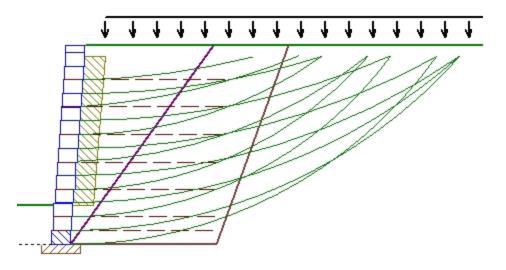
To Lonoor orano				
Radius Point	Entry Point	Exit Point	Result	Status
1	7	3	2.08	Pass
1	9	1	2.15	Pass
1	6	5	2.30	Pass
1	10	2	2.43	Pass
2	6	7	2.63	Pass
1	10	4	2.73	Pass
1	10	6	3.09	Pass
1	4	9	3.14	Pass
1	9	8	3.60	Pass
10	3	11	4.28	Pass
<b>10 Lowest Seismi</b>	ic			
1	8	1	1.88	Pass
1	7	3	1.93	Pass



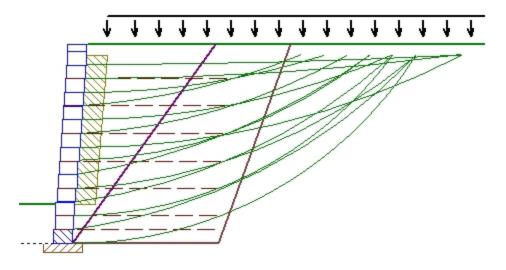
5	8	2	1.99	Pass
3	8	5	2.11	Pass
6	7	4	2.25	Pass
2	6	7	2.41	Pass
9	6	6	2.65	Pass
5	5	9	2.95	Pass
1	10	8	3.08	Pass
1	7	10	3.90	Pass

# Section 73 Details

### Section 73 Static ICS Cross-section



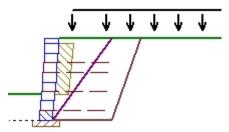
### Section 73 Seismic ICS Cross-section



- \* Analysis includes Vertical Forces
- \* Uses Live and Dead Load Reduction due to Offset
- \* Uses External Horiz. Accel Coeff in Seismic Crest Toppling
- \* Embedment is not included in Bearing Capacity



Section		#80 at Station 188.25
<b>Report Date</b>		November 13, 2020
Designer		NT
<b>Design Stan</b>	dard	National Concrete Masonry Association 3rd Edition
Design		Static and Seismic
Unit of Meas	sure	U.S./Imperial
Sele/Licenso	r/Product Li	ne: User defined
Name:	MESA (	STD. PRIVATE)
Seismic As	0.15	Default Deflection of 2.00 inch



Wall: 1

Soil Parameters		In Situ					
		Friction	Density	Cohesion Cf			
Soil Zone	Soil Type	Angle	[lb/ft³]	[lb/ft <sup>2</sup> ]			
Infill (i)	SM	30°	125.00	n/a			
Retained (r)	SM	30°	125.00	n/a			
Foundation (f)	SM	30°	125.00	0.00			
Base (b)	GW	36°	140.02	n/a			
Drainage (d)	GP	38°	105.00	n/a			

#### Section Details

Section Height	5.67	Back Slope	0.00°	LL Surcharge	100	DL Surcharge	0
Design Height	5.67 ft	Crest Offset	0.00 ft	LL Offset	1.00 ft	DL Offset	0.00 ft
Embedment	1.76 ft	Wall Batter	4.50°	Toe Slope	0.00°	Toe Offset	0.00 ft

#### **Minimum Factors of Safety**

Reinforce	ed							
External		Value	Internal		Value	Facing		Value
FSsl	Base Sliding	1.50	FSsl	Internal Sliding	1.50	FScs	Connection Strength	1.50
FSbc	Bearing Capacity	2.00	FSpo	Pullout	1.50	FSsc	Facing Shear	1.50
FSct	Crest Toppling	1.50	FSto	Tensile Overstress	1.50		-	
FSot	Overturning	2.00						

#### Seismic

Reinforce	ed							
External		Value	Internal		Value	Facing		Value
FSsl	Base Sliding	1.10	FSsl	Internal Sliding	1.10	FScs	Connection Strength	1.10
FSbc	Bearing Capacity	1.50	FSpo	Pullout	1.10	FSsc	Facing Shear	1.10
FSct	Crest Toppling	1.10	FSto	Tensile Overstress	1.10			
FSot	Overturning	1.50						

#### Reinforcements

UXMSE - UX	1100MSE	Supplier: Ter	sar International C	orporation,	Fill Type: Sands		
Tult	3,971.52 lb/ft	RFcr	2.56	RFd	1.00	LTDS	1,436.46 lb/ft
RFid	1.08	Cds	0.80	Ci	0.80		
Connection	/Shear Properties						
cs1	1,253.00 lb/ft	IP-1	0.00 lb/ft	cs2	1,253.00 lb/ft	IP-2	6,502.00 lb/ft
cs max	1,253.00 lb/ft	au	705.00 lb/ft	u	33.00 lb/ft	Vu(max)	1,927.00 lb/ft

#### **Analysis Results**

\* Analysis includes Vertical Forces

\* Uses Live and Dead Load Reduction due to Offset

\* Uses External Horiz. Accel Coeff in Seismic Crest Toppling

External Static	FS			
Bearing Capacity	8.45	Bearing Pressure	828.49	lb/ft <sup>2</sup>
Overturning	8.34	Max Eccentricity	0.00	ft
Base Sliding	3.55			
Crest Toppling	4.20			
Internal Sliding	4.73			
External Seismic	FS			
Bearing Capacity	9.24	Bearing Pressure	757.32	lb/ft <sup>2</sup>
Overturning	8.13	Max Eccentricity	0.00	ft



External Seismic	FS
Base Sliding	3.48
Crest Toppling	1.82
Internal Sliding	4.65

Internal Static Layer	Elevation [ft]	Rein.	Length [ft]	Internal Sliding FS	Pullout FS	Tensile Overstress FS
4	481.67	UXMSE	5.00	15.12	3.34	16.38
3	481.00	UXMSE	5.00	10.53	4.96	13.56
2	479.67	UXMSE	5.00	6.52	6.21	7.52
1	478.33	UXMSE	5.00	4.73	8.51	5.79

Internal Seismic Layer	Elevation [ft]	Rein.	Length [ft]	Internal Sliding FS	Pullout FS	Tensile Overstress FS
4	481.67	UXMSE	5.00	15.68	1.42	17.77
3	481.00	UXMSE	5.00	10.72	3.47	24.26
2	479.67	UXMSE	5.00	6.49	4.71	14.59
1	478.33	UXMSE	5.00	4.65	6.83	11.90

Facing Static Layer	Elevation [ft]	Rein.	Length [ft]	Connection Strength FS
4	481.67	UXMSE	5.00	14.29
3	481.00	UXMSE	5.00	11.83
2	479.67	UXMSE	5.00	6.56
1	478.33	UXMSE	5.00	5.05

Facing Seismic Layer	Elevation [ft]	Rein.	Length [ft]	Connection Strength FS
4	481.67	UXMSE	5.00	6.06
3	481.00	UXMSE	5.00	8.26
2	479.67	UXMSE	5.00	4.97
1	478.33	UXMSE	5.00	4.05

#### **Internal Compound Stability**

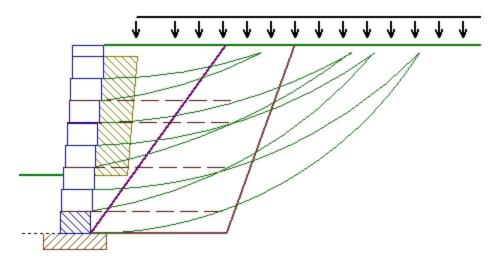
10 Lowest Static				
	40	1	Ctatia	

Radius Point	Entry Point	Exit Point	Result	Status
1	8	1	1.81	Pass
5	6	2	2.05	Pass
10	5	4	2.52	Pass
1	8	3	2.64	Pass
2	6	5	3.46	Pass
3	5	6	4.30	Pass
10	1	7	5.30	Pass
1	1	8	10.53	Pass
0 Lowest Seisn	nic			
1	9	1	1.70	Pass
10	8	2	2.05	Pass
1	8	3	2.61	Pass
10	5	4	2.65	Pass
4	7	5	3.60	Pass
8	6	6	4.74	Pass
10	1	7	7.32	Pass
1	10	8	15.09	Pass

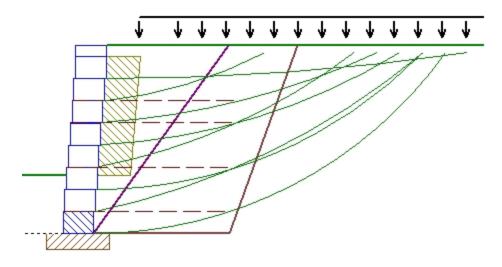


# Section 80 Details

### Section 80 Static ICS Cross-section



### Section 80 Seismic ICS Cross-section



- \* Analysis includes Vertical Forces
- \* Uses Live and Dead Load Reduction due to Offset
- \* Uses External Horiz. Accel Coeff in Seismic Crest Toppling
- \* Embedment is not included in Bearing Capacity



# **Project Information**

Client	ERS							
Name	Dino DeLaurentis Resi	dence			Number	20ERS150		
Site	North Castle, NY				Designer	NT		
Revision	1	Created	11/12/2020		Modified	11/13/2020		
Standard	National Concrete Mas	National Concrete Masonry Association 3rd Edition						

Seismic As 0.15 Default Deflection of 2.00 inch

### **Selected Facing Unit**

Licensor/Product Line: User defined Name: MESA (STD. PRIVATE)



Section		#5 at Station 12.75			
<b>Report Date</b>		November 13, 2020			
Designer		NT			
<b>Design Stan</b>	dard	National Concrete Masonry Association 3rd Edition			
Design		Static and Seismic			
Unit of Meas	sure	U.S./Imperial			
Sele Licensor/Product Line: User defined					
Name:	MESA (S	TD. PRIVATE)			
Seismic As	0.15	Default Deflection of 2.00 inch			

/
······e <u>2225</u>

Soil Parameters			In Situ	
		Friction	Density	Cohesion Cf
Soil Zone	Soil Type	Angle	[lb/ft³]	[lb/ft <sup>2</sup> ]
Infill (i)	SM	30°	125.00	n/a
Retained (r)	SM	30°	125.00	n/a
Foundation (f)	SM	30°	125.00	0.00
Base (b)	GW	36°	140.02	n/a
Drainage (d)	GP	38°	105.00	n/a

#### Section Details

Section Height	4.33	Back Slope	21.80°	LL Surcharge	100	DL Surcharge	500
Design Height	4.33 ft	Crest Offset	5.00 ft	LL Offset	0.00 ft	DL Offset	10.00 ft
Embedment	0.83 ft	Wall Batter	4.50°	Toe Slope	0.00°	Toe Offset	0.00 ft

#### Minimum Factors of Safety Reinforced

	<b>4</b>							
External		Value	Internal		Value	Facing		Value
FSsl	Base Sliding	1.50	FSsl	Internal Sliding	1.50	FScs	Connection Strength	1.50
FSbc	Bearing Capacity	2.00	FSpo	Pullout	1.50	FSsc	Facing Shear	1.50
FSct	Crest Toppling	1.50	FSto	Tensile Overstress	1.50			
FSot	Overturning	2.00						

#### Seismic

Reinforce	ed							
External		Value	Internal		Value	Facing		Value
FSsl	Base Sliding	1.10	FSsl	Internal Sliding	1.10	FScs	Connection Strength	1.10
FSbc	Bearing Capacity	1.50	FSpo	Pullout	1.10	FSsc	Facing Shear	1.10
FSct	Crest Toppling	1.10	FSto	Tensile Overstress	1.10			
FSot	Overturning	1.50						

#### Reinforcements

UXMSE - UX	1100MSE	Supplier: Ter	nsar International C	orporation,	Fill Type: Sands		
Tult	3,971.52 lb/ft	RFcr	2.56	RFd	1.10	LTDS	1,305.87 lb/ft
RFid	1.08	Cds	0.80	Ci	0.80		
Connection	/Shear Properties						
cs1	1,253.00 lb/ft	IP-1	0.00 lb/ft	cs2	1,253.00 lb/ft	IP-2	6,502.00 lb/ft
cs max	1,253.00 lb/ft	au	705.00 lb/ft	u	33.00 lb/ft	Vu(max)	1,927.00 lb/ft

#### **Analysis Results**

\* Analysis includes Vertical Forces

\* Uses Live and Dead Load Reduction due to Offset

\* Uses External Horiz. Accel Coeff in Seismic Crest Toppling

External Static	FS			
Bearing Capacity	8.98	Bearing Pressure	779.64	lb/ft <sup>2</sup>
Overturning	6.53	Max Eccentricity	0.00	ft
Base Sliding	2.78			
Crest Toppling	2.17			
Internal Sliding	4.18			
External Seismic	FS			
Bearing Capacity	10.22	Bearing Pressure	685.23	lb/ft <sup>2</sup>
Overturning	7.36	Max Eccentricity	0.00	ft



External Seismic	FS
Base Sliding	2.94
Crest Toppling	2.92
Internal Sliding	4.60

Internal Static Layer	Elevation [ft]	Rein.	Length [ft]	Internal Sliding FS	Pullout FS	Tensile Overstress FS
3	482.50	UXMSE	5.00	6.95	5.69	17.44
2	481.83	UXMSE	5.00	5.67	6.84	12.95
1	480.50	UXMSE	5.00	4.18	4.43	4.13

Internal Seismic Layer	Elevation [ft]	Rein.	Length [ft]	Internal Sliding FS	Pullout FS	Tensile Overstress FS
3	482.50	UXMSE	5.00	8.98	2.86	22.46
2	481.83	UXMSE	5.00	6.77	4.41	21.39
1	480.50	UXMSE	5.00	4.60	3.28	7.82

Facing Static				Connection Strength
Layer	Elevation [ft]	Rein.	Length [ft]	FS
3	482.50	UXMSE	5.00	16.74
2	481.83	UXMSE	5.00	12.43
1	480.50	UXMSE	5.00	3.96

Facing Seismic				Connection Strength
Layer	Elevation [ft]	Rein.	Length [ft]	FS
3	482.50	UXMSE	5.00	8.42
2	481.83	UXMSE	5.00	8.02
1	480.50	UXMSE	5.00	2.93

#### Internal Compound Stability

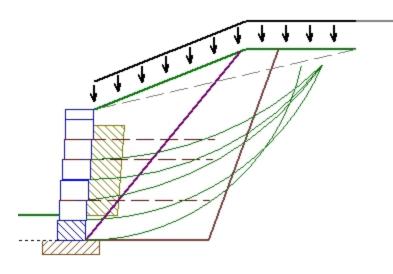
10	Lowest	Static	
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Radius Point	Entry Point	Exit Point	Result	Status
1	8	1	1.36	Pass
3	10	3	2.00	Pass
1	10	2	2.19	Pass
1	10	4	2.55	Pass
1	10	5	2.87	Pass
10 Lowest Seism	nic			
1	8	1	1.31	Pass
3	10	3	2.08	Pass
1	10	2	2.26	Pass
1	10	4	2.73	Pass
1	10	5	3.16	Pass
1	10	6	3.86	Pass

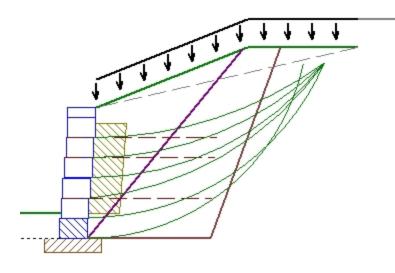


# Section 5 Details

### Section 5 Static ICS Cross-section



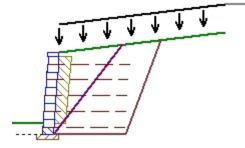
### Section 5 Seismic ICS Cross-section



- \* Analysis includes Vertical Forces
- \* Uses Live and Dead Load Reduction due to Offset
- \* Uses External Horiz. Accel Coeff in Seismic Crest Toppling
- \* Embedment is not included in Bearing Capacity



Section		#12 at Station 34.50		
<b>Report Date</b>		November 13, 2020		
Designer		NT		
Design Stan	dard	National Concrete Masonry Association 3rd Edition		
Design		Static and Seismic		
Unit of Meas	sure	U.S./Imperial		
Sele Licenso	Sele Licensor/Product Line: User defined			
Name:	MESA (S	TD. PRIVATE)		
Seismic As	0.15	Default Deflection of 2.00 inch		



Wall: 2

Soil Parameters		In Situ				
		Friction	Density	Cohesion Cf		
Soil Zone	Soil Type	Angle	[lb/ft³]	[lb/ft <sup>2</sup> ]		
Infill (i)	SM	30°	125.00	n/a		
Retained (r)	SM	30°	125.00	n/a		
Foundation (f)	SM	30°	125.00	0.00		
Base (b)	GW	36°	140.02	n/a		
Drainage (d)	GP	38°	105.00	n/a		

#### Section Details

Section Height	7.00	Back Slope	6.84°	LL Surcharge	100	DL Surcharge	500
Design Height	7.00 ft	Crest Offset	25.00 ft	LL Offset	0.00 ft	DL Offset	25.00 ft
Embedment	1.00 ft	Wall Batter	4.50°	Toe Slope	0.00°	Toe Offset	0.00 ft

#### **Minimum Factors of Safety**

Reinforce	ed							
External		Value	Internal		Value	Facing		Value
FSsl	Base Sliding	1.50	FSsl	Internal Sliding	1.50	FScs	Connection Strength	1.50
FSbc	Bearing Capacity	2.00	FSpo	Pullout	1.50	FSsc	Facing Shear	1.50
FSct	Crest Toppling	1.50	FSto	Tensile Overstress	1.50		-	
FSot	Overturning	2.00						

#### Seismic

Reinforce	ed							
External		Value	Internal		Value	Facing		Value
FSsl	Base Sliding	1.10	FSsl	Internal Sliding	1.10	FScs	Connection Strength	1.10
FSbc	Bearing Capacity	1.50	FSpo	Pullout	1.10	FSsc	Facing Shear	1.10
FSct	Crest Toppling	1.10	FSto	Tensile Overstress	1.10			
FSot	Overturning	1.50						

#### Reinforcements

UXMSE - UX	1100MSE	Supplier: Ter	nsar International C	orporation,	Fill Type: Sands		
Tult	3,971.52 lb/ft	RFcr	2.56	RFd	1.10	LTDS	1,305.87 lb/ft
RFid	1.08	Cds	0.80	Ci	0.80		
Connection	/Shear Properties						
cs1	1,253.00 lb/ft	IP-1	0.00 lb/ft	cs2	1,253.00 lb/ft	IP-2	6,502.00 lb/ft
cs max	1,253.00 lb/ft	au	705.00 lb/ft	u	33.00 lb/ft	Vu(max)	1,927.00 lb/ft

#### **Analysis Results**

\* Analysis includes Vertical Forces

\* Uses Live and Dead Load Reduction due to Offset

\* Uses External Horiz. Accel Coeff in Seismic Crest Toppling

External Static	FS		
Bearing Capacity	9.05	Bearing Pressure	1082.82 lb/ft <sup>2</sup>
Overturning	8.47	Max Eccentricity	0.00 ft
Base Sliding	3.38		
Crest Toppling	2.86		
Internal Sliding	3.70		
External Seismic	FS		
Bearing Capacity	9.93	Bearing Pressure	986.76 lb/ft <sup>2</sup>
Overturning	8.14	Max Eccentricity	0.00 ft



External Seismic	FS
Base Sliding	3.24
Crest Toppling	3.30
Internal Sliding	3.56

Internal Static				Internal Sliding	Pullout	Tensile Overstress
Layer	Elevation [ft]	Rein.	Length [ft]	FS	FS	FS
5	480.50	UXMSE	7.00	13.45	3.85	13.75
4	479.17	UXMSE	7.00	7.95	6.57	8.96
3	477.83	UXMSE	7.00	5.71	8.73	6.28
2	476.50	UXMSE	7.00	4.48	10.89	4.84
1	475.17	UXMSE	7.00	3.70	13.05	3.94

Internal Seismic				Internal Sliding		Tensile Overstress
Layer	Elevation [ft]	Rein.	Length [ft]	FS	FS	FS
5	480.50	UXMSE	7.00	15.64	1.72	15.71
4	479.17	UXMSE	7.00	8.17	3.99	13.93
3	477.83	UXMSE	7.00	5.64	6.01	11.07
2	476.50	UXMSE	7.00	4.35	8.08	9.18
1	475.17	UXMSE	7.00	3.56	10.17	7.85

Facing Static Layer	Elevation [ft]	Rein.	Length [ft]	Connection Strength FS
5	480.50	UXMSE	7.00	13.19
4	479.17	UXMSE	7.00	8.60
3	477.83	UXMSE	7.00	6.03
2	476.50	UXMSE	7.00	4.64
1	475.17	UXMSE	7.00	3.78

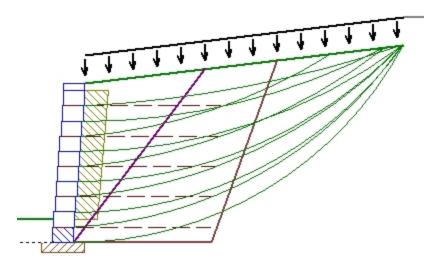
Facing Seismic				Connection Strength
Layer	Elevation [ft]	Rein.	Length [ft]	FS
5	480.50	UXMSE	7.00	5.89
4	479.17	UXMSE	7.00	5.22
3	477.83	UXMSE	7.00	4.15
2	476.50	UXMSE	7.00	3.44
1	475.17	UXMSE	7.00	2.94

### Internal Compound Stability

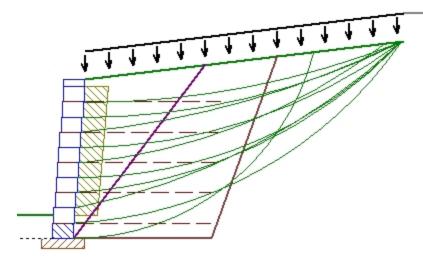
<b>0 Lowest Static</b>				
Radius Point	Entry Point	Exit Point	Result	Status
2	10	2	1.87	Pass
1	10	1	1.93	Pass
3	10	4	2.06	Pass
1	10	3	2.31	Pass
5	9	6	2.38	Pass
1	10	5	2.57	Pass
1	10	7	3.00	Pass
6	6	8	3.00	Pass
1	9	9	3.84	Pass
10	10	10	4.80	Pass
Lowest Seisn	nic			
2	10	2	1.76	Pass
1	5	1	1.82	Pass
3	10	4	1.94	Pass
8	10	3	2.15	Pass
5	9	6	2.28	Pass
1	10	5	2.46	Pass
1	10	7	2.86	Pass
10	10	8	3.04	Pass
1	10	9	3.73	Pass
1	10	10	4.88	Pass

# Section 12 Details

### Section 12 Static ICS Cross-section



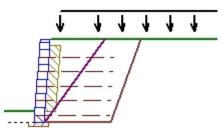
### Section 12 Seismic ICS Cross-section



- \* Analysis includes Vertical Forces
- \* Uses Live and Dead Load Reduction due to Offset
- \* Uses External Horiz. Accel Coeff in Seismic Crest Toppling
- \* Embedment is not included in Bearing Capacity



Section		#13 at Station 99.00				
<b>Report Date</b>		November 13, 2020				
Designer		NT				
<b>Design Stan</b>	dard	National Concrete Masonry Association 3rd Edition				
Design		Static and Seismic				
Unit of Meas	sure	U.S./Imperial				
Sele/Licenso	SeleLicensor/Product Line: User defined					
Name:	MESA (S	TD. PRIVATE)				
Seismic As	0.15	Default Deflection of 2.00 inch				



Wall: 2

Soil Parameters		In Situ				
		Friction	Density	Cohesion Cf		
Soil Zone	Soil Type	Angle	[lb/ft³]	[lb/ft <sup>2</sup> ]		
Infill (i)	SM	30°	125.00	n/a		
Retained (r)	SM	30°	125.00	n/a		
Foundation (f)	SM	30°	125.00	0.00		
Base (b)	GW	36°	140.02	n/a		
Drainage (d)	GP	38°	105.00	n/a		

#### Section Details

Section Height	7.67	Back Slope	0.00°	LL Surcharge	100	DL Surcharge	0
Design Height	7.67 ft	Crest Offset	0.00 ft	LL Offset	1.00 ft	DL Offset	0.00 ft
Embedment	1.00 ft	Wall Batter	4.50°	Toe Slope	0.00°	Toe Offset	0.00 ft

#### **Minimum Factors of Safety**

Reinforce	ed							
External		Value	Internal		Value	Facing		Value
FSsl	Base Sliding	1.50	FSsl	Internal Sliding	1.50	FScs	Connection Strength	1.50
FSbc	Bearing Capacity	2.00	FSpo	Pullout	1.50	FSsc	Facing Shear	1.50
FSct	Crest Toppling	1.50	FSto	Tensile Overstress	1.50		-	
FSot	Overturning	2.00						

#### Seismic

Reinforc	ed							
External		Value	Internal		Value	Facing		Value
FSsl	Base Sliding	1.10	FSsl	Internal Sliding	1.10	FScs	Connection Strength	1.10
FSbc	Bearing Capacity	1.50	FSpo	Pullout	1.10	FSsc	Facing Shear	1.10
FSct	Crest Toppling	1.10	FSto	Tensile Overstress	1.10			
FSot	Overturning	1.50						

#### Reinforcements

UXMSE - UX	1100MSE	Supplier: Ter	nsar International C	orporation,	Fill Type: Sands		
Tult	3,971.52 lb/ft	RFcr	2.56	RFd	1.10	LTDS	1,305.87 lb/ft
RFid	1.08	Cds	0.80	Ci	0.80		
Connection	/Shear Properties						
cs1	1,253.00 lb/ft	IP-1	0.00 lb/ft	cs2	1,253.00 lb/ft	IP-2	6,502.00 lb/ft
cs max	1,253.00 lb/ft	au	705.00 lb/ft	u	33.00 lb/ft	Vu(max)	1,927.00 lb/ft

#### **Analysis Results**

\* Analysis includes Vertical Forces

\* Uses Live and Dead Load Reduction due to Offset

\* Uses External Horiz. Accel Coeff in Seismic Crest Toppling

External Static	FS		
Bearing Capacity	8.89	Bearing Pressure	1103.04 lb/ft <sup>2</sup>
Overturning	9.65	Max Eccentricity	0.00 ft
Base Sliding	3.89		
Crest Toppling	4.20		
Internal Sliding	4.27		
External Seismic	FS		
Bearing Capacity	9.59	Bearing Pressure	1022.38 lb/ft <sup>2</sup>
Overturning	8.67	Max Eccentricity	0.00 ft



External Seismic	FS
Base Sliding	3.59
Crest Toppling	1.82
Internal Sliding	3.93

				Internal		Tensile
Internal Static				Sliding	Pullout	Overstress
Layer	Elevation [ft]	Rein.	Length [ft]	FS	FS	FS
5	480.50	UXMSE	7.00	17.50	3.62	10.94
4	479.17	UXMSE	7.00	9.75	6.60	8.03
3	477.83	UXMSE	7.00	6.79	9.00	5.94
2	476.50	UXMSE	7.00	5.23	11.36	4.72
1	475.17	UXMSE	7.00	4.27	13.70	3.91

Internal Seismic				Internal Sliding	Pullout	Tensile Overstress
Layer	Elevation [ft]	Rein.	Length [ft]	FS	FS	FS
5	480.50	UXMSE	7.00	15.71	1.46	11.33
4	479.17	UXMSE	7.00	8.85	4.34	13.53
3	477.83	UXMSE	7.00	6.20	6.50	10.99
2	476.50	UXMSE	7.00	4.80	8.70	9.26
1	475.17	UXMSE	7.00	3.93	10.93	7.99

Facing Static Layer	Elevation [ft]	Rein.	Length [ft]	Connection Strength FS
5	480.50	UXMSE	7.00	10.49
4	479.17	UXMSE	7.00	7.71
3	477.83	UXMSE	7.00	5.70
2	476.50	UXMSE	7.00	4.53
1	475.17	UXMSE	7.00	3.75

Facing Seismic				Connection Strength
Layer	Elevation [ft]	Rein.	Length [ft]	FS
5	480.50	UXMSE	7.00	4.25
4	479.17	UXMSE	7.00	5.07
3	477.83	UXMSE	7.00	4.12
2	476.50	UXMSE	7.00	3.47
1	475.17	UXMSE	7.00	3.00

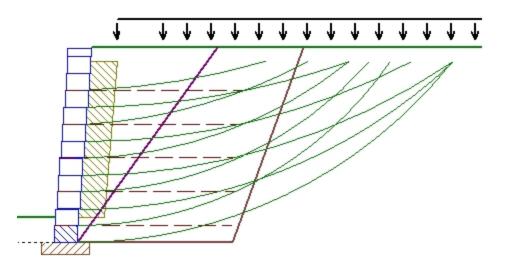
### Internal Compound Stability

<b>0</b> Lowest Static				
<b>Radius Point</b>	Entry Point	Exit Point	Result	Status
1	7	2	2.11	Pass
1	10	1	2.15	Pass
1	6	4	2.38	Pass
1	10	3	2.74	Pass
2	5	6	2.88	Pass
1	10	5	3.20	Pass
6	3	8	3.87	Pass
1	8	7	4.00	Pass
3	5	9	6.00	Pass
10	1	10	8.06	Pass
) Lowest Seisn	nic			
1	5	1	1.99	Pass
4	10	2	1.99	Pass
4	8	4	2.28	Pass
9	7	3	2.50	Pass
6	6	6	2.79	Pass
1	10	5	2.95	Pass
2	9	7	3.69	Pass
6	3	8	4.06	Pass
3	5	9	6.00	Pass
1	10	10	10.00	Pass

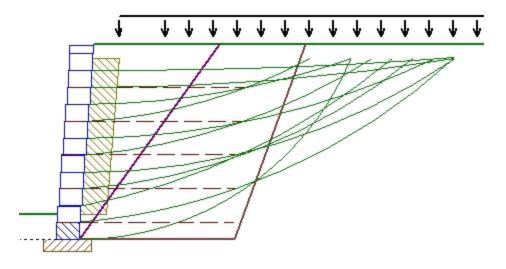


# **Section 13 Details**

### Section 13 Static ICS Cross-section



### Section 13 Seismic ICS Cross-section



- \* Analysis includes Vertical Forces
- \* Uses Live and Dead Load Reduction due to Offset
- \* Uses External Horiz. Accel Coeff in Seismic Crest Toppling
- \* Embedment is not included in Bearing Capacity



# Dino DeLaurentis Residence

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### PROJECT IDENTIFICATION

Title:Dino DeLaurentis ResidenceProject Number:20ERS150 -Client:ERSDesigner:NT

#### **Description:**

Tiered Section - sta. 0+66 (Wall 1 panel 38, Wall 2 panel 5)

#### Company's information:

Name: Street: ERS Materials, LLC 116 Edwards Ferry Road NE Unit S Leesburg, VA 20176

Telephone #: Fax #: E-Mail:

Original file path and name:V:\2020\20 ..... \Ressa\ReSSA\_Tiered Section - sta. 0+66-Wall 1.MSEOriginal date and time of creating this file:Thu Nov 12 11:06:25 2020

**PROGRAM MODE:** Analysis of a General Slope using GEOSYNTHETIC as reinforcing material.

### INPUT DATA (EXCLUDING REINFORCEMENT LAYOUT)

#### SOIL DATA

======================================	Unit weight, γ [lb/ft <sup>3</sup> ]	Internal angle of friction, $\phi$ [deg.]	Cohesion, c [lb/ft <sup>2</sup> ]
1 Block Face	130.0	0.0	500.0
.2 Reinforced Fill	125.0	30.0	0.0
.3 Retained Soil	125.0	30.0	0.0
.4 Foundation Soil	125.0	30.0	0.0

#### REINFORCEMENT

Reinforcement		Ultimate Strength,	Reduction Factor for	Reduction Factor for	Reduction Factor for	Additional Reduction	Coverage Ratio,
Type #	Geosynthetic Designated Name	Tult [lb/ft]	Installation Damage, RFid	Durability,	Creep, RFc	Factor, RFa	Rc
1 UX1100MSE		3971.52	1.08	1.00	2.56	1.00	1.00
Interaction Parameters		== Direct Sliding ==		==== Pullout ====		=	
Type #	Geosynthetic Designated Name	Cds-phi	Cds-c	Ci		Alpha	
1 UX1100MSE		0.80	0.00	0.80		0.80	

Relative Orientation of Reinforcement Force, ROR = 1.00. Assigned Factor of Safety to resist pullout, Fs-po = 1.50 Design method for Global Stability: AASHTO/FHWA Bishop.

#### WATER

Water is not present

#### SEISMICITY

Not Applicable

# DRAWING OF SPECIFIED GEOMETRY - GENERAL - Quick Input

-- Problem geometry is defined along sections selected by user at x,y coordinates.

-- X1,Y1 represents the coordinates of soil surface. X2,Y2 represent the coordinates of the end of soil layer 1 and start of soil layer 2, and so on.

#### GEOMETRY

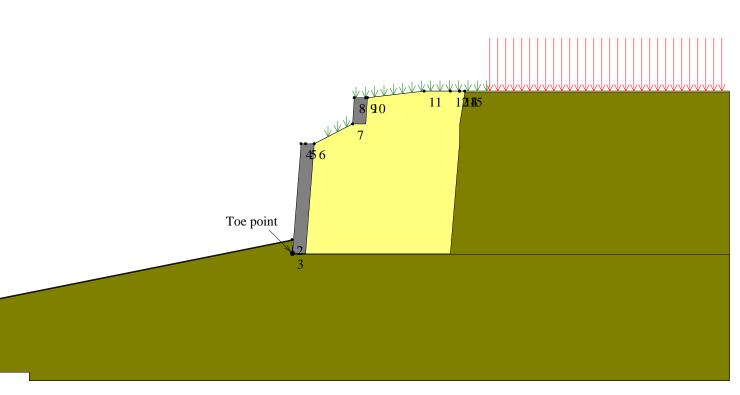
Soil profile contains 4 layers (see details in next page)

#### UNIFORM SURCHARGE

Load Q1 = 100.00 [lb/ft<sup>2</sup>] inclined from verical at 0.00 degrees, starts at X1s = 2.70 and ends at X1e = 15.00 [ft]. Load Q2 = 500.00 [lb/ft<sup>2</sup>] inclined from verical at 0.00 degrees, starts at X2s = 15.00 and ends at X2e = 100.00 [ft]. Surcharge load, Q3.....None

STRIP LOAD

.....None.....



#### SCALE:

0 2 4 6 8 10 [ft]

TERMI SO KERA	READY TEMPED TO P	
Dino DeLaurentis Residence		Page 3 of 11
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#### TABULATED DETAILS OF GEMERAL SPECIFIED GEOMETRY

Soil profile contains 4 layers. Coordinates in [ft.]

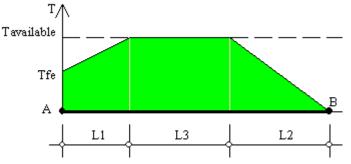
	#	Xi	Yi
Top of Layer 1	1	-50.00	462.71
	2	-0.03	472.71
	2 3	0.00	471.67
	4	0.66	480.00
	5	1.66	480.00
	6	4.57	481.51
	7	4.70	483.50
	8	5.70	483.50
	9	10.00	484.00
Top of Layer 2	10	-50.00	462.71
	11	-0.03	472.71
	12	0.00	471.67
	13	1.00	471.67
	14	1.66	480.00
	15	4.57	481.51
	16	5.57	481.51
	17	5.70	483.50
	18	10.00	484.00
Top of Layer 3	19	-50.00	462.68
	20	-0.03	472.68
	21	0.00	471.64
	22	12.00	471.64
	23	12.70	480.00
	24	12.71	481.47
	25	13.10	483.90
Top of Layer 4	26	-50.00	462.64
	27	-0.03	472.64
	28	0.00	471.60

#### TABULATED DETAILS OF SPECIFIED GEOMETRY

Soil profile contains 4 layers. Coordinates in [ft.]

#	Х	Y1	Y2	Y3	Y4
1	-50.00	462.71	462.71	462.68	462.64
2	-0.03	472.71	472.71	472.68	472.64
3	0.00	471.67	471.67	471.64	471.60
4	0.66	480.00	471.67	471.64	471.60
5	1.00	480.00	471.67	471.64	471.60
6	1.66	480.00	480.00	471.64	471.60
7	4.57	481.51	481.51	471.64	471.60
8	4.70	483.50	481.51	471.64	471.60
9	5.57	483.50	481.51	471.64	471.60
10	5.70	483.50	483.50	471.64	471.60
11	10.00	484.00	484.00	471.64	471.60
12	12.00	484.00	484.00	471.64	471.60
13	12.70	484.00	484.00	480.00	471.60
14	12.71	484.00	484.00	481.47	471.60
15	13.10	484.00	484.00	483.90	471.60

# DISTRIBUTION OF AVAILABLE STRENGTH ALONG EACH REINFORCEMENT LAYER



 $A = Front-end of reinforcement (at face of slope) \\ B = Rear-end of reinforcement \\ AB = L1 + L2 + L3 = Embedded length of reinforcement$ 

Tavailable = Long-term strength of reinforcement Tfe = Available front-end strength (e.g., connection to facing)

L1 = Front-end 'pullout' length L2 = Rear-end pullout length Tavailable prevails along L3

Reinforcement Layer #	Designated Name	Height Relative to Toe [ft]	L [ft]	L1 [ft]	L2 [ft]	L3 [ft]	Tfe [lb/ft]	Tavailable [lb/ft]
1	UX1100MSE	0.67	12.00	0.46	2.00	9.54	1249.72	1436.46
2	UX1100MSE	1.33	12.00	0.46	2.13	9.41	1249.72	1436.46
3	UX1100MSE	2.67	12.00	0.46	2.43	9.11	1249.72	1436.46
4	UX1100MSE	4.00	12.00	0.46	2.82	8.72	1249.72	1436.46
5	UX1100MSE	5.33	12.00	0.46	3.35	8.19	1249.72	1436.46
6	UX1100MSE	6.67	12.00	0.46	4.17	7.37	1249.72	1436.46
7	UX1100MSE	7.33	12.00	0.46	4.72	6.82	1249.72	1436.46
8	UX1100MSE	10.00	5.00	0.00	5.00	0.00	949.00	949.00 (*)
9	UX1100MSE	11.33	5.00	0.00	5.00	0.00	626.07	626.07 (*)

(\*) This Tavailable is dictated by the pullout resistance capacity, which is smaller than the long-term strength of the reinforcement that is related to its specified ultimate strength.

# **RESULTS OF ROTATIONAL STABILITY ANALYSIS**

Results in the tables below represent critical circles identified between specified points on entry and exit. (Theta-exit set to 50.00 deg.) The most critical circle is obtained from a search considering all the combinations of input entry and exit points.

entry oint #	Entry (X,	Point V)		t Point X,Y)		ical C Xc, Yc, R		Fs	STATUS
onn #	(A, [f		()	[ft]	(.	[ft]	()	15	STATUS
1	6.00	483.54	-22.93	468.27	-12.62	483.78	18.62	3.70	
2	7.18	483.67	1.80	480.10	2.77	484.47	4.48	2.45	
3	8.35	483.81	1.78	480.11	2.94	485.73	5.74	2.03	
4	9.52	483.94	1.76	480.11	3.09	487.18	7.20	1.80	
5	10.69	484.00	1.77	480.10	2.99	489.47	9.45	1.68	
6	11.86	484.00	1.82	480.10	3.22	491.36	11.35	1.71	
7	13.04	484.00	1.79	480.10	2.66	495.74	15.67	1.78	
8	14.21	484.00	-11.48	470.50	-2.51	484.63	16.73	1.77	
9	15.38	484.00	-11.47	470.51	-1.47	484.07	16.85	1.66	
0	16.55	484.00	-12.46	470.26	-2.16	486.02	18.82	1.57	
1	17.73	484.00	-13.53	470.08	-2.55	487.47	20.57	1.49	
2	18.90	484.00	-13.67	470.15	-2.86	489.94	22.55	1.44	
3	20.07	484.00	-14.56	469.86	-3.75	492.84	25.41	1.40	
4	21.24	484.00	-14.72	469.91	-4.05	495.63	27.84	1.39	
5	22.42	484.00	-14.68	469.90	-3.90	497.38	29.52	1.39 .	OK
6	23.59	484.00	-14.55	469.84	-4.07	500.06	31.98	1.39	
7	24.76	484.00	-16.85	469.50	-5.77	504.66	36.87	1.40	
8	25.93	484.00	-18.70	469.01	-7.63	510.00	42.46	1.42	
9	27.10	484.00	-17.77	469.24	-7.40	513.31	45.28	1.45	
0	28.28	484.00	-17.67	469.21	-7.53	516.50	48.36	1.48	
1	29.45	484.00	-19.75	468.80	-9.90	524.13	56.20	1.51	
2	30.62	484.00	-22.16	468.44	-11.84	530.75	63.16	1.54	
3	31.79	484.00	-20.80	468.59	-11.47	534.20	66.27	1.58	
4	32.97	484.00	-22.09	468.41	-12.84	540.76	72.93	1.62	
5	34.14	484.00	-24.40	468.02	-15.21	549.58	82.08	1.66	
6	35.31	484.00	-26.01	467.55	-17.81	559.53	92.35	1.70	
7	36.48	484.00	-28.10	467.14	-18.08	560.89	94.28	1.74	
8	37.66	484.00	-27.12	467.36	-16.94	562.10	95.29	1.78	
9	38.83	484.00	-29.28	466.95	-18.35	567.88	101.52	1.82	
0	40.00	484.00	-30.40	466.76	-18.91	572.19	106.06	1.86	

Note: In the 'Status' column, OK means the critical circle was identified within the specified search domain. 'On extreme X-entry' means that the critical result is on the edge of the search domain; a lower Fs may result if the search domain is expanded.

Dino DeLaurentis Residence	
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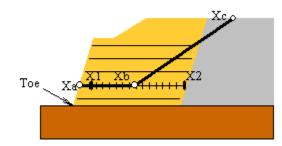
# **RESULTS OF ROTATIONAL STABILITY ANALYSIS**

Results in the tables below represent critical circles identified between specified points on entry and exit. (Theta-exit set to 50.00 deg.) The most critical circle is obtained from a search considering all the combinations of input entry and exit points.

Exit	Exit			<b>onsidering all</b> ry Point		ical Ci			
Point #	(X,			X, Y)		Xc, Yc, R		Fs	STATUS
	<b>[</b> f		,	[ft]		[ft]	,		
1	-30.39	466.82	25.93	484.00	-15.77	519.81	54.97	1.50	
2	-29.33	467.02	25.93	484.00	-15.04	518.91	53.82	1.49	
3	-28.06	467.17	24.76	484.00	-13.74	513.53	48.52	1.47	
4	-27.00	467.36	24.76	484.00	-13.02	512.72	47.46	1.47	
5	-25.94	467.56	24.76	484.00	-12.30	511.90	46.39	1.46	
6	-24.90	467.77	24.76	484.00	-11.58	511.09	45.32	1.45	
7	-23.86	467.98	24.76	484.00	-10.85	510.28	44.26	1.44	
8	-23.03	468.26	23.59	484.00	-9.77	505.88	39.90	1.43	
9	-21.96	468.45	23.59	484.00	-9.06	505.15	38.90	1.42	
10	-20.90	468.65	23.59	484.00	-8.35	504.41	37.90	1.41	
11	-19.83	468.84	23.59	484.00	-7.64	503.68	36.91	1.40	
12	-18.76	469.04	23.59	484.00	-6.93	502.95	35.92	1.40	
13	-17.90	469.32	22.42	484.00	-6.01	499.36	32.31	1.39	
14	-16.82	469.51	22.42	484.00	-5.31	498.70	31.38	1.39	
15	-15.75	469.70	22.42	484.00	-4.61	498.04	30.45	1.39	
16	-14.68	469.90	22.42	484.00	-3.90	497.38	29.52	1.39 .	OK
17	-13.61	470.09	22.42	484.00	-3.20	496.73	28.60	1.39	
18	-12.54	470.28	22.42	484.00	-2.49	496.07	27.68	1.39	
19	-11.50	470.49	21.24	484.00	-1.95	493.78	25.17	1.40	
20	-10.62	470.77	21.24	484.00	-0.80	492.09	23.48	1.41	
21	-9.37	470.88	21.24	484.00	-0.54	492.55	23.40	1.43	
22	-8.52	471.17	21.24	484.00	0.59	490.97	21.80	1.45	
23	-7.45	471.35	21.24	484.00	0.87	491.35	21.66	1.48	
24	-6.27	471.50	22.42	484.00	1.76	492.23	22.23	1.52	
25	-5.23	471.70	21.24	484.00	2.09	490.59	20.26	1.57	
26	-4.31	471.95	22.42	484.00	2.98	491.45	20.81	1.62	
27	-3.17	472.12	22.42	484.00	3.71	490.80	19.91	1.69	
28	-2.22	472.36	22.42	484.00	4.82	489.35	18.39	1.79	
29	-1.25	472.71	25.93	484.00	9.78	484.52	16.16	3.11	
30	-0.08	471.65	21.24	484.00	-7.15	508.45	37.47	1.64	
31	-5.29	471.70	21.24	484.00	2.05	490.63	20.31	1.56	
32	0.06	472.87	21.24	484.00	-2.60	503.65	30.90	1.74	
33	0.18	474.08	20.07	484.00	-1.83	503.00	29.00	1.85	
34	0.10	475.30	20.07	484.00	2.86	496.24	21.12	1.95	
35	0.24	476.52	21.24	484.00	5.20	495.81	19.92	2.04	
36	0.39	477.71	20.07	484.00	5.39	496.01	18.97	2.12	
37	0.53	478.90	18.90	484.00	5.05	498.27	19.89	2.46	
38	1.77	480.10	10.69	484.00	2.99	489.47	9.45	1.68	
39	4.10	481.30	10.69	484.00	5.03	488.43	7.18	2.59	
40	4.60	482.52	18.90	484.00	10.77	492.71	11.92	4.16	

Note: In the 'Status' column, OK means the critical circle was identified within the specified search domain. 'On extreme X-exit' means that the critical result is on the edge of the search domain; a lower Fs may result if the search domain is expanded.

# **RESULTS OF TRANSLATIONAL ANALYSIS**



Results in the table below represent critical two-part wedges identified between specified starting (X1) and ending (X2) search points. Wedges along all reinforcement layers and at elevation zero are reported. The critical two-part wedge, one for each predetermined elevation, is defined by Xa, Xb and Xc where Xa is the front end of the passive wedge (slope face), Xb is where the passive wedge ends and the active one starts, and Xc is the X-ordinate at which the active wedge starts.

Critical two-part wedge along each interface:												
Interface	Height Relative to [ft]		, Ya ) [ft]	<b>`</b>	9, Yb ) [ft]	<b>`</b>	, Yc ) [ft]	Fs	STATUS			
At toe elevation	0.00	0.00	471.67	4.07	471.67	23.80	484.00	1.75	OK			
. Reinf. Layer #1	0.67	0.05	472.34	11.30	472.34	25.19	484.00	1.63	OK			
Reinf. Layer #2	1.33	0.11	473.00	11.30	473.00	24.41	484.00	1.66	OK			
Reinf. Layer #3	2.67	0.21	474.34	12.39	474.34	23.90	484.00	1.71	Minimum on Edge			
Reinf. Layer #4	4.00	0.32	475.67	12.49	475.67	22.42	484.00	1.78	Minimum on Edge			
Reinf. Layer #5	5.33	0.42	477.00	12.69	477.00	21.33	484.00	1.87	Minimum on Edge			
Reinf. Layer #6	6.67	0.53	478.34	12.79	478.34	20.03	484.00	1.99	Minimum on Edge			
Reinf. Layer #7	7.33	0.58	479.00	12.79	479.00	19.43	484.00	2.07	Minimum on Edge			
Reinf. Layer #8	10.00	4.58	481.67	9.38	481.67	12.16	484.00	2.42	OK			
Reinf. Layer #9	11.33	4.67	483.00	9.08	483.00	10.45	484.00	3.67	OK			

Note: In the 'Status' column, OK means the critical two part-wedge was identified within the specified search domain. 'Minimum on Edge' means the critical result corresponds to a minimum on the edge of the search domain; i.e., either on X1 or X2 or the internally preset limits on Xc.

# CRITICAL RESULTS OF ROTATIONAL AND TRANSLATIONAL STABILITY ANALYSES Rotational (Circular Arc; Bishop) Stability Analysis

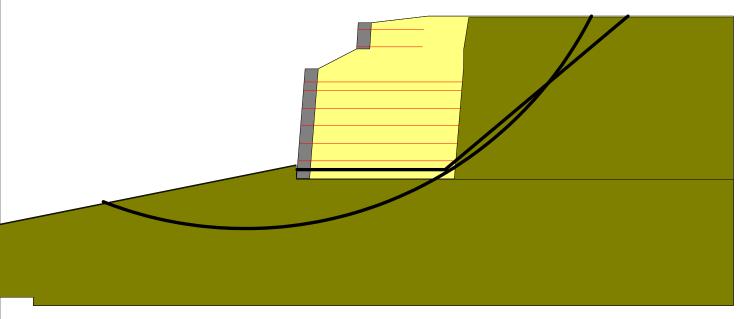
Minimum Factor of Safety = 1.39Critical Circle: Xc = -3.90[ft], Yc = 497.38[ft], R = 29.52[ft]. (Number of slices used = 62)

# Translational (2-Part Wedge; Spencer), Direct Sliding, Stability Analysis

 $\begin{array}{ll} \mbox{Minimum Factor of Safety} = 1.63 \\ \mbox{Critical Two-Part Wedge:} & (Xa = 0.05, Ya = 472.34) \ [ft] \\ & (Xb = 11.30, Yb = 472.34) \ [ft] \\ & (Xc = 25.19, Yc = 484.00) \ [ft] \\ & (Number of slices used = 30) \\ & Interslice resultant force inclination = 25.50 \ [degrees] \end{array}$ 

**Three-Part Wedge Stability Analysis** 

N O T C O N D U C T E D REINFORCEMENT LAYOUT: DRAWING



# SCALE:

0 2 4 6 8 10 [ft]

Dino DeLaurentis Residence Page 10 of 11 Copyright © 2001-2012 ADAMA Engineering, Inc. www.GeoPrograms.com License number ReSSA-301779 QUANTITIES

# **REINFORCEMENT LAYOUT: TABULATED DATA & OUANTITIES**

R	EINFOF	RCEMENT LAYOU	T: TABULA	ATED DATA	A & QUA	NTITIE	S	L <sub>sv</sub> Lre Ember Used in	dded Length		Length of S
Layer #	Reinf. Type #	Geosynthetic Designated Name	Height Relative to Toe [ft]	Embedded Length [ft]	Covergae Ratio, Rc		) front ]	( X, Y [ft	,	Lsv * [ft]	Lre [ft]
1	1	UX1100MSE	0.67	12.00	1.00	0.05	1548.14	12.05	1548.14	0.00	0.00
2	1	UX1100MSE	1.33	12.00	1.00	0.11	1548.80	12.11	1548.80	0.00	0.00
3	1	UX1100MSE	2.67	12.00	1.00	0.21	1550.14	12.21	1550.14	0.00	0.00
1	1	UX1100MSE	4.00	12.00	1.00	0.32	1551.47	12.32	1551.47	0.00	0.00
5	1	UX1100MSE	5.33	12.00	1.00	0.42	1552.80	12.42	1552.80	0.00	0.00
5	1	UX1100MSE	6.67	12.00	1.00	0.53	1554.14	12.53	1554.14	0.00	0.00
7	1	UX1100MSE	7.33	12.00	1.00	0.58	1554.80	12.58	1554.80	0.00	0.00
3	1	UX1100MSE	10.00	5.00	1.00	4.58	1557.47	9.58	1557.47	0.00	0.00
)	1	UX1100MSE	11.33	5.00	1.00	4.67	1558.80	9.67	1558.80	0.00	0.00

\* Vertical distance between layers.

Reinf. Type #	Designated Name	Coverage Ratio	Area of reinforcemnt [ft <sup>2</sup> ] / length of slope [ft]
1	UX1100MSE	1.00	94.00

# Dino DeLaurentis Residence

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# PROJECT IDENTIFICATION

Title:Dino DeLaurentis ResidenceProject Number:20ERS150 -Client:ERSDesigner:NT

#### **Description:**

Tiered Section - sta. 0+88 (Wall 1 panel 53, Wall 2 panel 12)

#### Company's information:

Name: ERS Materials, LLC Street: 116 Edwards Ferry Road NE Unit S

Unit S Leesburg, VA 20176

Telephone #: Fax #: E-Mail:

Original file path and name:V:\2020\20 ..... \Ressa\ReSSA\_Tiered Section - sta. 0+88-Wall 1.MSEOriginal date and time of creating this file:Thu Nov 12 11:06:25 2020

**PROGRAM MODE:** Analysis of a General Slope using GEOSYNTHETIC as reinforcing material.

# INPUT DATA (EXCLUDING REINFORCEMENT LAYOUT)

#### SOIL DATA

======================================	Unit weight, γ [lb/ft <sup>3</sup> ]	Internal angle of friction, $\phi$ [deg.]	Cohesion, c [lb/ft <sup>2</sup> ]
1 Block Face	130.0	0.0	500.0
.2 Reinforced Fill	125.0	30.0	0.0
.3 Retained Soil	125.0	30.0	0.0
.4 Foundation Soil	125.0	30.0	0.0

#### REINFORCEMENT

Reinf	orcement	Ultimate Strength,	Reduction Factor for	Reduction Factor for	Reduction Factor for	Additional Reduction	Coverage Ratio,
Type #	Geosynthetic Designated Name	Tult [lb/ft]	Installation Damage, RFid	Durability,	Creep, RFc	Factor, RFa	Rc
2 UX	1100MSE	3971.52	1.08	1.00	2.56	1.00	1.00
Intera	ction Parameters	== Direct S	Sliding ==	=====	Pullout ===	=	
Type #	Geosynthetic Designated Name	Cds-phi	Cds-c	Ci		Alpha	
2 UX	1100MSE	0.80	0.00	0.80		0.80	

Relative Orientation of Reinforcement Force, ROR = 1.00. Assigned Factor of Safety to resist pullout, Fs-po = 1.50 Design method for Global Stability: AASHTO/FHWA Bishop.

#### WATER

Water is not present

#### SEISMICITY

Not Applicable

#### DRAWING OF SPECIFIED GEOMETRY - GENERAL - Quick Input

-- Problem geometry is defined along sections selected by user at x,y coordinates.

-- X1,Y1 represents the coordinates of soil surface. X2,Y2 represent the coordinates of the end of soil layer 1 and start of soil layer 2, and so on.

#### GEOMETRY

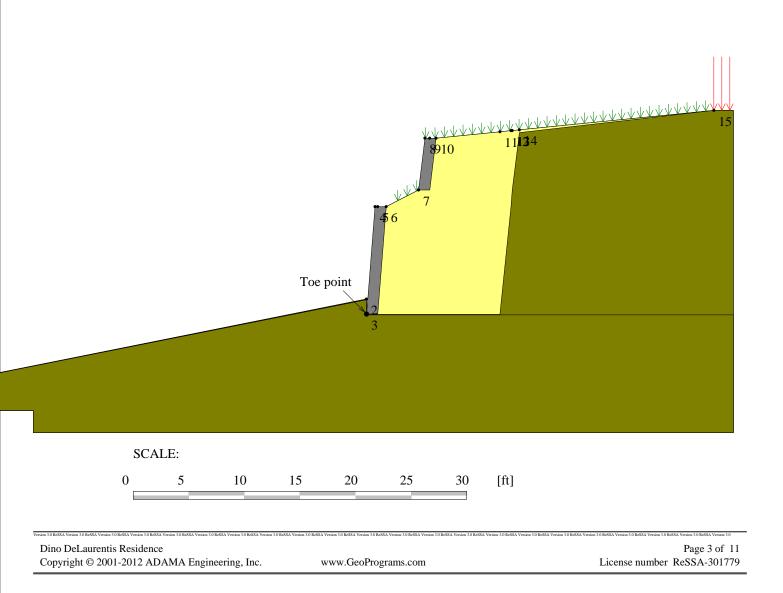
Soil profile contains 4 layers (see details in next page)

#### UNIFORM SURCHARGE

Load Q1 = 100.00 [lb/ft<sup>2</sup>] inclined from verical at 0.00 degrees, starts at X1s = 2.80 and ends at X1e = 31.25 [ft]. Load Q2 = 500.00 [lb/ft<sup>2</sup>] inclined from verical at 0.00 degrees, starts at X2s = 31.25 and ends at X2e = 100.00 [ft]. Surcharge load, Q3.....None

STRIP LOAD

.....None.....



#### TABULATED DETAILS OF GEMERAL SPECIFIED GEOMETRY

Soil profile contains 4 layers. Coordinates in [ft.]

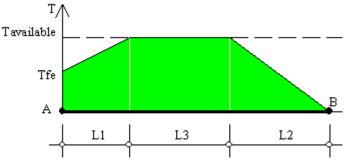
	#	Xi	Yi
Top of Layer 1	1	-50.00	457.00
	2	-0.03	467.02
	2 3	0.00	465.67
	4	0.76	475.34
	5	1.76	475.34
	6	4.68	476.84
	7	5.25	481.50
	8	6.25	481.50
	9	31.25	484.00
Top of Layer 2	10	-50.00	457.00
	11	-0.03	467.02
	12	0.00	465.67
	13	1.00	465.67
	14	1.76	475.34
	15	4.68	476.84
	16	5.68	476.84
	17	6.25	481.50
	18	31.25	484.00
Top of Layer 3	19	-50.00	457.00
	20	-0.03	466.99
	21	0.00	465.64
	22	12.00	465.64
	23	13.00	475.33
	24	13.10	476.81
	25	13.75	482.00
	26	31.25	484.00
Top of Layer 4	27	-50.00	457.00
- •	28	-0.03	466.96
	29	0.00	465.60

#### TABULATED DETAILS OF SPECIFIED GEOMETRY

Soil profile contains 4 layers. Coordinates in [ft.]

#	Х	Y1	Y2	Y3	Y4
1	-50.00	457.00	457.00	457.00	457.00
2	-0.03	467.02	467.02	466.99	466.96
3	0.00	465.67	465.67	465.64	465.60
4	0.76	475.34	465.67	465.64	465.60
5	1.00	475.34	465.67	465.64	465.60
6	1.76	475.34	475.34	465.64	465.60
7	4.68	476.84	476.84	465.64	465.60
8	5.25	481.50	476.84	465.64	465.60
9	5.68	481.50	476.84	465.64	465.60
10	6.25	481.50	481.50	465.64	465.60
11	12.00	482.07	482.07	465.64	465.60
12	13.00	482.18	482.18	475.33	465.60
13	13.10	482.19	482.19	476.81	465.60
14	13.75	482.25	482.25	482.00	465.60
15	31.25	484.00	484.00	484.00	465.60

# DISTRIBUTION OF AVAILABLE STRENGTH ALONG EACH REINFORCEMENT LAYER



 $\begin{aligned} A &= \text{Front-end of reinforcement (at face of slope)} \\ B &= \text{Rear-end of reinforcement} \\ AB &= L1 + L2 + L3 = \text{Embedded length of reinforcement} \end{aligned}$ 

Tavailable = Long-term strength of reinforcement Tfe = Available front-end strength (e.g., connection to facing)

L1 = Front-end 'pullout' length L2 = Rear-end pullout length Tavailable prevails along L3

Factor of safety on resistance to pullout on either end of reinforcement, Fs-po = 1.50	)
--	---

Reinforcement Layer #	Designated Name	Height Relative to Toe [ft]	L [ft]	L1 [ft]	L2 [ft]	L3 [ft]	Tfe [lb/ft]	Tavailable [lb/ft]
1	UX1100MSE	0.67	12.00	0.46	1.51	10.03	1249.72	1436.46
2	UX1100MSE	2.00	12.00	0.46	1.64	9.90	1249.72	1436.46
3	UX1100MSE	3.33	12.00	0.46	1.80	9.74	1249.72	1436.46
4	UX1100MSE	4.67	12.00	0.46	2.00	9.54	1249.72	1436.46
5	UX1100MSE	6.00	12.00	0.46	2.26	9.28	1249.72	1436.46
6	UX1100MSE	7.33	12.00	0.46	2.59	8.95	1249.72	1436.46
7	UX1100MSE	8.67	12.00	0.46	3.05	8.49	1249.72	1436.46
8	UX1100MSE	11.33	7.00	0.46	4.89	1.65	1249.72	1436.46
9	UX1100MSE	12.67	7.00	0.46	6.40	0.14	1249.72	1436.46
10	UX1100MSE	14.00	7.00	0.00	7.00	0.00	1223.48	1223.48 (*)
11	UX1100MSE	15.33	7.00	0.00	7.00	0.00	739.83	739.83 (*

(\*) This Tavailable is dictated by the pullout resistance capacity, which is smaller than the long-term strength of the reinforcement that is related to its specified ultimate strength.

# **RESULTS OF ROTATIONAL STABILITY ANALYSIS**

Results in the tables below represent critical circles identified between specified points on entry and exit. (Theta-exit set to 50.00 deg.) The most critical circle is obtained from a search considering all the combinations of input entry and exit points.

Entry		Point		Point		ical Ci			
Point #	(X,		( )	X, Y)	( )	Xc, Yc, R	)	Fs	STATUS
	[f	t]		[ft]		[ft]			
1	10.00	481.88	-0.03	465.66	-8.32	481.99	18.32	2.15	
2	11.04	481.98	-0.00	465.67	-7.58	482.69	18.63	1.97	
3	12.07	482.08	0.69	474.73	3.19	483.35	8.98	1.82	
4	13.11	482.19	0.69	474.73	2.91	485.09	10.60	1.67	
5	14.14	482.29	-12.72	464.66	-5.18	482.45	19.32	1.61	
6	15.18	482.39	-12.61	464.62	-4.44	482.45	19.61	1.50	
7	16.21	482.50	-13.65	464.43	-4.19	482.50	20.40	1.43	
8	17.24	482.60	-12.73	464.68	-3.83	483.82	21.11	1.39	
9	18.28	482.70	-13.68	464.44	-3.76	484.19	22.09	1.36	
10	19.31	482.81	-14.62	464.18	-4.64	486.23	24.20	1.35	
11	20.35	482.91	-14.87	464.28	-4.85	487.95	25.70	1.33	
12	21.38	483.01	-14.52	464.14	-4.54	488.73	26.54	1.32	
13	22.42	483.12	-15.95	464.09	-5.24	490.68	28.67	1.32	
14	23.45	483.22	-16.96	463.86	-5.97	492.78	30.93	1.31 .	OK
15	24.48	483.32	-15.64	463.95	-5.61	494.42	32.07	1.31	
16	25.52	483.43	-17.67	463.52	-7.17	497.56	35.62	1.32	
17	26.55	483.53	-18.79	463.35	-6.46	496.69	35.54	1.32	
18	27.59	483.63	-19.03	463.43	-6.91	499.34	37.90	1.33	
19	28.62	483.74	-18.90	463.38	-7.01	501.27	39.71	1.33	
20	29.66	483.84	-19.82	463.13	-7.89	504.10	42.67	1.34	
21	30.69	483.94	-20.22	463.24	-8.07	506.31	44.75	1.35	
22	31.73	484.00	-22.20	462.79	-9.81	510.45	49.24	1.36	
23	32.76	484.00	-22.00	462.73	-10.07	513.15	51.81	1.37	
24	33.79	484.00	-21.78	462.68	-10.38	516.05	54.58	1.37	
25	34.83	484.00	-24.29	462.35	-12.33	521.24	60.09	1.38	
26	35.86	484.00	-22.94	462.50	-11.97	523.65	62.13	1.39	
27	36.90	484.00	-24.35	462.35	-13.30	528.53	67.10	1.41	
28	37.93	484.00	-24.41	462.36	-13.03	530.19	68.78	1.43	
29	38.97	484.00	-25.11	462.09	-14.48	535.65	74.33	1.44	
30	40.00	484.00	-25.40	462.12	-15.21	540.35	78.89	1.46	

Note: In the 'Status' column, OK means the critical circle was identified within the specified search domain. 'On extreme X-entry' means that the critical result is on the edge of the search domain; a lower Fs may result if the search domain is expanded.

Dino DeLaurentis Residence	
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# **RESULTS OF ROTATIONAL STABILITY ANALYSIS**

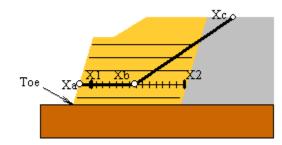
Results in the tables below represent critical circles identified between specified points on entry and exit. (Theta-exit set to 50.00 deg.) The most critical circle is obtained from a search considering all the combinations of input entry and exit points.

Exit Point #		Point		ry Point		ical Ci		Б.	
oint #	( X ,		( .	(X, Y)	(.	Xc, Yc, R	)	Fs	STATUS
	[f	tj		[ft]		[ft]			
1	-30.31	461.11	28.62	483.74	-14.63	508.32	49.75	1.39	
2	-29.24	461.31	28.62	483.74	-13.90	507.58	48.75	1.38	
3	-28.33	461.56	27.59	483.63	-13.04	504.69	45.75	1.37	
4	-27.25	461.76	27.59	483.63	-12.31	503.98	44.79	1.36	
5	-26.18	461.95	27.59	483.63	-11.59	503.28	43.83	1.36	
6	-25.11	462.15	27.59	483.63	-10.87	502.58	42.87	1.35	
7	-24.04	462.34	27.59	483.63	-10.15	501.89	41.92	1.34	
8	-23.09	462.58	26.55	483.53	-9.35	499.31	39.22	1.34	
9	-22.01	462.78	26.55	483.53	-8.63	498.65	38.29	1.33	
10	-21.19	463.05	24.48	483.32	-8.93	497.03	36.12	1.33	
10	-20.11	463.24	24.48	483.32	-8.20	496.35	35.19	1.33	
12	-20.11	463.33	24.48	483.32	-8.20 -7.92	498.29	36.59	1.32	
12	-18.74 -17.79	463.55	23.32 24.48	483.43	-7.92	498.29 495.79	33.95	1.32	
13	-16.96	463.86	23.45	483.22	-5.97	493.79	30.93	1.31	. OK
14	-15.64	463.95	23.43	483.32	-5.61	492.78	32.07	1.31	· UK
15 16	-13.04 -14.66	463.93	24.48	483.32	-4.83	494.42	29.66	1.31	
10		464.18 464.38	23.43 23.45	483.22 483.22	-4.85 -4.09	492.16	29.00 28.76	1.32	
17 18	-13.58 -12.50	464.38 464.57	23.45 23.45	483.22 483.22	-4.09 -3.34	491.52 490.88	28.76 27.87	1.32	
18 19							27.87 26.98		
	-11.43	464.76	23.45	483.22	-2.60	490.25		1.33	
20	-10.43	464.98	22.42	483.12	-1.86	488.27	24.81	1.35	
21	-9.37	465.17	22.42	483.12	-2.91	490.85	26.48	1.36	
22	-8.64	465.46	22.42	483.12	-2.11	490.11	25.50	1.38	
23	-7.41	465.61	22.42	483.12	-1.62	489.91	24.98	1.40	
24	-6.33	465.81	22.42	483.12	-0.81	489.17	24.00	1.43	
25 26	-5.52	466.05	22.42	483.12	-0.95	489.96	24.34	1.46	
26	-4.20	466.21	21.38	483.01	0.61	486.76	21.11	1.50	
27	-3.28	466.46	22.42	483.12	2.94	485.01	19.57	1.61	
28	-2.36	466.77	26.55	483.53	7.08	483.81	19.48	2.10	
29	0.00	465.67	0.00	465.67	0.00	465.67	0.00	N/A	#10 - Overhanging Cliff
30	-0.09	465.64	23.45	483.22	-11.36	505.29	41.22	1.38	
31	-6.91	465.71	22.42	483.12	-1.25	489.57	24.52	1.41	
32	-3.16	466.48	21.38	483.01	2.99	483.83	18.41	1.62	
33	0.07	467.17	22.42	483.12	-8.90	503.37	37.30	1.48	
34	0.15	467.93	21.38	483.01	-4.40	496.81	29.24	1.48	
35	-0.02	468.64	22.42	483.12	-6.49	503.28	35.24	1.62	
36	0.06	469.41	21.38	483.01	-3.87	499.08	29.93	1.61	
37	0.15	470.19	21.38	483.01	-1.00	496.07	25.91	1.77	
38	0.24	470.89	17.24	482.60	-10.59	504.83	35.63	1.73	
39	0.33	471.67	17.24	482.60	-6.10	500.17	29.22	1.63	
40	0.42	472.44	17.24	482.60	-2.91	496.97	24.76	1.79	
41	0.51	473.21	17.24	482.60	-0.96	495.43	22.27	1.65	
42	0.60	473.97	17.24	482.60	1.32	492.95	19.00	1.83	
43	0.69	474.72	15.18	482.39	2.45	488.91	14.29	1.59	
44	1.93	475.49	15.18	482.39	3.79	488.07	12.72	1.59	
45	3.46	476.23	15.18	482.39	5.22	487.12	11.02	1.91	
46	4.67	476.98	16.21	482.50	-0.14	501.86	25.34	2.55	
47	4.68	477.74	15.18	482.39	5.24	490.64	12.91	2.42	
48	4.80	478.48	14.14	482.29	3.02	496.22	17.83	2.42	
49	4.84	479.26	18.28	482.70	7.25	497.80	18.70	3.39	
50	4.97	480.00	16.21	482.50	4.57	508.33	28.33	3.72	

Note: In the 'Status' column, OK means the critical circle was identified within the specified search domain. 'On extreme X-exit' means that the critical result is on the edge of the search domain; a lower Fs may result if the search domain is expanded.

Dino DeLaurentis Residence		Page 8 of 11
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# **RESULTS OF TRANSLATIONAL ANALYSIS**



Results in the table below represent critical two-part wedges identified between specified starting (X1) and ending (X2) search points. Wedges along all reinforcement layers and at elevation zero are reported. The critical two-part wedge, one for each predetermined elevation, is defined by Xa, Xb and Xc where Xa is the front end of the passive wedge (slope face), Xb is where the passive wedge ends and the active one starts, and Xc is the X-ordinate at which the active wedge starts.

Critical two-	part wedge along eac	h inter	face:						
Interface	Height Relative to To [ft]		ı, Ya ) [ft]	<b>`</b>	9, Yb ) [ft]	```	, Yc ) [ft]	Fs	STATUS
At toe elevation	0.00	0.00	465.67	2.13	465.67	27.82	483.66	1.45	OK
Reinf. Layer #1	0.67	0.05	466.34	4.36	466.34	27.27	483.60	1.45	OK
Reinf. Layer #2	2.00	0.16	467.67	5.45	467.67	27.40	483.62	1.51	OK
Reinf. Layer #3	3.33	0.26	469.00	5.55	469.00	25.39	483.41	1.60	OK
Reinf. Layer #4	4.67	0.37	470.34	3.67	470.34	18.42	482.72	1.68	OK
Reinf. Layer #5	6.00	0.47	471.67	4.76	471.67	18.97	482.77	1.67	OK
Reinf. Layer #6	7.33	0.58	473.00	4.86	473.00	18.21	482.70	1.66	OK
Reinf. Layer #7	8.67	0.68	474.34	4.96	474.34	19.69	482.84	1.66	OK
Reinf. Layer #8	11.33	4.70	477.00	11.32	477.00	18.98	482.77	2.00	OK
Reinf. Layer #9	12.67	4.86	478.34	11.52	478.34	17.40	482.61	2.27	OK
Reinf. Layer #10	) 14.00	5.03	479.67	11.72	479.67	15.85	482.46	2.76	OK
Reinf. Layer #11	1 15.33	5.19	481.00	9.52	481.00	10.78	481.95	5.21	OK

Note: In the 'Status' column, OK means the critical two part-wedge was identified within the specified search domain. 'Minimum on Edge' means the critical result corresponds to a minimum on the edge of the search domain; i.e., either on X1 or X2 or the internally preset limits on Xc.

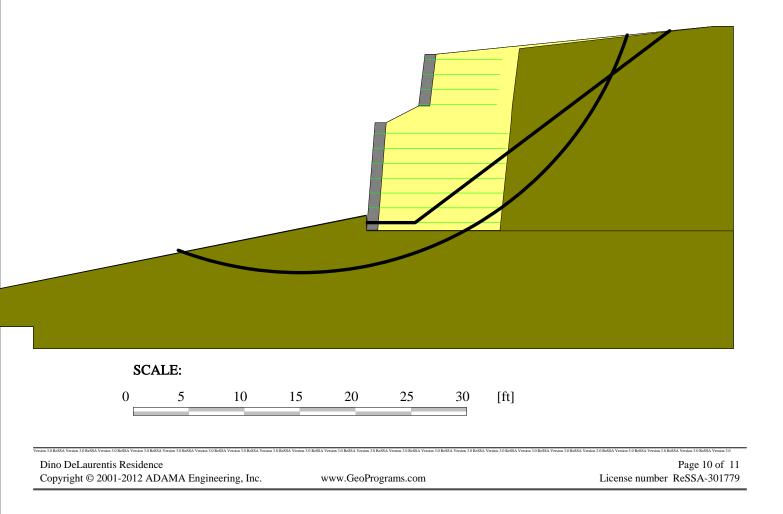
# CRITICAL RESULTS OF ROTATIONAL AND TRANSLATIONAL STABILITY ANALYSES Rotational (Circular Arc; Bishop) Stability Analysis

# Translational (2-Part Wedge; Spencer), Direct Sliding, Stability Analysis

 $\begin{array}{ll} \mbox{Minimum Factor of Safety} = 1.45 \\ \mbox{Critical Two-Part Wedge:} & (Xa = 0.05, Ya = 466.34) [ft] \\ & (Xb = 4.36, Yb = 466.34) [ft] \\ & (Xc = 27.27, Yc = 483.60) [ft] \\ & (Number of slices used = 30) \\ & Interslice resultant force inclination = 34.65 [degrees] \\ \end{array}$ 

**Three-Part Wedge Stability Analysis** 

N O T C O N D U C T E D REINFORCEMENT LAYOUT: DRAWING



QUANTITIES

Lsv

# **REINFORCEMENT LAYOUT: TABULATED DATA & QUANTITIES**

			Height Embedded Covergae							ations		
Layer #	Reinf. Type #	Geosynthetic Designated Name	Relative to Toe [ft]	Length [ft]	Ratio, Rc	( X, Y ) f [ft]	front	( X, Y [ft	,	Lsv * [ft]	Lre [ft]	
1	2	UX1100MSE	0.67	12.00	1.00	0.05 1	528.46	12.05	1528.46	0.00	0.00	
2	2	UX1100MSE	2.00	12.00	1.00	0.16 1	529.79	12.16	1529.79	0.00	0.00	
3	2	UX1100MSE	3.33	12.00	1.00	0.26 1	531.12	12.26	1531.12	0.00	0.00	
4	2	UX1100MSE	4.67	12.00	1.00	0.37 1	532.46	12.37	1532.46	0.00	0.00	
5	2	UX1100MSE	6.00	12.00	1.00	0.47 1	533.79	12.47	1533.79	0.00	0.00	
6	2	UX1100MSE	7.33	12.00	1.00	0.58 1	535.12	12.58	1535.12	0.00	0.00	
7	2	UX1100MSE	8.67	12.00	1.00	0.68 1	536.46	12.68	1536.46	0.00	0.00	
8	2	UX1100MSE	11.33	7.00	1.00	4.70 1	539.12	11.70	1539.12	0.00	0.00	
9	2	UX1100MSE	12.67	7.00	1.00	4.86 1	540.46	11.86	1540.46	0.00	0.00	
10	2	UX1100MSE	14.00	7.00	1.00	5.03 1	541.79	12.03	1541.79	0.00	0.00	
11	2	UX1100MSE	15.33	7.00	1.00	5.19 1	543.12	12.19	1543.12	0.00	0.00	

\* Vertical distance between layers.

Length of Slope

Reinf. Type # $2$	<b>Designated Name</b> UX1100MSE	Coverage Ratio	Area of reinforcemnt [ft <sup>2</sup> ] / length of slope [ft] 112.00
2	UXIIOUMSE	1.00	112.00

# Dino DeLaurentis Residence

Report created by ReSSA(3.0): Copyright (c) 2001-2012, ADAMA Engineering, Inc.

# PROJECT IDENTIFICATION

Title:Dino DeLaurentis ResidenceProject Number:20ERS150 -Client:ERSDesigner:NT

#### **Description:**

Tiered Section - sta. 0+91 (Wall 1 panel 53, Wall 2 panel 12)

#### Company's information:

Name: Street: ERS Materials, LLC 116 Edwards Ferry Road NE Unit S Leesburg, VA 20176

Telephone #: Fax #: E-Mail:

Original file path and name:V:\2020\20 ..... \Ressa\ReSSA\_Tiered Section - sta. 0+91-Wall 1.MSEOriginal date and time of creating this file:Thu Nov 12 11:06:25 2020

**PROGRAM MODE:** Analysis of a General Slope using GEOSYNTHETIC as reinforcing material.

# INPUT DATA (EXCLUDING REINFORCEMENT LAYOUT)

#### SOIL DATA

======================================	Unit weight, γ [lb/ft <sup>3</sup> ]	Internal angle of friction, $\phi$ [deg.]	Cohesion, c [lb/ft <sup>2</sup> ]
1 Block Face	130.0	0.0	500.0
.2 Reinforced Fill	125.0	30.0	0.0
.3 Retained Soil	125.0	30.0	0.0
.4 Foundation Soil	125.0	30.0	0.0

#### REINFORCEMENT

Reinf	Reinforcement		Reduction Factor for	Reduction Factor for	Reduction Factor for	Additional Reduction	Coverage Ratio,
Type #	Geosynthetic Designated Name	Strength, Tult [lb/ft]	Installation Damage, RFid	Durability,	Creep, RFc	Factor, RFa	Rc
2 UX	1100MSE	3971.52	1.08	1.00	2.56	1.00	1.00
Intera	ction Parameters	== Direct S	Sliding ==	=====	Pullout ===	=	
Type # Geosynthetic Designated Name		Cds-phi	Cds-c	Ci		Alpha	
2 UX	1100MSE	0.80	0.00	0.80		0.80	

Relative Orientation of Reinforcement Force, ROR = 1.00. Assigned Factor of Safety to resist pullout, Fs-po = 1.50 Design method for Global Stability: AASHTO/FHWA Bishop.

#### WATER

Water is not present

#### SEISMICITY

Not Applicable

#### DRAWING OF SPECIFIED GEOMETRY - GENERAL - Quick Input

-- Problem geometry is defined along sections selected by user at x,y coordinates.

-- X1,Y1 represents the coordinates of soil surface. X2,Y2 represent the coordinates of the end of soil layer 1 and start of soil layer 2, and so on.

#### GEOMETRY

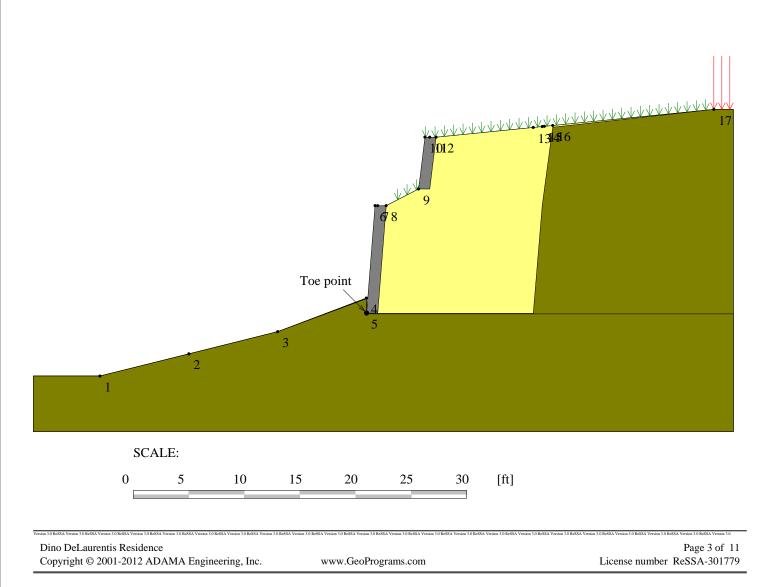
Soil profile contains 4 layers (see details in next page)

#### UNIFORM SURCHARGE

Load Q1 = 100.00 [lb/ft<sup>2</sup>] inclined from verical at 0.00 degrees, starts at X1s = 2.80 and ends at X1e = 31.25 [ft]. Load Q2 = 500.00 [lb/ft<sup>2</sup>] inclined from verical at 0.00 degrees, starts at X2s = 31.25 and ends at X2e = 100.00 [ft]. Surcharge load, Q3.....None

STRIP LOAD

.....None.....



# TABULATED DETAILS OF GEMERAL SPECIFIED GEOMETRY

Soil profile contains 4 layers. Coordinates in [ft.]

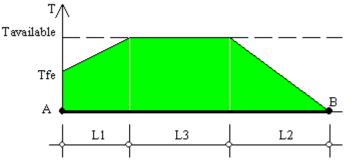
	#	Xi	Yi
Top of Layer 1	1	-24.00	460.00
1 ,	2	-16.00	462.00
	3	-8.00	464.00
	4	-0.03	467.02
	5	0.00	465.67
	6	0.76	475.34
	7	1.76	475.34
	8	4.68	476.84
	9	5.25	481.50
	10	6.25	481.50
	11	31.25	484.00
Top of Layer 2	12	-24.00	460.00
· ·	13	-16.00	462.00
	14	-8.00	464.00
	15	-0.03	467.02
	16	0.00	465.67
	17	1.00	465.67
	18	1.76	475.34
	19	4.68	476.84
	20	5.68	476.84
	21	6.25	481.50
	22	31.25	484.00
Top of Layer 3	23	-24.00	460.00
	24	-16.00	462.00
	25	-8.00	464.00
	26	-0.03	466.99
	27	0.00	465.64
	28	15.00	465.64
	29	15.80	475.33
	30	16.00	476.81
	31	16.75	482.40
	32	31.25	484.00
Top of Layer 4	33	-24.00	460.00
	34	-16.00	462.00
	35	-8.00	464.00
	36	-0.03	466.96
	37	0.00	465.60

#### TABULATED DETAILS OF SPECIFIED GEOMETRY

Soil profile contains 4 layers. Coordinates in [ft.]

#	Х	Y1	Y2	Y3	Y4
1	-24.00	460.00	460.00	460.00	460.00
2	-16.00	462.00	462.00	462.00	462.00
3	-8.00	464.00	464.00	464.00	464.00
4	-0.03	467.02	467.02	466.99	466.96
5	0.00	465.67	465.67	465.64	465.60
6	0.76	475.34	465.67	465.64	465.60
7	1.00	475.34	465.67	465.64	465.60
8	1.76	475.34	475.34	465.64	465.60
9	4.68	476.84	476.84	465.64	465.60
10	5.25	481.50	476.84	465.64	465.60
11	5.68	481.50	476.84	465.64	465.60
12	6.25	481.50	481.50	465.64	465.60
13	15.00	482.38	482.38	465.64	465.60
14	15.80	482.46	482.46	475.33	465.60
15	16.00	482.48	482.48	476.81	465.60
16	16.75	482.55	482.55	482.40	465.60
17	31.25	484.00	484.00	484.00	465.60

# DISTRIBUTION OF AVAILABLE STRENGTH ALONG EACH REINFORCEMENT LAYER



 $\begin{aligned} A &= \text{Front-end of reinforcement (at face of slope)} \\ B &= \text{Rear-end of reinforcement} \\ AB &= L1 + L2 + L3 = \text{Embedded length of reinforcement} \end{aligned}$ 

Tavailable = Long-term strength of reinforcement Tfe = Available front-end strength (e.g., connection to facing)

L1 = Front-end 'pullout' length L2 = Rear-end pullout length Tavailable prevails along L3

Reinforcement Layer #	Designated Name	Height Relative to Toe [ft]	L [ft]	L1 [ft]	L2 [ft]	L3 [ft]	Tfe [lb/ft]	Tavailable [lb/ft]
1	UX1100MSE	0.67	15.00	0.46	1.48	13.06	1249.72	1436.46
2	UX1100MSE	2.00	15.00	0.46	1.61	12.93	1249.72	1436.46
3	UX1100MSE	3.33	15.00	0.46	1.77	12.77	1249.72	1436.46
4	UX1100MSE	4.67	15.00	0.46	1.97	12.57	1249.72	1436.46
5	UX1100MSE	6.00	15.00	0.46	2.20	12.34	1249.72	1436.46
6	UX1100MSE	7.33	15.00	0.46	2.53	12.01	1249.72	1436.46
7	UX1100MSE	8.67	15.00	0.46	2.95	11.59	1249.72	1436.46
8	UX1100MSE	11.33	7.00	0.46	4.89	1.65	1249.72	1436.46
9	UX1100MSE	12.67	7.00	0.46	6.40	0.14	1249.72	1436.46
10	UX1100MSE	14.00	7.00	0.00	7.00	0.00	1223.48	1223.48 (*)
11	UX1100MSE	15.33	7.00	0.00	7.00	0.00	739.83	739.83 (*)

(\*) This Tavailable is dictated by the pullout resistance capacity, which is smaller than the long-term strength of the reinforcement that is related to its specified ultimate strength.

# **RESULTS OF ROTATIONAL STABILITY ANALYSIS**

Results in the tables below represent critical circles identified between specified points on entry and exit. (Theta-exit set to 50.00 deg.) The most critical circle is obtained from a search considering all the combinations of input entry and exit points.

Entry	-	Point		Point		ical Ci			
Point #	(X,		( )	X, Y)	( )	Xc, Yc, R	)	Fs	STATUS
	[f	t]		[ft]		[ft]			
1	10.00	481.88	-15.79	462.19	-10.55	482.06	20.55	2.04	
2	11.04	481.98	-15.73	462.18	-9.78	482.13	20.82	1.86	
3	12.07	482.08	-13.51	462.65	-8.20	482.22	20.27	1.73	
4	13.11	482.19	-14.74	462.44	-9.40	484.41	22.61	1.67	
5	14.14	482.29	0.69	474.73	3.28	485.86	11.43	1.61	
6	15.18	482.39	0.69	474.72	2.45	488.91	14.29	1.59	
7	16.21	482.50	-15.72	462.17	-9.25	487.25	25.90	1.59	
8	17.24	482.60	-15.74	462.23	-5.78	482.99	23.03	1.53	
9	18.28	482.70	-15.69	462.20	-5.73	484.09	24.05	1.46	
10	19.31	482.81	-15.65	462.17	-6.27	486.21	25.81	1.42	
11	20.35	482.91	-15.56	462.14	-5.39	485.98	25.92	1.38	
12	21.38	483.01	-17.90	461.73	-7.15	488.78	29.11	1.35	
13	22.42	483.12	-17.89	461.70	-7.87	491.49	31.43	1.33	
14	23.45	483.22	-18.91	461.45	-7.62	491.58	32.17	1.32	
15	24.48	483.32	-18.89	461.43	-8.05	493.87	34.20	1.31	
16	25.52	483.43	-19.86	461.15	-8.92	496.21	36.73	1.31	
17	26.55	483.53	-19.84	461.14	-9.06	498.05	38.46	1.30	
18	27.59	483.63	-20.76	460.85	-9.54	499.72	40.46	1.30 .	OK
19	28.62	483.74	-20.73	460.84	-10.22	502.82	43.28	1.30	
20	29.66	483.84	-23.09	460.39	-12.06	506.63	47.54	1.30	
21	30.69	483.94	-23.03	460.38	-10.70	505.30	46.58	1.31	
22	31.73	484.00	-22.99	460.37	-10.95	507.66	48.80	1.31	
23	32.76	484.00	-25.24	460.10	-12.78	512.18	53.55	1.31	
24	33.79	484.00	-25.24	460.09	-13.13	515.03	56.25	1.31	
25	34.83	484.00	-25.24	460.08	-13.54	518.08	59.17	1.31	
26	35.86	484.00	-25.24	460.07	-14.01	521.37	62.32	1.32	
27	36.90	484.00	-26.10	460.04	-15.33	526.51	67.34	1.33	
28	37.93	484.00	-25.24	460.06	-15.16	528.78	69.45	1.34	
29	38.97	484.00	-27.62	460.11	-16.51	533.88	74.60	1.36	
30	40.00	484.00	-27.61	460.09	-17.27	538.40	78.99	1.37	

Note: In the 'Status' column, OK means the critical circle was identified within the specified search domain. 'On extreme X-entry' means that the critical result is on the edge of the search domain; a lower Fs may result if the search domain is expanded.

Dino DeLaurentis Residence	
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# **RESULTS OF ROTATIONAL STABILITY ANALYSIS**

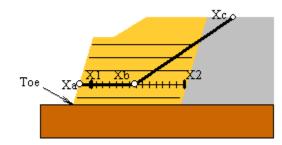
Results in the tables below represent critical circles identified between specified points on entry and exit. (Theta-exit set to 50.00 deg.) The most critical circle is obtained from a search considering all the combinations of input entry and exit points.

Exit	Exit			ry Point		ical Ci		-	
Point #	(X,		( .	X,Y)	( .	Xc, Yc, R	)	Fs	STATUS
	[f	ιj		[ft]		[ft]			
1	-30.19	460.05	32.76	484.00	-14.59	513.75	55.92	1.32	
2	-29.34	460.10	33.79	484.00	-14.77	516.94	58.68	1.32	
3	-28.53	460.16	32.76	484.00	-13.76	512.90	54.76	1.31	
4	-26.98	460.02	33.79	484.00	-13.96	516.03	57.50	1.31	
5	-26.13	460.07	32.76	484.00	-12.91	511.95	53.54	1.31	
6	-25.24	460.11	28.62	483.74	-12.79	504.93	46.52	1.31	
7	-24.02	460.11	28.62	483.74	-12.57	505.06	46.38	1.30	
8	-23.13	460.41	28.62	483.74	-11.79	504.31	45.35	1.30	
9	-22.26	460.73	27.59	483.63	-10.30	500.40	41.43	1.30	
10	-20.76	460.85	27.59	483.63	-9.54	499.72	40.46	1.30	. OK
11	-19.81	461.13	27.59	483.63	-9.23	500.00	40.29	1.30	_
12	-18.84	461.40	27.59	483.63	-8.45	499.30	39.30	1.30	
13	-17.85	461.67	27.59	483.63	-7.67	498.60	38.31	1.30	
14	-16.83	461.94	27.59	483.63	-6.89	497.91	37.32	1.31	
15	-15.70	462.17	26.55	483.53	-5.97	495.41	34.63	1.31	
16	-14.72	462.45	26.55	483.53	-5.20	494.75	33.68	1.32	
17	-13.73	462.72	26.55	483.53	-4.43	494.10	32.73	1.33	
18	-12.76	462.98	25.52	483.43	-5.08	494.66	32.60	1.34	
19	-11.71	463.23	25.52	483.43	-4.27	493.94	31.59	1.35	
20	-10.63	463.48	25.52	483.43	-3.86	493.93	31.20	1.37	
21	-9.54	463.72	25.52	483.43	-3.44	493.90	30.79	1.39	
22	-8.41	463.96	25.52	483.43	-3.00	493.83	30.36	1.41	
23	-7.32	464.30	25.52	483.43	-2.15	493.18	29.33	1.44	
24	-6.25	464.68	25.52	483.43	-2.98	495.43	30.92	1.47	
25	-5.36	465.09	25.52	483.43	-2.51	495.46	30.51	1.51	
26	-4.32	465.47	25.52	483.43	-3.03	497.10	31.66	1.55	
27	-3.23	465.87	24.48	483.32	0.04	491.42	25.75	1.61	
28	-2.10	466.26	22.42	483.12	3.95	483.72	18.48	1.84	
29	0.00	465.67	0.00	465.67	0.00	465.67	0.00	N/A	#10 - Overhanging Cliff
30	-0.07	465.65	26.55	483.53	-12.77	513.32	49.33	1.52	
31	-3.89	465.69	25.52	483.43	-1.54	495.04	29.45	1.57	
32	-1.66	466.45	27.59	483.63	7.72	483.96	19.87	2.21	
33	0.10	467.17	25.52	483.43	-11.31	513.03	47.25	1.64	
34	0.09	467.89	18.28	482.70	-28.02	520.96	60.06	1.61	
35	0.18	468.66	18.28	482.70	-24.16	518.71	55.66	1.73	
36	0.26	469.42	17.24	482.60	-20.13	513.24	48.32	1.67	
37	0.35	470.19	17.24	482.60	-15.54	509.53	42.43	1.80	
38	0.24	470.89	17.24	482.60	-10.59	504.83	35.63	1.73	
39	0.33	471.67	17.24	482.60	-6.10	500.17	29.22	1.63	
40	0.42	472.44	17.24	482.60	-2.91	496.97	24.76	1.79	
41	0.51	473.21	17.24	482.60	-0.96	495.43	22.27	1.65	
42	0.60	473.97	17.24	482.60	1.32	492.95	19.00	1.83	
43	0.69	474.72	15.18	482.39	2.45	488.91	14.29	1.59	
44	1.93	475.49	15.18	482.39	3.79	488.07	12.72	1.59	
45	3.46	476.23	15.18	482.39	5.22	487.12	11.02	1.91	
46	4.67	476.98	16.21	482.50	-0.14	501.86	25.34	2.55	
47	4.68	477.74	15.18	482.39	5.24	490.64	12.91	2.42	
48	4.80	478.48	14.14	482.29	3.02	496.22	17.83	2.42	
49	4.84	479.26	18.28	482.70	7.25	497.80	18.70	3.39	
50	4.97	480.00	16.20	482.50	4.57	508.33	28.33	3.72	

Note: In the 'Status' column, OK means the critical circle was identified within the specified search domain. 'On extreme X-exit' means that the critical result is on the edge of the search domain; a lower Fs may result if the search domain is expanded.

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# **RESULTS OF TRANSLATIONAL ANALYSIS**



Results in the table below represent critical two-part wedges identified between specified starting (X1) and ending (X2) search points. Wedges along all reinforcement layers and at elevation zero are reported. The critical two-part wedge, one for each predetermined elevation, is defined by Xa, Xb and Xc where Xa is the front end of the passive wedge (slope face), Xb is where the passive wedge ends and the active one starts, and Xc is the X-ordinate at which the active wedge starts.

Critical two-	part wedge along ea	ch inter	face:						
Interface	Height Relative to Toe (Xa, Ya) [ft] [ft]		<b>`</b>	( Xb, Yb ) [ft]		( Xc, Yc ) [ft]		STATUS	
. At toe elevation	0.00	0.00	465.67	0.20	465.67	19.22	482.80	1.56	Minimum on Edge
Reinf. Layer #1	0.67	0.05	466.34	1.39	466.34	20.47	482.92	1.57	ОК
Reinf. Layer #2	2.00	0.16	467.67	1.49	467.67	19.56	482.83	1.61	OK
Reinf. Layer #3	3.33	0.26	469.00	2.59	469.00	18.36	482.71	1.65	OK
Reinf. Layer #4	4.67	0.37	470.34	3.68	470.34	18.43	482.72	1.68	OK
Reinf. Layer #5	6.00	0.47	471.67	4.77	471.67	18.98	482.77	1.67	OK
Reinf. Layer #6	7.33	0.58	473.00	4.87	473.00	18.22	482.70	1.66	OK
Reinf. Layer #7	8.67	0.68	474.34	4.97	474.34	19.70	482.85	1.66	OK
Reinf. Layer #8	11.33	4.70	477.00	11.43	477.00	19.11	482.79	2.00	OK
Reinf. Layer #9	12.67	4.86	478.34	11.63	478.34	17.53	482.63	2.27	OK
Reinf. Layer #10	0 14.00	5.03	479.67	11.83	479.67	15.99	482.47	2.75	OK
Reinf. Layer #11	1 15.33	5.19	481.00	9.63	481.00	11.03	481.98	5.23	OK

Note: In the 'Status' column, OK means the critical two part-wedge was identified within the specified search domain. 'Minimum on Edge' means the critical result corresponds to a minimum on the edge of the search domain; i.e., either on X1 or X2 or the internally preset limits on Xc.

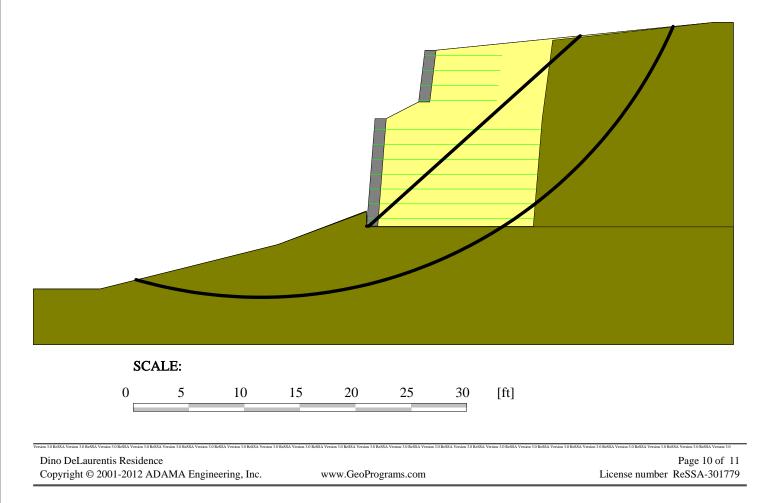
# CRITICAL RESULTS OF ROTATIONAL AND TRANSLATIONAL STABILITY ANALYSES Rotational (Circular Arc; Bishop) Stability Analysis

# Translational (2-Part Wedge; Spencer), Direct Sliding, Stability Analysis

 $\begin{array}{ll} \mbox{Minimum Factor of Safety} = 1.56 \\ \mbox{Critical Two-Part Wedge:} & (Xa = 0.00, Ya = 465.67) [ft] \\ & (Xb = 0.20, Yb = 465.67) [ft] \\ & (Xc = 19.22, Yc = 482.80) [ft] \\ & (Number of slices used = 30) \\ & Interslice resultant force inclination = 42.00 [degrees] \\ \end{array}$ 

#### **Three-Part Wedge Stability Analysis**

N O T C O N D U C T E D REINFORCEMENT LAYOUT: DRAWING



QUANTITIES

Lsv

# **REINFORCEMENT LAYOUT: TABULATED DATA & QUANTITIES**

K	EINFOI	KCEMENT LAYOU	I: TABULATED DATA & QUANTITIES     Embedded Length       Used in Calculations     Used in Calculations							
Layer #	Reinf. Type #	Geosynthetic Designated Name	Height Relative to Toe [ft]	Length [ft]	Ratio, Rc	(X,Y) front [ft]	× /	7) rear [t]	Lsv * [ft]	Lre [ft]
1	2	UX1100MSE	0.67	15.00	1.00	0.05 1528.4	6 15.05	1528.46	0.00	0.0
2	2	UX1100MSE	2.00	15.00	1.00	0.16 1529.7	9 15.16	1529.79	0.00	0.0
3	2	UX1100MSE	3.33	15.00	1.00	0.26 1531.1	2 15.26	1531.12	0.00	0.0
4	2	UX1100MSE	4.67	15.00	1.00	0.37 1532.4	6 15.37	1532.46	0.00	0.0
5	2	UX1100MSE	6.00	15.00	1.00	0.47 1533.7	9 15.47	1533.79	0.00	0.0
6	2	UX1100MSE	7.33	15.00	1.00	0.58 1535.1	2 15.58	1535.12	0.00	0.0
7	2	UX1100MSE	8.67	15.00	1.00	0.68 1536.4	6 15.68	1536.46	0.00	0.0
8	2	UX1100MSE	11.33	7.00	1.00	4.70 1539.1	2 11.70	1539.12	0.00	0.0
9	2	UX1100MSE	12.67	7.00	1.00	4.86 1540.4	6 11.86	1540.46	0.00	0.0
10	2	UX1100MSE	14.00	7.00	1.00	5.03 1541.7	9 12.03	1541.79	0.00	0.0
11	2	UX1100MSE	15.33	7.00	1.00	5.19 1543.1	2 12.19	1543.12	0.00	0.0

\* Vertical distance between layers.

Length of Slope

Reinf. Type # $2$	Designated Name UX1100MSE	Coverage Ratio	Area of reinforcemnt [ft <sup>2</sup> ] / length of slope [ft] 133.00
2	UATIONISE	1.00	155.00

# Dino DeLaurentis Residence

Report created by ReSSA(3.0): Copyright (c) 2001-2012, ADAMA Engineering, Inc.

# PROJECT IDENTIFICATION

Title:Dino DeLaurentis ResidenceProject Number:20ERS150 -Client:ERSDesigner:NT

#### **Description:**

Tiered Section - sta. 1+67 (Wall 1 panel 60, Wall 2 panel 13)

#### Company's information:

Name: ERS Materials, LLC Street: 116 Edwards Ferry R Unit S

116 Edwards Ferry Road NE Unit S Leesburg, VA 20176

Telephone #: Fax #: E-Mail:

Original file path and name:V:\2020\20 ..... \Ressa\ReSSA\_Tiered Section - sta. 1+67-Wall 1.MSEOriginal date and time of creating this file:Thu Nov 12 11:06:25 2020

**PROGRAM MODE:** Analysis of a General Slope using GEOSYNTHETIC as reinforcing material.

# INPUT DATA (EXCLUDING REINFORCEMENT LAYOUT)

#### SOIL DATA

======================================	Unit weight, γ [lb/ft <sup>3</sup> ]	Internal angle of friction, $\phi$ [deg.]	Cohesion, c [lb/ft <sup>2</sup> ]
1 Block Face	130.0	0.0	500.0
.2 Reinforced Fill	125.0	30.0	0.0
.3 Retained Soil	125.0	30.0	0.0
4 Foundation Soil	125.0	30.0	0.0

#### REINFORCEMENT

Reinf	orcement	Ultimate Strength,	Reduction Factor for	Reduction Factor for	Reduction Factor for	Additional Reduction	Coverage Ratio,
Type #	Geosynthetic Designated Name	Tult [lb/ft]	Installation Damage, RFid	Durability,	Creep, RFc	Factor, RFa	Rc
2 UX	1100MSE	3971.52	1.08	1.00	2.56	1.00	1.00
Intera	ction Parameters	== Direct S	Sliding ==	=====	Pullout ===	=	
Type #	Geosynthetic Designated Name	Cds-phi	Cds-c	Ci		Alpha	
2 UX	1100MSE	0.80	0.00	0.80		0.80	

Relative Orientation of Reinforcement Force, ROR = 1.00. Assigned Factor of Safety to resist pullout, Fs-po = 1.50 Design method for Global Stability: AASHTO/FHWA Bishop.

#### WATER

Water is not present

#### SEISMICITY

Not Applicable

# DRAWING OF SPECIFIED GEOMETRY - GENERAL - Quick Input

- -- Problem geometry is defined along sections selected by user at x,y coordinates.
- -- X1,Y1 represents the coordinates of soil surface. X2,Y2 represent the coordinates of the end of soil layer 1 and start of soil layer 2, and so on.

#### GEOMETRY

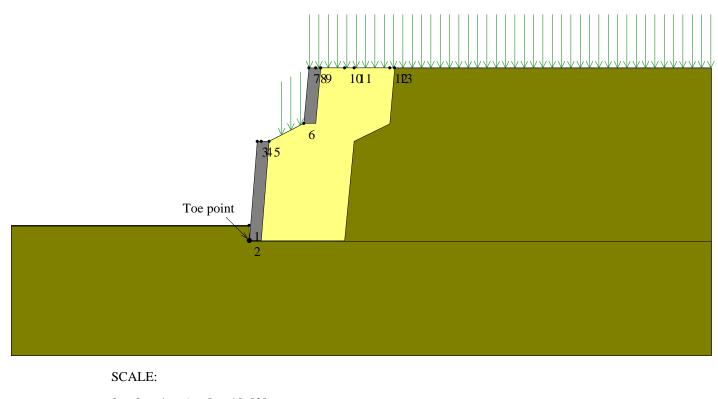
Soil profile contains 4 layers (see details in next page)

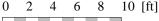
#### UNIFORM SURCHARGE

Load Q1 =  $100.00 [lb/ft^2]$  inclined from verical at 0.00 degrees, starts at X1s = 2.70 and ends at X1e = 100.00 [ft]. Surcharge load, Q2.....None Surcharge load, Q3....None

# STRIP LOAD

.....None.....





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#### TABULATED DETAILS OF GEMERAL SPECIFIED GEOMETRY

Soil profile contains 4 layers. Coordinates in [ft.]

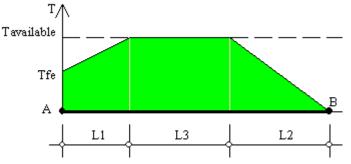
	#	Xi	Yi
Top of Layer 1	1	-0.03	468.94
1	2	0.00	467.67
	3	0.66	476.00
	4	1.66	476.00
	5	4.57	477.51
	6	5.00	482.17
Top of Layer 2	7	-0.03	468.94
1	8	0.00	467.67
	9	1.00	467.67
	10	1.66	476.00
	11	4.57	477.51
	12	5.57	477.51
	13	6.00	482.17
Top of Layer 3	14	-0.03	468.90
	15	0.00	467.64
	16	8.00	467.64
	17	8.80	476.00
	18	11.80	477.47
	19	12.20	482.10
Top of Layer 4	20	-0.03	468.87
	21	0.00	467.60

#### TABULATED DETAILS OF SPECIFIED GEOMETRY

Soil profile contains 4 layers. Coordinates in [ft.]

#	Х	Y1	Y2	Y3	Y4
1	-0.03	468.94	468.94	468.90	468.87
2	0.00	467.67	467.67	467.64	467.60
3	0.66	476.00	467.67	467.64	467.60
4	1.00	476.00	467.67	467.64	467.60
5	1.66	476.00	476.00	467.64	467.60
6	4.57	477.51	477.51	467.64	467.60
7	5.00	482.17	477.51	467.64	467.60
8	5.57	482.17	477.51	467.64	467.60
9	6.00	482.17	482.17	467.64	467.60
10	8.00	482.17	482.17	467.64	467.60
11	8.80	482.17	482.17	476.00	467.60
12	11.80	482.17	482.17	477.47	467.60
13	12.20	482.17	482.17	482.10	467.60

# DISTRIBUTION OF AVAILABLE STRENGTH ALONG EACH REINFORCEMENT LAYER



Tavailable = Long-term strength of reinforcement Tfe = Available front-end strength (e.g., connection to facing)

L1 = Front-end 'pullout' length L2 = Rear-end pullout length Tavailable prevails along L3

Reinforcement Layer #	Designated Name	Height Relative to Toe [ft]	E L [ft]	L1 [ft]	L2 [ft]	L3 [ft]	Tfe [lb/ft]	Tavailable [lb/ft]
1	UX1100MSE	0.67	8.00	0.46	1.71	5.83	1249.72	1436.46
2	UX1100MSE	1.33	8.00	0.46	1.77	5.77	1249.72	1436.46
3	UX1100MSE	2.67	8.00	0.46	2.00	5.54	1249.72	1436.46
4	UX1100MSE	4.00	8.00	0.46	2.23	5.31	1249.72	1436.46
5	UX1100MSE	5.33	8.00	0.46	2.56	4.98	1249.72	1436.46
6	UX1100MSE	6.67	8.00	0.46	2.99	4.56	1249.72	1436.46
7	UX1100MSE	7.33	8.00	0.46	3.25	4.29	1249.72	1436.46
8	UX1100MSE	10.33	7.00	0.46	5.61	0.93	1249.72	1436.46
9	UX1100MSE	11.67	7.00	0.33	6.67	0.00	1249.72	1383.99 (*
10	UX1100MSE	13.00	7.00	0.00	7.00	0.00	999.74	999.74 (*

(\*) This Tavailable is dictated by the pullout resistance capacity, which is smaller than the long-term strength of the reinforcement that is related to its specified ultimate strength.

# **RESULTS OF ROTATIONAL STABILITY ANALYSIS**

Results in the tables below represent critical circles identified between specified points on entry and exit. (Theta-exit set to 50.00 deg.) The most critical circle is obtained from a search considering all the combinations of input entry and exit points.

Entry		Point		t Point		ical C			
oint #	(X,		( )	X,Y)	( )	Xc, Yc, R	R)	Fs	STATUS
	[ft]			[ft]		[ft]			
1	7.00	482.17	-0.08	467.61	-11.89	482.35	18.90	3.52	
2	7.97	482.17	0.06	468.54	-7.83	482.23	15.80	2.82	
3	8.93	482.17	0.03	469.39	-4.77	482.23	13.71	2.32	
4	9.90	482.17	-0.16	467.61	-5.93	482.35	15.83	1.95	
5	10.86	482.17	0.06	469.42	-2.11	482.21	12.98	1.64	
6	11.83	482.17	-0.03	468.53	-2.11	482.32	13.94	1.47	
7	12.80	482.17	0.07	469.43	-0.81	483.03	13.63	1.38	
8	13.76	482.17	0.08	469.43	-1.48	484.81	15.47	1.35	
9	14.73	482.17	0.08	469.42	-2.71	487.41	18.21	1.34	
0	15.69	482.17	0.09	469.42	-3.42	489.65	20.53	1.34	
1	16.66	482.17	-0.11	467.64	-6.51	491.97	25.15	1.34 .	OK
2	17.62	482.17	-0.10	467.64	-6.42	493.44	26.56	1.34	
3	18.59	482.17	-0.10	467.64	-10.67	500.52	34.54	1.35	
4	19.55	482.17	-0.09	467.65	-6.09	496.31	29.28	1.36	
5	20.52	482.17	-0.08	467.66	-5.84	497.70	30.59	1.37	
6	21.48	482.17	-0.07	467.66	-6.32	500.21	33.15	1.38	
7	22.45	482.17	-0.06	467.66	-7.80	504.38	37.53	1.40	
8	23.42	482.17	-0.06	467.66	-8.47	507.50	40.72	1.42	
9	24.38	482.17	-0.05	467.66	-10.47	513.02	46.54	1.44	
20	25.35	482.17	-0.04	467.66	-12.99	519.79	53.71	1.46	
21	26.31	482.17	-0.04	467.66	-14.17	524.51	58.58	1.49	
2	27.28	482.17	-0.03	467.66	-15.45	529.64	63.87	1.51	
3	28.24	482.17	-0.02	467.66	-19.48	540.36	75.26	1.54	
24	29.21	482.17	-0.01	467.67	-21.35	547.33	82.47	1.56	
25	30.17	482.17	-0.01	467.67	-27.47	563.48	99.68	1.59	
26	31.14	482.17	-0.33	467.58	-30.36	573.56	110.16	1.62	
27	32.10	482.17	-0.33	467.58	-33.60	584.86	121.91	1.65	
28	33.07	482.17	-0.33	467.57	-45.40	616.18	155.29	1.68	
.9	34.03	482.17	-0.33	467.57	-51.09	634.79	174.76	1.71	
0	35.00	482.17	-0.33	467.57	-57.75	656.55	197.51	1.74	

Note: In the 'Status' column, OK means the critical circle was identified within the specified search domain. 'On extreme X-entry' means that the critical result is on the edge of the search domain; a lower Fs may result if the search domain is expanded.

Dino DeLaurentis Residence	
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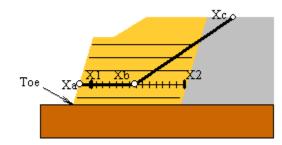
# **RESULTS OF ROTATIONAL STABILITY ANALYSIS**

Results in the tables below represent critical circles identified between specified points on entry and exit. (Theta-exit set to 50.00 deg.) The most critical circle is obtained from a search considering all the combinations of input entry and exit points.

Exit	Exit Point (X,Y)		Entry Point		Crit	entry point	rcle		
Point #			()	X,Y)	()	Xc, Yc, R	)	Fs	STATUS
	[f	t]		[ft]		[ft]			
1	-25.13	469.01	22.45	482.17	-7.99	499.63	35.09	1.67	
2	-24.03	468.98	22.45	482.17	-7.39	498.83	34.18	1.63	
3	-22.98	468.98	21.48	482.17	-6.97	496.55	31.89	1.61	
4	-22.31	469.19	21.48	482.17	-6.37	495.79	31.01	1.57	
5	-21.08	469.07	22.45	482.17	-5.81	497.20	32.01	1.55	
6	-20.11	469.13	20.52	482.17	-5.35	492.97	28.04	1.52	
7	-18.90	469.02	21.48	482.17	-4.76	494.18	28.86	1.50	
8	-17.91	469.07	19.55	482.17	-4.33	490.35	25.25	1.47	
9	-16.73	468.98	19.55	482.17	-3.90	490.19	24.79	1.45	
10	-15.68	468.98	19.55	482.17	-3.28	489.49	23.98	1.43	
11	-14.90	469.14	18.59	482.17	-2.85	487.72	22.14	1.41	
12	-13.79	469.10	18.59	482.17	-2.22	487.06	21.37	1.39	
13	-12.68	469.06	17.62	482.17	-1.78	485.44	19.68	1.38	
14	-11.51	468.98	17.62	482.17	-1.30	485.19	19.17	1.37	
15	-10.72	469.14	17.62	482.17	-0.65	484.57	18.43	1.37	
16	-9.60	469.09	16.66	482.17	-0.19	483.09	16.87	1.37	
17	-8.58	469.10	16.66	482.17	0.33	482.80	16.34	1.38	
18	-7.46	469.04	16.66	482.17	0.85	482.49	15.81	1.39	
19	-6.33	468.99	16.66	482.17	1.23	482.43	15.43	1.43	
20	-5.40	469.04	17.62	482.17	2.09	482.66	15.54	1.47	
21	-4.24	468.98	17.62	482.17	2.64	482.29	14.99	1.52	
22	-3.21	468.99	19.55	482.17	4.28	482.30	15.27	1.80	
23	-2.18	469.01	24.38	482.17	7.71	482.43	16.67	2.62	
24	0.00	467.67	0.00	467.67	0.00	467.67	0.00	N/A	#10 - Overhanging Cliff
25	-0.11	467.64	16.66	482.17	-6.51	491.97	25.15	1.34	
26	0.00	467.67	0.00	467.67	0.00	467.67	0.00	N/A	#10 - Overhanging Cliff
27	-0.01	468.53	16.66	482.17	-4.78	491.37	23.33	1.34	
28	0.09	469.42	15.69	482.17	-3.42	489.65	20.53	1.34	
29	0.18	470.31	15.69	482.17	-3.46	491.14	21.15	1.52	
30	0.09	471.18	14.73	482.17	-0.57	487.30	16.13	1.52	
31	0.19	472.07	14.73	482.17	-0.52	488.59	16.54	1.51	
32	0.30	472.97	14.73	482.17	1.63	486.79	13.89	1.75	
33	0.40	473.86	13.76	482.17	3.12	484.38	10.87	1.69	
34	0.51	474.73	14.73	482.17	3.47	486.38	12.02	1.80	
35	0.61	475.60	13.76	482.17	2.60	488.06	12.62	1.67	
36	2.46	476.48	14.73	482.17	3.09	491.19	14.72	1.74	
37	4.25	477.36	14.73	482.17	4.92	489.70	12.36	2.23	
38	4.56	478.23	13.76	482.17	3.59	493.22	15.02	2.34	
39	4.68	479.12	13.76	482.17	6.06	490.06	11.03	3.67	
40	4.76	479.99	9.90	482.17	3.31	490.57	10.67	3.77	

Note: In the 'Status' column, OK means the critical circle was identified within the specified search domain. 'On extreme X-exit' means that the critical result is on the edge of the search domain; a lower Fs may result if the search domain is expanded.

# **RESULTS OF TRANSLATIONAL ANALYSIS**



Results in the table below represent critical two-part wedges identified between specified starting (X1) and ending (X2) search points. Wedges along all reinforcement layers and at elevation zero are reported. The critical two-part wedge, one for each predetermined elevation, is defined by Xa, Xb and Xc where Xa is the front end of the passive wedge (slope face), Xb is where the passive wedge ends and the active one starts, and Xc is the X-ordinate at which the active wedge starts.

Critical two-part wedge along each interface:											
Interface	Height Relative to Toe (Xa, Ya) [ft] [ft]		( Xb, Yb ) [ft]		( Xc, Yc ) [ft]		Fs	STATUS			
At toe elevation	0.00	0.00	467.67	4.00	467.67	21.91	482.17	1.42	OK		
Reinf. Layer #1	0.67	0.05	468.34	7.30	468.34	22.66	482.17	1.36	ОК		
. Reinf. Layer #2	1.33	0.11	469.00	5.33	469.00	20.48	482.17	1.33	OK		
Reinf. Layer #3	2.67	0.21	470.34	5.43	470.34	19.04	482.17	1.38	OK		
Reinf. Layer #4	4.00	0.32	471.67	5.53	471.67	17.61	482.17	1.45	OK		
Reinf. Layer #5	5.33	0.42	473.00	6.72	473.00	18.04	482.17	1.51	OK		
Reinf. Layer #6	6.67	0.53	474.34	7.80	474.34	16.81	482.17	1.60	OK		
Reinf. Layer #7	7.33	0.58	475.00	7.80	475.00	16.98	482.17	1.65	OK		
Reinf. Layer #8	10.33	4.62	478.00	8.35	478.00	14.53	482.17	2.45	OK		
Reinf. Layer #9	11.67	4.74	479.34	9.41	479.34	14.31	482.17	3.07	OK		
Reinf. Layer #10	0 13.00	4.86	480.67	6.06	480.67	7.23	482.17	3.56	OK		

Note: In the 'Status' column, OK means the critical two part-wedge was identified within the specified search domain. 'Minimum on Edge' means the critical result corresponds to a minimum on the edge of the search domain; i.e., either on X1 or X2 or the internally preset limits on Xc.

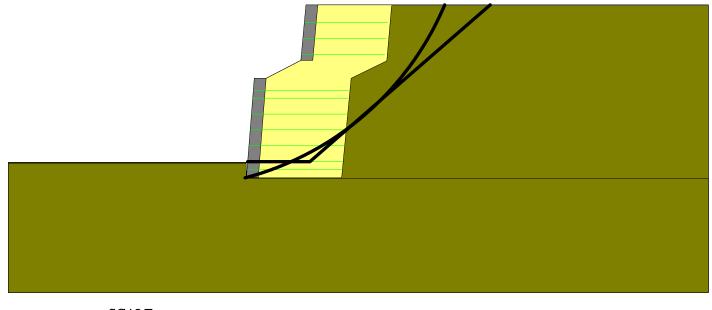
# CRITICAL RESULTS OF ROTATIONAL AND TRANSLATIONAL STABILITY ANALYSES Rotational (Circular Arc; Bishop) Stability Analysis

# Translational (2-Part Wedge; Spencer), Direct Sliding, Stability Analysis

 $\begin{array}{ll} \mbox{Minimum Factor of Safety} = 1.33 \\ \mbox{Critical Two-Part Wedge:} & (Xa = 0.11, Ya = 469.00) [ft] \\ & (Xb = 5.33, Yb = 469.00) [ft] \\ & (Xc = 20.48, Yc = 482.17) [ft] \\ & (Number of slices used = 30) \\ & Interslice resultant force inclination = 35.17 [degrees] \end{array}$ 

**Three-Part Wedge Stability Analysis** 

N O T C O N D U C T E D REINFORCEMENT LAYOUT: DRAWING



# SCALE:

0 2 4 6 8 10 [ft]

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Lsv

Length of Slope

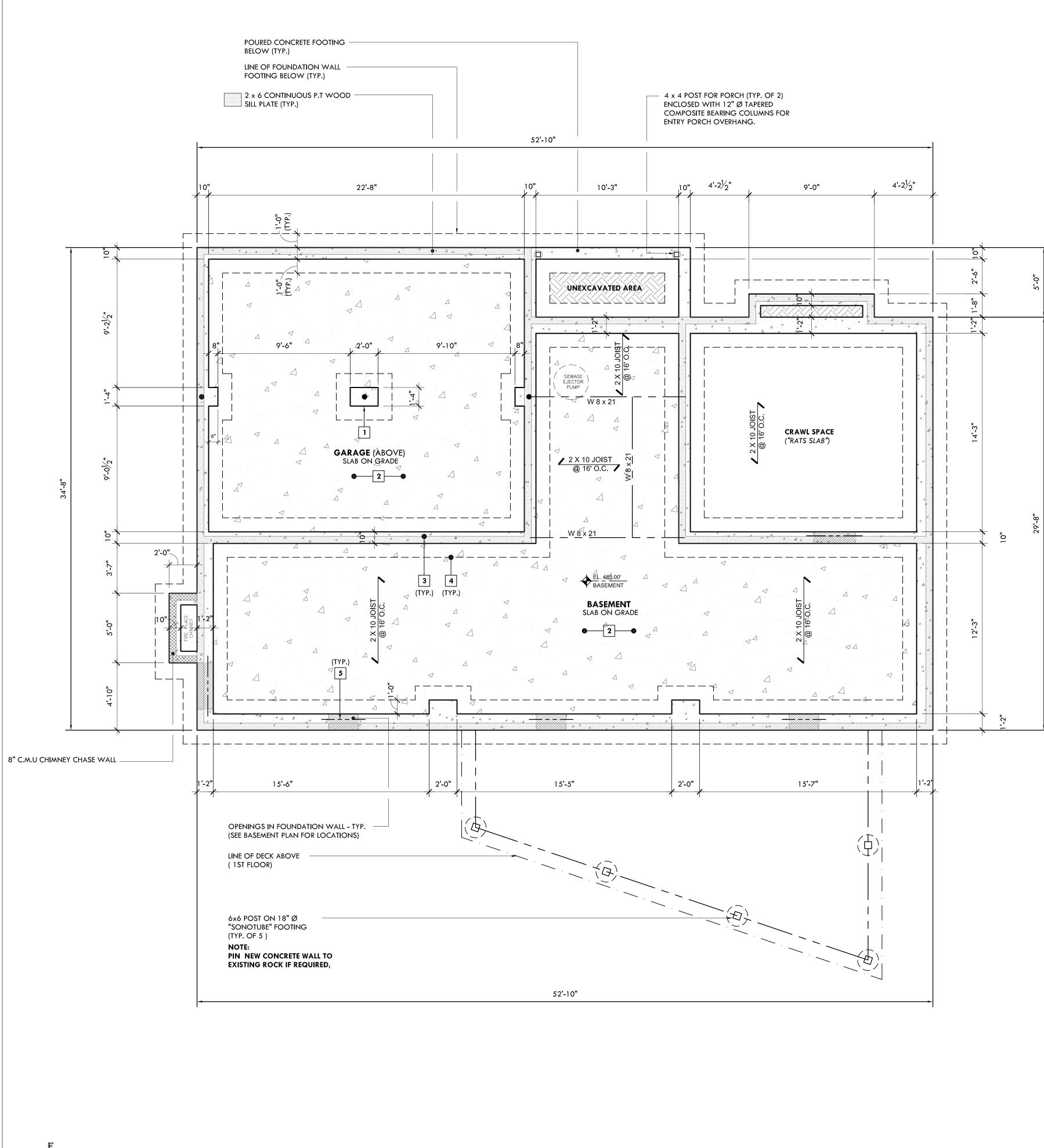
\* Vertical distance between layers.

# **REINFORCEMENT LAYOUT: TABULATED DATA & QUANTITIES**

Layer #	Reinf. Type #	Geosynthetic Designated Name	Height Relative to Toe [ft]	Embedded Length [ft]	Covergae Ratio, Rc	( X, Y [ft]	/	( X, Y [ft	,	Lsv * [ft]	Lre [ft]
1	2	UX1100MSE	0.67	8.00	1.00	0.05	1535.02	8.05	1535.02	0.00	0.00
2	2	UX1100MSE	1.33	8.00	1.00	0.11	1535.68	8.11	1535.68	0.00	0.0
3	2	UX1100MSE	2.67	8.00	1.00	0.21	1537.02	8.21	1537.02	0.00	0.0
4	2	UX1100MSE	4.00	8.00	1.00	0.32	1538.35	8.32	1538.35	0.00	0.0
5	2	UX1100MSE	5.33	8.00	1.00	0.42	1539.68	8.42	1539.68	0.00	0.0
6	2	UX1100MSE	6.67	8.00	1.00	0.53	1541.02	8.53	1541.02	0.00	0.0
7	2	UX1100MSE	7.33	8.00	1.00	0.58	1541.68	8.58	1541.68	0.00	0.0
8	2	UX1100MSE	10.33	7.00	1.00	4.62	1544.68	11.62	1544.68	0.00	0.0
9	2	UX1100MSE	11.67	7.00	1.00	4.74	1546.02	11.74	1546.02	0.00	0.0
10	2	UX1100MSE	13.00	7.00	1.00	4.86	1547.35	11.86	1547.35	0.00	0.0

# QUANTITIES

Reinf. Type #	Designated Name	Coverage Ratio	Area of reinforcemnt [ft <sup>2</sup> ] / length of slope [ft]	
2	UX1100MSE	1.00	77.00	



SCALE: 1/4" = 1'-0"

16" X 24" CONC. PIER ON         3'-0" X 4'-0" X 1'-4" CONC. FTG. W/ 6 #5 BARS BOTH WAYS         4" CONCRETE SLAB W/ 6X6 X 10X10 W.W.M. ON GRAVEL	
& WELL TAMPED FILL W/ POLYURETHANE VAPOR SEAL         10" POURED CONC. W/ #6 BARS @ 10" O.C. VERTICALLY AND 3/8"	
DIA. @ 18" O.C. HORIZONTALLY         4         CONC. FTG. W/ 4 #5 BARS CONT.	
5 PROVIDE STEEL LINTEL AT ALL OPENINGS	JEFFREY
	ARCHITECT
	572 NORTH BROADWAY
	WHITE PLAINS, NEW YORK 106
	TEL 914 289 0011
	SSTERED ARCHINE
	OF NEW YOR
	DEC 1 4 2020
	COMMENTS
	PER RPRC
	SED
	NS:
	REVISIONS: 12.14.20 R
	PROJECT NO. 94 START DATE: 08.02
	DRAWN BY: FTA (R SCALE: AS NOT
	SHEET TITLE:
	FOUNDATION PLAN
	504 C E
	IIS RESIDENCE CONSTRUCTION MONTAVENUE H CASTLE, NY 10504
	STRU AVEN TLE, N
	- / 4
	<b>UREN</b> HOUSE
	DELA New
	неет NO: SHEET NO: S-100.00