

# HEADRICK RESIDENCE

## 8822 S.E. 62ND STREET, MERCER ISLAND, WA. 98040

Ned Nelson, Architect

11773 Sunrise Drive NE  
Bainbridge Island, WA 98110  
telephone: 425.444.6782  
email: nednelson@msn.com

HEADRICK RESIDENCE

8822 S.E. 62ND STREET,  
MERCER ISLAND, WA. 98040

REVISIONS:

Mark	Date

DATE: 05/28/19

PROJECT INFORMATION

SHEET:  
**A1**

### POOL NOTES / CERTIFICATIONS

WDDJ.E164833  
Swimming Pool and Spa Cover Operators, Electric

Page Bottom

Swimming Pool and Spa Cover Operators, Electric

See General Information for Swimming Pool and Spa Cover Operators, Electric

LATHAM POOL PRODUCTS INC. E164833  
3795 W 205 St  
Linden, UT 84042-1662 USA

Pool cover operators, Models CS-1800, CS-1800 CL, CS-1800 CO, CS-1800 SS, CS-1800 SW,  
Pool cover operator accessory, pool cover drain pump, Model AD-1100,  
Pool cover operator and safety cover, Model Infinity 4000, Classified in accordance with ASTM F1334P-91 (Reapproved 2010).

Last Updated on 2015-01-09

Questions? Print this page Terms of Use Page Top

The appearance of a company name or product in this database does not in itself assure that products identified have been manufactured under a UL Following Service. Only those products bearing the UL Mark should be considered to be certified and covered under UL's Following Service. Always look for the UL Mark on the products.

UL certifies the production of the material contained in the Online Certifications Directory subject to the following conditions: 1. The Online Certifications Directory, its content, and the information contained therein, are the property of UL and are not to be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of UL. 2. The information contained in the Online Certifications Directory is provided as a service to the public and is not intended to constitute an offer of insurance or any other financial product. 3. The information contained in the Online Certifications Directory is not to be used in any way that would imply an endorsement or approval of the product or service by UL. 4. The information contained in the Online Certifications Directory is not to be used in any way that would imply a warranty or guarantee of any kind. 5. The information contained in the Online Certifications Directory is not to be used in any way that would imply a liability of any kind. 6. The information contained in the Online Certifications Directory is not to be used in any way that would imply a responsibility of any kind. 7. The information contained in the Online Certifications Directory is not to be used in any way that would imply a risk of any kind. 8. The information contained in the Online Certifications Directory is not to be used in any way that would imply a loss of any kind. 9. The information contained in the Online Certifications Directory is not to be used in any way that would imply a damage of any kind. 10. The information contained in the Online Certifications Directory is not to be used in any way that would imply a harm of any kind. 11. The information contained in the Online Certifications Directory is not to be used in any way that would imply a death of any kind. 12. The information contained in the Online Certifications Directory is not to be used in any way that would imply a disability of any kind. 13. The information contained in the Online Certifications Directory is not to be used in any way that would imply a loss of life of any kind. 14. The information contained in the Online Certifications Directory is not to be used in any way that would imply a loss of limb of any kind. 15. The information contained in the Online Certifications Directory is not to be used in any way that would imply a loss of property of any kind. 16. The information contained in the Online Certifications Directory is not to be used in any way that would imply a loss of reputation of any kind. 17. The information contained in the Online Certifications Directory is not to be used in any way that would imply a loss of honor of any kind. 18. The information contained in the Online Certifications Directory is not to be used in any way that would imply a loss of respect of any kind. 19. The information contained in the Online Certifications Directory is not to be used in any way that would imply a loss of dignity of any kind. 20. The information contained in the Online Certifications Directory is not to be used in any way that would imply a loss of peace of mind of any kind. 21. The information contained in the Online Certifications Directory is not to be used in any way that would imply a loss of sleep of any kind. 22. The information contained in the Online Certifications Directory is not to be used in any way that would imply a loss of appetite of any kind. 23. The information contained in the Online Certifications Directory is not to be used in any way that would imply a loss of energy of any kind. 24. The information contained in the Online Certifications Directory is not to be used in any way that would imply a loss of strength of any kind. 25. The information contained in the Online Certifications Directory is not to be used in any way that would imply a loss of health of any kind. 26. The information contained in the Online Certifications Directory is not to be used in any way that would imply a loss of happiness of any kind. 27. The information contained in the Online Certifications Directory is not to be used in any way that would imply a loss of joy of any kind. 28. The information contained in the Online Certifications Directory is not to be used in any way that would imply a loss of love of any kind. 29. The information contained in the Online Certifications Directory is not to be used in any way that would imply a loss of life of any kind. 30. The information contained in the Online Certifications Directory is not to be used in any way that would imply a loss of anything of any kind.

Only those products bearing the UL Listing Mark for the US and Canada should be considered as being covered by UL's Listing and Follow-Up Service meeting the appropriate requirements for US and Canada.

The UL Listing Mark for the US and Canada generally includes the UL in a circle symbol with "U" and "C" identifiers. On the word "LISTED", a control number may be alphanumeric assigned by UL, and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product

**William R. Carney**  
Director, North American Certification Programs  
Underwriters Laboratories Inc.  
Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.  
For questions, please contact a local UL Customer Service Representative or [help@ul.com](mailto:help@ul.com) or <http://www.ul.com/customer-service>

**CONFORMANCE:**  
ALL MATERIAL AND CONSTRUCTION METHODS SHALL CONFORM TO CHAPTER 246-260 WAC, "WATER RECREATION FACILITIES" PUBLISHED BY THE WASHINGTON STATE DEPARTMENT OF HEALTH, INTERNATIONAL BUILDING CODE, NATIONAL ELECTRICAL CODE, UNIFORM MECHANICAL CODE (LATEST ADDITIONS) AND INTERNATIONAL SWIMMING POOL & SPA CODE 2015 CHAPTERS 3 & 8, ELECTRICAL CODE AND UNIFORM MECHANICAL CODE (LATEST ADDITIONS) AS MODIFIED BY THE LOCAL PERMIT AGENCY.

**DESIGN CRITERIA:**  
THE POOL WALLS ARE DESIGNED TO MEET THE LOAD REQUIREMENTS RESULTING WHEN THE POOL IS EMPTY ASSUMING LATERAL EARTH PRESSURE (EQUIVALENT FLUID PRESSURE OF 55 PSF) ON THE ENTIRE HEIGHT OF WALL AND ALSO RESULTING WHEN THE POOL IS FULL OF WATER ASSUMING NO LATERAL EARTH RESISTANCE FOR THE TOP 2-1/2 FEET OF THE WALL. IT IS FURTHER ASSUMED THAT THE POOL SHALL BE Poured AGAINST FIRM UNDISTURBED SOIL ALLOWING THAT THE TOP 2-1/2 FEET OF WALL MAY BE FORMED AND FILL PROVIDED IN BACK THEREOF. THE SOIL SHALL HAVE A MINIMUM SOIL BEARING CAPACITY OF 1,500 PSF. THE POOL IS NOT DESIGNED AGAINST HYDROSTATIC UPLIFT WHEN EMPTY AND THEREFORE A PRESSURE RELIEF VALVE IS TO BE PROVIDED AT THE LOWEST POINT. THIS TYPE OF POOL ELIMINATES THE USE OF FORMS ON MOST OF THE WORK AND THEREFORE IT'S USE IS LIMITED TO SOILS WHICH CAN BE SHAPED TO THE DESIRED CONTOUR AND WHICH WILL RETAIN ITS SHAPE UNTIL THE GUNITE IS PLACED.

**CONCRETE:**  
**GUNITE:** 1 PART CEMENT, 4-1/2 PARTS OF SAND, BASED ON DRY AND LOOSE VOLUME; 2,500 PSI @28 DAYS. PORTLAND CEMENT TYPE I OR II, ASTM C-150, SEVEN SACK MIX.

**REINFORCEMENT:**  
REINFORCING STEEL, DEFORMED INTERMEDIATE GRADE, F<sub>y</sub> = 40,000 PSI, ASTM A-15. LAP SPLICES 40 DIAMETERS; SUPPORT ON CONCRETE BLOCKS AND TIE WITH 16 GAGE ANNEALED WIRE; 2" MINIMUM COVER BETWEEN EARTH AND STEEL.

**CONSTRUCTION:**  
MAXIMUM LENGTH OF POOL WITHOUT CONTROL JOINT IS 60'-0". GUNITE IS TO BE PLACED MONOLITHIC AND PNEUMATICALLY.

**EARTH SURFACES:**  
TO BE THOROUGHLY COMPACTED AND NEATLY TRIMMED TO LINE AND GRADE.

**ENERGY CODE**  
PROVIDE POOL/SPA EQUIPMENT, COVERS, PIPING INSULATION, MOTORS, ETC. IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF 2015 WSEC SECTIONS R403.10.1 THROUGH R403.10.4.2 AND APSP-15. HEATERS, TIME SWITCHES AND COVERS TO CONFORM TO ISPSC 2015 SECTION 303 & 316.

### Certificate of Compliance

Certificate Number 20110728 - E211895 Page 1 of 1  
Report Reference E211895 - 2002 September 04  
Issue Date 2011 July 28

Issued to: **POOL COVER SPECIALISTS NATIONAL INC**  
8553 S 2940 W  
WEST JORDAN, UT 84088 USA

This is to certify that representative samples of **Covers for Swimming Pools and Spas**  
Manual Safety Cover, Model Life-Lock Dual-Pin Manual Safety Cover.

Have been investigated by Underwriters Laboratories in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: **ASTM F1346, "Standard Performance Specification for Safety Covers and Labeling Requirements for All Covers for Swimming Pools, Spas and Hot Tubs."**

Additional Information: See UL On-line Certification Directory at [WWW.UL.COM](http://WWW.UL.COM) for additional information.

Only those products bearing the UL Listing Mark for the US and Canada should be considered as being covered by UL's Listing and Follow-Up Service meeting the appropriate requirements for US and Canada.

The UL Listing Mark for the US and Canada generally includes the UL in a circle symbol with "U" and "C" identifiers. On the word "LISTED", a control number may be alphanumeric assigned by UL, and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product

**William R. Carney**  
Director, North American Certification Programs  
Underwriters Laboratories Inc.  
Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.  
For questions, please contact a local UL Customer Service Representative or [help@ul.com](mailto:help@ul.com) or <http://www.ul.com/customer-service>

**MAKE-UP WATER**  
IF NOT OTHERWISE PROVIDED FOR IN THE DRAWINGS, MAKE-UP WATER SHALL BE PROVIDED BY HOSE BIBB LOCATED IN POOL DECK AREA BY OWNER. VACUUM BREAKER PROTECTION SHALL BE PROVIDED.

**DUAL DRAIN SEPARATION**  
POOL FACILITY PUMP CIRCULATION SYSTEMS SHALL BE PROVIDED WITH A MINIMUM OF TWO (2) SUCTION OUTLETS OF THE APPROVED TYPE. A MINIMUM HORIZONTAL OR VERTICAL DISTANCE OF THREE (3) FEET SHALL SEPARATE SUCH OUTLETS. THESE SUCTION OUTLETS SHALL BE PIPED SO THAT WATER IS DRAWN THROUGH THEM SIMULTANEOUSLY THROUGH A VACUUM RELIEF-PROTECTED LINE TO THE PUMP OR PUMPS. SUCTION ENTRAPMENT AVOIDANCE SHALL CONFORM TO APSP 7.

**SYSTEM DESIGN**  
A CIRCULATION SYSTEM CONSISTING OF PUMPS, PIPING, RETURN INLETS AND OUTLETS, FILTERS, AND OTHER NECESSARY EQUIPMENT SHALL BE PROVIDED FOR THE COMPLETE CIRCULATION OF WATER. WATER VELOCITY, PIPING AND FITTINGS SHALL CONFORM TO ISPSC 2015 SECTIONS 311.3 & 311.4. CIRCULATION SYSTEM PIPING EQUIPMENT SHALL BE SUBJECTED TO A HYDROSTATIC PRESSURE TEST PER ISPSC 2015 SECTION 311.9. CIRCULATION SYSTEM EQUIPMENT SHALL BE SIZED TO PROVIDE A TURNOVER OF THE POOL WATER WAS NOT LESS THAN ONCE EVERY 12 HOURS. THE SYSTEM SHALL BE DESIGNED TO PROVIDE THE REQUIRED TURNOVER RATE BASED ON THE MANUFACTURER'S SPECIFIED MAXIMUM FLOW RATE OF THE FILTER, WITH A CLEAN MEDIA CONDITION OF THE FILTER.

**SANITIZING EQUIPMENT**  
WHERE INSTALLED, CHEMICAL FEED SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS CHEMICAL FEED PUMPS SHALL BE WIRED SO THAT THEY CANNOT OPERATE UNLESS THERE IS ADEQUATE RETURN FLOW TO DISBURSE THE CHEMICAL THROUGHOUT THE POOL OR SPA AS DESIGNED.

**LIGHTING**  
WHERE LIGHTING IS INSTALLED FOR, AND IN, RESIDENTIAL POOLS AND PERMANENT SPAS, SUCH LIGHTING SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 OR THE INTERNATIONAL RESIDENTIAL CODE, AS APPLICABLE.

**BONDING**  
ALL METALLIC COMPONENTS OF THE POOL AND SPA SHALL BE BONDED AND GROUNDED. #8 SOLID WIRE SHALL BE USED TO BOND ALL EQUIPMENT TOGETHER WITH APPROVED PRESSURE CONNECTORS. ALL ELECTRICAL EQUIPMENT LOCATED WITHIN 5 FEET OF THE WATER'S EDGE MUST BE GROUNDED, I.E. JUNCTION BOXES, TRANSFORMERS, PANELBOARDS, WET AND DRY NICHE LIGHTS, MOTORS, ETC.

### DESIGN CRITERIA

#### DESIGN CRITERIA PER THE 2015 INTERNATIONAL BUILDING CODE

**EARTHQUAKE PER SECTION 1613**  
Design Per ASCE 7-10  
Section 12.8 Equivalent Lateral Force Procedure

Base Shear:  $V = C_s * W$   
 $C_s$  = Seismic Response Coefficient  
 $W$  = Effective Seismic Weight

Site / Project Specific Design Values:  
 $S_s$  = 1.45 per USGS  
Site Class D (Default)  
 $R$  = 6.5 from Table 12.2-1  
 $C_s$  = 0.1487 per Section 12.8.1.1

$S_1$  = 0.56 per USGS  
Seismic Design Category D  
Risk Category II from Table 1.5-1  
 $I_e$  = 1.00 from Table 1.5-2

**WIND DESIGN PER SECTION 1609 (Allowable Stress Design)**  
Design per ASCE 7-10 Section 28.6

Design Wind Pressure:  $P_s = \lambda * I_e * K_{zt} * PS_{30}$   
where:  $\lambda$  = Exposure Factor  
 $K_{zt}$  = Topographic Factor  
 $I_e$  = Importance Factor  
 $PS_{30}$  = Base Design Pressure

Site/Project Specific Values:  
Basic Wind Speed = 110 mph ( $V_{30}$ )  
 $\lambda$  = 1.00 Exposure "B" ("C") "Urban Clustered Area"  
 $K_{zt}$  = 1.30  
 $I_e$  = 1.00  
 $PS_{30}$  = see ASCE 7-10, Figure 28.6.1

**STANDARD DESIGN INFORMATION**  
The information described below is to be used unless otherwise noted on the plans

WOOD DESIGN per Section 2301, Allowable Strength Design, ANSI/AWC SDPWS 2015 & AF & PA NDS 2015 when applicable; per 2308 Conventional Light-Frame Construction

MINIMUM NAILING REQUIREMENTS per Table 2304.10.1

ANCHOR BOLTS:  
5/8"  $\phi$  x 10", A307 or better, w/ 7" min. Embedment.  $V = 1.6 \times 860 = 1376 \#$  / bolt

CONCRETE DESIGN per Chapter 19 & ACI 318-14  
Concrete:  $f'_c = 2500$  psi  
Rebar:  $f'_y = 40,000$  psi

MISCELLANEOUS HARDWARE  
SIMPSON Strong-Tie Connectors or equal

### PROJECT INFORMATION

**ADDRESS:** 8822 62ND STREET, MERCER ISLAND, WA 98040  
TAX ID 865050-0040

**SCOPE OF WORK:**  
REMOVE 593 SF OF EXISTING SHEDS / REMOVE PATIO AS INDICATED ON SITE PLAN  
CONSTRUCT NEW DETACHED GARAGE OVER EXISTING PAVED AREA - 792 SF  
CONSTRUCT NEW SWIMMING POOL TO REPLACE EXISTING (NEW LAYOUT)  
CONSTRUCT NEW PERVIOUS DECK SURROUNDING NEW POOL  
EXTEND EXISTING PAVED DRIVEWAY AS INDICATED ON SITE PLAN

### BUILDING CODES

**REQUIRED CODES:** **ENERGY ENVELOPE: N / A**

IBC 2015  
IRC 2015  
DETACHED GARAGE WILL BE UNHEATED.

**CONSTRUCTION:**  
VB - NOT SPRINKLERED  
(NOTE TYPE R FIRE SPRINKLER SYSTEM WILL BE ADDED AS PART OF PHASE 2 ADDITION TO RESIDENCE).

**NOTE:** AVERAGE BUILDING ELEVATION / ON SITE PLAN SHEET A2  
**NOTE:** LOT SLOPE CALCULATION / ON SITE PLAN SHEET A2

**SURVEY / ACCURACY STATEMENT:**  
SURVEYOR TO FIELD VERIFY MAXIMUM HEIGHT OF DETACHED GARAGE AND PROVIDE STATEMENT OF ACCURACY.

**OWNER:** Greg & Jennifer Headrick / 8822 S.E. 62nd Street, Mercer Island, WA 98040

**DESIGN CONSULTANTS**  
**ARCHITECTURE:** Ned Nelson, Architect / 11773 Sunrise Drive NE, Bainbridge Island, Washington 98110  
425.444.6782 / nednelson@msn.com

**STRUCTURAL:** WELLER CONSULTING Mark Weller / 21925 Bothell, WA 98021  
425.488.9868 / 425.486.6715 fax

**CIVIL:** BUSH, ROED & HITCHINGS, INC. Ted Dimof, PE / Engineering Division Manager / Principal  
2009 Minor Avenue East, Seattle, WA 98102  
206.323.4144 / 206.720.3572 / tedd@brhinc.com

**GEOTECHNICAL ENGINEER:** GEOTECH CONSULTANTS / Robert Ward / 2401 10th Ave E, Seattle, WA 98102  
425.747.5618 / geotech@geotechnw.com

**CRITICAL AREAS:** WETLAND RESOURCES, INC. / Niels Pedersen / 9505 19th Ave SE, Suite 106, Everett, WA 98208  
425.337.3174 / Niels@wetlandresources.com

**SURVEYOR:** TERRANE Edwin J.Green Jr. / 10801 Main Street, Suite 102, Bellevue, WA 98004  
425.458.4488 / support@terrane.net

**POOL CONSULTANT:** KRISCO AQUATECH POOLS & SPAS Mark Muir, Design Consultant / 17537 132nd Ave. NE, Woodinville, WA 98072  
206.226.2433 / 425.487.6400 / 425.486.9696 fax

**POOL ENGINEERING:** MITCHELL ENGINEERING / 7821 168th Ave NE, Redmond, WA 98052  
425.747.1500 / mitchellengineeringinc@comcast.net

**ARBORIST:** ARBORISTS NW, LLC Neal Baker / ArboristsNW.com / ISA Cert. PN1075A / TRAQ ISA (Tree Risk Assessment Qualified)  
Member AREA & SOCA  
206.779.2579 / neal@arboristsnw.com

### INDEX TO DRAWINGS

ARCHITECTURAL		TREE INVENTORY: SURVEY WITH TREE NUMBERS ADDED	
SHEET	DESCRIPTION		
	CITY OF MERCER ISLAND COVER SHEET		
A1	PROJECT INFORMATION		
	SURVEY		
A2	SITE PLAN		
A2.1	EASEMENTS		
A3	GARAGE FLOOR PLAN - FOUNDATION PLAN - ROOF FRAMING PLAN - DETAILS		
A4	ELEVATIONS - SECTION		
A5	GARAGE WALL SECTIONS		
A6	POOL & DECK DETAILS		

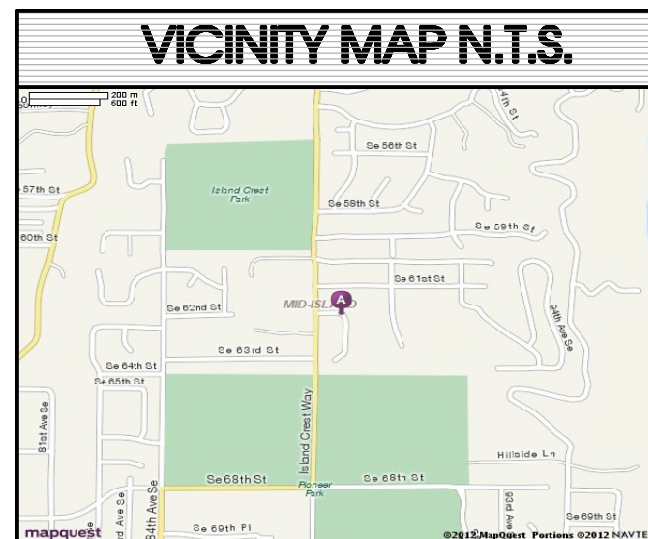
LEGAL DESCRIPTION

METHOD OF SURVEY

TOPOGRAPHIC & BOUNDARY SURVEY

LOT 8, BLOCK 1, TIMBERLAND ADDITION, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 52 OF PLATS, PAGE 20, IN KING COUNTY, WASHINGTON, SITUATE IN THE CITY OF MERCER ISLAND, COUNTY OF KING, STATE OF WASHINGTON.

INSTRUMENTATION FOR THIS SURVEY WAS A LEICA ELECTRONIC DISTANCE MEASURING UNIT. PROCEDURES USED IN THIS SURVEY WERE DIRECT AND REVERSE ANGLES. NO CORRECTION NECESSARY. MEETS STATE STANDARDS SET BY WAC 332-130-090.



SCHEDULE B ITEMS

BEARING MERIDIAN

VERTICAL DATUM

A BEARING OF S88°43'21"E ON THE CENTERLINE OF S.E. 63RD STREET, PER THE PLAT OF TIMBERLAND ADDITION, AS RECORDED IN VOLUME 19 OF PLATS, PAGE 20, RECORDS OF KING COUNTY, WA.

CITY OF MERCER ISLAND BENCH MARK NO. 2289 (NAVD 88) (VISITED 08-06-12)

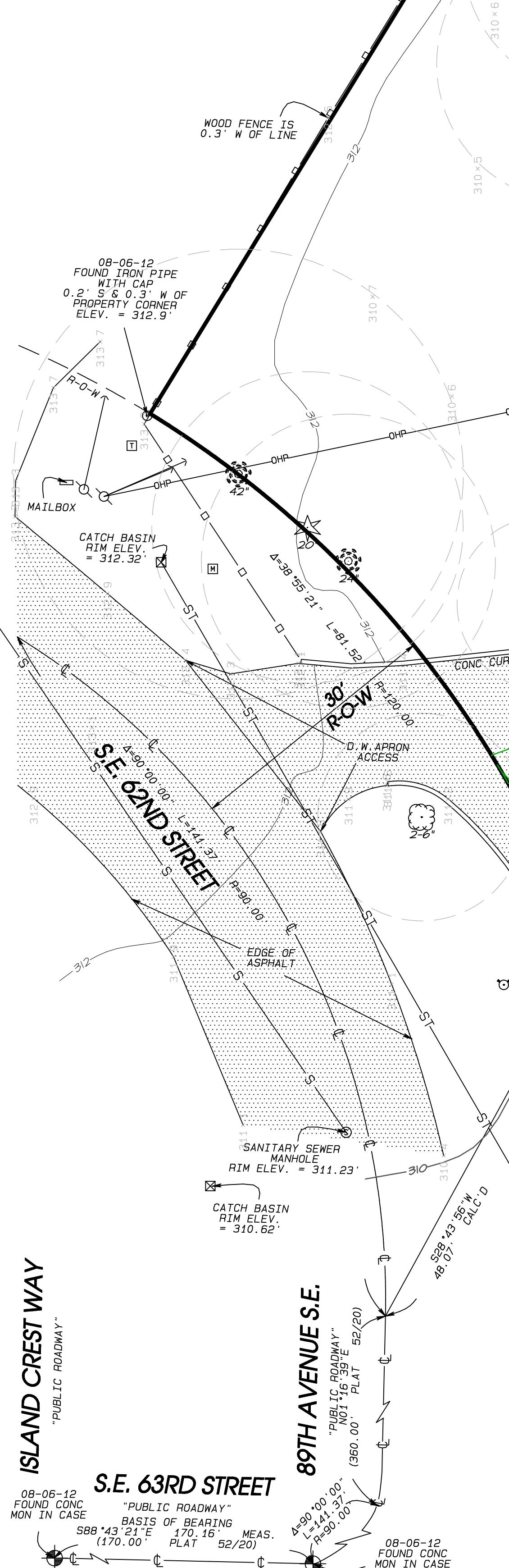
FOUND "1/2" COPPER PIN IN CONC (DN 1.5"). LOCATED SE 63RD ST, OPP HSE #8817. ELEVATION = 292.97'

ITEM 1 COVENANTS, CONDITIONS, RESTRICTIONS, RECITALS, RESERVATIONS, EASEMENTS, EASEMENT PROVISIONS, DEDICATIONS, BUILDING SETBACK LINES, NOTES, STATEMENTS, AND OTHER MATTERS, IF ANY, BUT OMITTING ANY COVENANTS OR RESTRICTIONS, IF ANY, INCLUDING BUT NOT LIMITED TO THOSE BASED UPON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, FAMILIAL STATUS, MARITAL STATUS, DISABILITY, HANDICAP, NATIONAL ORIGIN, ANCESTRY, OR SOURCE OF INCOME AS SET FORTH IN APPLICABLE STATE OR FEDERAL LAWS, EXCEPT TO THE EXTENT THAT SAID COVENANT OR RESTRICTION IS PERMITTED BY APPLICABLE LAW, AS SET FORTH ON PLAT OF TIMBERLAND, RECORDED IN VOLUME 52 OF PLATS, PAGE 20; RECORDING NO.: 4393506 (BLANKET IN NATURE)

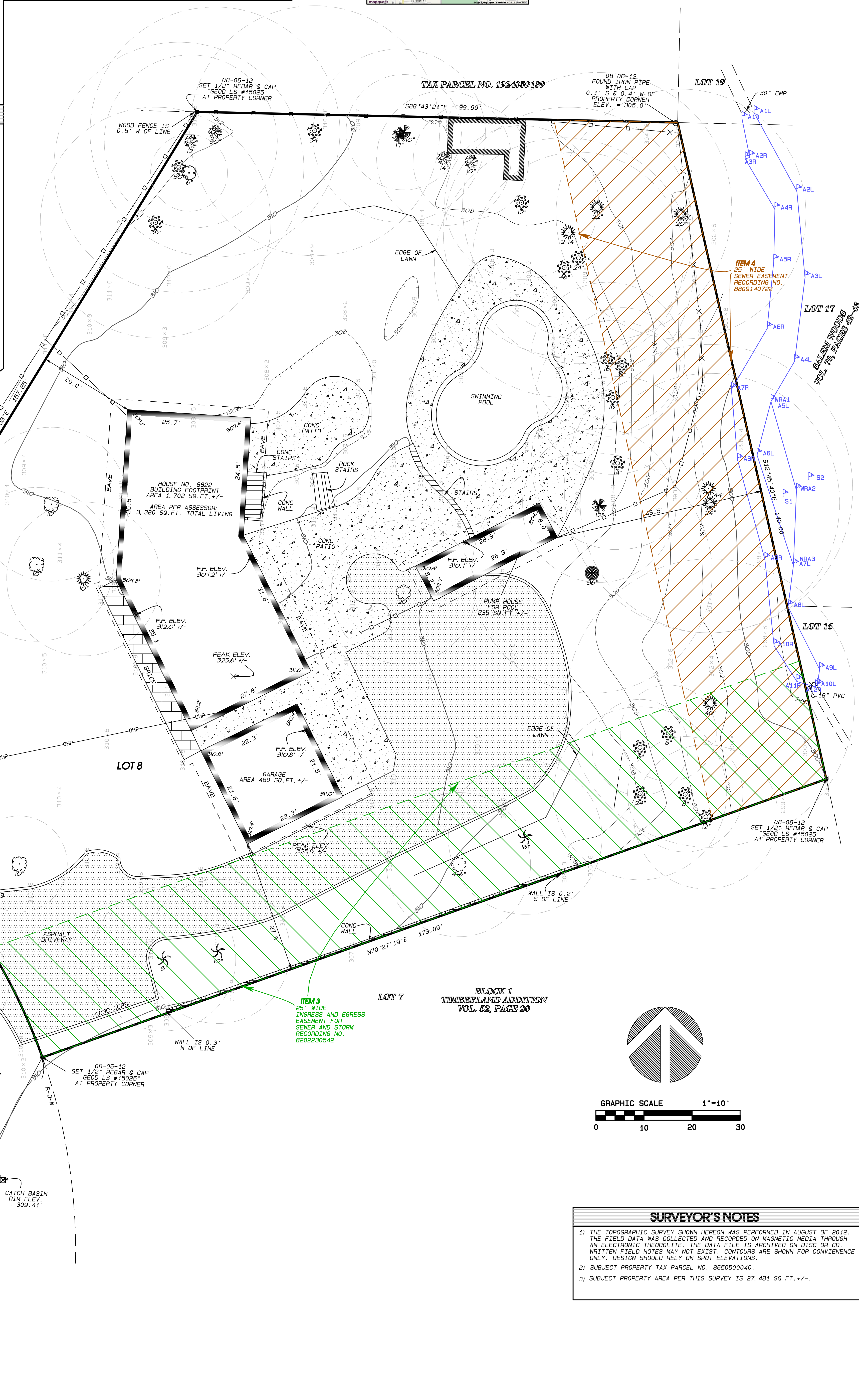
- LEGEND: FOUND MONUMENT AS NOTED, SET REBAR & CAP AS NOTED, UTILITY POLE, CATCH BASIN, SANITARY SEWER MANHOLE, FINISHED FLOOR ELEVATION, SPOT ELEVATION, WATER METER, FIRE HYDRANT, TELEPHONE RISER, ASPHALT SURFACE, RET. WALL, CONC SURFACE, STAIRS, BRICK SURFACE, D.W. APRON DRIVEWAY ACCESS, CONC CONCRETE, R-O-W RIGHT-OF-WAY, RECORD AS NOTED, BUILDING LINE, CENTERLINE OF ROAD, OVERHEAD WIRES, SLOPE AS NOTED, LEAVES, METAL FENCE, SEWER LINE, BURIED STORM LINE, GUY WIRE, WOOD FENCE, DECIDUOUS TREE, ALDER TREE, CEDAR TREE, APPLE TREE, MAPLE TREE, HEMLOCK TREE, FIG TREE, HOLLY TREE, FIR TREE, CHERRY TREE, SPRUCE TREE, WETLAND FLAG.

ITEM 3 - INGRESS AND EGRESS ESM T FOR SEWER AND STORM REC. NO. 8202230542

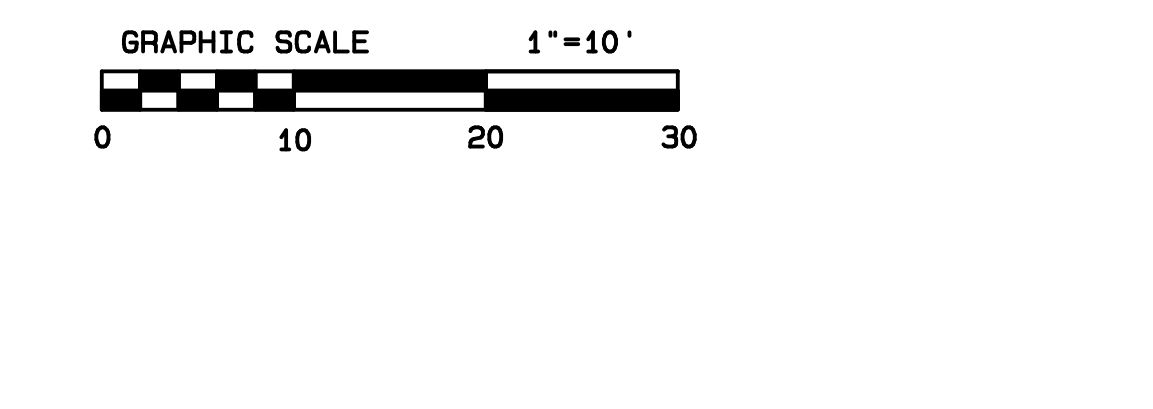
ITEM 4 - SEWER ESM T REC. NO. 8809140722



ISLAND CREST WAY, S.E. 62ND STREET, 89TH AVENUE S.E., S.E. 63RD STREET, JOB NUMBER: 12421, DATE: 08/13/2012, CHECKED BY: E.J.G., REVISION HISTORY, DATE: 09/19/2018, DATE: 09/13/2019



SURVEYOR'S NOTES: 1) THE TOPOGRAPHIC SURVEY SHOWN HEREON WAS PERFORMED IN AUGUST OF 2012. THE FIELD DATA WAS COLLECTED AND RECORDED ON MAGNETIC MEDIA THROUGH AN ELECTRONIC THEODOLITE. THE DATA FILE IS ARCHIVED ON DISC OR CD. WRITTEN FIELD NOTES MAY NOT EXIST. CONTOURS ARE SHOWN FOR CONVENIENCE ONLY. DESIGN SHOULD RELY ON SPOT ELEVATIONS. 2) SUBJECT PROPERTY TAX PARCEL NO. 8650500040. 3) SUBJECT PROPERTY AREA PER THIS SURVEY IS 27,481 SQ. FT. +/-.



Terrane logo and contact information: 10801 Main Street, Suite 102, Bellevue, WA 98004 phone 425.458.4488 support@terrane.net www.terrane.net

TOPOGRAPHIC & BOUNDARY SURVEY SE 1/4 OF THE SW 1/4 OF SEC. 19, TWP. 24N., RGE. 5E., W.M. CITY OF MERCER ISLAND, KING COUNTY, WA. HEADRICK RESIDENCE 8822 S.E. 62ND STREET MERCER ISLAND, WA. 98040

measure success logo

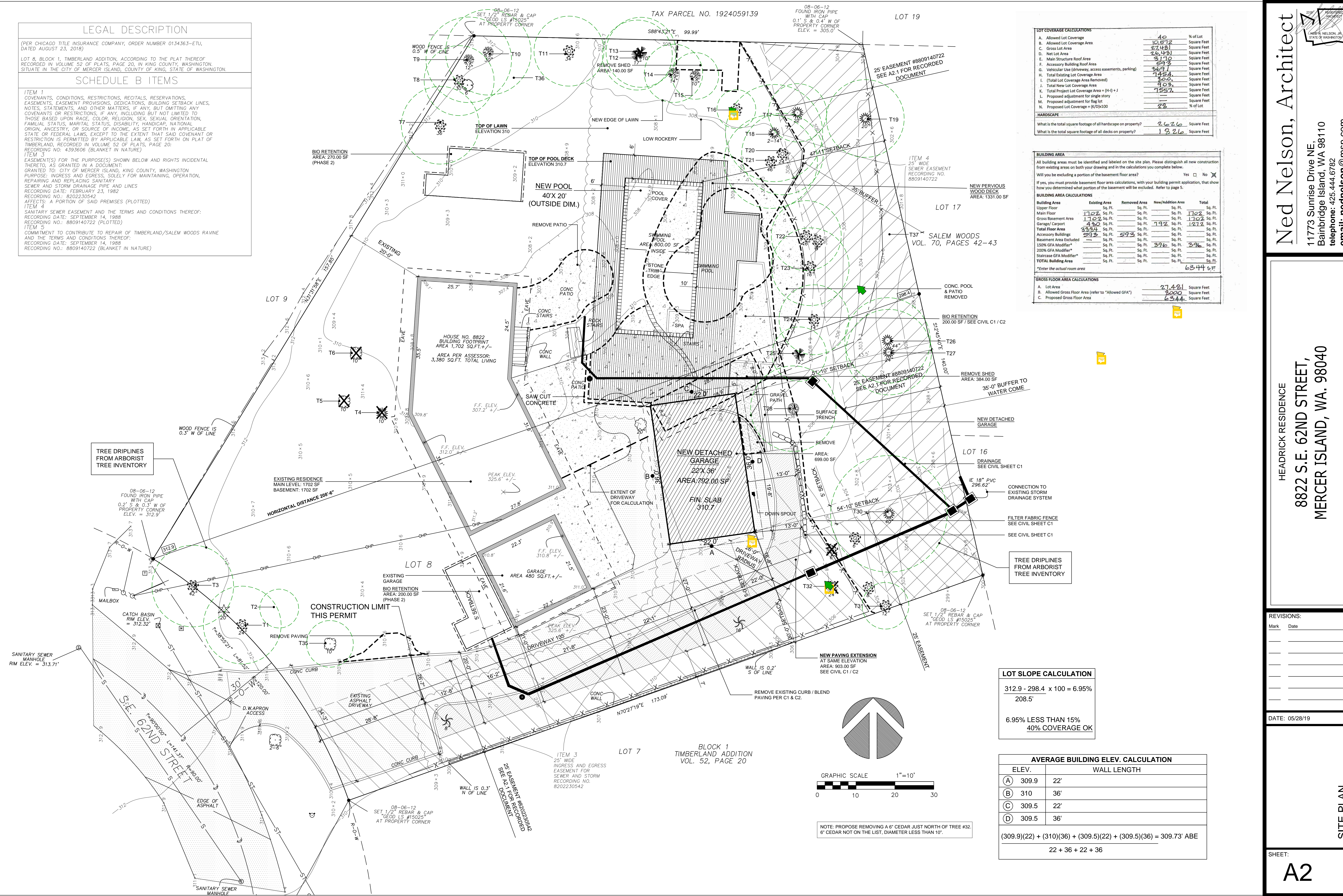
**LEGAL DESCRIPTION**

(PER CHICAGO TITLE INSURANCE COMPANY, ORDER NUMBER 0134363-ETU, DATED AUGUST 23, 2018)

LOT 8, BLOCK 1, TIMBERLAND ADDITION, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 52 OF PLATS, PAGE 20, IN KING COUNTY, WASHINGTON, SITUATE IN THE CITY OF MERCER ISLAND, COUNTY OF KING, STATE OF WASHINGTON.

**SCHEDULE B ITEMS**

- ITEM 1 COVENANTS, CONDITIONS, RESTRICTIONS, RESERVATIONS, EASEMENTS, EASEMENT PROVISIONS, DEDICATIONS, BUILDING SETBACK LINES, NOTES, STATEMENTS, AND OTHER MATTERS, IF ANY, BUT OMITTING ANY COVENANTS OR RESTRICTIONS, IF ANY, INCLUDING BUT NOT LIMITED TO THOSE BASED UPON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, FAMILIAL STATUS, MARITAL STATUS, DISABILITY, HANDICAP, NATIONAL ORIGIN, ANCESTRY, OR SOURCE OF INCOME, AS SET FORTH IN APPLICABLE STATE OR FEDERAL LAWS, EXCEPT TO THE EXTENT THAT SAID COVENANT OR RESTRICTION IS PERMITTED BY APPLICABLE LAW, AS SET FORTH ON PLAT OF TIMBERLAND, RECORDED IN VOLUME 52 OF PLATS, PAGE 20; RECORDING NO.: 4393606 (BLANKET IN NATURE)
- ITEM 2 EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT GRANTED TO: CITY OF MERCER ISLAND, KING COUNTY, WASHINGTON PURPOSE: INGRESS AND EGRESS, SOLELY FOR MAINTAINING, OPERATION, REPAIRING AND REPLACING SANITARY SEWER AND STORM DRAINAGE PIPE AND LINES RECORDING DATE: FEBRUARY 23, 1982 RECORDING NO.: 8202230542 AFFECTS: A PORTION OF SAID PREMISES (PLOTTED)
- ITEM 3 SANITARY SEWER EASEMENT AND THE TERMS AND CONDITIONS THEREOF: RECORDING DATE: SEPTEMBER 14, 1988 RECORDING NO.: 8809140722 (PLOTTED)
- ITEM 4 COMMITMENT TO CONTRIBUTE TO REPAIR OF TIMBERLAND/SALEM WOODS Ravine AND THE TERMS AND CONDITIONS THEREOF: RECORDING DATE: SEPTEMBER 14, 1988 RECORDING NO.: 8809140722 (BLANKET IN NATURE)



**LOT COVERAGE CALCULATIONS**

A. Allowed Lot Coverage	40	% of Lot
B. Allowed Lot Coverage Area	10,572	Square Feet
C. Gross Lot Area	26,491	Square Feet
D. Net Lot Area	2,593	Square Feet
E. Main Structure Roof Area	3,170	Square Feet
F. Accessory Building Roof Area	293	Square Feet
G. Vehicular Use (driveway, access easements, parking)	1,107	Square Feet
H. Total Existing Lot Coverage Area	7,454	Square Feet
I. (Total Lot Coverage Area Removed)	800	Square Feet
J. Total New Lot Coverage Area	903	Square Feet
K. Total Project Lot Coverage Area = (H-I) + J	7,557	Square Feet
L. Proposed adjustment for single story	—	Square Feet
M. Proposed adjustment for flag lot	—	Square Feet
N. Proposed Lot Coverage = (K/D)x100	28	% of Lot

**HARDSCAPE**

What is the total square footage of all hardscape on property?	2,626	Square Feet
What is the total square footage of all decks on property?	1,826	Square Feet

**BUILDING AREA**

All building areas must be identified and labeled on the site plan. Please distinguish all new construction from existing areas on both your drawing and in the calculations you complete below.

Will you be excluding a portion of the basement floor area? Yes  No

If yes, you must provide basement floor area calculations, with your building permit application, that show how you determined what portion of the basement will be excluded. Refer to page 5.

**BUILDING AREA CALCULATIONS**

Building Area	Existing Area	Removed Area	New/Addition Area	Total
Upper Floor	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.
Main Floor	1702	—	—	1702
Gross Basement Area	1702	—	—	1702
Garage/Carport	490	—	—	490
Total Floor Area	3594	—	—	3594
Accessory Buildings	—	593	—	593
Basement Area Excluded	—	—	—	—
150% GFA Modifier*	—	—	296	296
200% GFA Modifier*	—	—	—	—
Staircase GFA Modifier*	—	—	—	—
TOTAL Building Area	—	—	—	6344

\*Enter the actual room area

**GROSS FLOOR AREA CALCULATIONS**

A. Lot Area	27,481	Square Feet
B. Allowed Gross Floor Area (refer to "Allowed GFA")	2,000	Square Feet
C. Proposed Gross Floor Area	6,344	Square Feet

**LOT SLOPE CALCULATION**

$312.9 - 298.4 \times 100 = 6.95\%$

208.5'

6.95% LESS THAN 15%

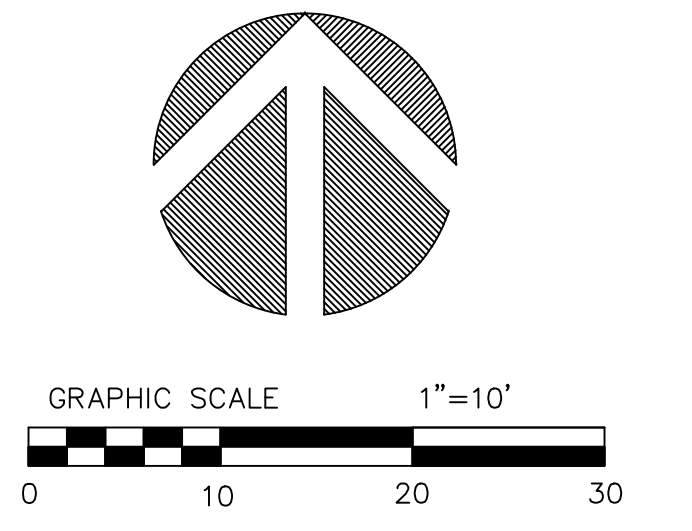
40% COVERAGE OK

**AVERAGE BUILDING ELEV. CALCULATION**

ELEV.	WALL LENGTH
(A) 309.9	22'
(B) 310	36'
(C) 309.5	22'
(D) 309.5	36'

$(309.9)(22) + (310)(36) + (309.5)(22) + (309.5)(36) = 309.73' \text{ AVE}$

22 + 36 + 22 + 36



NOTE: PROPOSE REMOVING A 6" CEDAR JUST NORTH OF TREE #32. 6" CEDAR NOT ON THE LIST, DIAMETER LESS THAN 10".

**Ned Nelson, Architect**  
 11773 Sunrise Drive NE  
 Bainbridge Island, WA 98110  
 telephone: 425.444.6792  
 email: nednelson@msn.com

HEADRICK RESIDENCE  
 8822 S.E. 62ND STREET,  
 MERCER ISLAND, WA. 98040

**REVISIONS:**

Mark	Date

DATE: 05/28/19

SITE PLAN

SHEET:  
**A2**

#8202230542 INGRESS / EGRESS EASEMENT FOR MAINTENANCE OF SANITARY AND STORM DRAINAGE FACILITIES

8202230542

INGRESS AND EGRESS EASEMENT

The undersigned, Grantor, for and in consideration of one dollar (\$1.00) and other valuable consideration, the receipt of which is hereby acknowledged, by these presents bargains, sells, transfers and conveys unto the CITY OF MERCER ISLAND, King County, Washington, Grantee, an easement over and across the following described property situated in King County, State of Washington, to-wit:

The South 25.00 feet of Lot 8, Block 1, in the Plat of Timberland as recorded in Volume 52 of Plats, page 20, records of King County, Washington, measured perpendicular to the common property line between Lots 7 and 8 of said Plat.

This easement is subject to the following limitations:

- It shall be for the purpose of ingress and egress across said described property solely for maintaining, operating, repairing and replacing sanitary sewer and storm drainage pipe and lines plus all necessary connections and appurtenances thereto on adjacent property.
- Said easement shall be 25 feet in width, except to the extent that it lies along the asphalt driveway in which event it shall be 25 feet or the width of the driveway, whichever is the lesser figure; otherwise the easement is as indicated on the attached map.
- Grantee in each instance shall immediately after utilizing said access restore said premises as nearly as possible to its previous condition.

DATED this 1st day of February, 1982.

Carolyn C. Blackstock  
Carolyn C. Blackstock

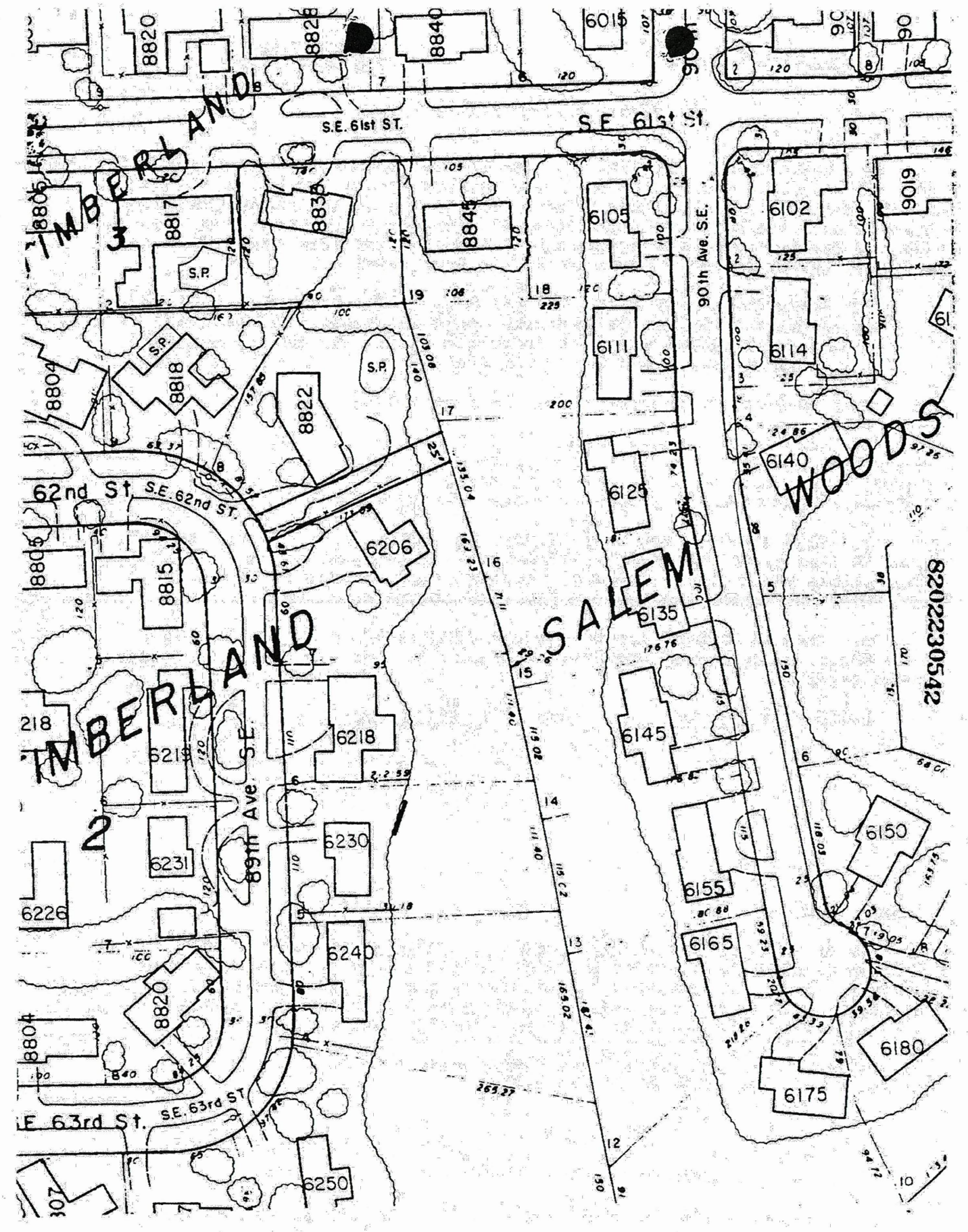
STATE OF WASHINGTON )  
COUNTY OF KING ) SS.

1% EXCISE TAX NOT REQUIRED  
King Co. Records Division  
By D. Remke Deputy

On this 1st day of February, 1982, before me, appeared Carolyn C. Blackstock, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged to me that she signed and sealed the said instrument as her free and voluntary act and deed for the uses and purposes therein mentioned.

WITNESS my hand and official seal hereto affixed the day and year in this certificate written.

Robert E. Hammond  
NOTARY PUBLIC in and for the State  
CITY OF MERCER ISLAND, Washington, residing at  
No. 1050 FILE NO. 1050 Mercer Island



#8809140722 PUBLIC AND PRIVATE STORM DRAIN AND SANITARY SEWER EASEMENT

8809140722

PUBLIC AND PRIVATE STORM DRAIN AND SANITARY SEWER EASEMENT

KNOW ALL MEN BY THESE PRESENTS that Carolyn C. Blackstock Owner(s)/Grantor(s) of the following described property:

LOT 8, BLOCK 1, IN THE PLAT OF TIMBERLAND AS RECORDED IN VOLUME 52 OF PLATS, PAGE 20, RECORDS OF KING COUNTY, WASHINGTON.

for and in valuable consideration hereby grant and convey to Grantee, City of Mercer Island, its successors and assigns, a public and private storm drain and sanitary sewer easement over, under, upon and across the above described property as follows:

The east 25.00 feet of Lot 8, Block 1, in the Plat of Timberland as recorded in Volume 52 of Plats, page 20, records of King County, Washington, measured perpendicular to the east property line.

Said easement being for the purpose of installing, constructing, maintaining, operating, repairing and replacing public and private sanitary sewer and storm drainage facilities and all necessary connections and appurtenances thereto, together with the right of ingress and egress to, from and across said described property for the foregoing purposes, provided that in the original installation of such utilities and appurtenances the Grantee shall immediately after such installation restore said premises to their original condition as near as may be.

DATED this 19th day of August, 1988.

Carolyn C. Blackstock  
Carolyn C. Blackstock

STATE OF WASHINGTON )  
COUNTY OF KING ) SS.

On this 19th day of August, 1988, personally appeared before me Carolyn C. Blackstock to me known to be the individual(s) described in and who executed the foregoing instrument, and acknowledged that they signed and sealed the same as their free and voluntary act and deed for the uses and purposes therein mentioned.

Given under my hand and official seal the day and year last above written.

Robert E. Hammond  
NOTARY PUBLIC in and for the State of Washington, residing at Mercer Island, Washington.

BEVERLEE MAR...  
COUNTY CLERK  
STATE OF WASHINGTON

ATTEST AT REQUEST OF:  
Mercer Island City Clerk  
1505 Sixth Avenue S.E.  
P.O. Box 1440  
Mercer Island, Washington 98040-1440

DATED this 19th day of August, 1988.

Carolyn C. Blackstock  
Property Owner

STATE OF WASHINGTON )  
COUNTY OF KING ) SS.

On this 19th day of August, 1988, before me personally appeared Carolyn C. Blackstock and Robert E. Hammond to me known to be the individuals described in and who executed the foregoing instrument and acknowledged that they signed and sealed the same as their free and voluntary act and deed for the uses and purposes therein mentioned.

Given under my hand and official seal the day and year last above written.

Robert E. Hammond  
Notary Public in and for the State of Washington, residing at Mercer Island

My Commission expires 7-20-89

BEVERLEE MAR...  
COUNTY CLERK  
STATE OF WASHINGTON

Ned Nelson, Architect

11773 Sunrise Drive NE  
Bainbridge Island, WA 98110  
telephone: 425.444.6782  
email: nednelson@msn.com

HEADRICK RESIDENCE  
8822 S.E. 62ND STREET,  
MERCER ISLAND, WA. 98040

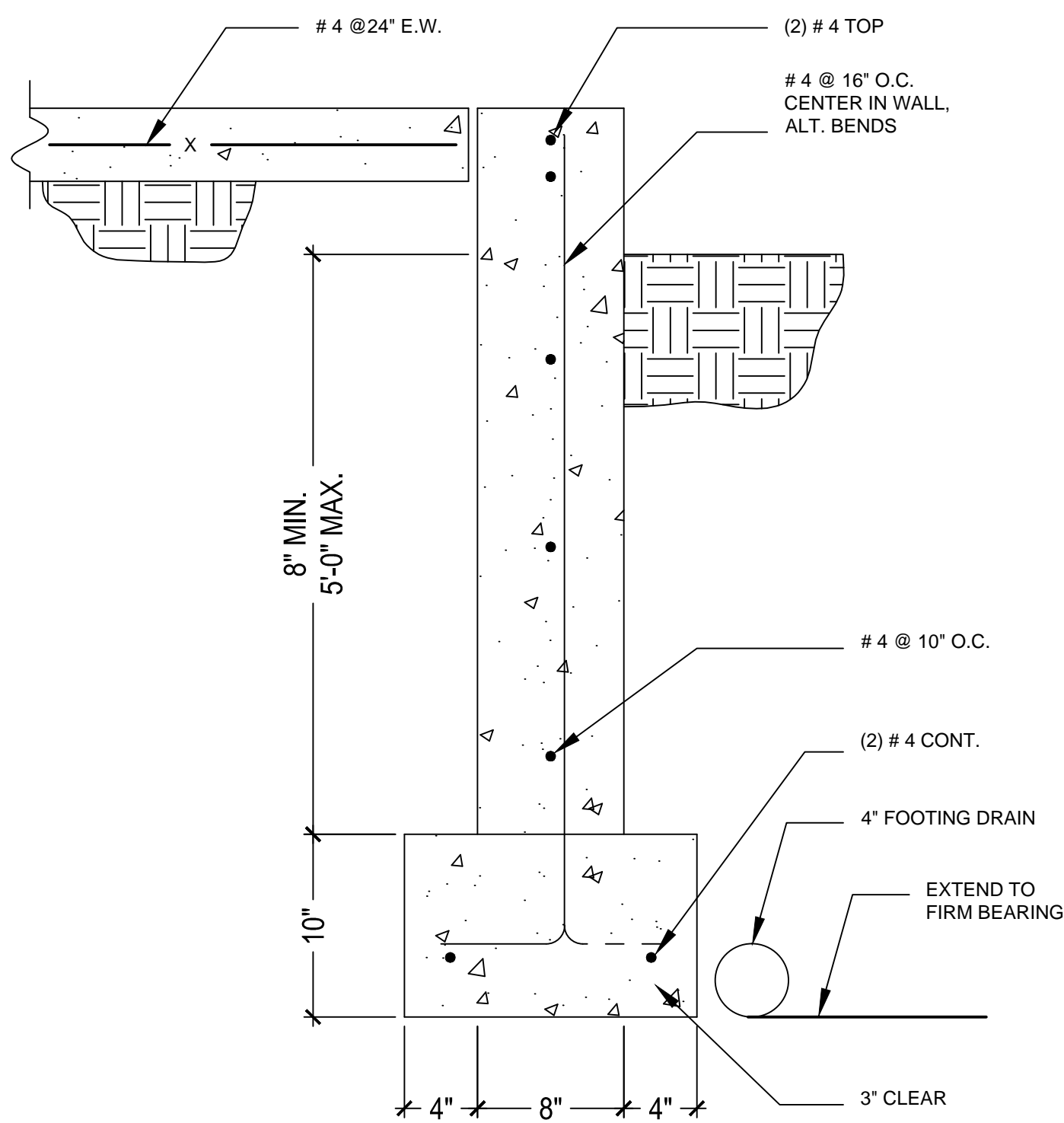
REVISIONS:

Mark	Date

DATE: 05/28/19

EASEMENTS

SHEET:  
A2.1



DETAIL F D1  
1 1/2" = 1'-0"

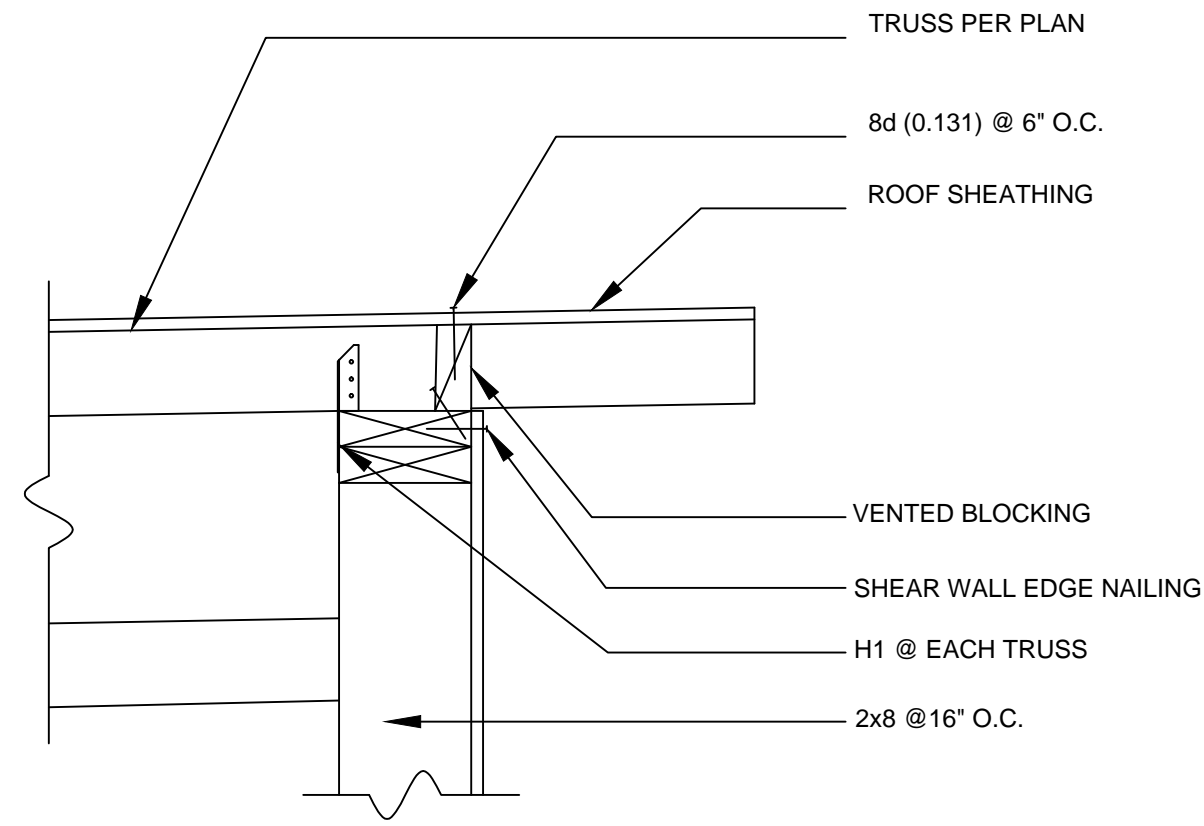
## SHEAR WALL SCHEDULE

(SEE ANSI / AWC SDPWS-2015 Table 4.3A & Section 4.3.3)  
All shear walls to be sheathed from top plate to bottom plate. Block all panel edges.  
Nail spacing is for all panel edges. Space nails @ 12" o.c. along intermediate framing members.

SW-6  $v = 350$  plf 7/16" OSB, w/ 8d (0.131"  $\phi$ ) common nails @ 6" o.c.  
Anchorage (interior walls only) to SINGLE joist or blkg below: 16d (box) @ 4" o.c.

The shear values above are based upon the use of 8d common nails with a full head, a shank diameter of 0.131", and a minimum penetration of 1.375". From Table 4.3A use 15/32; 8d values with a 0.93 reduction for Hem-Fir & 1.4 increase for wind.

NOTE: 1/2" CD EXT. PLYWOOD ALTERNATE TO OSB.

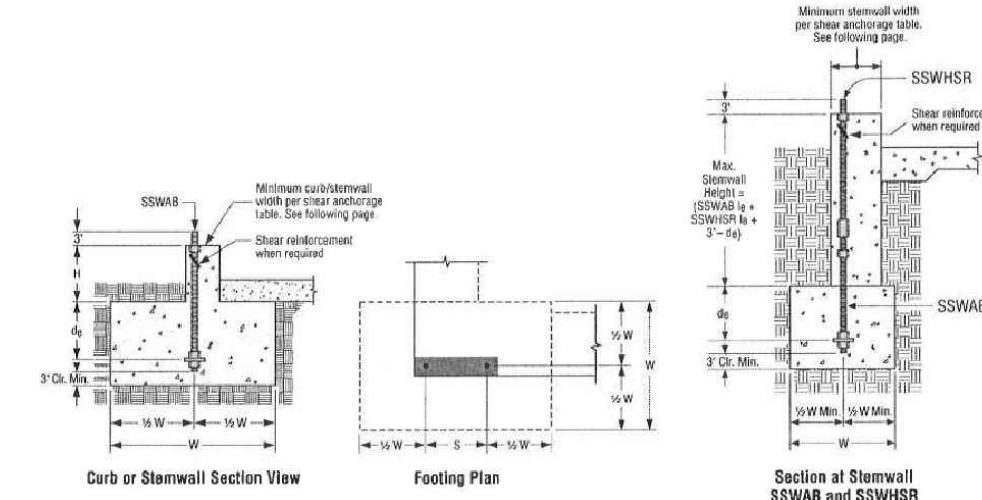


DETAIL A  
1 1/2" = 1'-0"

### Design Criteria:

- \* Stemwall - Garage Front
- \* 2015 International Bldg Code
- \* Wind
- \* 2500 psf concrete

### Anchor Solution Details:



### Anchor Solution Assuming Cracked Concrete Design:

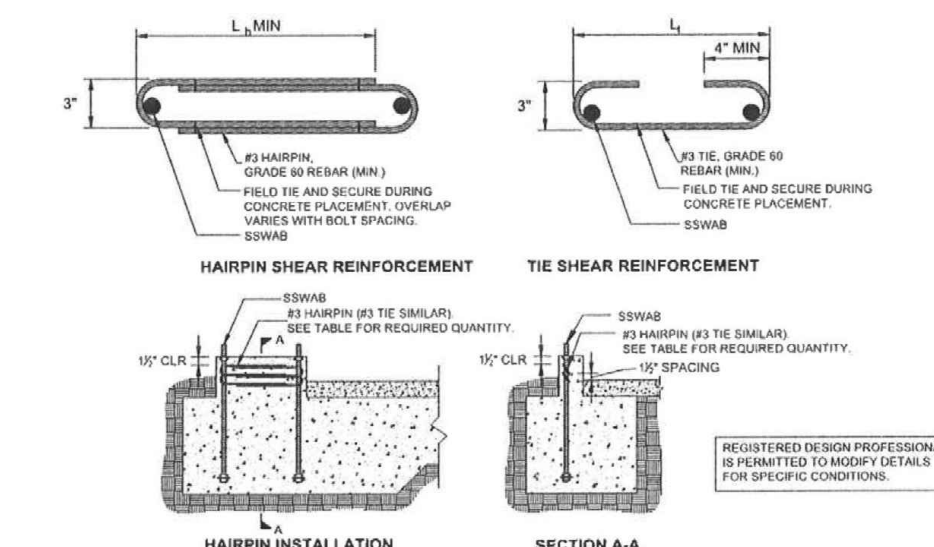
Model	W	de	S	Anchor Bolt	Strength
SSW18x13	32	11	12.25	SSWAG1	Standard

### Anchor Solution Assuming Uncracked Concrete Design:

Model	W	de	S	Anchor Bolt	Strength
SSW18x13	22	8	12.25	SSWAB1	Standard

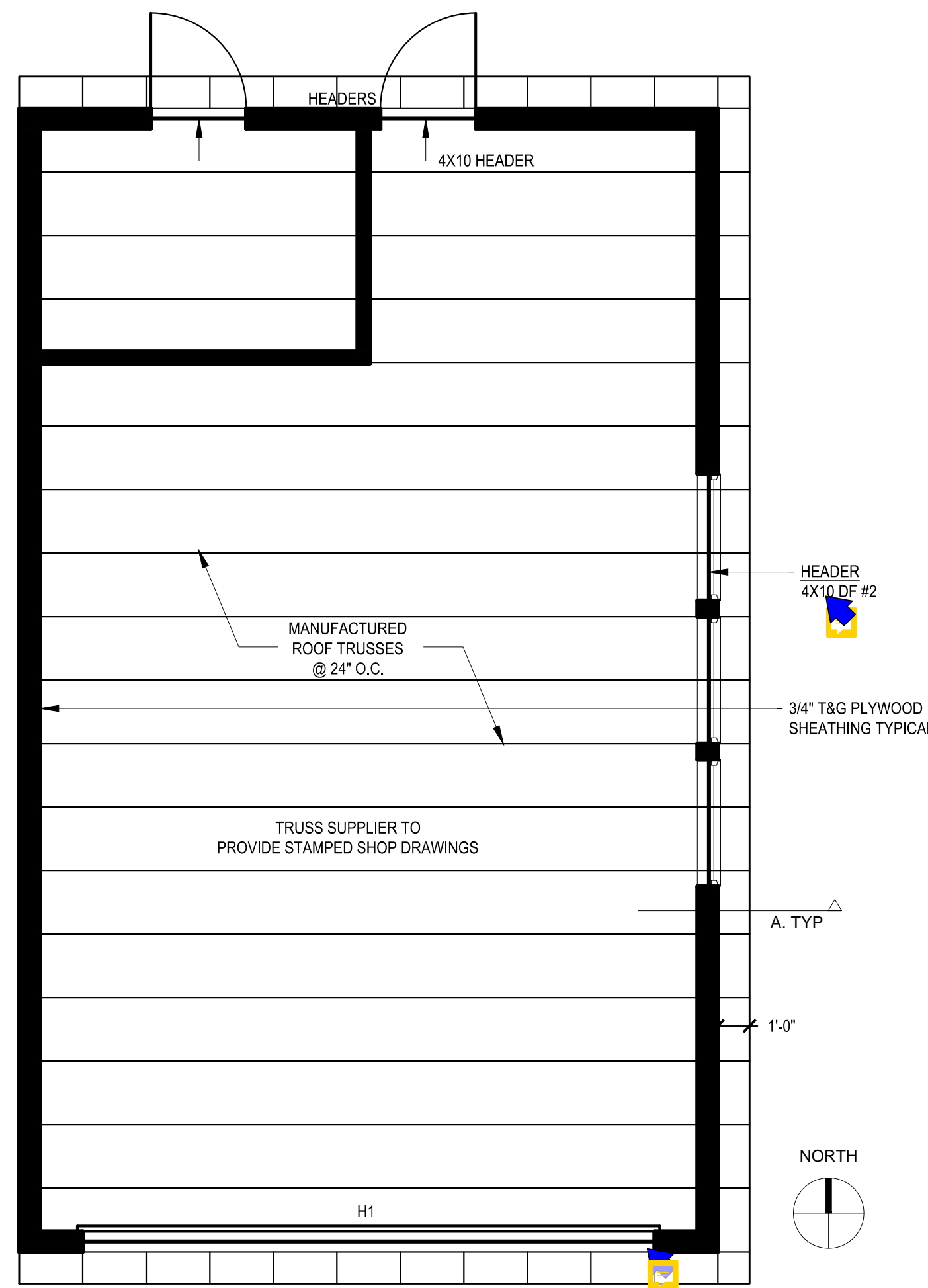
### Notes:

1. Anchorage designs conform to ACI 318-14 and 318-11 Appendix D with no supplementary reinforcement for cracked and uncracked concrete as noted.
2. Anchorage strength indicates required grade of SSWAB anchor bolt. Standard (ASTM F1554 Grade 36) or High Strength (HS)(ASTM A449).
3. Wind indicates Seismic Design Category A and B.
4. Footing dimensions are for anchorage only. Foundation design (size and reinforcement) by Designer.



MODEL	L, OR L <sub>MIN</sub>	SHAPE	MIN. CURVE RADIUS (MINIMUM WIDTH)	SHEAR REINFORCEMENT		MIN. CURVE RADIUS (MINIMUM WIDTH)	
				UNCRACKED	CRACKED	UNCRACKED	CRACKED
SSW18	32	11	12.25	SSWAG1	Standard	SSWAB1	Standard

1. USE AN ANCHORAGE DESIGN CONFORMING TO ACI 318-14 AND 318-11 AND INCLUDE MINIMUM 1% DEVELOPMENT CONCRETE.
2. SEE TABLE 18.8.5B TO VERIFY FOR TENSION ANCHORAGE.
3. FLOOR ROOF OR CEILING IS NOT REQUIRED FOR PANELS INSTALLED ON A WOOD FLOOR. INTERIOR FOUNDATION APPLICATIONS PANELS INSTALLED AWAY FROM EDGE OF CONCRETE OR BRICKED WALL PANEL APPLICATIONS.
4. SEISMIC PROTECTIVE BRACING DESIGN CATEGORY C THROUGH F. DESIGNATED WIND FRAME ENVELOPES IN SDG-C ONLY.
5. USE WIND PROTECTIVE BRACING.
6. WIND INCLUDES SEISMIC DESIGN CATEGORY A AND B.
7. MINIMUM CURVE RADIUS WITHIN 10' OF WIND EXPOSURE STRONGWALL STRONGWALL PANEL DESIGN SHEAR FORCE EXCEEDS THE TABULATED ANCHORAGE ALLOWABLE BRINK LOAD.
8. USE C11 AS THE FOR SSW18 AND SSW11 WHEN THE STEEL STRONGWALL PANEL DESIGN SHEAR FORCE EXCEEDS THE TABULATED ANCHORAGE ALLOWABLE BRINK LOAD.
9. CONCRETE EDGE DISTANCE FOR ANCHORS MUST COMPLY WITH ACI 318-14 SECTION 17.3.2 AND ACI 318-11 8.8.2.

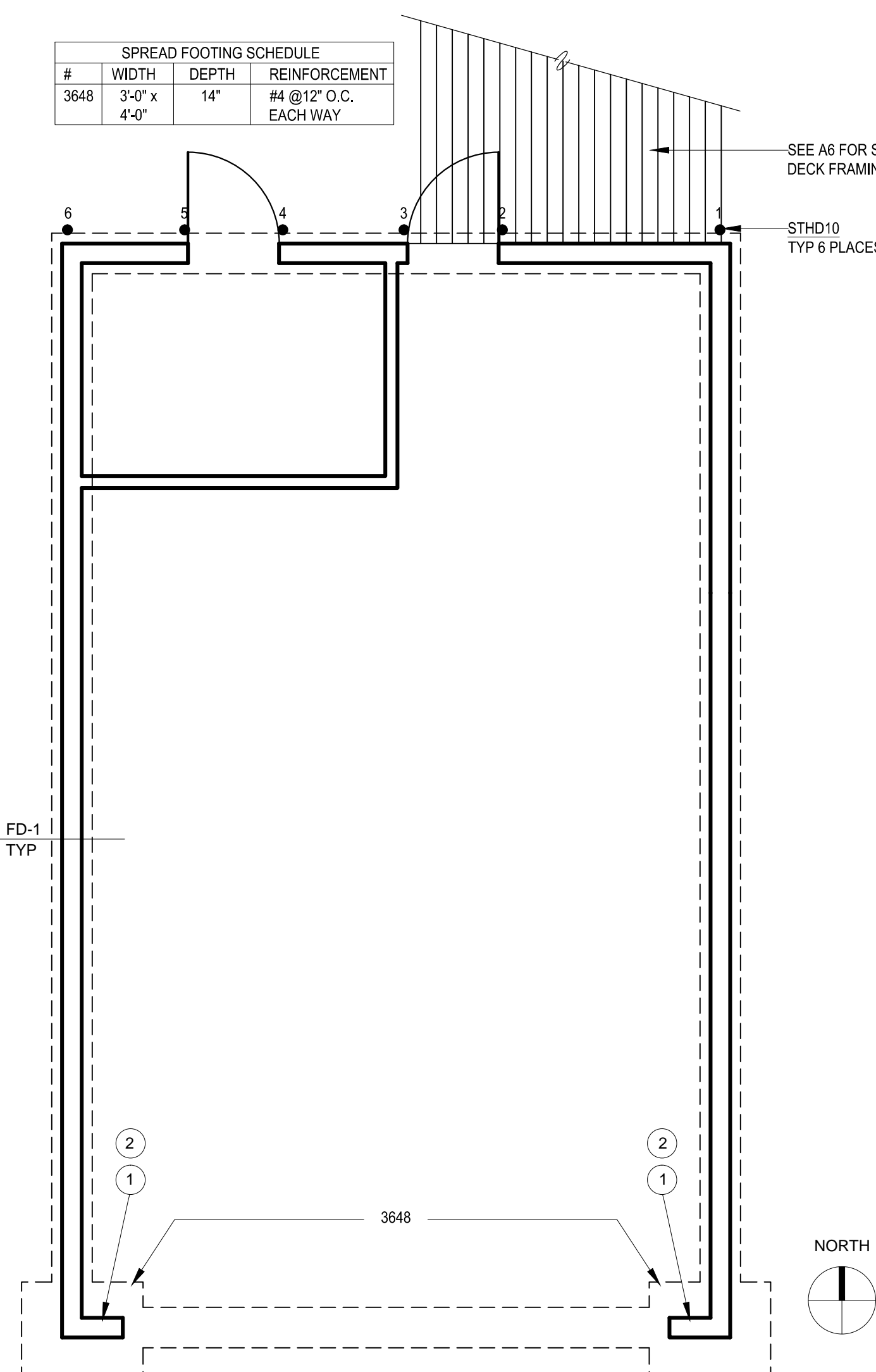


DESIGN LOADS:  
ROOF DL= 15 PSF  
LL= 60 PSF

ENGINEERED TRUSSES BY TRUSS MANUFACTURER

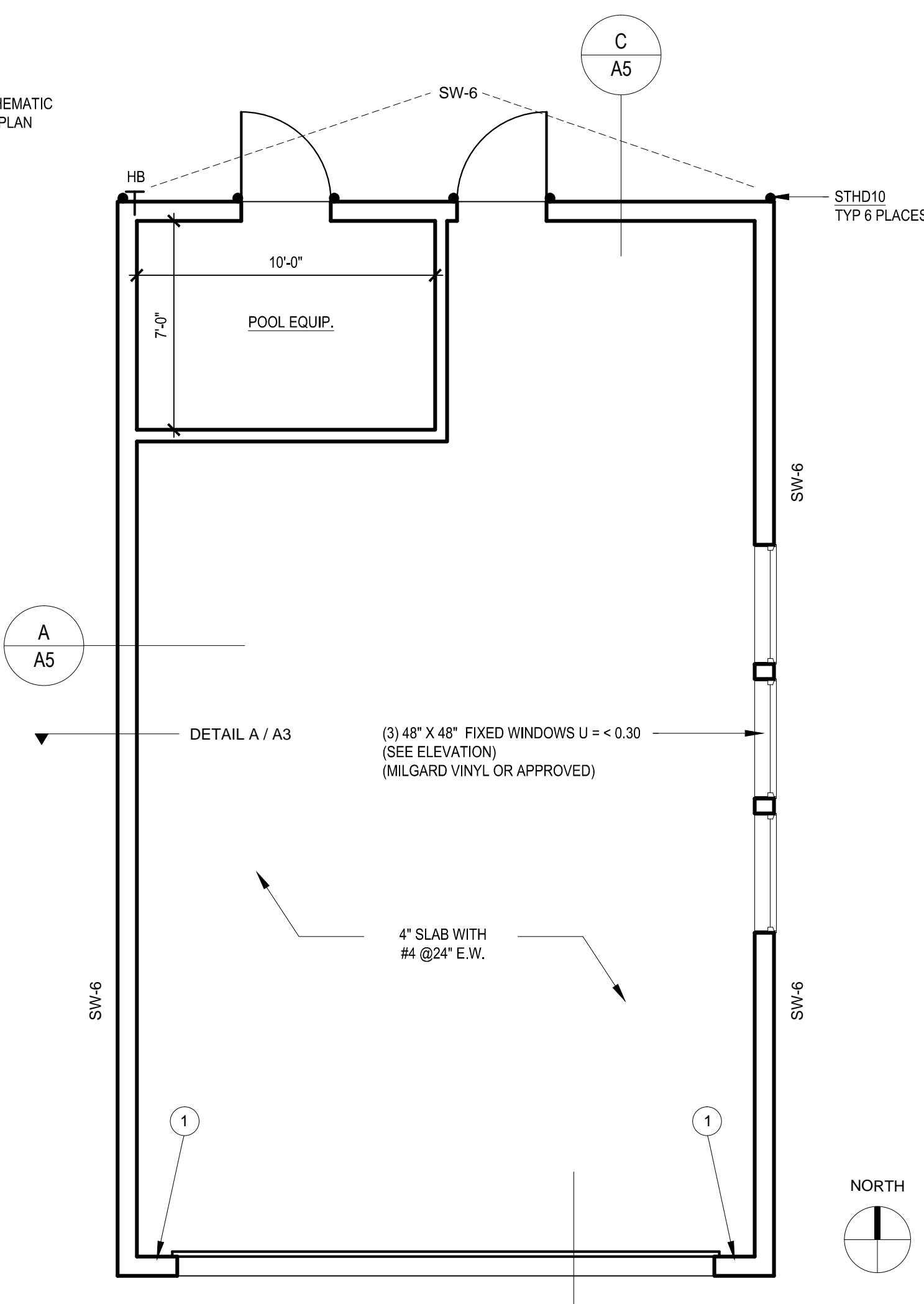
HEADERS: 4x10 DF#2 U.N.O.  
NOTE: PROVIDE (1) 2" X TRIMMER @ ALL HEADERS U.N.O.  
H1: 5 1/8 X 12 GLB (24F-V4)

GARAGE / ROOF FRAMING PLAN  
1/4" = 1'-0"



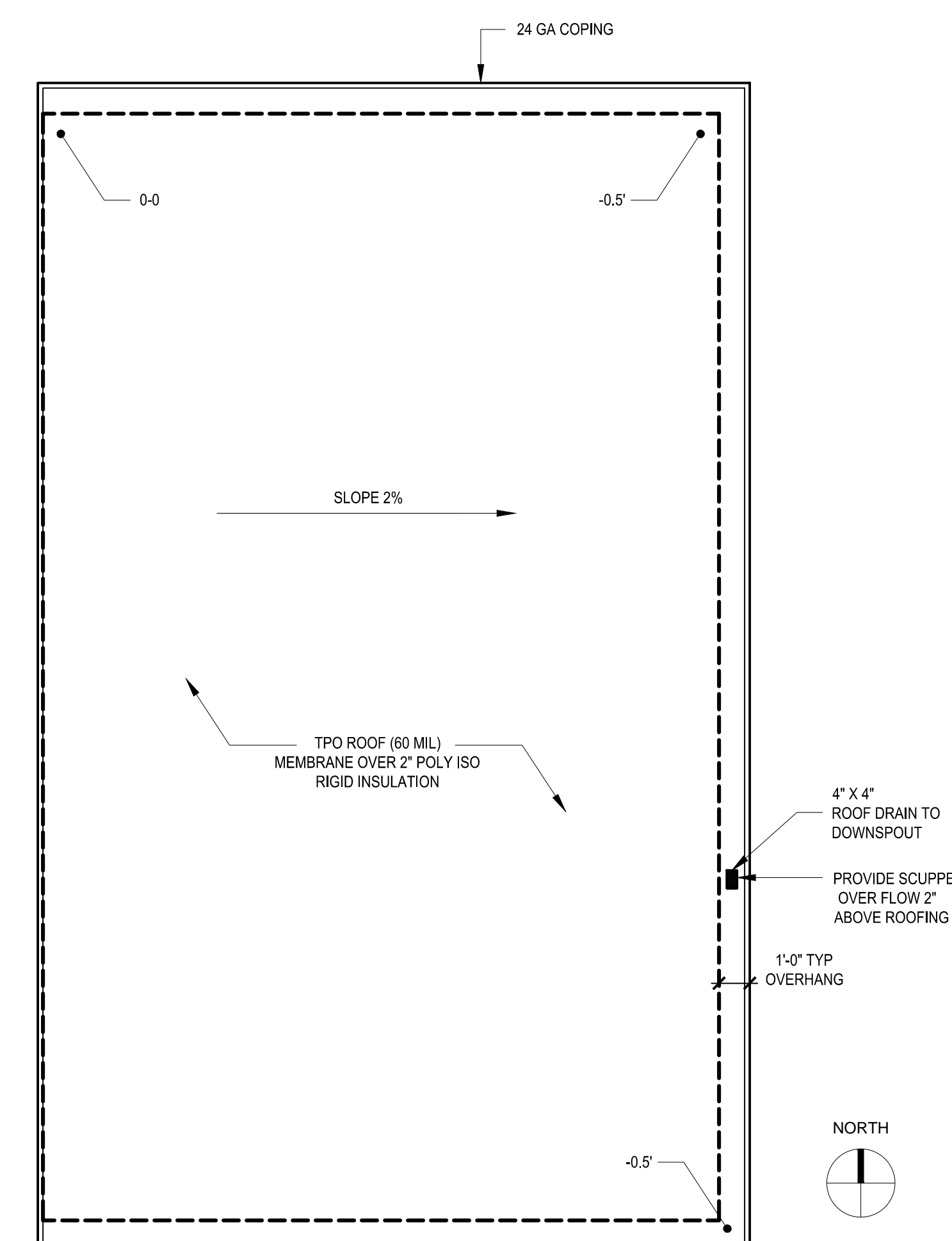
1. RAISE CONCRETE STEMWALL 2'-0" (4) TO ENSURE SSW18X13 STRONG WALL CONNECT DIRECTLY TO UNDERSIDE OF DOUBLE TOP PLATES.
  2. PROVIDE ANCHORAGE & REINFORCEMENT PER SIMPSON'S REQUIREMENTS FOR SSW18 X 13 STRONG WALL ABOVE.
- NOTE: USE 5/8"  $\phi$  ANCHOR BOLTS W/ 3" X 3" X 1/4" WASHERS @ 5'-0" O.C. U.N.O.

GARAGE / FOUNDATION PLAN  
1/4" = 1'-0"



1. PROVIDE SIMPSON SSW18X13 STRONG WALL SEE STANDARD DETAILS THIS SHEET.
- NOTE: ALL EXTERIOR WALLS TO BE SW-6 U.N.O.

GARAGE / FLOOR PLAN - SHEAR WALLS  
1/4" = 1'-0"



GARAGE / ROOF PLAN  
1/4" = 1'-0"

**Ned Nelson, Architect**  
11773 Sunrise Drive NE  
Bainbridge Island, WA 98110  
telephone: 425.444.6782  
email: [nednelson@msn.com](mailto:nednelson@msn.com)

HEADRICK RESIDENCE  
8822 S.E. 62ND STREET,  
MERCER ISLAND, WA. 98040

REVISIONS:

Mark	Date

DATE: 05/28/19

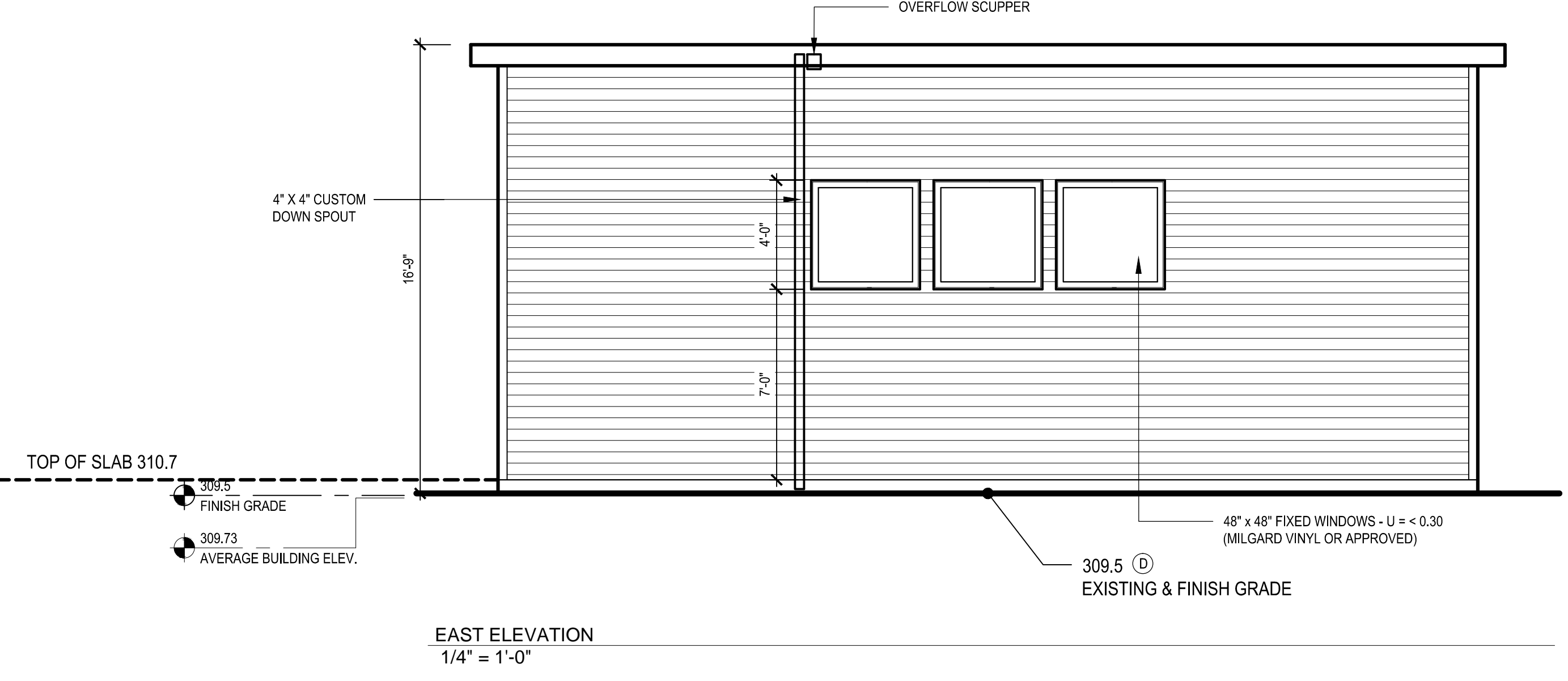
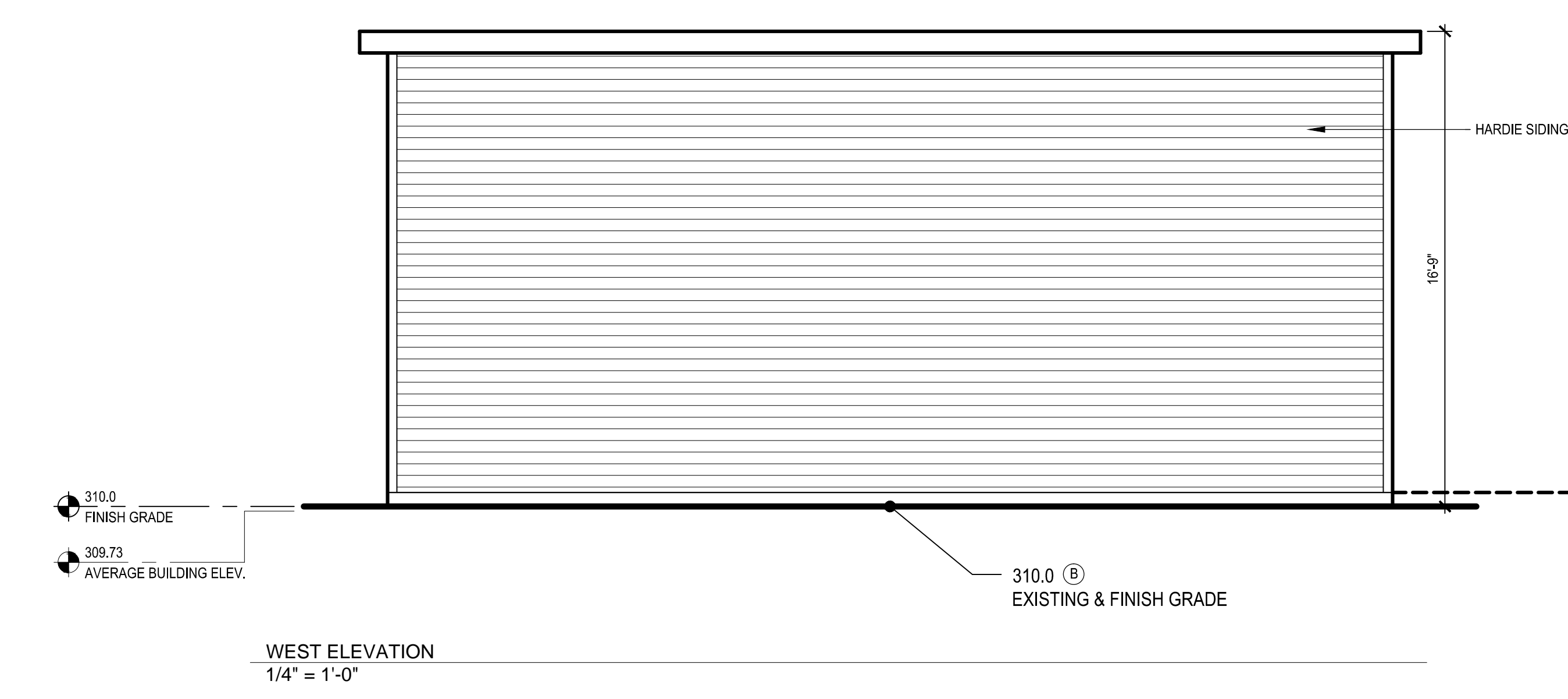
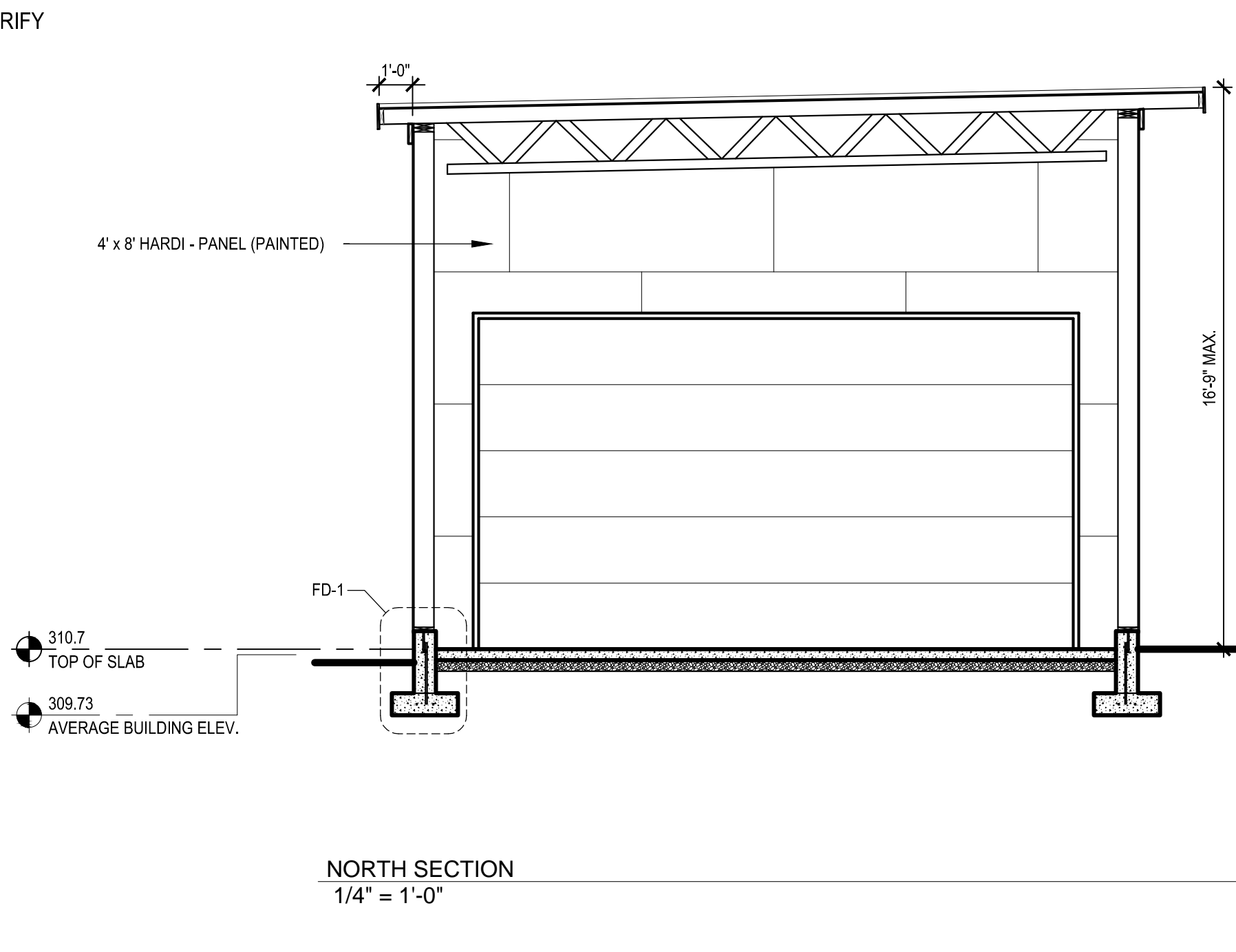
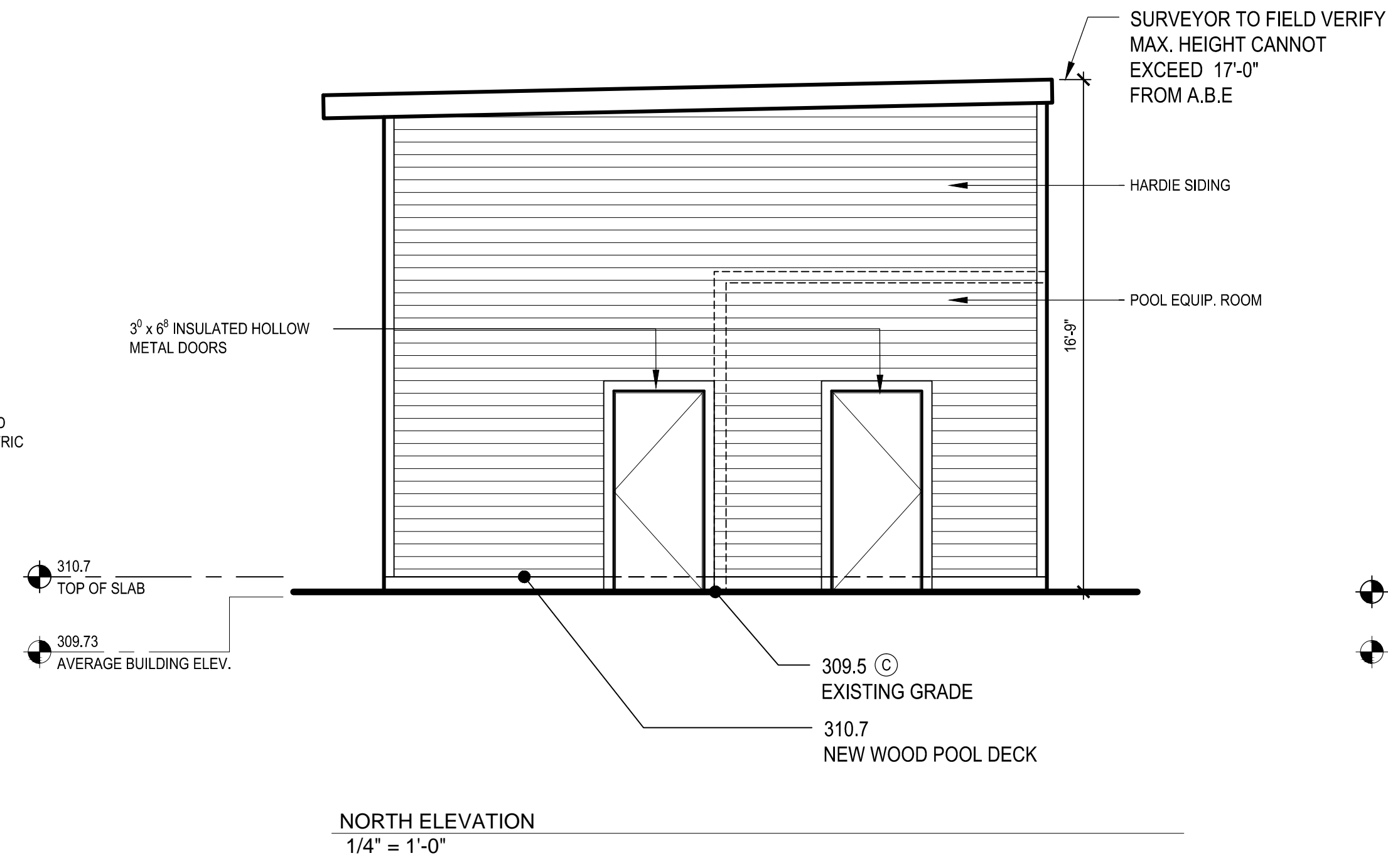
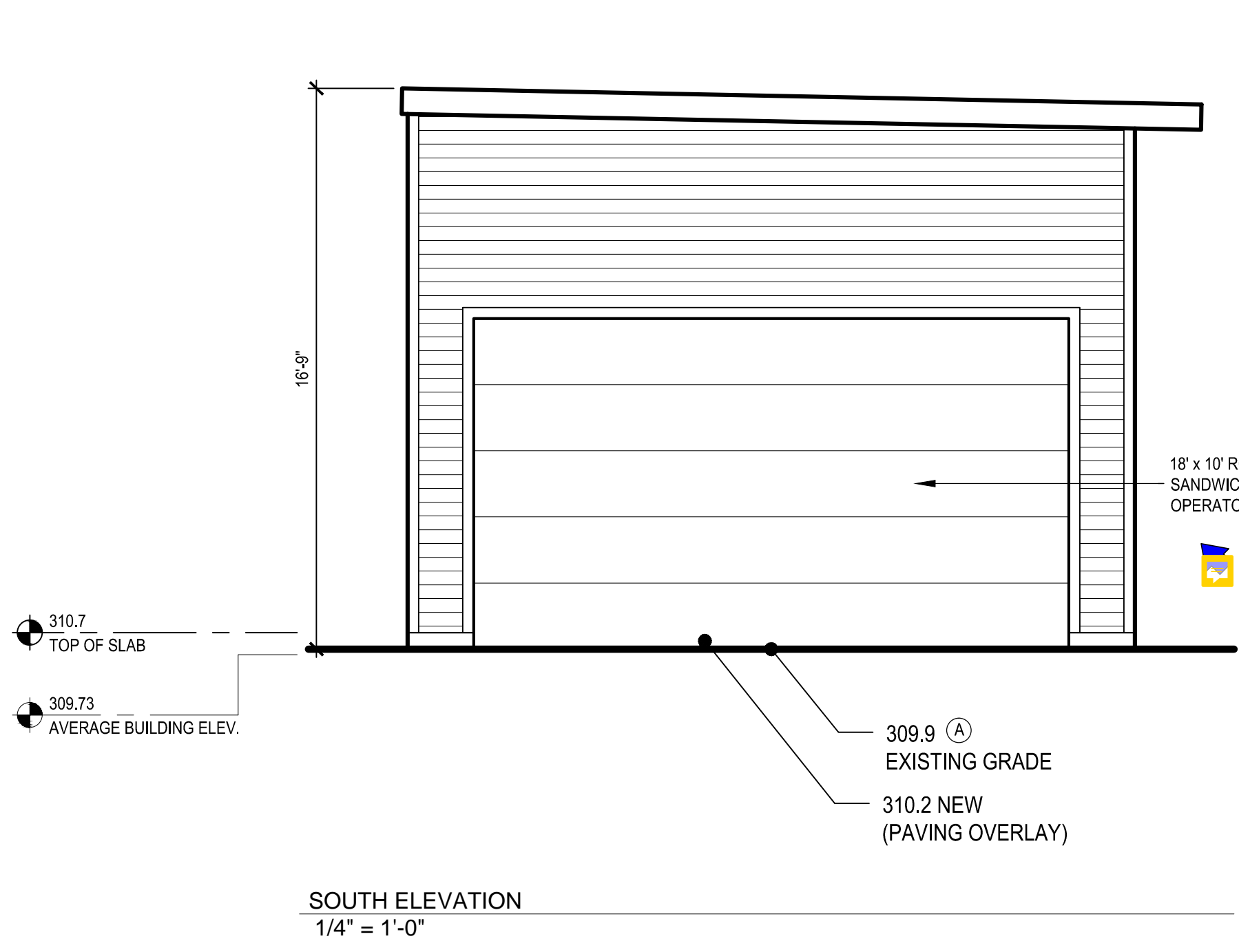
GARAGE FLOOR PLAN  
FOUNDATION PLAN  
ROOF FRAMING PLAN  
DETAILS

SHEET:  
**A3**

REVISIONS:

Mark	Date

DATE: 05/28/19

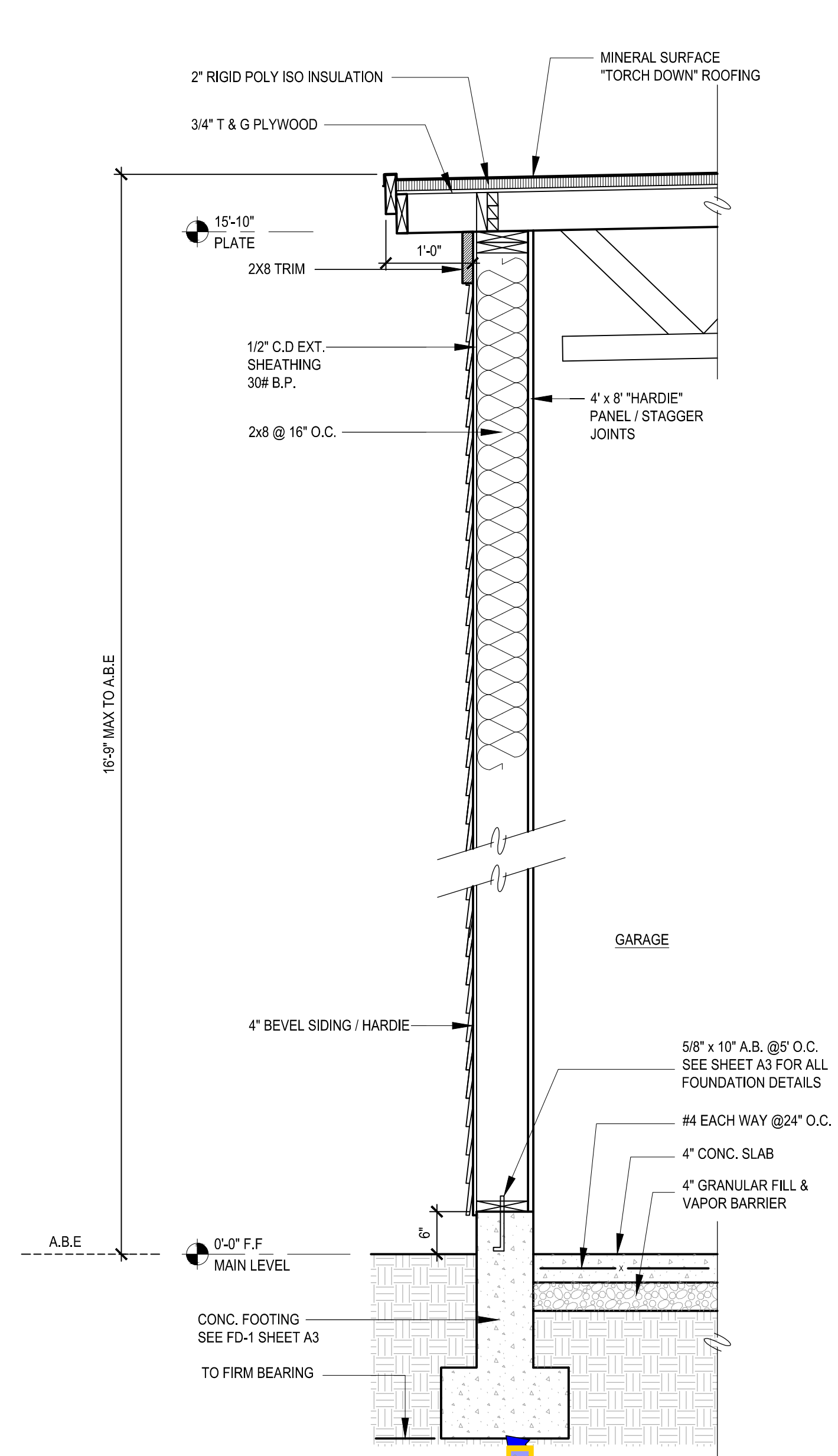


TOP OF SLAB 310.7

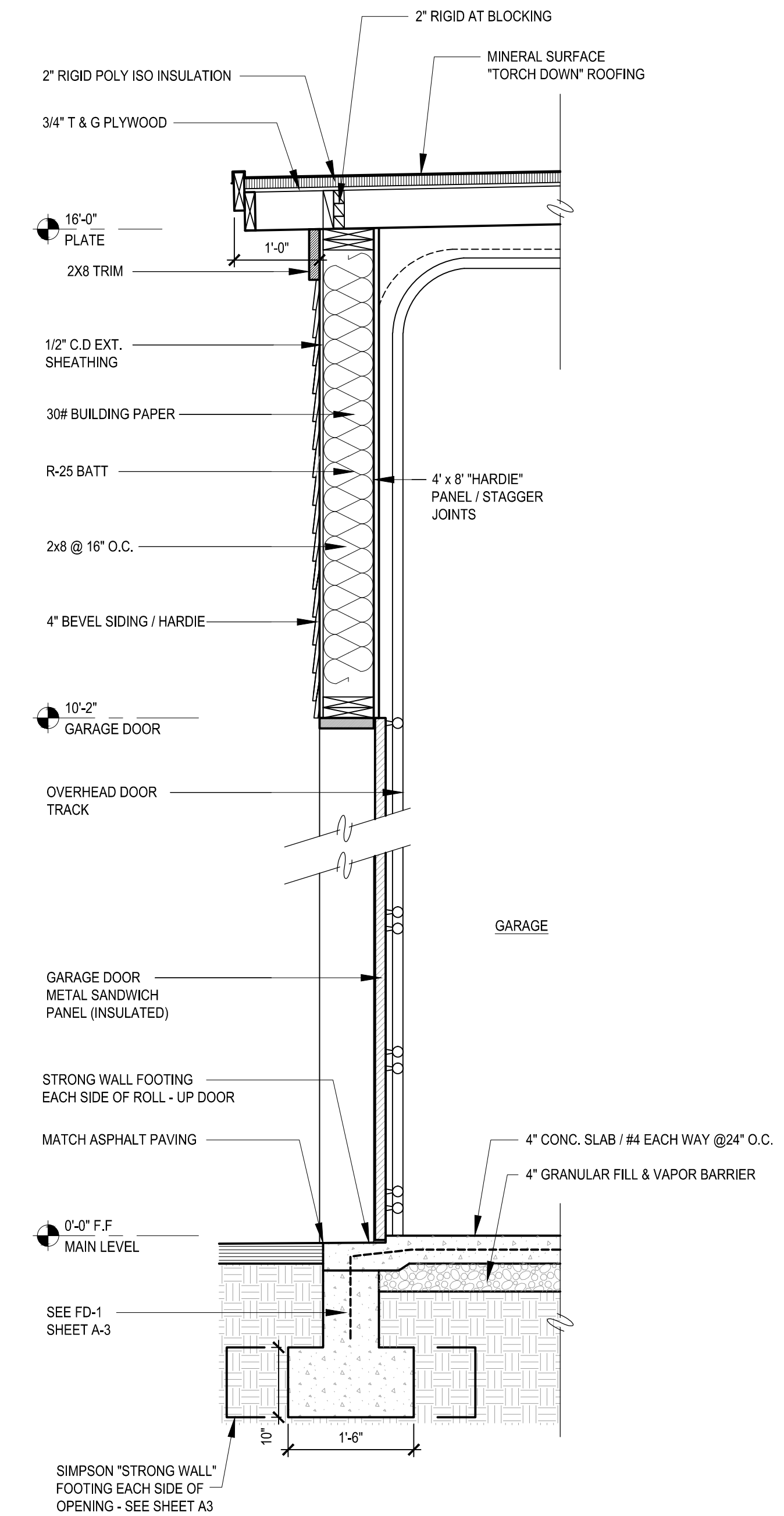
REVISIONS:

Mark	Date

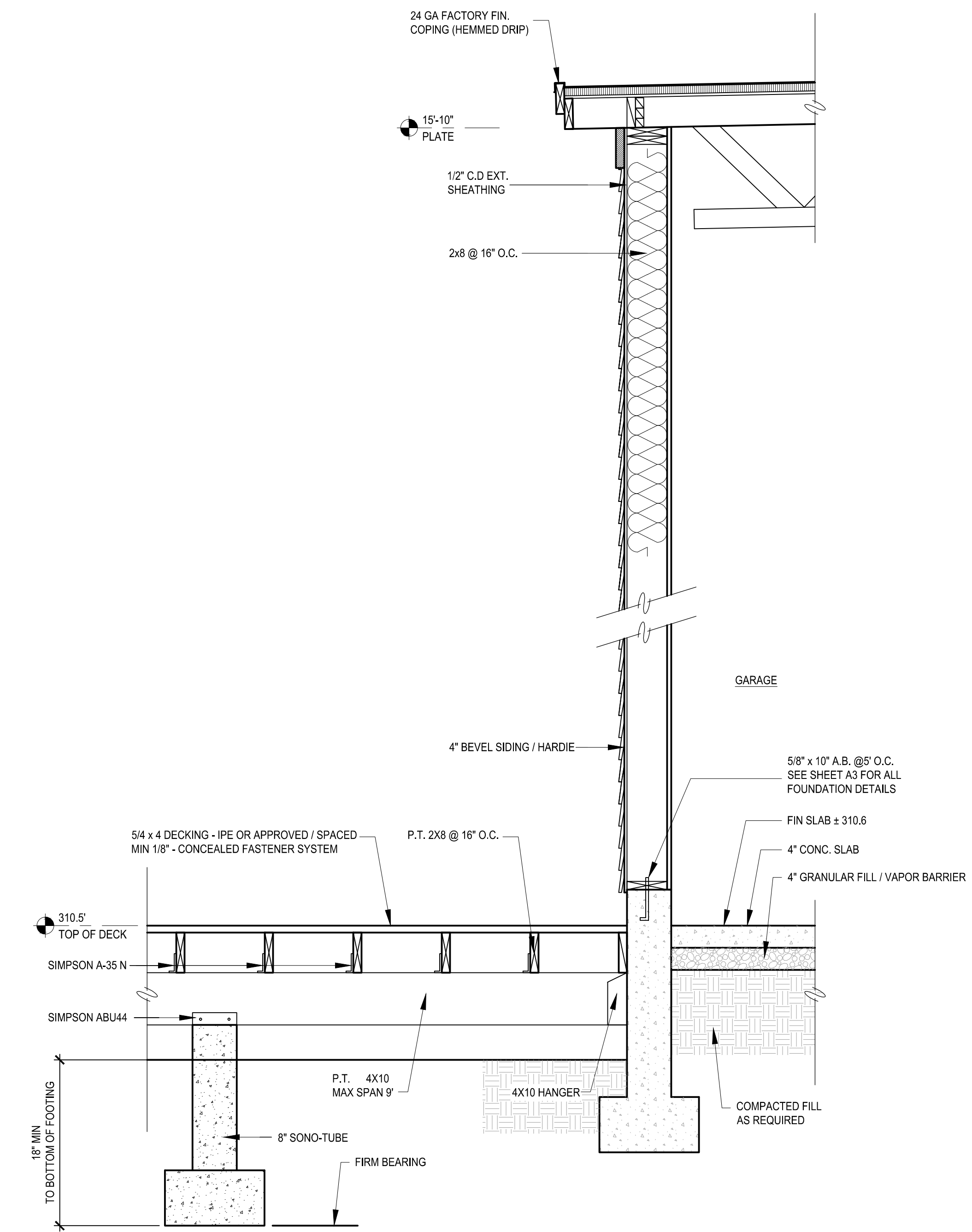
DATE: 05/28/19



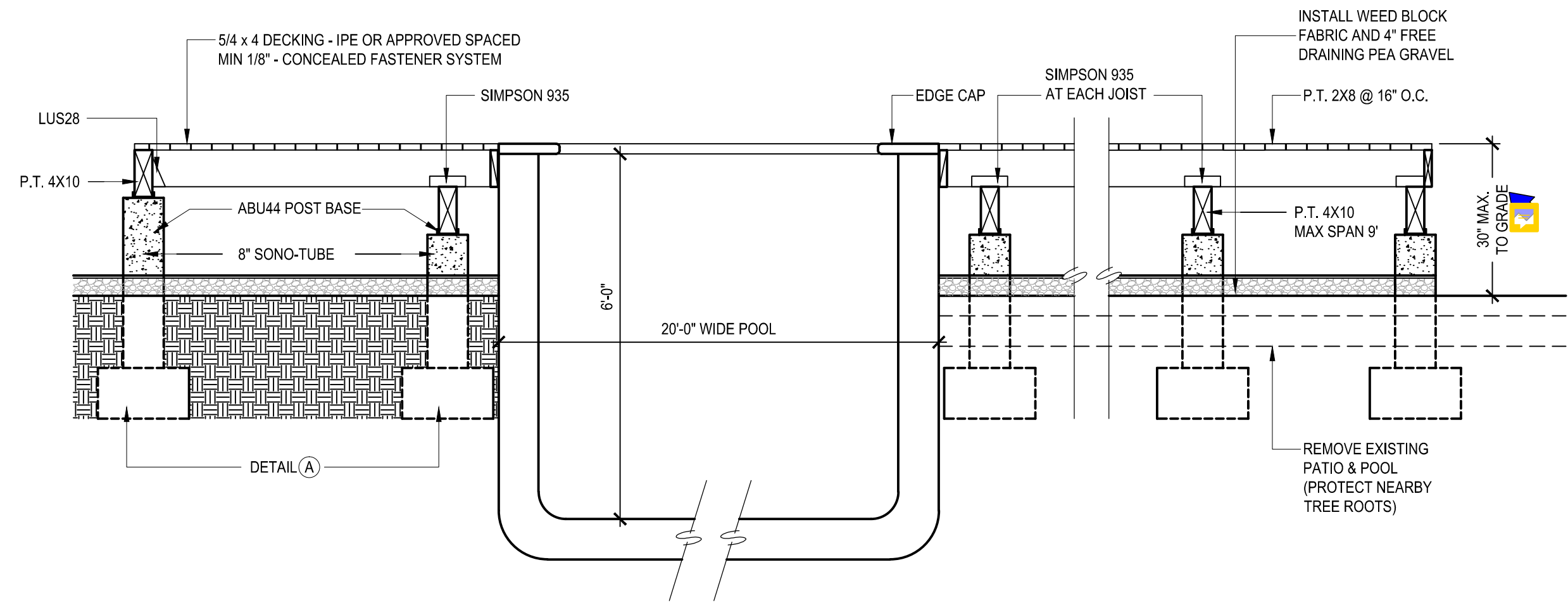
WALL SECTION A  
 3/4" = 1'-0"



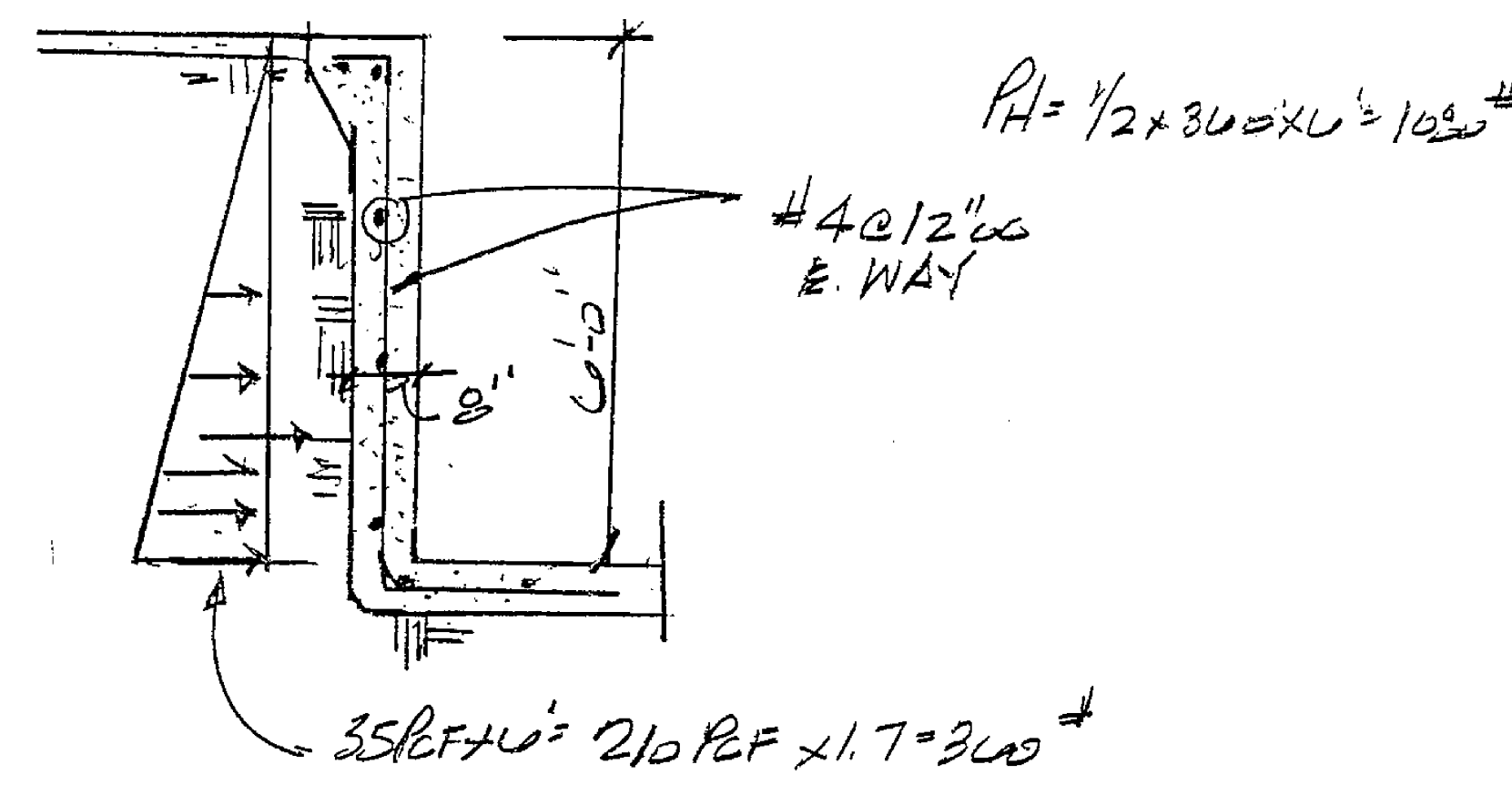
WALL SECTION B  
 3/4" = 1'-0"



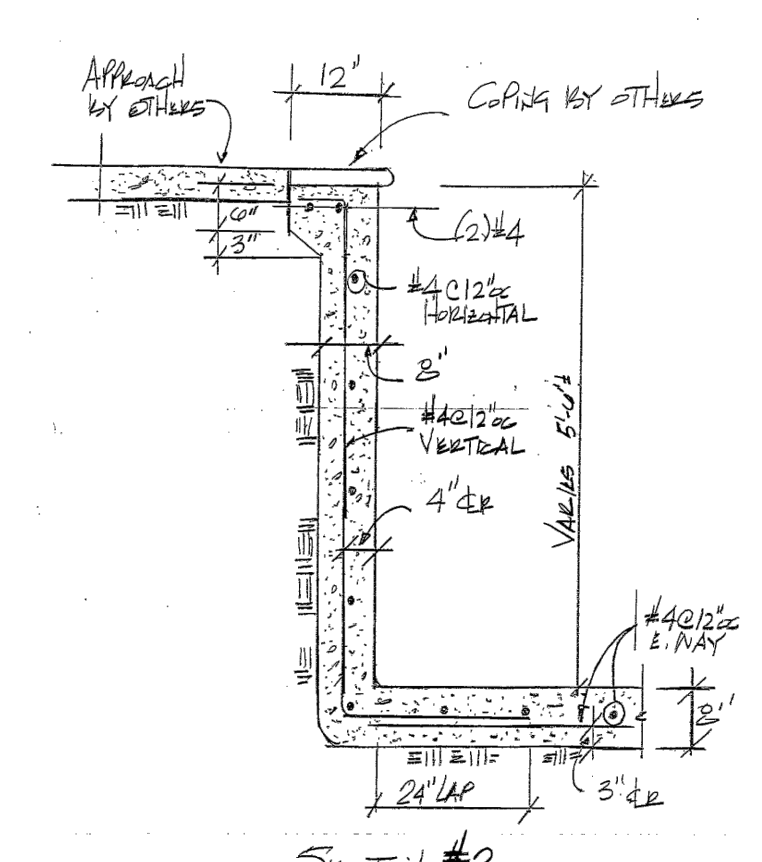
WALL SECTION C  
 3/4" = 1'-0"



POOL / WOOD DECK SECTION  
1/2" = 1'-0"



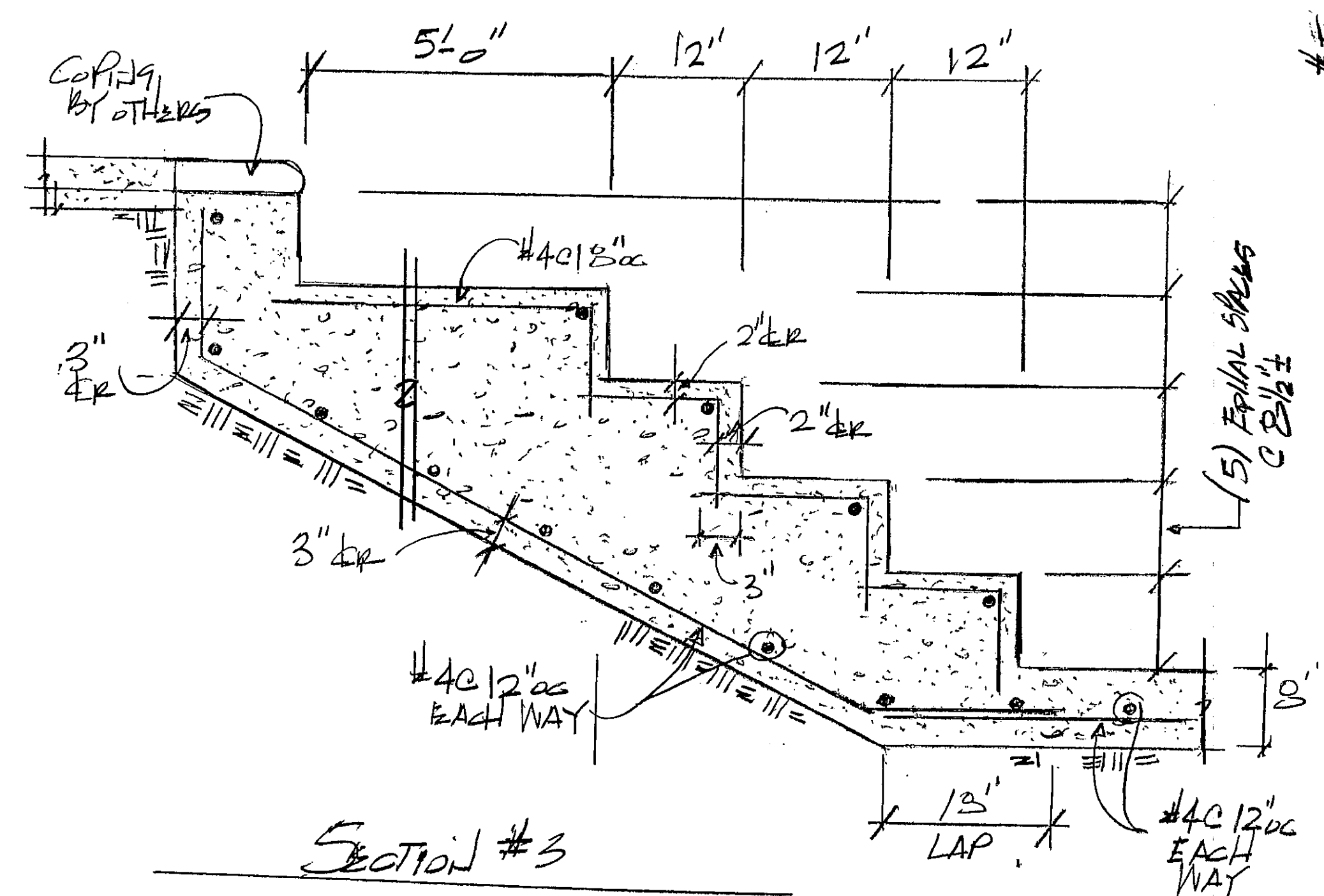
SECTION  
1/2" = 1'-0"



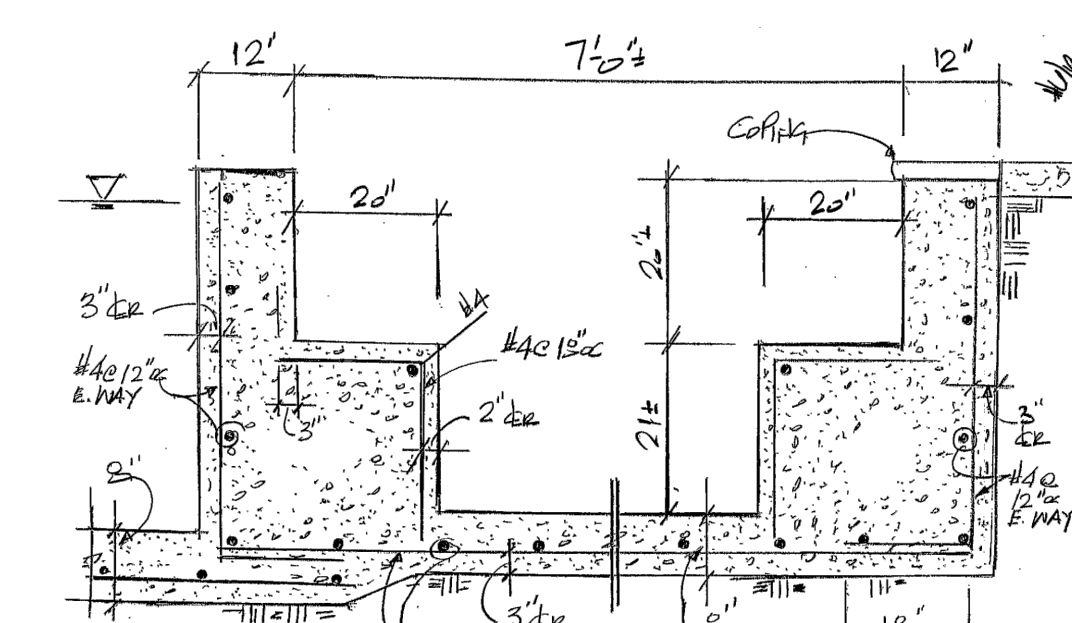
SECTION #2  
1/2" = 1'-0"

SWIMMING POOL  
STRUCTURAL NOTES

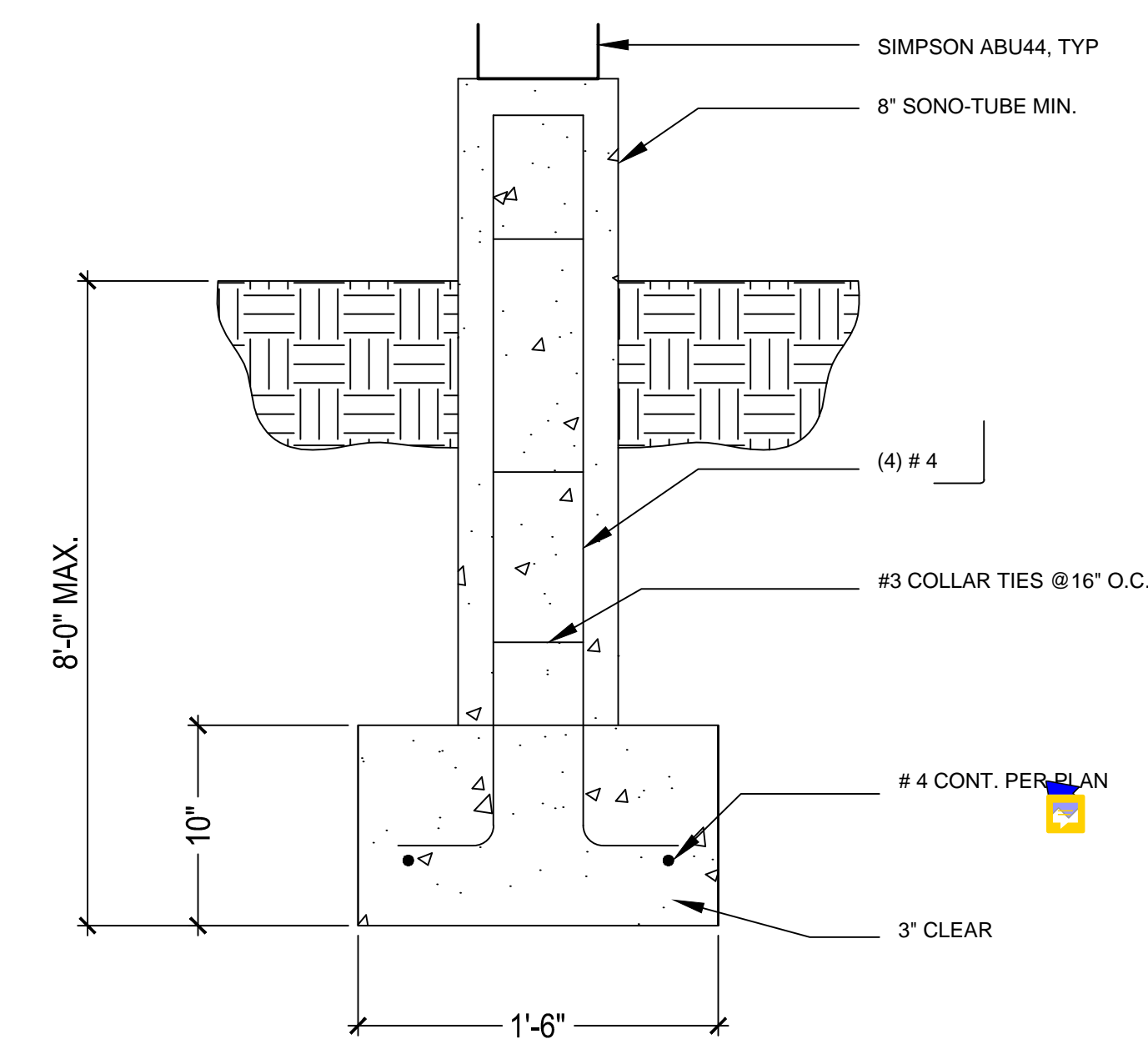
- CONTRACTOR SHALL COMPLY WITH THE CURRENT EDITION OF THE 2015 INTERNATIONAL BUILDING CODE OR APPLICABLE CODE OR BUILDING ORDINANCE.
- CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS.
- CALL LOCAL BUILDING DEPARTMENT FOR STEEL INSPECTION PRIOR TO POURING CONCRETE.
- ASSUMED DESIGN FLUID PRESSURE = 35 LBS. PER CUBIC FOOT.
- ASSUMED SOIL BEARING = 1500 LBS/ PER FOOT SQUARED.
- THE GROUND SURROUNDING THE SWIMMING POOL IS ASSUMED LEVEL. NO SURCHARGE. RETAINING WALLS OR TERRACES ARE TO BE CONSTRUCTED ABOUT THE PERIMETER OF THE POOL.
- AIR-PLACED CONCRETE SHALL HAVE A MINIMUM 28-DAY STRENGTH OF 4000 PSI.
- STEEL PLACEMENT SHALL BE AS SHOWN ON THE PLAN. LAP ALL BARS 30-BAR DIAMETERS. 2'-0" RETURN AT ALL CORNERS. ALL STEEL SHALL BE CAREFULLY AND FIRMLY WIRED INTO PLACE. REINFORCEMENT SHALL BE SECURED IN PLACE WITH CONCRETE BRICK.
- CONCRETE SHALL BE PLACED ON FIRM, NATURAL, UNDISTURBED SOIL.
- THE POOL SECTION HEREIN IS DESIGNED PRIMARILY FOR RECTANGULAR SHAPED POOLS, AND IS FULLY APPLICABLE TO FREE-FORM POOLS.
- REINFORCEMENT SHALL BE DEFORMED BILLET STEEL  $f_y = 40,000$  PSI.



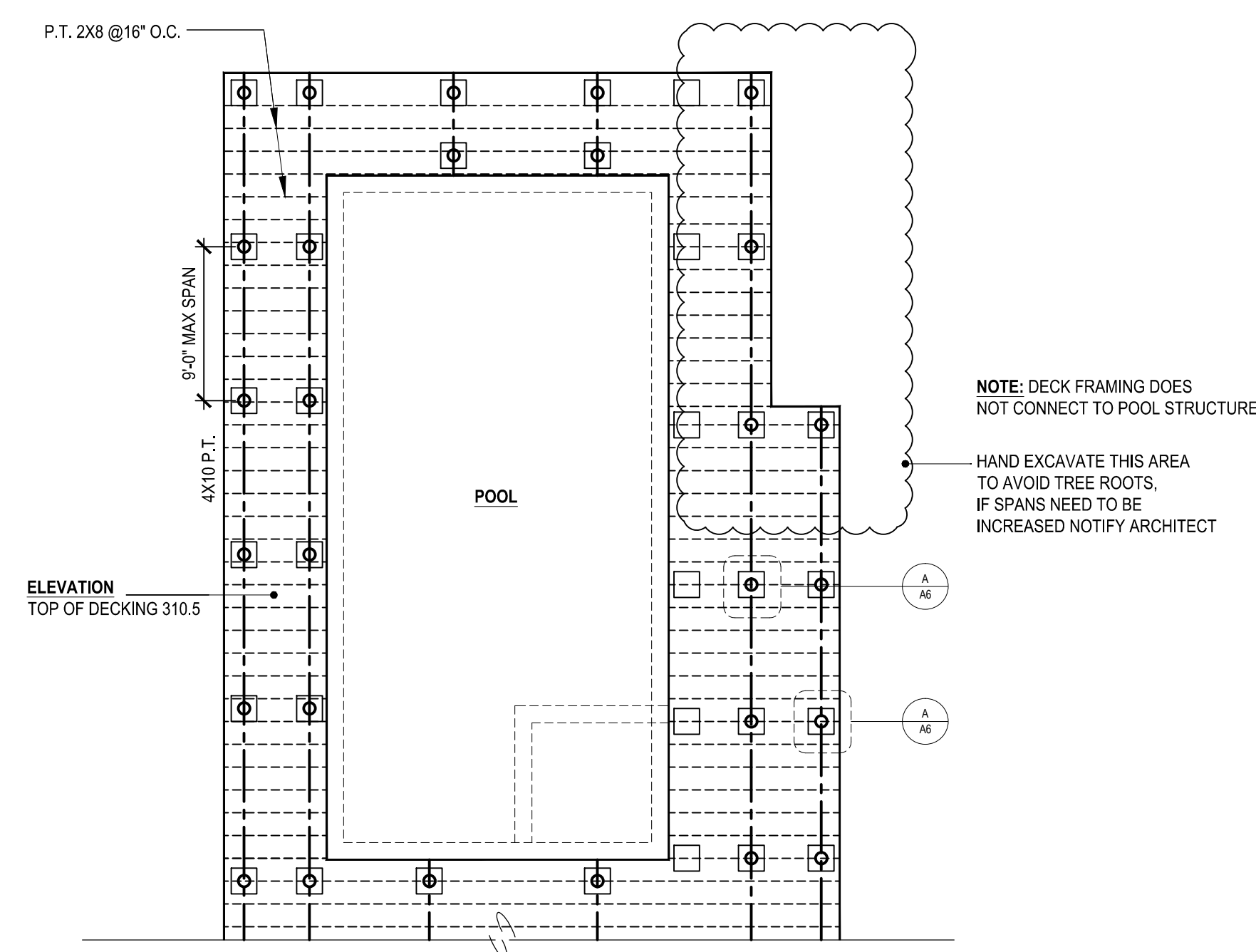
SECTION #3  
1/2" = 1'-0"



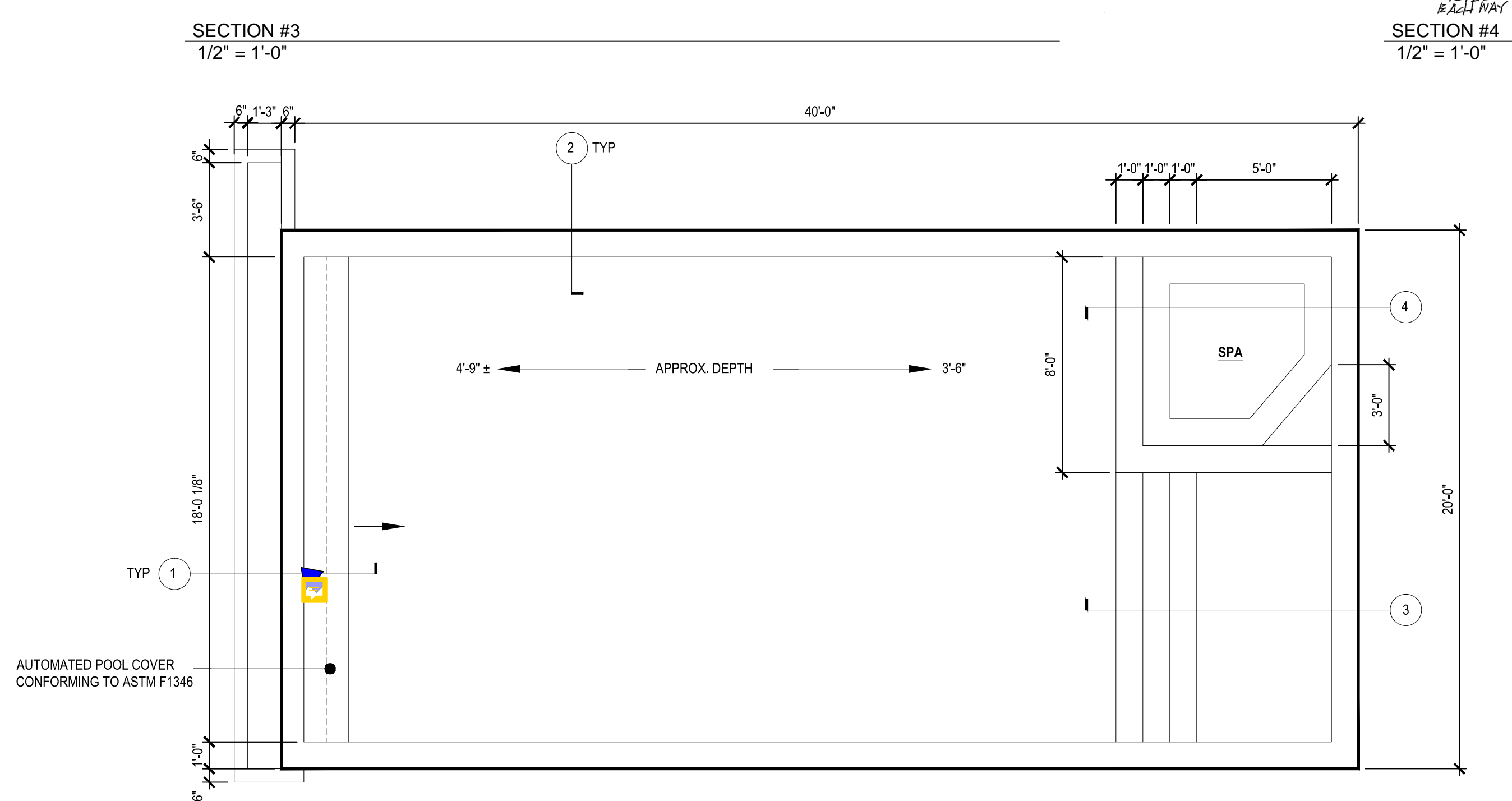
SECTION #4  
1/2" = 1'-0"



TYPICAL SONO-TUBE TO SPREAD FOOTING CONNECTION DETAIL  
1 1/2" = 1'-0"



SCHEMATIC FRAMING PLAN FOR DECKING  
1/8" = 1'-0"



POOL PLAN  
1/4" = 1'-0"

POOL ENGINEERING FROM:  
MITCHELL ENGINEERING

**Ned Nelson, Architect**

11773 Sunrise Drive NE  
Bainbridge Island, WA 98110  
telephone: 425.444.6782  
email: nednelson@msn.com

HEADRICK RESIDENCE  
8822 S.E. 62ND STREET,  
MERCER ISLAND, WA. 98040

REVISIONS:

Mark	Date

DATE: 05/28/19

POOL & DECK  
DETAILS

SHEET:  
**A6**



**LEGAL DESCRIPTION**  
 (PER CHICAGO TITLE INSURANCE COMPANY, ORDER NUMBER 0134363-ETU, DATED AUGUST 23, 2018)  
 LOT 8, BLOCK 1, TIMBERLAND ADDITION, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 52 OF PLATS, PAGE 20, IN KING COUNTY, WASHINGTON, SITUATE IN THE CITY OF MERCER ISLAND, COUNTY OF KING, STATE OF WASHINGTON.

**SCHEDULE B ITEMS**  
 ITEM 1  
 COVENANTS, CONDITIONS, RESTRICTIONS, RESERVATIONS, EASEMENTS, EASEMENT PROVISIONS, DEDICATIONS, BUILDING SETBACK LINES, NOTES, STATEMENTS, AND OTHER MATTERS, IF ANY, BUT OMITTING ANY COVENANTS OR RESTRICTIONS, IF ANY, INCLUDING BUT NOT LIMITED TO THOSE BASED UPON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, FAMILIAL STATUS, MARITAL STATUS, DISABILITY, HANDICAP, NATIONAL ORIGIN, ANCESTRY, OR SOURCE OF INCOME, AS SET FORTH IN APPLICABLE STATE OR FEDERAL LAWS, EXCEPT TO THE EXTENT THAT SAID COVENANT OR RESTRICTION IS PERMITTED BY APPLICABLE LAW, AS SET FORTH ON PLAT OF TIMBERLAND, RECORDED IN VOLUME 52 OF PLATS, PAGE 20; RECORDING NO.: 4393606 (BLANKET IN NATURE)  
 ITEM 3  
 EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT GRANTED TO: CITY OF MERCER ISLAND, KING COUNTY, WASHINGTON PURPOSE: INGRESS AND EGRESS, SOLELY FOR MAINTAINING, OPERATION, REPAIRING AND REPLACING SANITARY SEWER AND STORM DRAINAGE PIPE AND LINES RECORDING DATE: FEBRUARY 23, 1982 RECORDING NO.: 8202230542 AFFECTS: A PORTION OF SAID PREMISES (PLOTTED)  
 ITEM 4  
 SANITARY SEWER EASEMENT AND THE TERMS AND CONDITIONS THEREOF; RECORDING DATE: SEPTEMBER 14, 1988 RECORDING NO.: 8809140722 (PLOTTED)  
 ITEM 5  
 COMMITMENT TO CONTRIBUTE TO REPAIR OF TIMBERLAND/SALEM WOODS Ravine AND THE TERMS AND CONDITIONS THEREOF; RECORDING DATE: SEPTEMBER 14, 1988 RECORDING NO.: 8809140722 (BLANKET IN NATURE)

**METHOD OF SURVEY**  
 INSTRUMENTATION FOR THIS SURVEY WAS A LEICA ELECTRONIC DISTANCE MEASURING UNIT. PROCEDURES USED IN THIS SURVEY WERE DIRECT AND REVERSE ANGLES, NO CORRECTION NECESSARY. MEETS STATE STANDARDS SET BY WAC 332-130-090.

**BEARING MERIDIAN**  
 A BEARING OF S88°43'21"E ON THE CENTERLINE OF S.E. 63RD STREET, PER THE PLAT OF TIMBERLAND ADDITION, AS RECORDED IN VOLUME 19 OF PLATS, PAGE 20, RECORDS OF KING COUNTY, WA.

**VERTICAL DATUM**  
 CITY OF MERCER ISLAND BENCH MARK NO. 2289 (NAVD 88) (VISITED 08-06-12)  
 FOUND "1/2" COPPER PIN IN CONC (DN 1.5"), LOCATED SE 63RD ST, OPP HSE #8817.  
 ELEVATION = 292.97'

# TOPOGRAPHIC & BOUNDARY SURVEY

VICINITY MAP N.T.S.

**SURVEYOR'S NOTES**

- 1) THE TOPOGRAPHIC SURVEY SHOWN HEREON WAS PERFORMED IN AUGUST OF 2012. THE FIELD DATA WAS COLLECTED AND RECORDED ON MAGNETIC MEDIA THROUGH AN ELECTRONIC THEODOLITE. THE DATA FILE IS ARCHIVED ON DISC OR CD. WRITTEN FIELD NOTES MAY NOT EXIST. CONTOURS ARE SHOWN FOR CONVENIENCE ONLY. DESIGN SHOULD RELY ON SPOT ELEVATIONS.
- 2) SUBJECT PROPERTY TAX PARCEL NO. 8650500040.
- 3) SUBJECT PROPERTY AREA PER THIS SURVEY IS 27,481 SQ.FT.+/-.

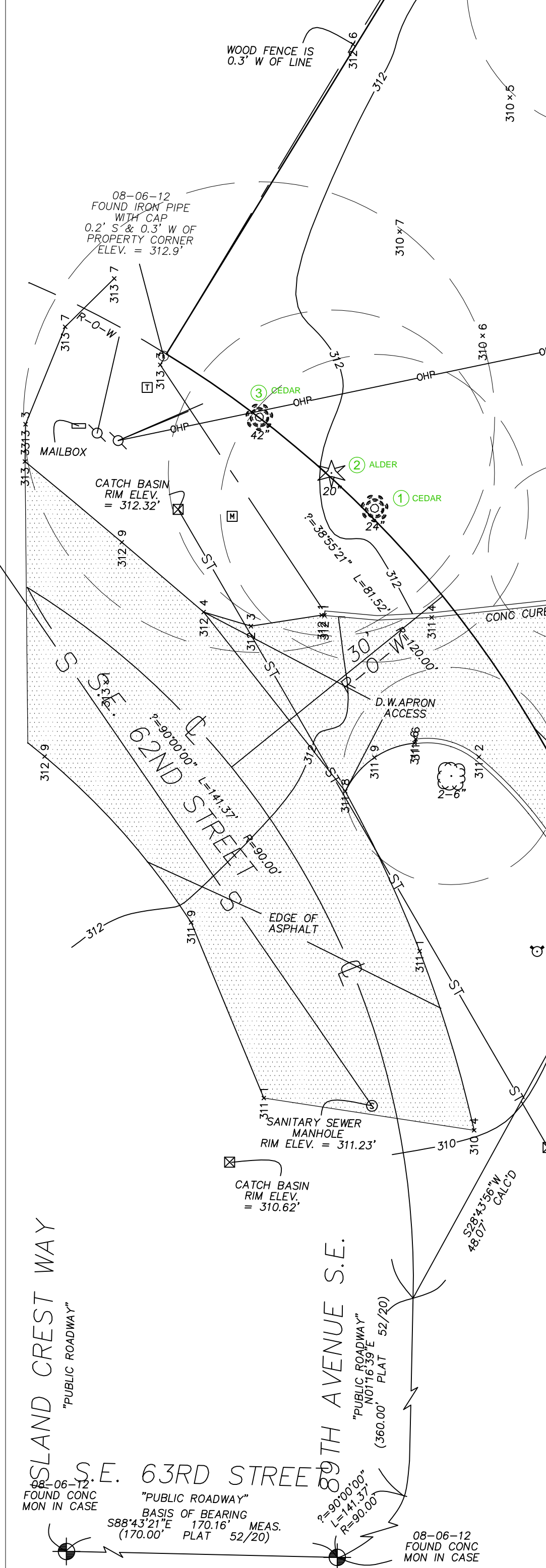
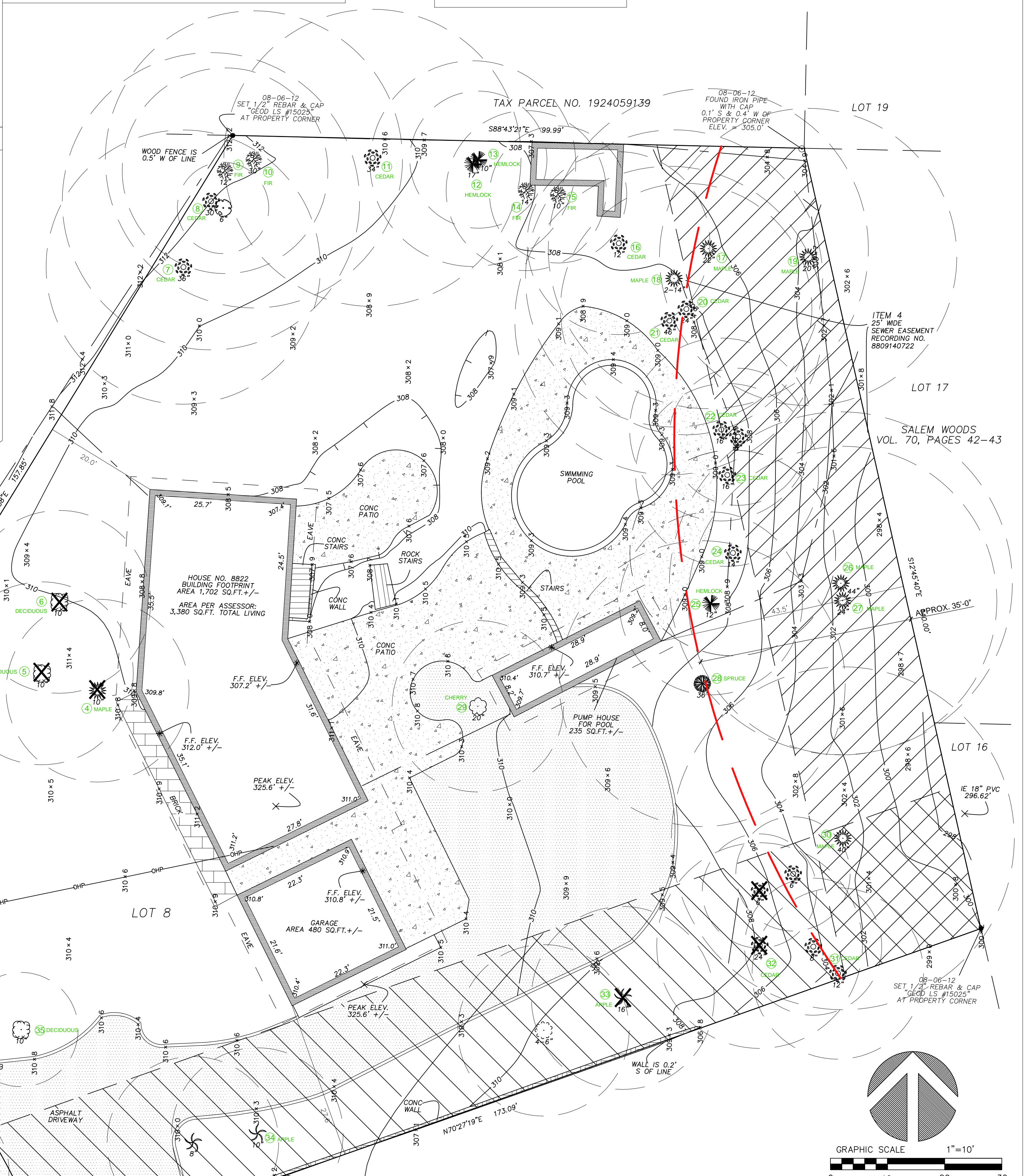
**LEGEND**

- FOUND MONUMENT AS NOTED
- SET REBAR & CAP AS NOTED
- FOUND IRON PIPE AS NOTED
- UTILITY POLE
- CATCH BASIN
- SANITARY SEWER MANHOLE
- FINISHED FLOOR ELEVATION
- SPOT ELEVATION
- WATER METER
- FIRE HYDRANT
- TELEPHONE RISER
- ASPHALT SURFACE
- RET. WALL
- CONC SURFACE
- STAIRS
- BRICK SURFACE
- D.W.APRON DRIVEWAY ACCESS
- CONC CONCRETE
- R-O-W RIGHT-OF-WAY
- ( ) RECORD AS NOTED
- DECIDUOUS TREE (NOT SHOWN TO SCALE) TRUNK DIA SHOWN IN INCHES.
- ALDER TREE (NOT SHOWN TO SCALE) TRUNK DIA SHOWN IN INCHES.
- CEGAR TREE (NOT SHOWN TO SCALE) TRUNK DIA SHOWN IN INCHES.
- APPLE TREE (NOT SHOWN TO SCALE) TRUNK DIA SHOWN IN INCHES.
- MAPLE TREE (NOT SHOWN TO SCALE) TRUNK DIA SHOWN IN INCHES.
- HEMLOCK TREE (NOT SHOWN TO SCALE) TRUNK DIA SHOWN IN INCHES.
- FIG TREE (NOT SHOWN TO SCALE) TRUNK DIA SHOWN IN INCHES.
- HOLLY TREE (NOT SHOWN TO SCALE) TRUNK DIA SHOWN IN INCHES.
- FIR TREE (NOT SHOWN TO SCALE) TRUNK DIA SHOWN IN INCHES.
- CHERRY TREE (NOT SHOWN TO SCALE) TRUNK DIA SHOWN IN INCHES.
- SPRUCE TREE (NOT SHOWN TO SCALE) TRUNK DIA SHOWN IN INCHES.
- BUILDING LINE
- CENTERLINE OF ROAD
- OHP OVERHEAD WIRES
- SLOPE AS NOTED
- EAVES
- METAL FENCE
- SEWER LINE
- BURIED STORM LINE
- GUY WIRE
- WOOD FENCE

ITEM 3 - INGRESS AND EGRESS ESMT FOR SEWER AND STORM REC. NO. 8202230542  
 ITEM 4 - SEWER ESMT REC. NO. 8809140722

**TREE INVENTORY**

NUMBER OF TREES 36" OR GREATER	(3) (7) (21) (29) (33)
NUMBER OF TREES 24" OR GREATER	(1) (8) (10) (11) (20) (27) (32)



NOTE: PROPOSE REMOVING A 6" CEDAR JUST NORTH OF TREE #32. 6" CEDAR NOT ON THE LIST, DIAMETER LESS THAN 10".

**TREE INVENTORY**

TREE NUMBER	SPECIE	DIAMETER	REMOVE
1	CEDAR	24"	
2	ALDER	20"	
3	CEDAR	42"	
4	MAPLE	10"	X
5	DECIDUOUS	10"	X
6	DECIDUOUS	10"	X
7	CEDAR	36"	
8	CEDAR	30"	
9	FIR	12"	
10	FIR	30"	
11	CEDAR	34"	
12	HEMLOCK	17"	
13	HEMLOCK	10"	
14	FIR	14"	
15	FIR	10"	
16	CEDAR	12"	
17	MAPLE	22"	
18	MAPLE	14"	
19	MAPLE	20"	
20	CEDAR	24"	
21	CEDAR	46"	
22	CEDAR	16"	
23	CEDAR	16"	
24	CEDAR	14"	
25	HEMLOCK	12"	
26	MAPLE	44"	
27	MAPLE	24"	
28	SPRUCE	36"	
29	CHERRY	20"	
30	MAPLE	40"	
31	CEDAR	12"	
32	CEDAR	24"	X
33	APPLE	16"	X
34	APPLE	10"	
35	DECIDUOUS	10"	

**DATE:** 09/19/2018  
**SCALE:** 1" = 10'  
**CHECKED BY:** E.J.G.  
**DATE:** 08/13/2012  
**JOB NUMBER:** 12421  
**DRAWN BY:** V.L.U.  
**DATE:** 08/13/2012  
**REVISION HISTORY:**

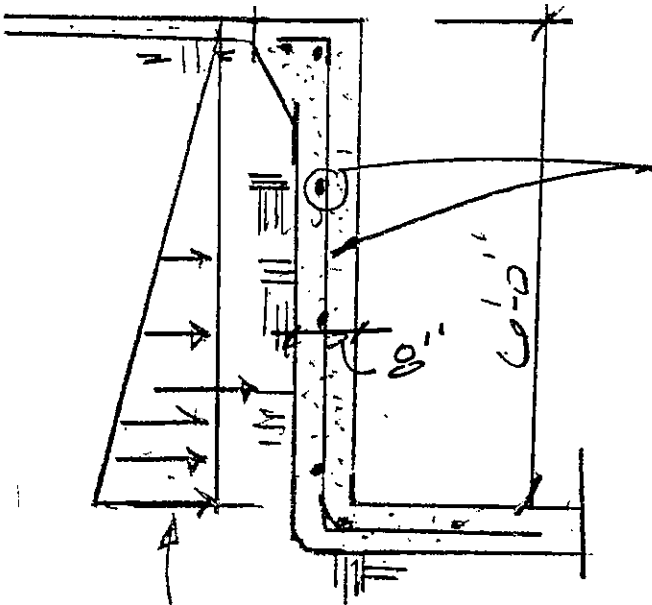
**TOPOGRAPHIC & BOUNDARY SURVEY**  
 SE 1/4 OF THE SW 1/4 OF SEC. 19, TWP. 24N., RGE. 5E., W.M.  
 CITY OF MERCER ISLAND, KING COUNTY, WA.

**HEADRICK RESIDENCE**  
 8822 S.E. 62ND STREET  
 MERCER ISLAND, WA. 98040

**SHEET NUMBER**  
 1 OF 1

SCOPE OF WORK:

DESIGN FOR PAD WALL SHOWN BELOW FOR  
POD SHOWN ON SHEET #A1 CONTAINED WITHIN.



$$PH = \frac{1}{2} \times 3600 \times 9 = 10200 \#$$

#4 @ 12" OC  
E. WAY

$$35 PCF \times 9 = 210 PCF \times 1.7 = 3600 \#$$

$$M = 10200 \times \frac{9}{3} = 21000 \text{ FT-LB} \times 12 / 49000 \times 4 = 0.4 \text{ IN-LB} = 20$$

#4 @ 12" VERTICAL



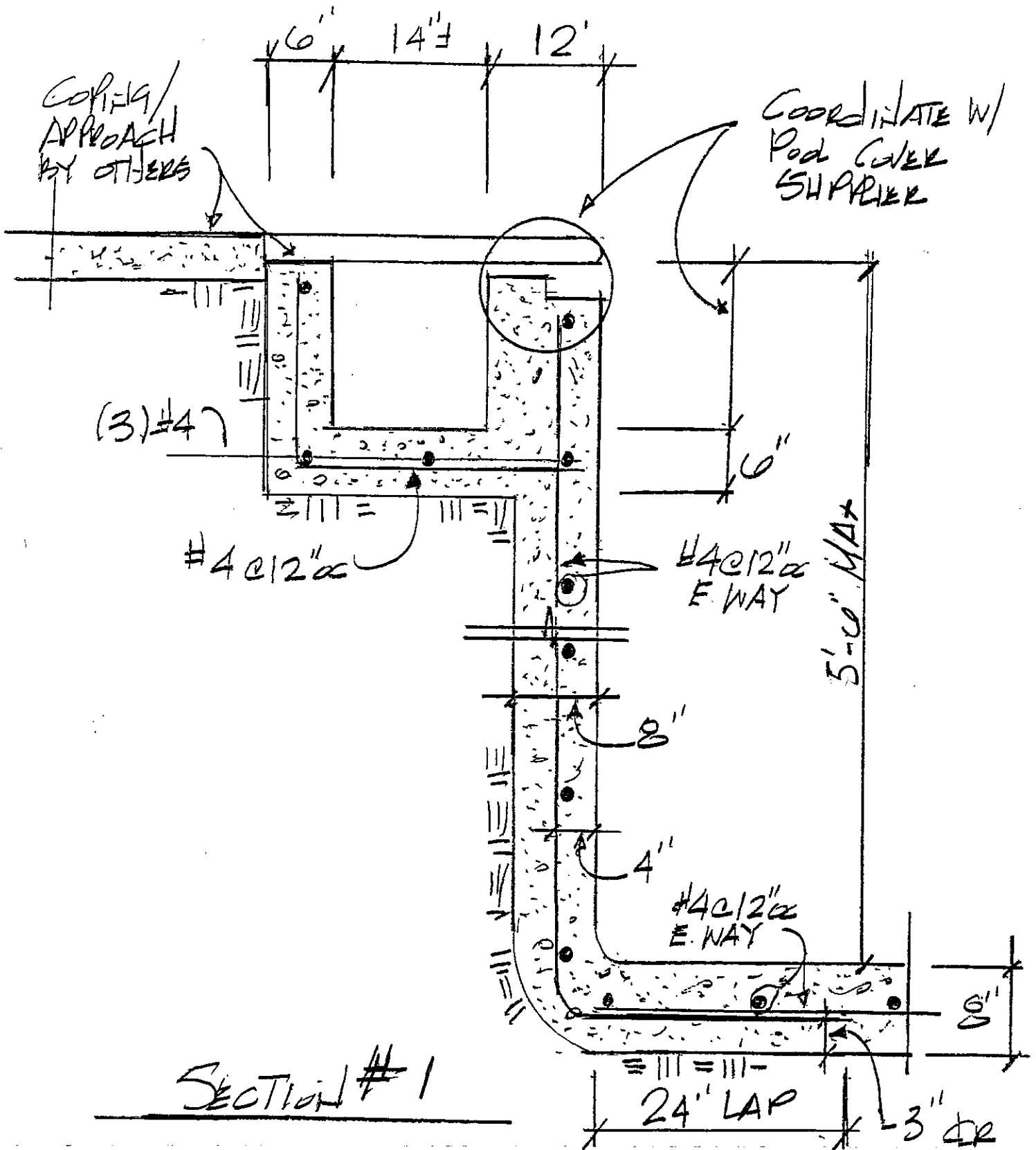
PREPARED BY M.M.  
DATE 3/31/19

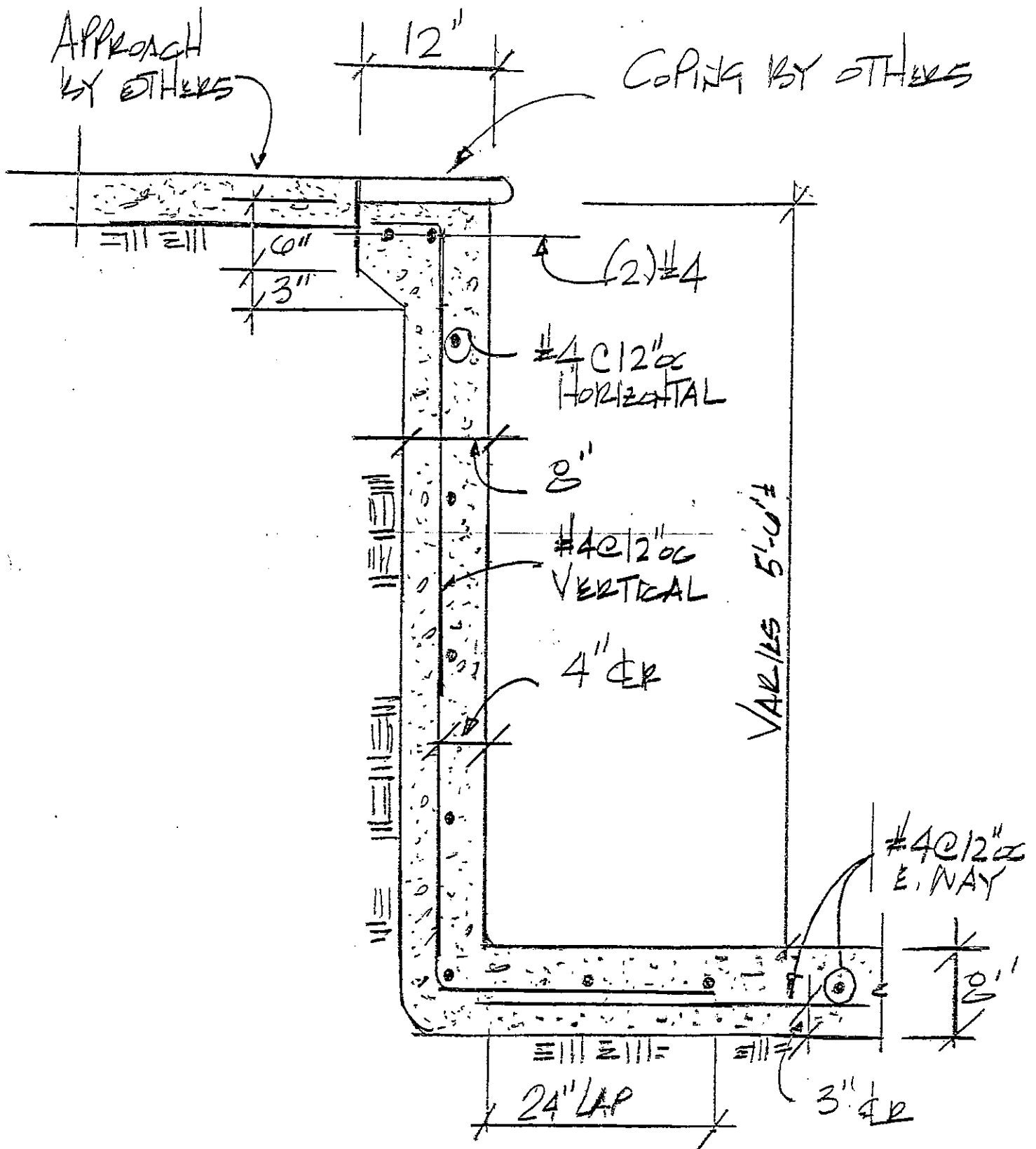
PROJECT Keisno Ponds  
SUBJECT HEADWALL

SHEET NO. 1 OF 6  
JOB NO. 019-227

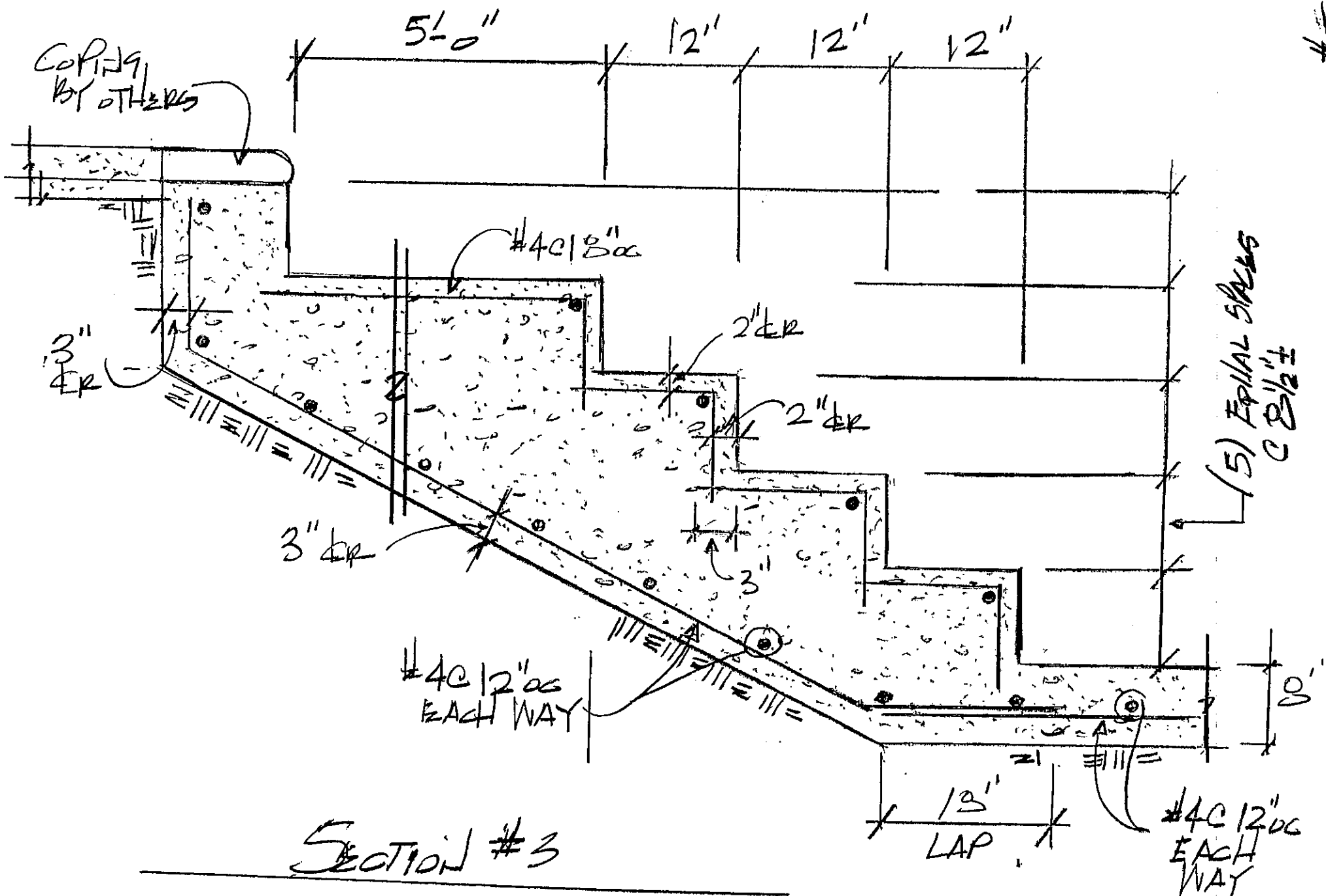
## STRUCTURAL NOTES

1. CONTRACTOR SHALL COMPLY WITH THE CURRENT EDITION OF THE 2015 INTERNATIONAL BUILDING CODE OR APPLICABLE CODE OR BUILDING ORDINANCE.
2. CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS.
3. CALL LOCAL BUILDING DEPARTMENT FOR STEEL INSPECTION PRIOR TO POURING CONCRETE.
4. ASSUMED DESIGN FLUID PRESSURE = 35 LBS. PER CUBIC FOOT.
5. ASSUMED SOIL BEARING = 1500 LBS/ PER FOOT SQUARED.
6. THE GROUND SURROUNDING THE SWIMMING POOL IS ASSUMED LEVEL. NO SURCHARGE, RETAINING WALLS OR TERRACES ARE TO BE CONSTRUCTED ABOUT THE PERIMETER OF THE POOL.
7. AIR-PLACED CONCRETE SHALL HAVE A MINIMUM 28-DAY STRENGTH OF 4000 PSI.
8. STEEL PLACEMENT SHALL BE AS SHOWN ON THE PLAN. LAP ALL BARS 30-BAR DIAMETERS. 2'-0" RETURN AT ALL CORNERS. ALL STEEL SHALL BE CAREFULLY AND FIRMLY WIRED INTO PLACE. REINFORCEMENT SHALL BE SECURED IN PLACE WITH CONCRETE BRICK.
9. CONCRETE SHALL BE PLACED ON FIRM; NATURAL, UNDISTURBED SOIL.
10. THE POOL SECTION HEREIN IS DESIGNED PRIMARILY FOR RECTANGULAR SHAPED POOLS, AND IS FULLY APPLICABLE TO FREE-FORM POOLS.
11. REINFORCEMENT SHALL BE DEFORMED BILLET STEEL  $f_y = 40,000$  PSI.

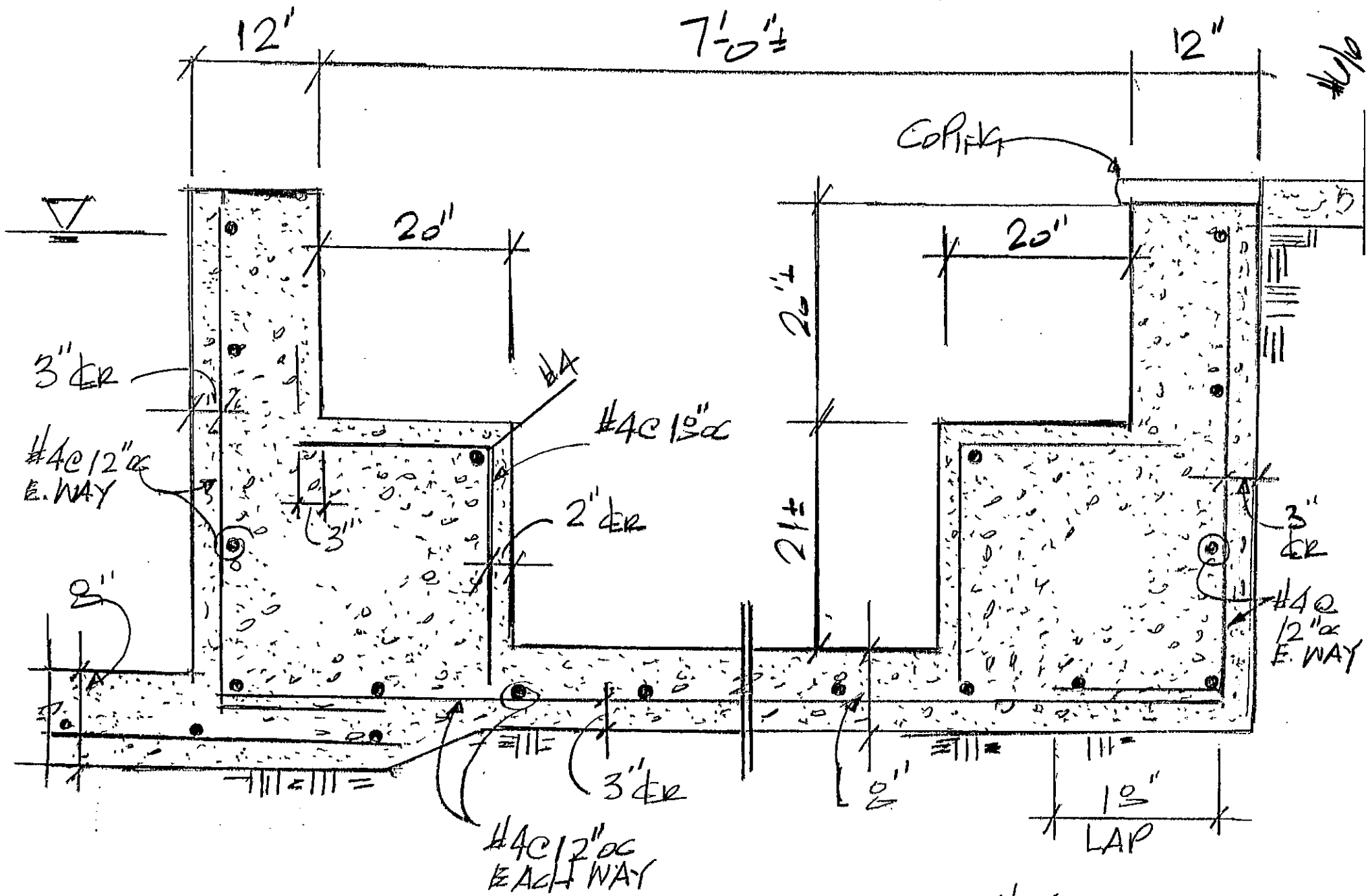




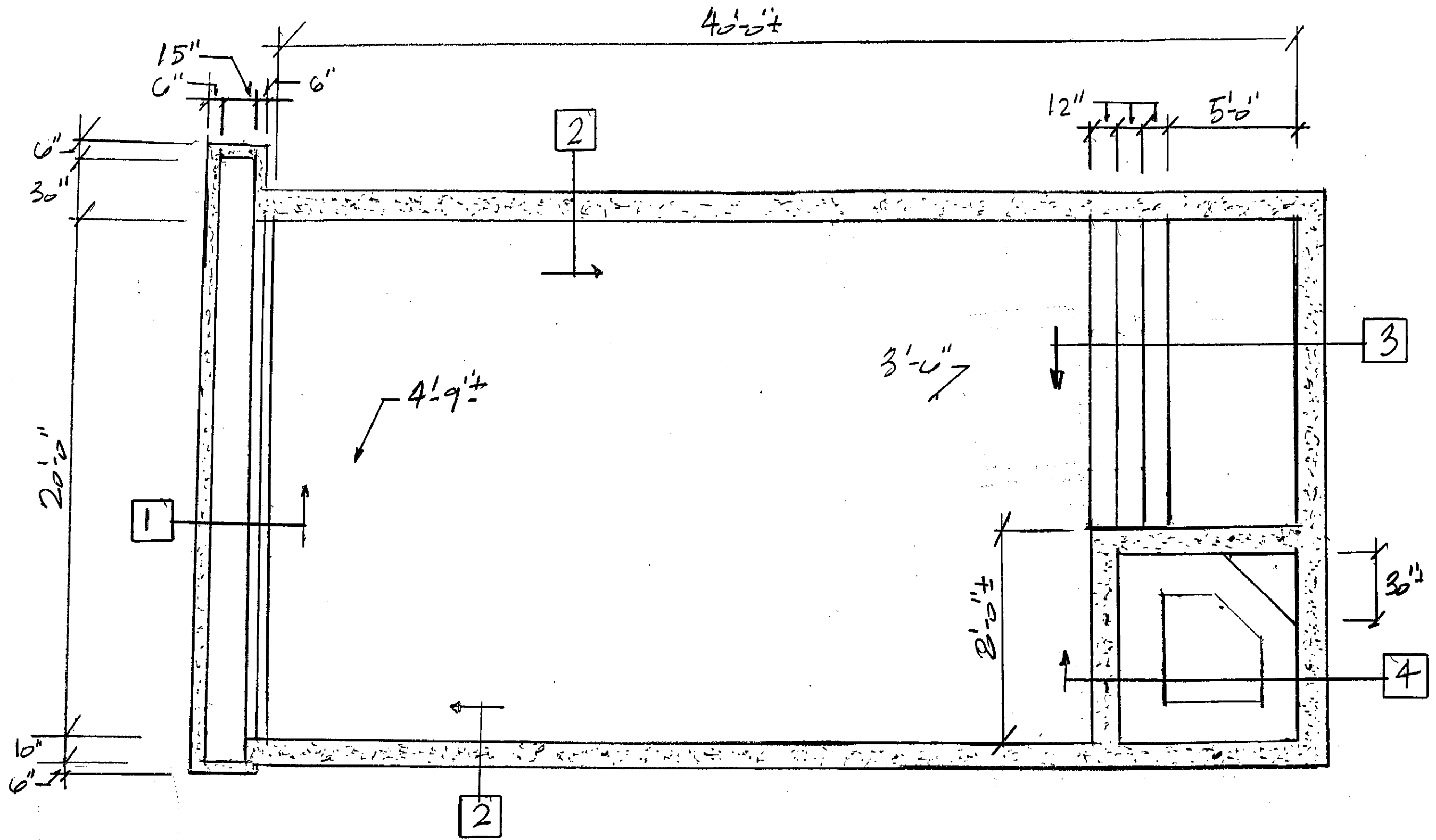
SECTION #2



SECTION #3



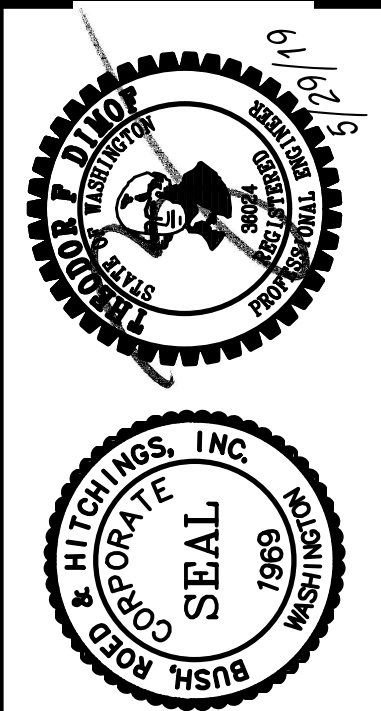
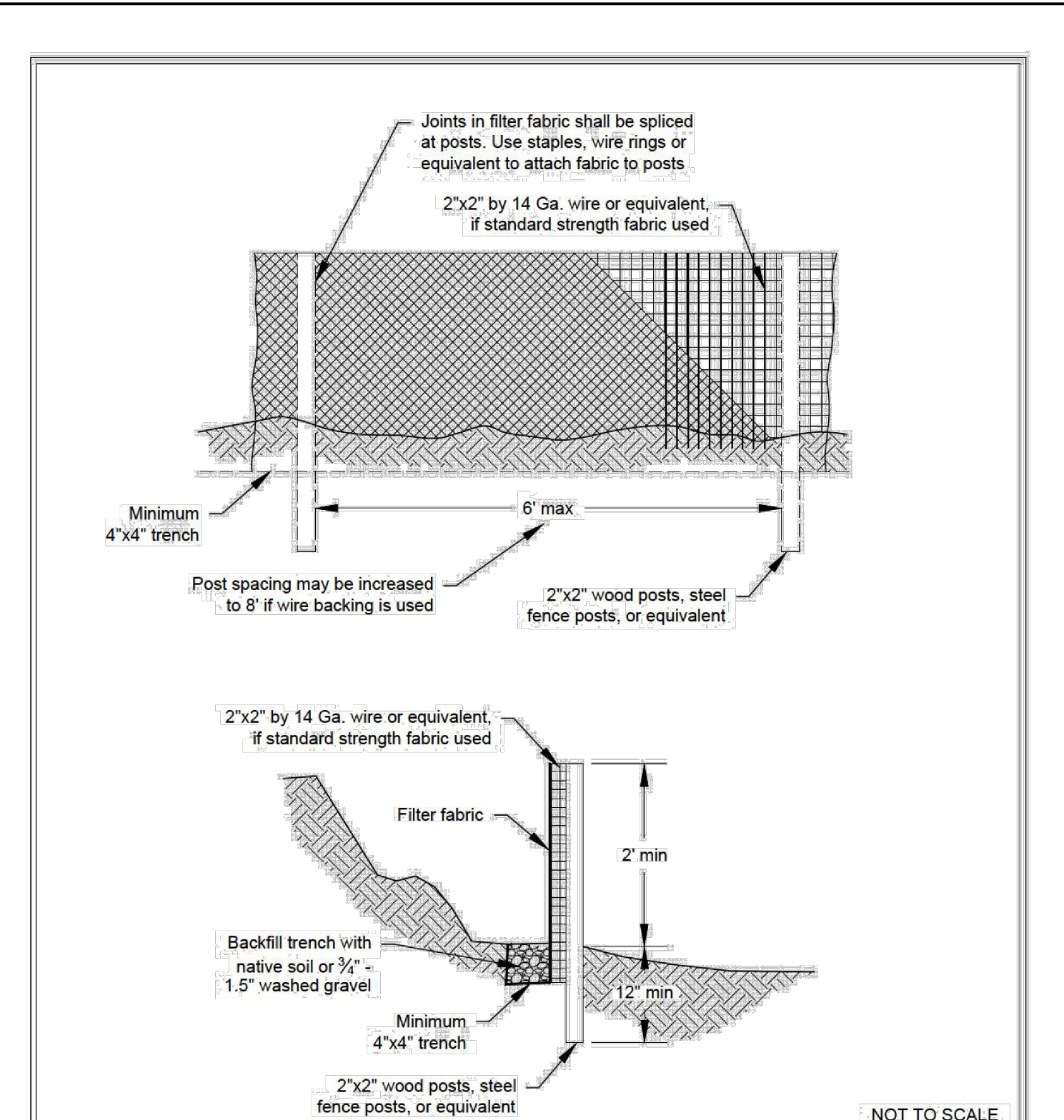
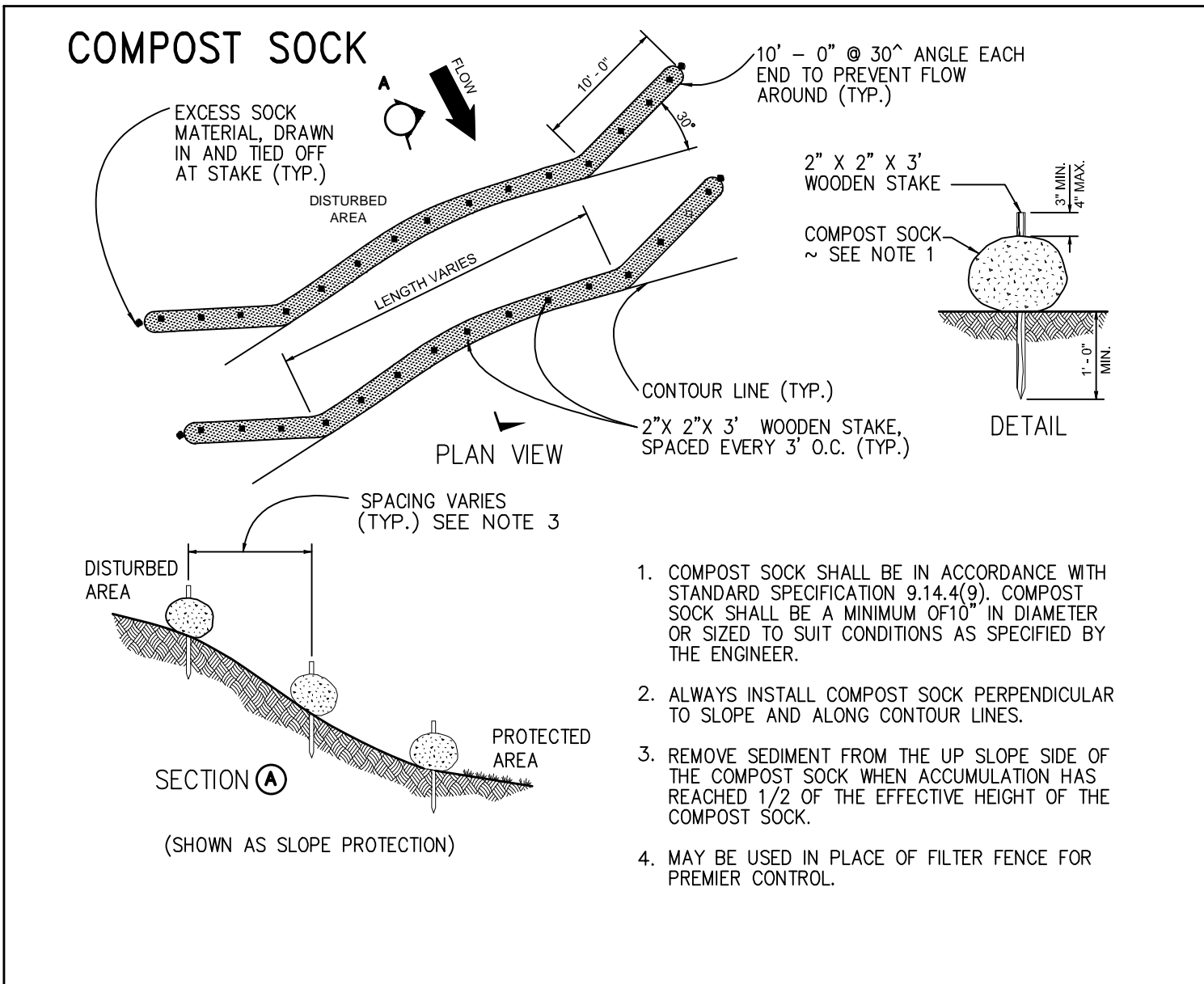
SECTION #4



POOL PLAN



24" x 36" 6/14/2019 U:\CADD\2019\2019094\ENGINEERING\0-PLAN\_SHEETS\0-ERO.DWG



**BUSH, ROED & HITCHINGS, INC.**  
 LAND SURVEYORS & CIVIL ENGINEERS  
 2009 MINOR AVE. EAST  
 SEATTLE, Washington  
 98102-3513  
 (206) 323-4144  
 1-800-935-0508  
 FAX# (206) 323-7135



NO.	REVISION	DATE

EROSION CONTROL PLAN  
 8822 S.E. 62ND STREET  
 HEADRICK RESIDENCE  
 MERCER ISLAND KING COUNTY WASHINGTON

drawn by	checked by
WPG	TFD
scale	date
AS SHOWN	05/29/19
job no.	
2019094.00	
sheet	of
C1	



