

# RETAINING WALL AND STAIRS

335 FOREST AVE., FAIRFAX, CA

## CONSULTANT:

530 ALAMEDA DEL PRADO, #183C,  
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PHONE: (415) 578-0707  
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**STRUCTICA, inc.**  
STRUCTURAL CONSULTING

## CONTRACTOR:

40 PAUL DR,  
SAN RAFAEL, CA 94903  
PHONE: (415) 459-2130

**Westward**  
**WB**uilders  
by Marin H2O Inc.

JOB NO: 20140/P2014

DECEMBER 03, 2020

FEBRUARY 08, 2021 - REV 1

JUNE 30, 2021 - REV 3

MAY 16, 2021 - REV 2



SITE PLAN

SCOPE OF WORK:

1. THIS SUBMITTAL IS SOLELY FOR THE RETAINING WALL AND STAIRS SHOWN ON SH-2.0 AND 2.1.

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO THE CALIFORNIA BUILDING CODE (2019 ED.) AND OTHER APPLICABLE REGULATING REQUIREMENTS OF CITY OF FAIRFAX.
2. EXCAVATIONS SHALL BE MADE IN COMPLIANCE WITH THE MOST RECENT EDITION OF THE CALIFORNIA CONSTRUCTION SAFETY ORDERS (CAL-OSHA) REGULATIONS.
3. DIMENSIONS, OFFSETS, LINES AND GRADES ELEVATIONS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE THEM WITH THE CIVIL SITE PLAN AT THE SITE AND SHALL ESTABLISH TO INSURE PROPER HORIZONTAL AND VERTICAL ALIGNMENT OF WALLS AND LOCATION OF SOLDIER BEAMS. THE CONTRACTOR IS RESPONSIBLE TO REPORT ANY DISCREPANCY AND LACK OF COORDINATION BETWEEN THESE DRAWINGS AND SITE CONDITION TO THE ENGINEER (STRUCTICA, INC.) IN A TIMELY MANNER.
4. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES AND OTHER OBSTACLES IN THE FIELD. THE CONTRACTOR IS RESPONSIBLE TO POTHOLE ALL UTILITIES, AS NEEDED, BEFORE WALL CONSTRUCTION IS TO BEGIN AND REPORT ALL INTERFERENCE BETWEEN UTILITIES OR OTHER OBSTACLES WITH THE WALL IN THESE DRAWINGS TO THE ENGINEER (STRUCTICA, INC.) IN A TIMELY MANNER.
5. CONTRACTOR SHALL CALL 811 OR (800) 642-2444 PRIOR TO EXCAVATION IN A TIMELY MANNER TO LOCATE UNDERGROUND UTILITIES.
6. SAFETY MEASURES: AT ALL TIMES THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE INCLUDING OF THE PERSONS AND PROPERTY, AND FOR ALL NECESSARY INDEPENDENT ENGINEERING REVIEWS OF THESE CONDITIONS. THE ARCHITECT'S OR ENGINEER'S JOB SITE REVIEW IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES.
7. THESE DRAWINGS ARE TO SHOW STRUCTURAL INFORMATION ONLY. FOR ALL NON-STRUCTURAL INFORMATION AND DETAILS INCLUDING BUT NOT LIMITED TO WATERPROOFING, DRAINAGE, FINISHES, ACCESSIBILITY, FIRE PROTECTION, ETC. REFER TO ARCHITECT'S DRAWINGS.
8. ANY TIME A CUT IS MADE TO A TIMBER, IT SHALL BE TREATED WITH A PAINT-ON PRESERVATIVE.
9. ALL NAILS SHALL BE COMMON OR BOX GALVANIZED. COMMON NAILS ARE RECOMMENDED TO BE USED.
10. ALL SCREWS AND NAILS SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
11. ALL HARDWARE (BOLTS, NUTS, AND WASHERS, JOINT HANGERS, MECHANICAL FASTENERS, HOLD-DOWNS, TIE PLATES CAST-IN-PLACE POST ANCHORS, ETC.) SHALL BE GALVANIZED WITH 1.85 OZ/SF OF ZINC (G-185 COATING) OR SHALL BE STAINLESS STEEL. "ZMAX" FROM SIMPSON STRONG-TIE OR "TRIPLE ZINC" FROM USP ARE ACCEPTABLE.
12. ALL DECKING MATERIAL SHALL BE 2X4 OR 2X6 OR 7/8" BOARDS.
13. DECKING MAY BE PLACED FROM AN ANGLE PERPENDICULAR TO THE JOIST TO AN ANGLE OF 45 DEGREES TO THE JOISTS.
14. DECKING MUST HAVE A SPAN LENGTH SUCH THAT EACH BOARD BEARS ON A MINIMUM TWO JOISTS.
15. THE BOTTOM OF ALL FOOTINGS FOR DECKS ARE TO BE PLACED 18" BELOW THE SURFACE OF THE FINISHED GRADE AND MUST BEAR ON FIRM, UNDISTURBED BEDROCK.
16. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE CONSTRUCTION.

REFERENCE DESIGN CODES:

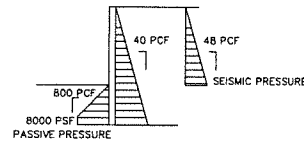
1. "PERSPECTIVE RESIDENTIAL WOOD DECK CONSTRUCTION GUIDE - BASED ON THE 2009 INTERNATIONAL RESIDENTIAL CODE" BY AMERICAN FOREST&PAPER ASSOCIATION, INC. 2010 EDITION.
2. "ASD/LRFD MANUAL FOR ENGINEERING WOOD CONSTRUCTION" BY AMERICAN WOOD COUNCIL, 2012 EDITION.
3. NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION WITH COMMENTARY, 2012 EDITION.

REFERENCE DOCUMENTS:

1. GEO-TECHNICAL REPORT PREPARED BY GEDENGINEERING, INC. DATED MARCH 28, 2005.
2. TOPOGRAPHIC SURVEY PLAN PREPARED BY LAWRENCE P. DOYLE, DATED JUNE 18, 2009 (REVISED)

DESIGN LOADS:

- |                                     |      |        |
|-------------------------------------|------|--------|
| 1. DEAD LOADS:                      | 10   | PSF    |
| 2. LIVE LOADS:                      | 60   | PSF    |
| 3. ACTIVE EARTH PRESSURE:           | 40   | PSF/FT |
| 4. ULTIMATE PASSIVE EARTH PRESSURE: | 800  | PSF/FT |
| 5. SEISMIC PRESSURE:                | 48   | PSF/FT |
| 6. FOS FOR STATIC LOADING:          | 1.5  |        |
| 7. FOS W/ SEISMIC LOADING:          | 1.1  |        |
| 8. ALLOWABLE BEARING CAPACITY:      | 1500 | PSF    |



SPECIAL INSPECTIONS:

1. CONTRACTOR TO COORDINATE WITH TESTING AGENCY, TESTS AND INSPECTIONS FOR ALL ITEMS AS REQUIRED BY THE CALIFORNIA BUILDING CODE 2016 EDITION, SECTIONS 1704/1705 AND THE SAN FRANCISCO BUILDING CODE 2016 EDITION, SECTIONS 1704/1705 WHERE APPLICABLE.
2. THE OWNER SHALL BE RESPONSIBLE FOR RETAINING AN INDEPENDENT TESTING AGENCY TO PERFORM ALL REQUIRED TESTING AND INSPECTIONS. THE TESTING AGENCY SHALL MEET THE REQUIREMENTS OF SECTION 1703.1
3. STRUCTURAL OBSERVATION SITE VISITS BY STRUCTICA, INC. ARE NOT A SUBSTITUTE FOR SPECIAL INSPECTIONS. ALL SPECIAL INSPECTIONS ARE TO BE PERFORMED BY THE PROJECT SPECIAL INSPECTOR.
4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND TESTING AGENCY A MINIMUM OF 24 HOURS PRIOR TO TIME OF INSPECTION
5. CONTINUOUS SPECIAL INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON SITE AT ALL TIMES OBSERVING THE WORK REQUIRING SPECIAL INSPECTION.
6. PERIODIC SPECIAL INSPECTION SOME INSPECTIONS MAY BE MADE ON A PERIODIC BASIS AS DEFINED IN THE IN GENERAL THIS MEANS THAT THE SPECIAL INSPECTOR MUST VERIFY THE MATERIALS, SET UP AND QUALIFICATIONS OF THE CONTRACTOR PRIOR TO THE START OF WORK MAKE PERIODIC INSPECTIONS DURING THE WORK AND A FINAL INSPECTION AFTER COMPLETION OF THE WORK.

MATERIAL:

1. SOLDIER PILE:
  - 1.1. ALL WIDE FLANGES STEEL ARE TO BE MINIMUM ASTM A50 OR BETTER.
  - 1.2. ALL SOLDIER BEAMS ARE TO BE PAINTED AT LEAST TO 3 FT BELOW BOTTOM OF WALL WITH TWO COMPONENT CHEMICALLY CURE BITUMASTIC 300M COAL TAR EPOXY PROTECTIVE COATING WITH MINIMUM APPLIED THICKNESS OF 16-20 MILS PER MANUFACTURER'S SPECIFICATIONS WHERE DRILLED HOLE ABOVE BOTTOM OF EXCAVATION IS FILLED WITH LEAN MIX CONCRETE.
2. LUMBER:
  - 2.1. ALL LUMBER SHALL BE DOUGLAS-FIR GRADE 2 OR BETTER.
  - 2.2. LUMBERS SHALL BE PRESSURE TREATED TO RESIST INSECT AND DRY ROT IN ACCORDANCE WITH AMERICAN WOOD PRESERVERS'S ASSOCIATION STANDARDS.
  - 2.3. THE LEVEL OF TREATMENT DEPENDS ON THE USE AS FOLLOWS:
    - 2.3.1. DECKING MATERIAL, RAILINGS, JOIST, AND BEAMS MUST BE TREATED TO A CATEGORY UC3B.
    - 2.3.2. POSTS AND OTHER WOODS LOCATED ON, IN, OR IN CONTACT WITH THE GROUND MUST BE A CATEGORY UC4B.
    - 2.3.3. ANY WOODS LESS THAN SIX INCHES ABOVE THE GROUND OR IN CONTACT WITH CONCRETE MUST BE A CATEGORY UC4A.
3. DRILLED SHAFTS:
  - 3.1. SHAFTS ARE TO BE MACHINE DRILLED.
  - 3.2. PROVIDE PROTECTION AGAINST SLOUGHING OR CAVING AS REQUIRED.
  - 3.3. DRILLED HOLES SHALL NOT BE LEFT OPEN OVER-NIGHT.
  - 3.4. ALL WATER SHOULD BE REMOVED FROM THE SHAFT PRIOR TO FILLING WITH CONCRETE, IF POSSIBLE, ALL IF ALL WATER CANNOT BE REMOVED BY PUMPING, CONCRETE SHALL BE CAREFULLY PUMPED INTO THE CIDH PILE SHAFT FROM THE BOTTOM UP THROUGH A RIGID PIPE AND DESIGN STRENGTH OF CONCRETE SHALL BE INCREASED BY 1000 PSI.
  - 3.5. PROVIDE 3 INCHES MINIMUM CONCRETE COVER OVER ALL STEEL SURFACES.
  - 3.6. DRILL HOLE CIDH PILES ARE TO BE FILLED WITH STRUCTURAL CONCRETE WITH MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.

LUMBER:

1. ALL LUMBER SHALL BE DOUGLAS-FIR GRADE 2 OR BETTER.
2. LUMBERS SHALL BE PRESSURE TREATED TO RESIST INSECT AND DRY ROT IN ACCORDANCE WITH AMERICAN WOOD PRESERVERS'S ASSOCIATION STANDARDS.
3. THE LEVEL OF TREATMENT DEPENDS ON THE USE AS FOLLOWS:
  - 3.1. DECKING MATERIAL, RAILINGS, JOIST, AND BEAMS MUST BE TREATED TO A CATEGORY UC3B.
  - 3.2. POSTS AND OTHER WOODS LOCATED ON, IN, OR IN CONTACT WITH THE GROUND MUST BE A CATEGORY UC4B.
  - 3.3. ANY WOODS LESS THAN SIX INCHES ABOVE THE GROUND OR IN CONTACT WITH CONCRETE MUST BE A CATEGORY UC4A.

CONNECTIONS:

1. ALL CONNECTIONS AND CORRESPONDING MATERIALS ARE SELECTED FROM SIMPSON STRONG-TIE WHICH SHOULD BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

REINFORCING STEEL:

1. ASTM A615 GR. 60
2. LAP SPLICES: 40#Db

ANGLE IRONS:

1. A36-Fy = 36 KSI

INDEX:

- |           |                 |
|-----------|-----------------|
| NOTES     | SH-1.0          |
| PLANS     | SH-2.0 THRU 2.3 |
| ELEVATION | SH-3.0          |
| DETAILS   | SH-4.0 THRU 4.2 |

APPROXIMATE EXCAVATION/FILL AND OFF HAUL AMOUNTS:

EXCAVATION: 45 CY  
FILL: 45 CY

SOLDIER PILE SCHEDULE:

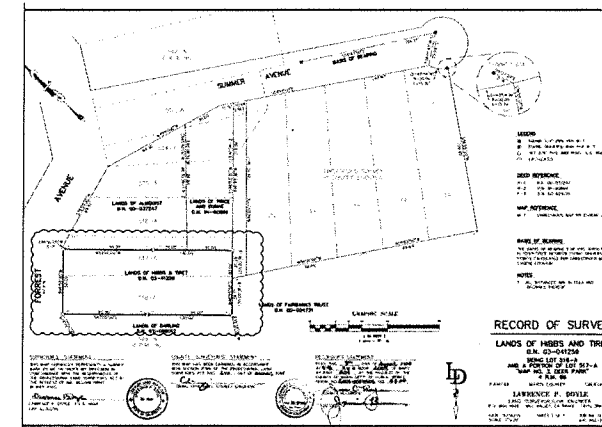
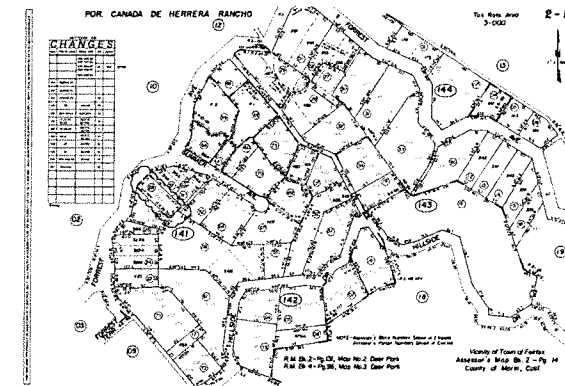
NO.	SHAPE	EMBEDMENT DEPTH (FT)
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2	W21X93	15
3	W21X73	14
4	W21X73	14
5	W21X73	14
6	W21X73	14
7	W21X73	14
8	W21X73	14
9	W21X73	14
10	W21X73	14
11	W21X73	14
12	W21X73	14
13	W21X73	14

TIMBER LAGGING SCHEDULE BASED ON PILE TO PILE SPACING:

UP TO 5'-0": 3X12  
UP TO 7'-0": 4X12  
UP TO 10'-0": (2)4X12

01 STREET VIEW

SCALE: NTS



02 PARCEL MAP

SCALE: NTS

CONTRACTOR:



DESIGNER:



NOTES

RETAINING WALL & STAIRS

DRAWING TITLE:

335 FOREST AVE.  
FAIRFAX, CA 94930

PROJECT:

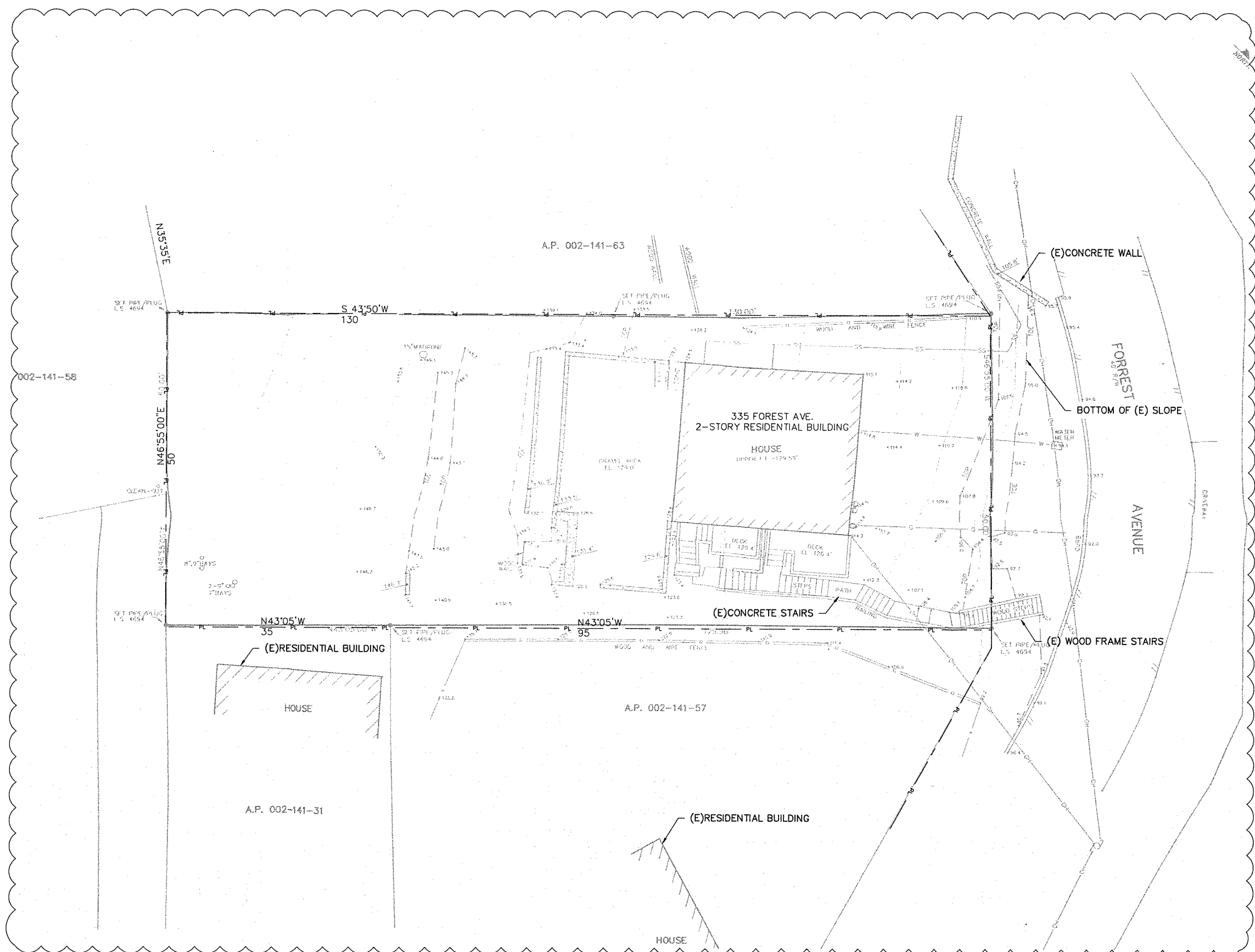
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2	05/18/2021	BH
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JOB NO. :	20140/P2014
DATE :	12/03/2020
DESIGN :	BH
DRAWN :	SZ
CHECKED :	BH
APPROVED :	BH

SHEET:

SH-1.0

3



CONTRACTOR:  
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 40 Paul Dr., SAN RAFAEL, CA 94903  
 (415) 459-2100

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DRAWING TITLE:  
**PLAN VIEWS**  
**RETAINING WALL & STAIRS**

PROJECT:  
**335 FOREST AVE.**  
**FAIRFAX, CA 94930**

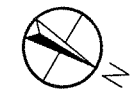
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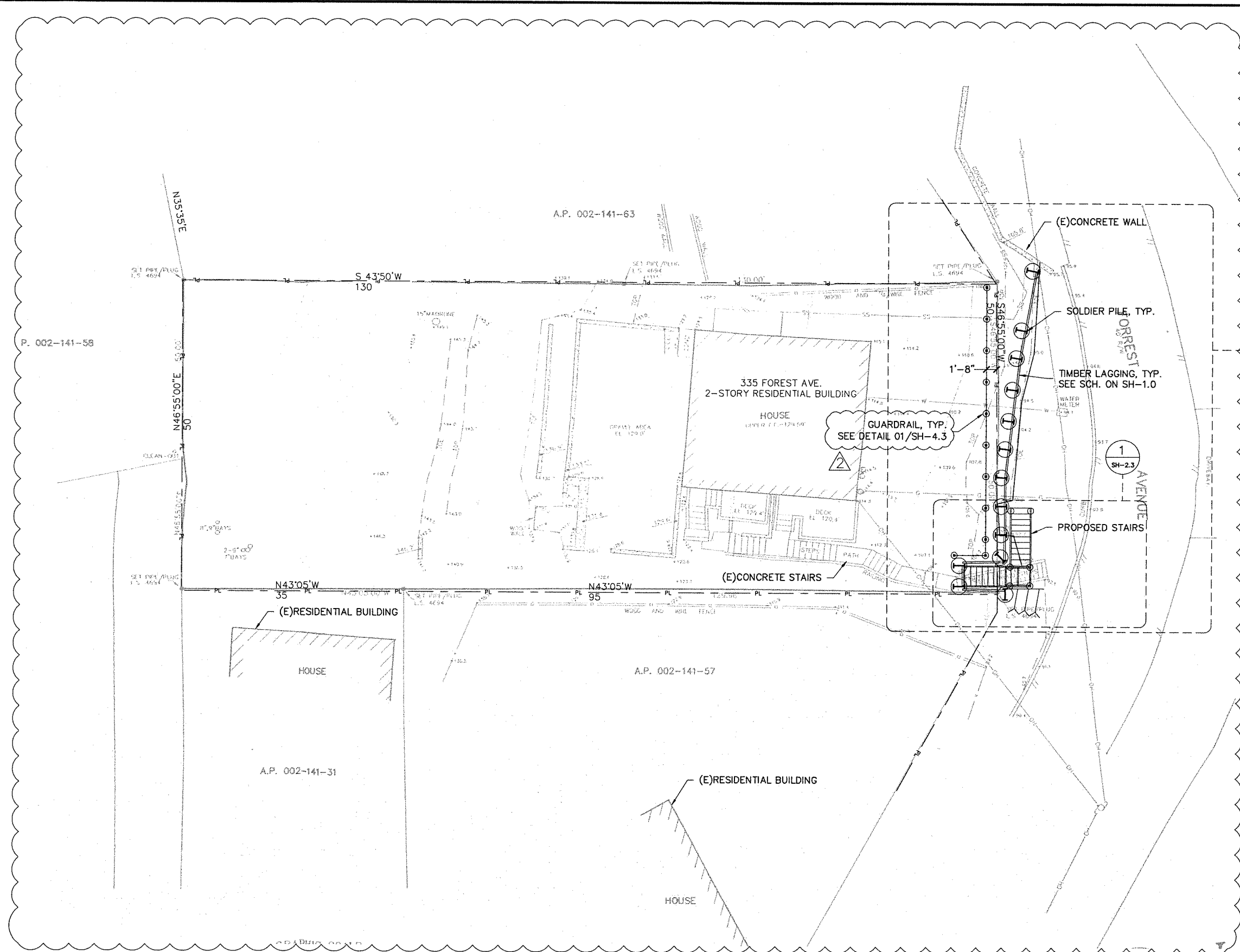
SHEET:  
**SH-2.0**

NOTE:  
 1. NO EASEMENTS ARE KNOWN.  
 2. PROPERTY LINES ARE TO BE MARKED BEFORE START OF CONSTRUCTION.  
 3. ALL PILES ARE TO BE INSTALLED WITHIN PROPERTY OR TOWN RIGHT OF WAY.

01 **PLAN VIEW - EXISTING**  
 SCALE: 1"=1'



1 2 3



CONTRACTOR:  
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PLAN VIEWS  
 RETAINING WALL & STAIRS

PROJECT:  
**335 FOREST AVE.  
 FAIRFAX, CA 94930**

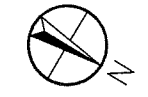
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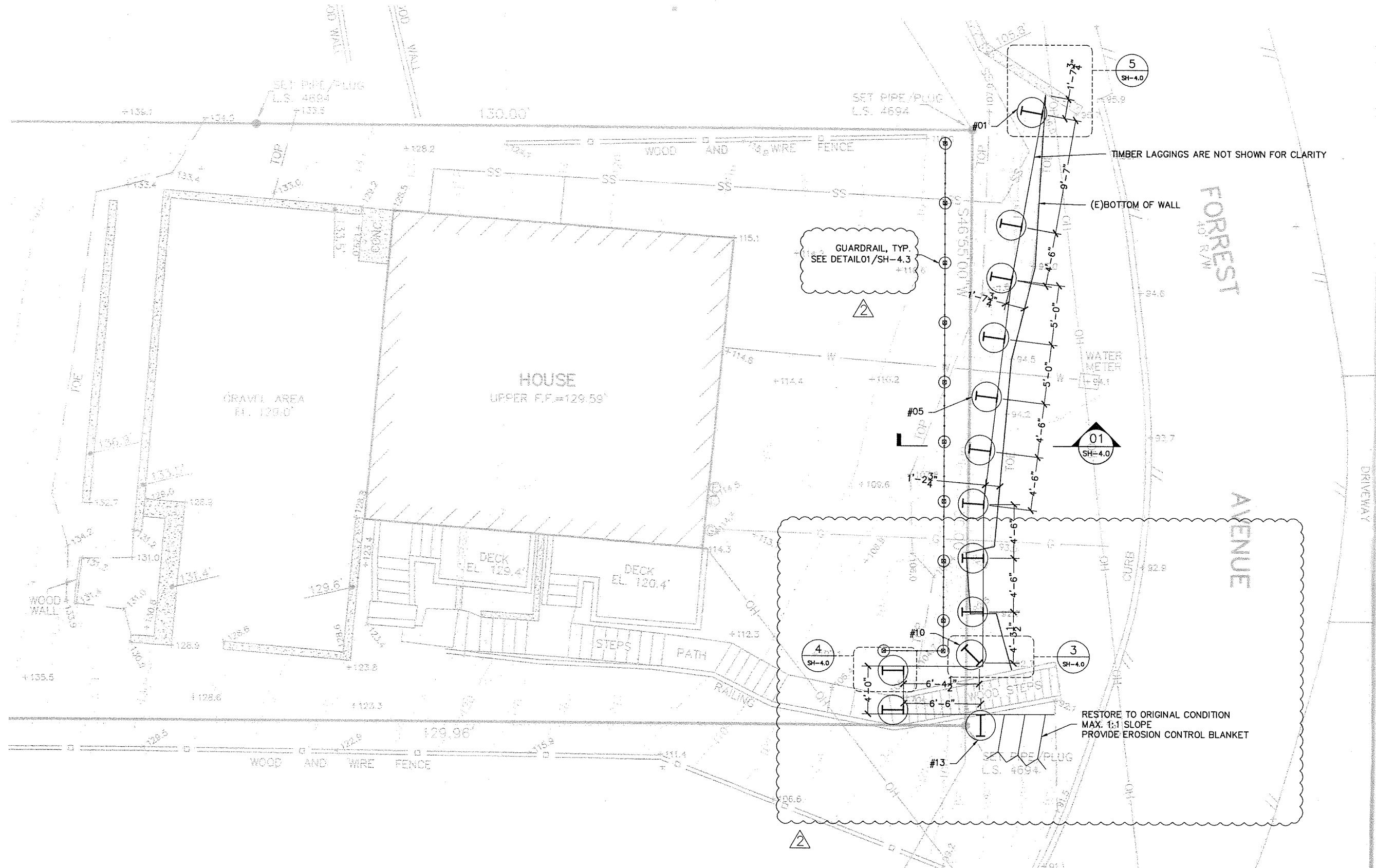
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APPROVED :	BH

SHEET:  
**SH-2.1**

NOTE:  
 1. NO EASEMENTS ARE KNOWN.  
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 3. ALL PILES ARE TO BE INSTALLED WITHIN PROPERTY OR TOWN RIGHT OF WAY.

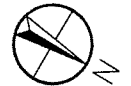
01 PLAN VIEW - PROPOSED  
 SCALE: 1/4" = 1'





NOTE:  
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 3. ALL PILES ARE TO BE INSTALLED WITHIN PROPERTY OR TOWN RIGHT OF WAY.

01 PROPOSED RETAINING WALL  
 SCALE: 1/2"=1'



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PLAN VIEWS  
 RETAINING WALL & STAIRS

335 FOREST AVE.  
 FAIRFAX, CA 94930

REVISIONS

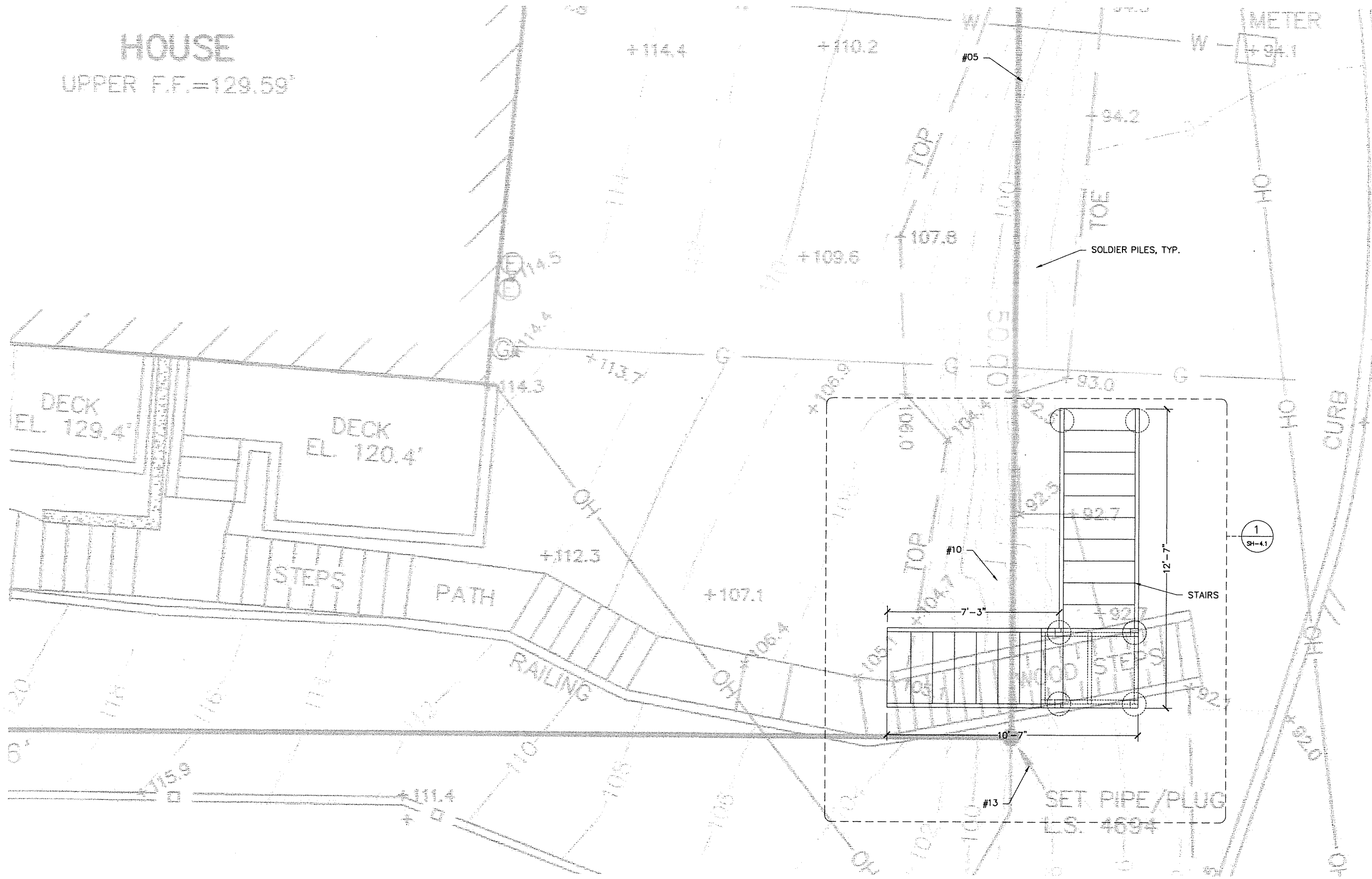
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DATE :	12/03/2020
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APPROVED :	BH

SHEET:  
 SH-2.2

HOUSE  
UPPER F.F. = 129.59'



NOTE:  
1. NO EASEMENTS ARE KNOWN.  
2. PROPERTY LINES ARE TO BE MARKED BEFORE START OF CONSTRUCTION.  
3. ALL PILES ARE TO BE INSTALLED WITHIN PROPERTY OR TOWN RIGHT OF WAY.

01 PROPOSED STAIRS  
SCALE: 3/8"=1'

CONTRACTOR:  
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DESIGNER:  
**STRUCTICA, inc.**  
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PROFESSIONAL SEAL  
CE 8614  
STATE OF CALIFORNIA

DRAWING TITLE: PLAN VIEWS  
RETAINING WALL & STAIRS

PROJECT: 335 FOREST AVE., FAIRFAX, CA 94930

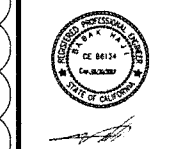
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DATE : 12/03/2020  
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DRAWN : SZ  
CHECKED : BH  
APPROVED : BH

SHEET: SH-2.3

CONTRACTOR:  
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ELEVATIONS  
 RETAINING WALL & STAIRS

335 FOREST AVE.  
 FAIRFAX, CA 94930

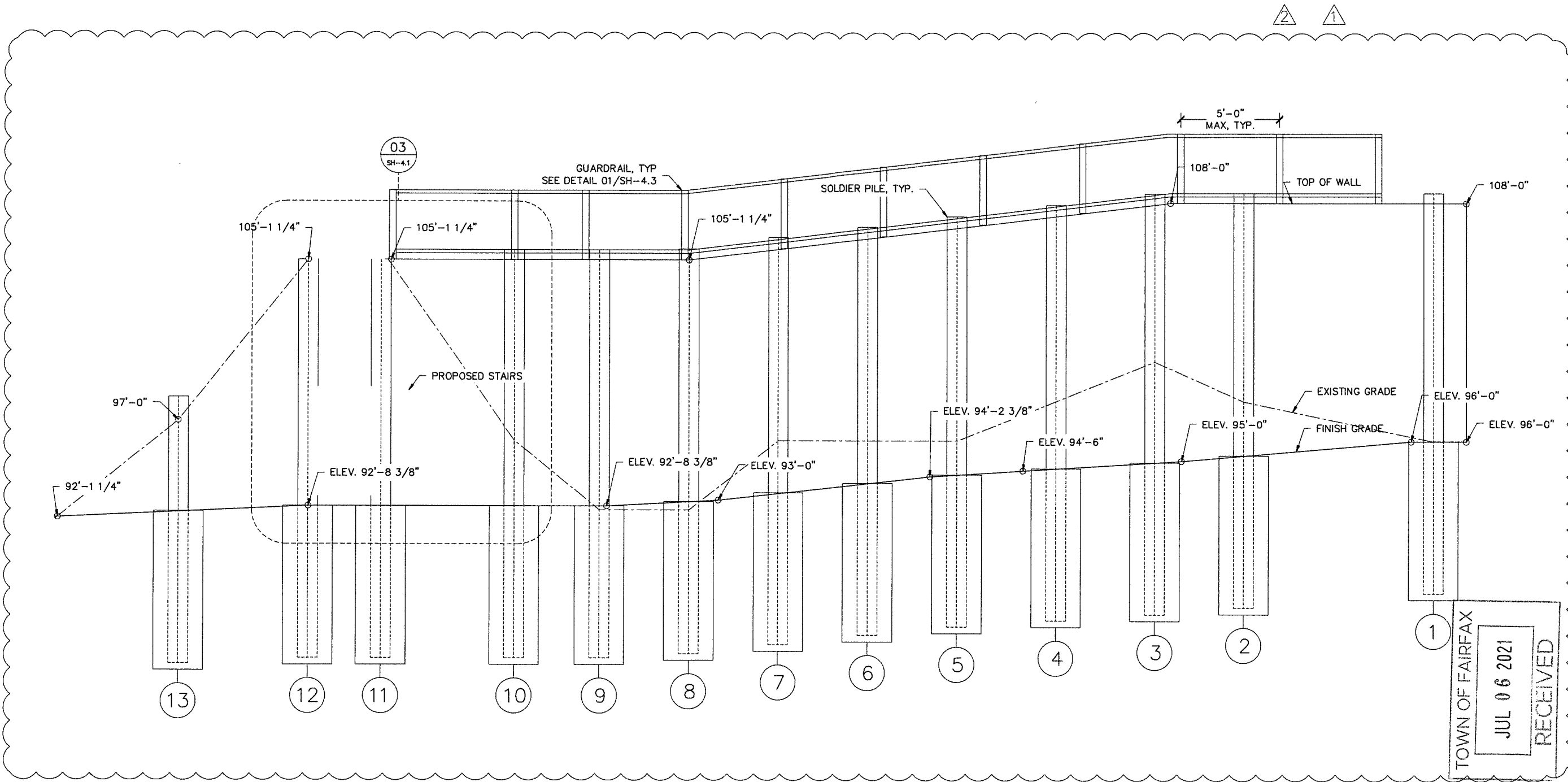
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2	05/18/2021	BH

REVIEW SET

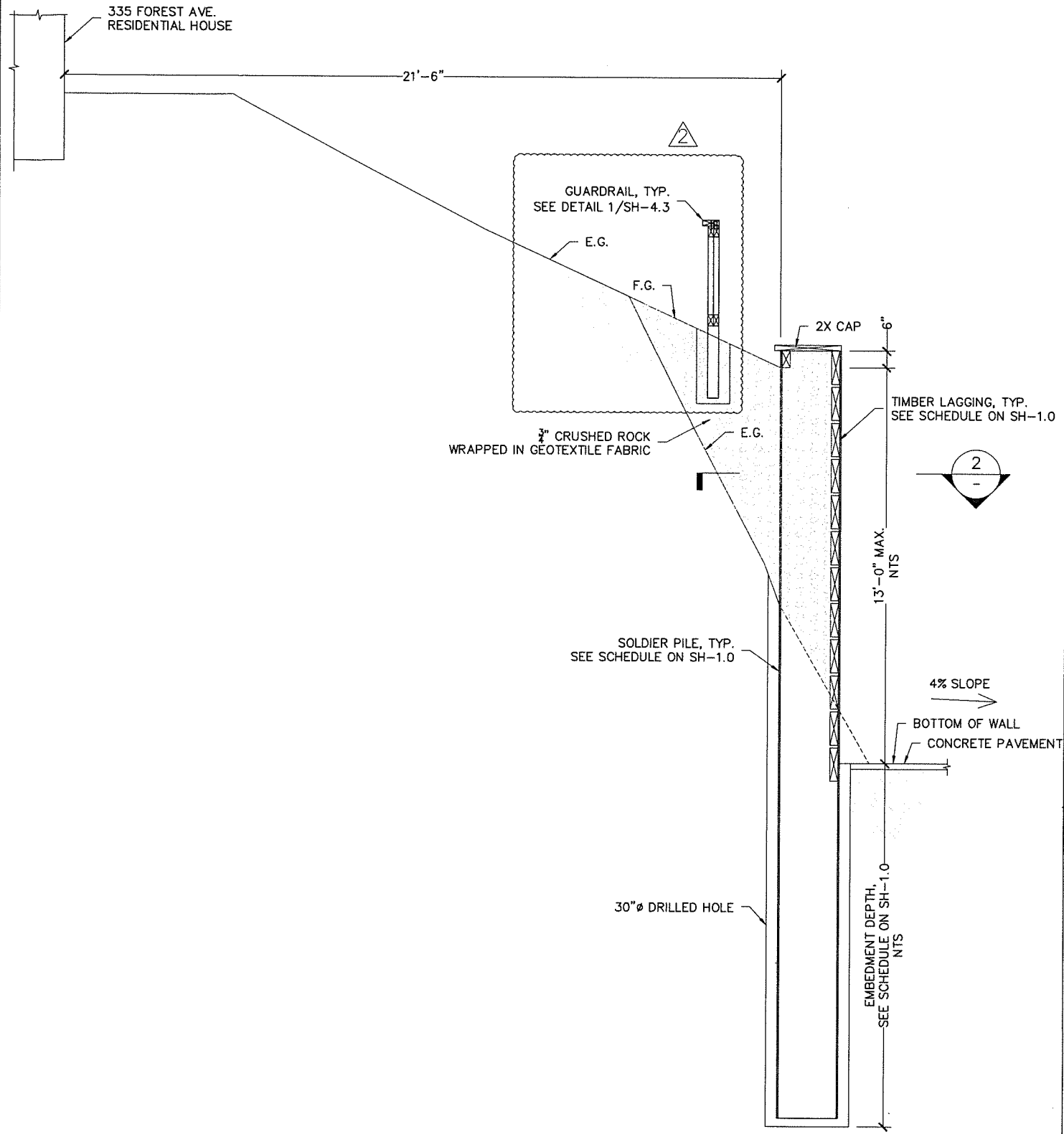
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SH-3.0

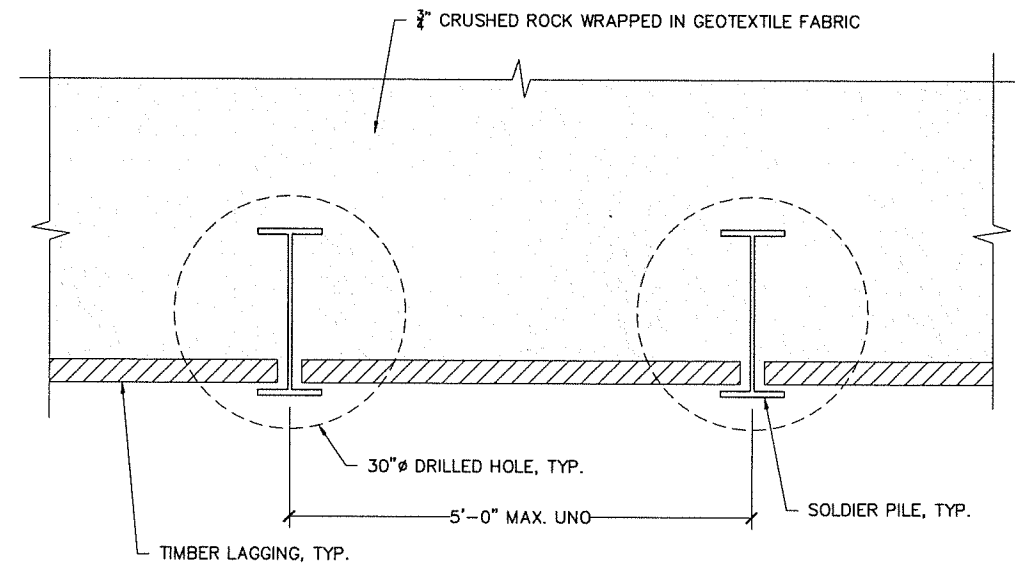


NOTE:  
 DIMENSIONS TO BE VERIFIED IN FIELD.  
 LAGGINGS ARE NOT SHOWN FOR CLARITY.

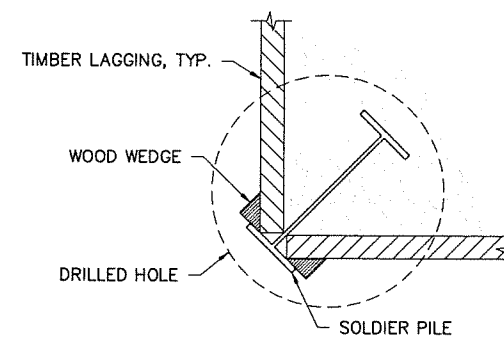
01 ELEVATION- PROPOSED  
 SCALE: 3/8"=1'



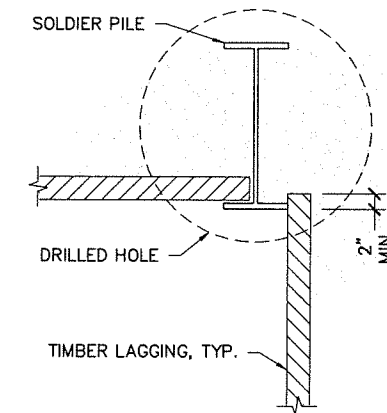
01 RETAINING WALL SECTION  
SCALE: 1/2"=1'



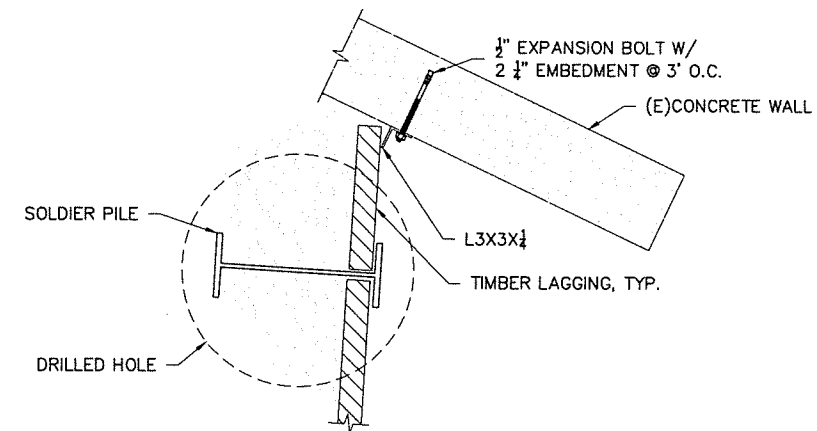
02 SOLDIER PILE DETAIL  
SCALE: 1"=1'



03 CORNER DETAIL  
SCALE: 1"=1'



04 CORNER DETAIL  
SCALE: 1"=1'



05 END DETAIL  
SCALE: 1"=1'

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DETAILS  
RETAINING WALL & STAIRS

335 FOREST AVE.  
FAIRFAX, CA 94930

REVISIONS

NO	DATE	BY
2	05/16/2021	BH

REVIEW SET

JOB NO. :	20140/P2014
DATE :	12/03/2020
DESIGN :	BH
DRAWN :	SZ
CHECKED :	BH
APPROVED :	BH

SH-4.0



CONTRACTOR:  
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DRAWING TITLE  
**DETAILS**  
**RETAINING WALL & STAIRS**

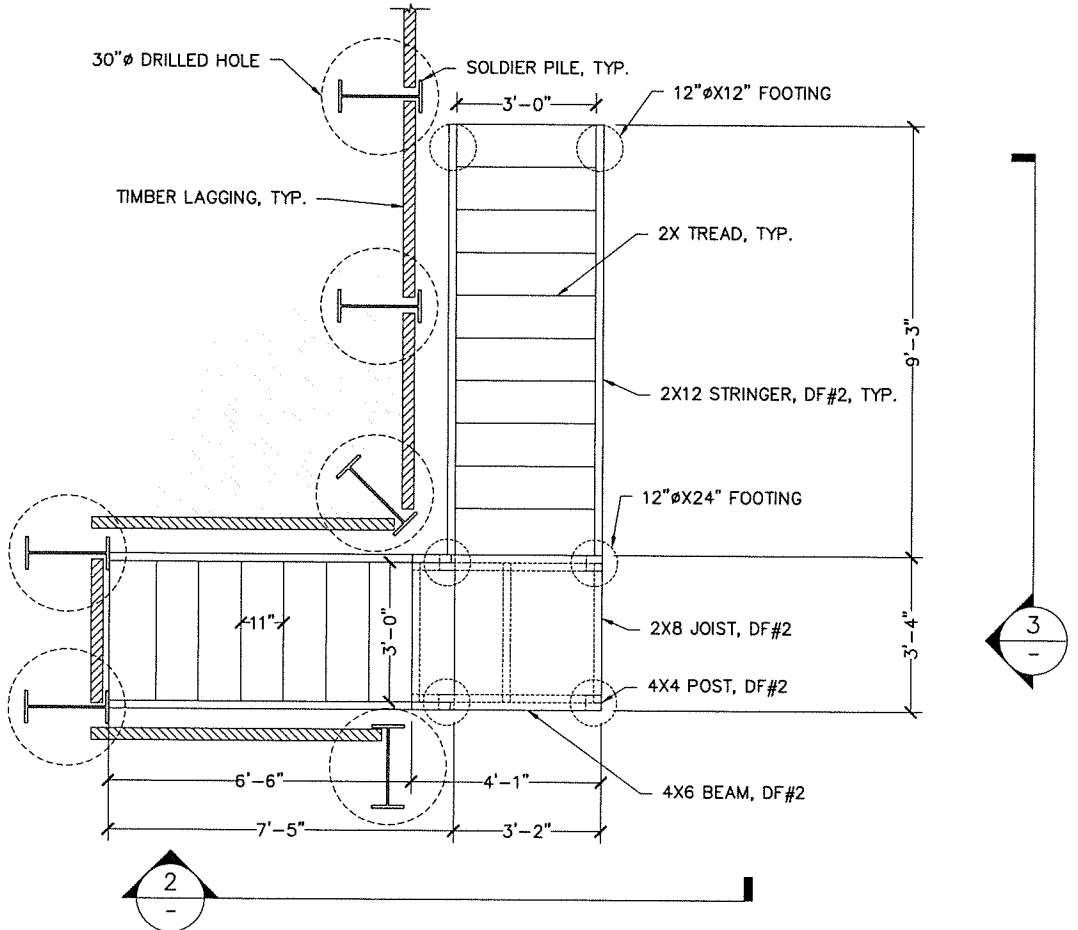
PROJECT:  
**335 FOREST AVE.**  
**FAIRFAX, CA 94930**

REVISIONS		
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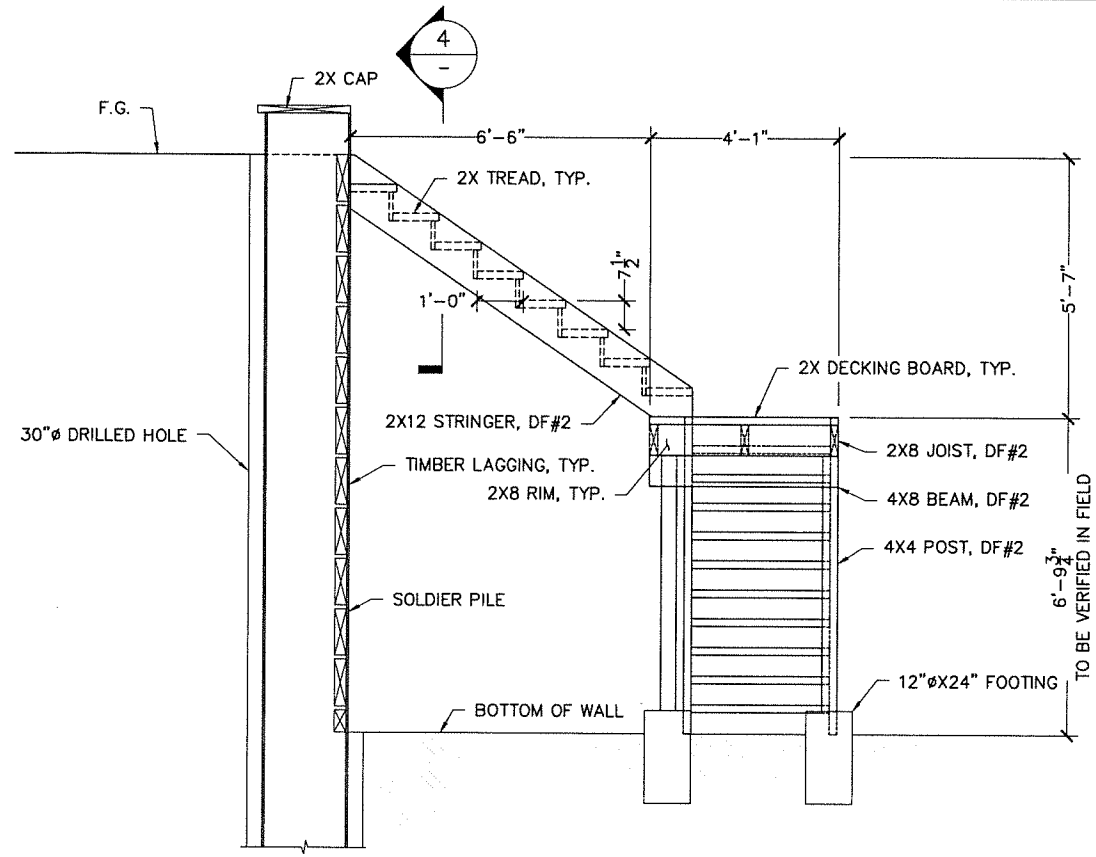
  

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APPROVED :	BH	

SHEET:  
**SH-4.1**

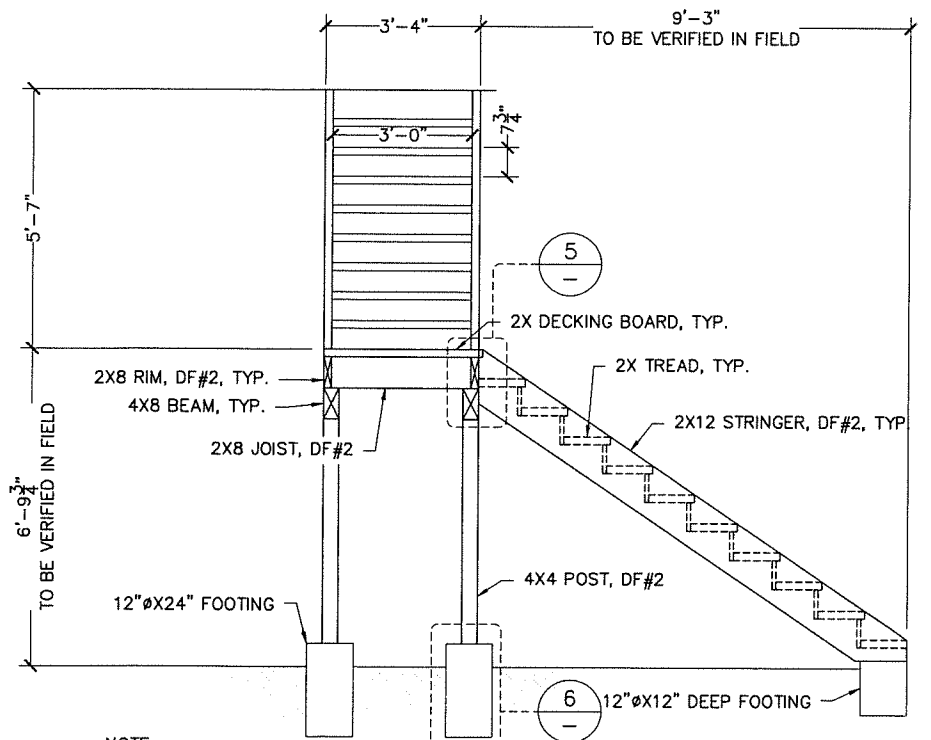


**01 PARTIAL PLAN-STAIRS**  
 SCALE: 1/2"=1'



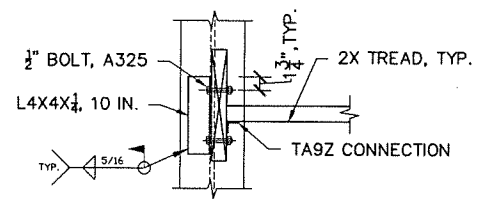
NOTE:  
 SOLDIER PILES BEHIND THE STAIRS ARE NOT SHOWN FOR CLARITY

**02 ELEVATION VIEW-STAIRS**  
 SCALE: 1/2"=1'

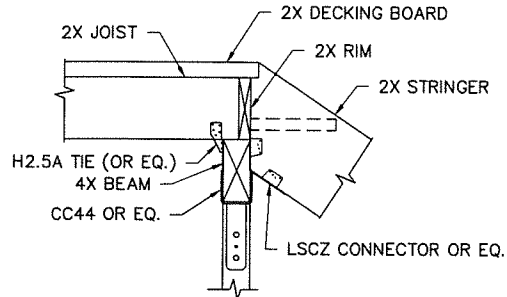


NOTE:  
 SOLDIER PILES BEHIND THE STAIRS ARE NOT SHOWN FOR CLARITY

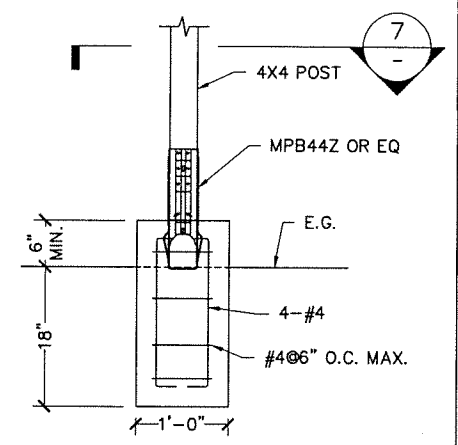
**03 ELEVATION VIEW-STAIRS**  
 SCALE: 1/2"=1'



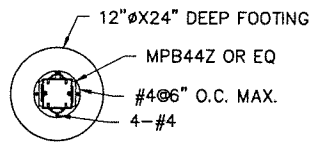
**04 STRINGER TO BEAM CONNECTION**  
 SCALE: 1"=1'



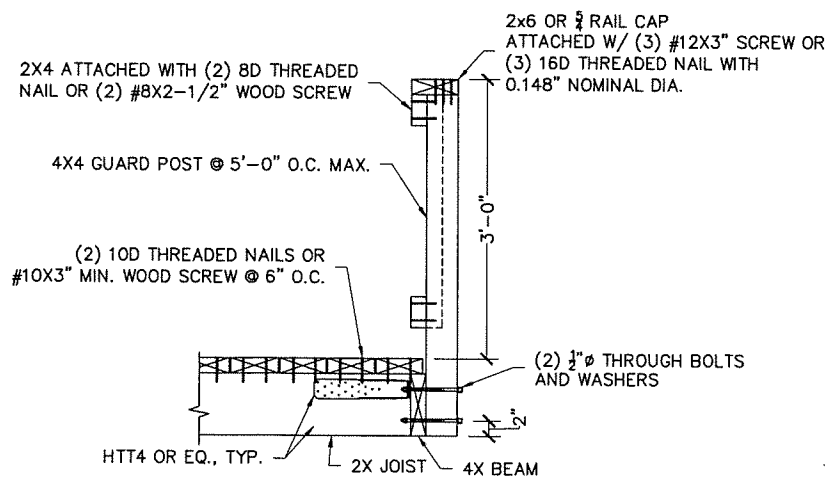
**05 CONNECTION DETAIL**  
 SCALE: 1"=1'



**06 FOOTING DETAIL**  
 SCALE: 1"=1'

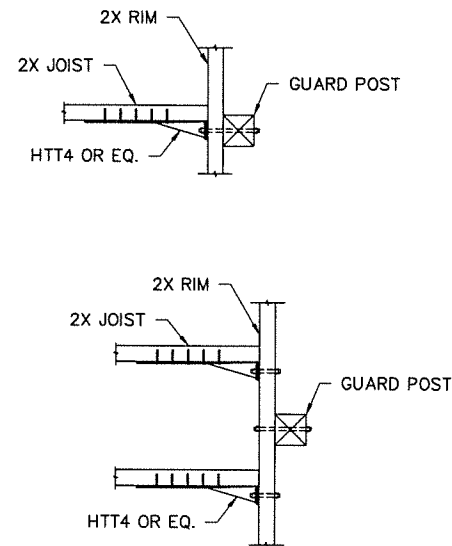


**07 FOOTING DETAIL**  
 SCALE: 1"=1'



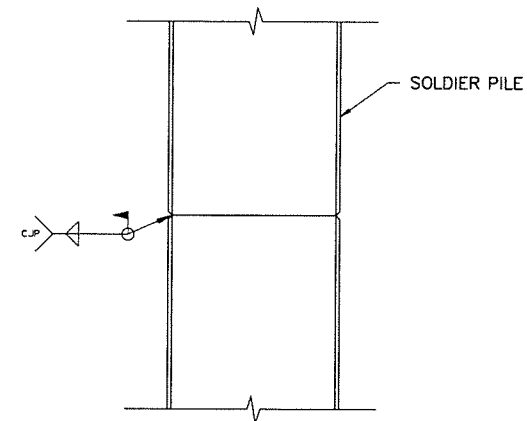
01 GUARDRAIL TO JOIST

SCALE: 1"=1'



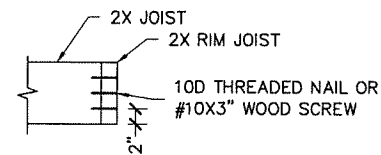
02 GUARDRAIL TO JOIST

SCALE: 1"=1'



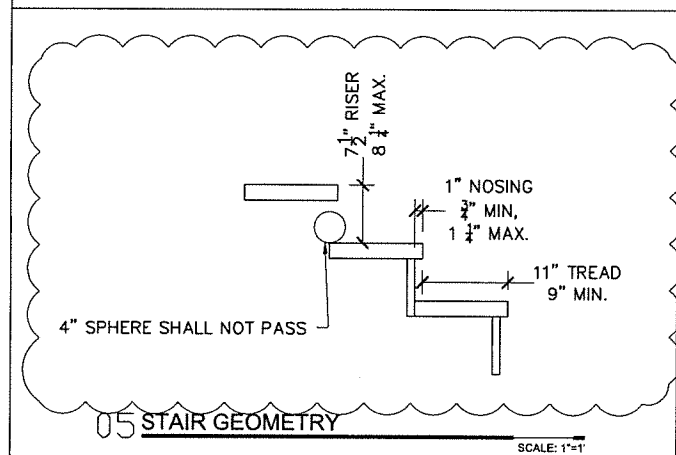
03 SPLICE DETAIL

SCALE: 1/2"=1'



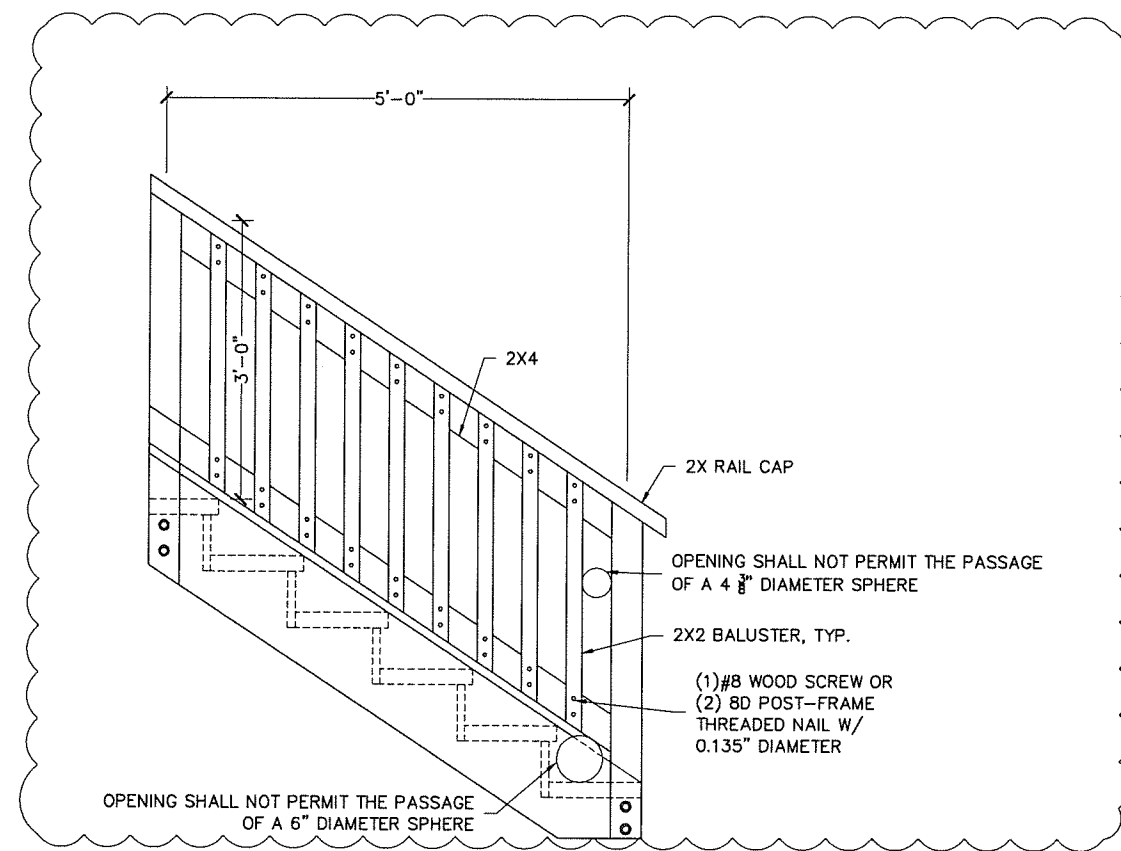
04 RIM TO JOIST

SCALE: 1"=1'



05 STAIR GEOMETRY

SCALE: 1"=1'



06 STAIR GAIRD

SCALE: 1"=1'

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DETAILS  
RETAINING WALL & STAIRS

PROJECT:  
**335 FOREST AVE.  
FAIRFAX, CA 94930**

REVISIONS

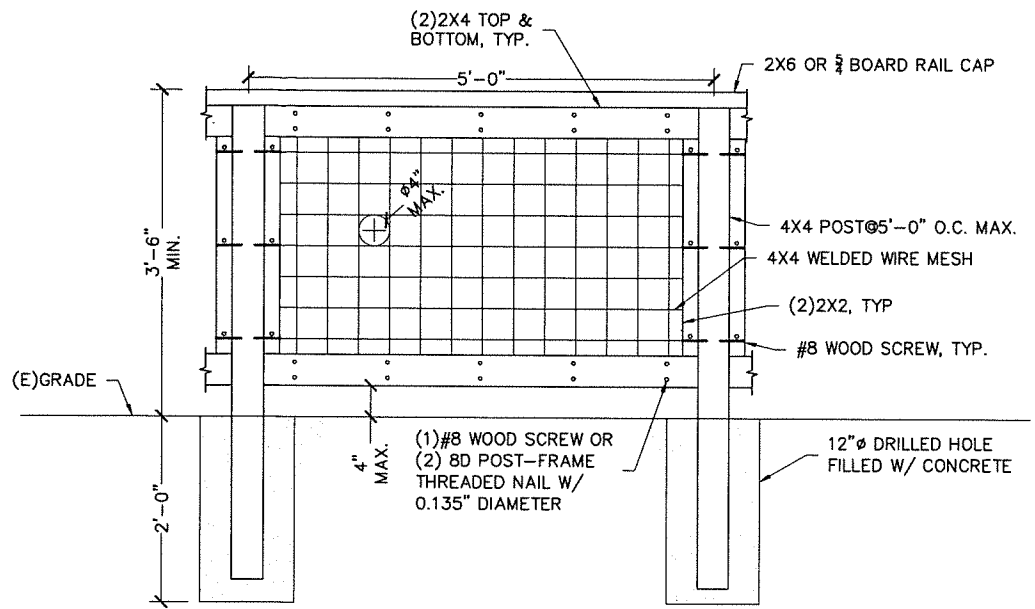
NO	DATE	BY
1	02/08/2021	BH

REVIEW SET

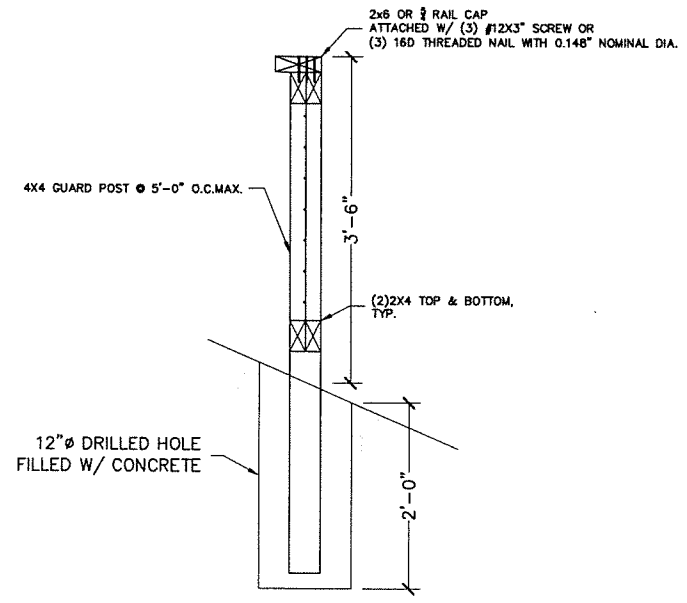
JOB NO. :	20140/P2014
DATE :	12/03/2020
DESIGN :	BH
DRAWN :	SZ
CHECKED :	BH
APPROVED :	BH

SHEET:

SH-4.2



01 GUARDRAIL DETAIL  
SCALE: 1"=1'



02 GUARDRAIL SECTION  
SCALE: 1"=1'

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DETAILS  
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REVISIONS		
NO	DATE	BY
2	05/16/2021	BH

REVIEW SET	
JOB NO. :	20140/P2014
DATE :	12/03/2020
DESIGN :	BH
DRAWN :	SZ
CHECKED :	BH
APPROVED :	BH

SHEET:  
SH-4.3