

1x4  
TRIM

UNIT  
3126'S  
FRONT  
DOOR

T1-11  
4" O/C

HALLWAY

REPAIR DRYROT  
UNDER THE DECK  
& UNIT 3126'S  
DOOR ON FND  
WALL

REPLC  
R-15

STUDS  
AS  
NEEDED

2X10 Rim JOIST REPLACED  
WHERE DRYROTTED

SCALE  
1/4" = 3"

T1-11, 4" O/C. 1" OVER  
MUDSILL MIN. NAILED  
W/ GALV BD 6 & 12" O/C

PLATEE &  
STUDS  
REPLACED  
AS NEEDED

4'-6"

AREA OF  
DRY ROT  
DAMAGE

City of Portland  
REVIEWED FOR CODE  
COMPLIANCE

DEC 14 2012

Permit Number

2X PT REPLACED

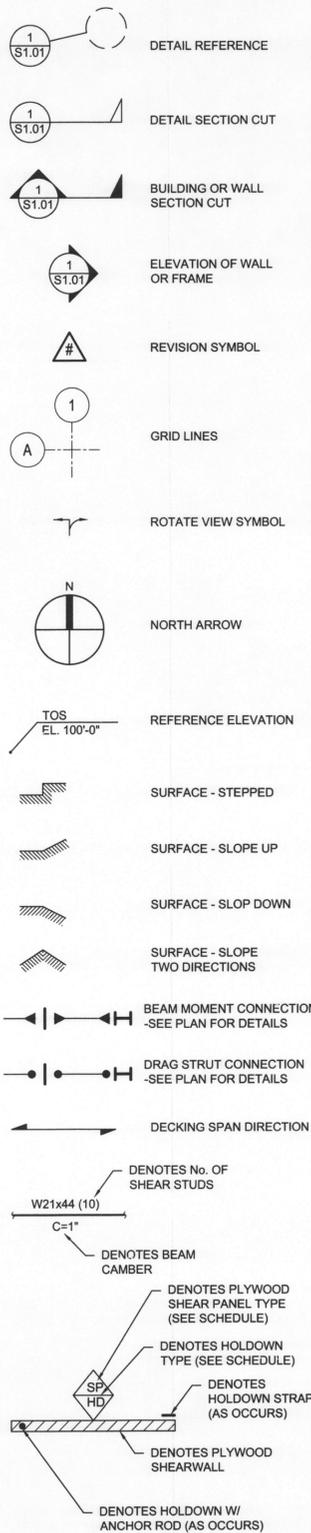
FOAM ADDED

EXIST. FOUNDATION

**STRUCTURAL ABBREVIATIONS**

- AB ANCHOR BOLT
- ADDL ADDITIONAL
- AFF ABOVE FINISH FLOOR
- ALT ALTER
- ARCH ARCHITECTURAL
- ATR ALL THREADED ROD
- BLDG BUILDING
- BLKG BLOCKING
- BM BEAM
- BN BOUNDARY NAIL
- BOF BOTTOM OF FOOTING
- BOT BOTTOM
- BRNG BEARING
- BSMT BASEMENT
- BETWN BETWEEN
- C CAMBER
- CIP CAST IN PLACE
- CJ CONTROL OR CONSTRUCTION JOINT
- CJP COMPLETE JOINT PENETRATION
- CL CENTERLINE
- CLG CEILING
- CLR CLEAR
- CMU CONCRETE MASONRY UNIT
- COL COLUMN
- CONC CONCRETE
- CONN CONNECTION
- CONST CONSTRUCTION
- CONT CONTINUOUS
- DBA DEFORMED BAR ANCHOR
- DBL DOUBLE
- DFL DOUGLAS FIR-LARCH
- DIA DIAMETER
- DIAG DIAGONAL
- DIST DISTANCE
- DL DEAD LOAD
- DN DOWN
- DTL DETAIL
- DWG DRAWING
- (E) EXISTING
- EA EACH
- EF EACH FACE
- EL ELEVATION
- EN EDGE NAIL
- EOR ENGINEER OF RECORD
- EQ EQUAL
- EW EACH WAY
- EXT EXTERIOR
- FF FINISH FLOOR
- FN FIELD NAIL
- FLR FLOOR
- FDN FOUNDATION
- FT FEET
- FTG FOOTING
- GA GAUGE
- GALV GALVANIZED
- GLB GLUE LAMINATED BEAM
- GWB GYPSUM WALL BOARD
- HGD HOT-DIP GALVANIZED
- HDR HEADER
- HF HEAM-FIR
- HT HEIGHT
- HORIZ HORIZONTAL
- HSA HEADED STUD ANCHOR
- HSS HOLLOW STRUCTURAL SECTION
- ID INSIDE DIAMETER
- IN INCH
- INT INTERIOR
- JST JOIST
- JT JOINT
- K KIPS
- KSI KIPS PER SQUARE INCH
- L ANGLE
- LLH LONG LEG HORIZONTAL
- LLV LONG LEG VERTICAL
- LONG LONGITUDINAL
- LVL LAMINATED VENEER LUMBER
- LWC LIGHT WEIGHT CONCRETE
- MAX MAXIMUM
- MIN MINIMUM
- MIR MIRROR
- NIC NOT IN CONTRACT
- NOM NOMINAL
- NTE NOT TO EXCEED
- NTS NOT TO SCALE
- (N) NEW
- OC ON CENTER
- OD OUTSIDE DIAMETER
- OPP OPPOSITE
- OWJ OPEN WEB JOIST
- PAF POWDER ACTUATED FASTENER
- PERP PERPENDICULAR
- PJP PARTIAL JOINT PENETRATION
- PL PLATE
- PSI POUNDS PER SQUARE INCH
- PSF POUNDS PER SQUARE FOOT
- PT PRESSURE TREATED
- QTY QUANTITY
- RAD RADIUS
- REF REFERENCE
- REINF REINFORCING
- REQD REQUIRED
- REV REVISED, REVISION
- SC SLIP CRITICAL
- SHT SHEET
- SHTG SHEATHING
- SIM SIMILAR
- SMS SHEET METAL SCREW
- SOG SLAB ON GRADE
- SQ SQUARE
- SS STAINLESS STEEL
- STD STANDARD
- STL STEEL
- SQ SQUARE
- T&B TOP AND BOTTOM
- T&G TONGUE AND GROVE
- TOC TOP OF CONCRETE
- TOS TOP OF STEEL
- TOF TOP OF FOOTING
- TOW TOP OF WALL
- TYP TYPICAL
- UNO UNLESS NOTED OTHERWISE
- VERT VERTICAL
- W/ WITH
- W/O WITHOUT
- WF WIDE FLANGE
- WP WORK POINT
- WWR WELDED WIRE REINFORCING

**STRUCTURAL DRAWING SYMBOLS**



**STRUCTURAL NOTES:**

**GENERAL**  
 THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION AND CORRELATION OF ALL ITEMS AND WORK NECESSARY FOR COMPLETION OF THE PROJECT AS INDICATED BY THE CONTRACT DOCUMENTS. SHOULD ANY QUESTION ARISE REGARDING THE CONTRACT DOCUMENTS OR SITE CONDITIONS, THE CONTRACTOR SHALL REQUEST INTERPRETATION AND CLARIFICATION FROM THE ENGINEER BEFORE BEGINNING THE PROJECT. THE ABSENCE OF SUCH REQUEST SHALL SIGNIFY THAT THE CONTRACTOR HAS REVIEWED AND FAMILIARIZED HIMSELF WITH ALL ASPECTS OF THE PROJECT AND HAS COMPLETE COMPREHENSION THEREOF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMANCE TO ALL SAFETY REGULATIONS DURING CONSTRUCTION.

THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE SPECIFICALLY NOTED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION OR CONSTRUCTION LOADS. ONLY THE CONTRACTOR SHALL PROVIDE ALL METHODS, DIRECTION AND RELATED EQUIPMENT NECESSARY TO PROTECT THE STRUCTURE, WORKMEN AND OTHER PERSONS AND PROPERTY DURING CONSTRUCTION. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, ENGAGE PROPERLY QUALIFIED PERSONS TO DETERMINE WHERE AND HOW TEMPORARY PRECAUTIONARY MEASURES SHALL BE USED AND INSPECT SAME IN THE FIELD. ANY MATERIAL NOT AS SPECIFIED OR IMPROPER MATERIAL INSTALLATION OR WORKMANSHIP SHALL BE REMOVED AND REPLACED WITH SPECIFIED MATERIAL IN A WORKMANLIKE MANNER AT THE CONTRACTOR'S EXPENSE.

THESE PLANS, SPECIFICATIONS, ENGINEERING AND DESIGN WORK ARE INTENDED SOLELY FOR THE PROJECT SPECIFIED HEREIN. MILLER CONSULTING ENGINEERS DISCLAIMS ALL LIABILITY IF THESE PLANS AND SPECIFICATIONS OR THE DESIGN, ADVICE AND INSTRUCTIONS ATTENDANT THERETO ARE USED ON ANY PROJECT OR AT ANY LOCATION OTHER THAN THE PROJECT AND LOCATION SPECIFIED HEREIN. OBSERVATION VISITS TO THE JOB SITE AND SPECIAL INSPECTIONS ARE NOT PART OF THE STRUCTURAL ENGINEER'S RESPONSIBILITY UNLESS THE CONTRACT DOCUMENTS SPECIFY OTHERWISE.

NON STRUCTURAL PORTIONS OF PROJECT, INCLUDING BUT NOT LIMITED TO PLUMBING, FIRE SUPPRESSION, ELECTRICAL, MECHANICAL, LAND USE, SITE PLANNING, EROSION CONTROL, FLASHING AND WATER-PROOFING ARE BEYOND THE SCOPE OF THESE DRAWINGS AND ARE PROVIDED BY OTHERS.

**TEMPORARY SHORING**  
 WHEREVER SHORING IS REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A SHORING SYSTEM THAT PREVENTS SETTLEMENT AND/OR DAMAGE TO EXISTING FACILITIES AND PROTECTS PERSONNEL, THE PUBLIC, AND THE BUILDING, SUPPORTING STREETS, WALKWAYS, UTILITIES, IMPROVEMENTS AND EXCAVATION LOSS OF GROUND OR CAVING OF EMBANKMENTS DURING CONSTRUCTION, AS REQUIRED. THE CONTRACTOR SHALL LOCATE THE SYSTEM CLEAR WITHOUT OBSTRUCTION OF THE PERMANENT STRUCTURE AND TO PERMIT CONSTRUCTION TO PROCEED.

**BUILDING CODE**  
 ALL PHASES OF THE WORK SHALL CONFORM TO THE 2010 OREGON STRUCTURAL SPECIALTY CODE, EFFECTIVE DATE JULY 1, 2010, BASED ON THE 2009 INTERNATIONAL BUILDING CODE, INCLUDING ALL REFERENCE STANDARDS, UNLESS NOTED OTHERWISE.

**DESIGN LOADS**  
 LIVE LOAD REDUCTION FOR BEAMS AND COLUMNS WAS NOT USED. THE FOLLOWING ARE THE DESIGN REQUIREMENTS:

| STRUCTURAL DESIGN CRITERIA           |                                    |
|--------------------------------------|------------------------------------|
| OCCUPANCY CATEGORY                   | II                                 |
| DESIGN DEAD LOADS                    |                                    |
| FLOOR                                | 12 PSF                             |
| STAIRS                               | 45 PSF                             |
| FLOOR LIVE LOAD (COMMERCIAL)         |                                    |
| DECK/STAIRS/EXITWAYS                 | 100 PSF                            |
| WIND DESIGN DATA                     |                                    |
| BASIC WIND SPEED (3 SEC GUST)        | 95 MPH                             |
| IMPORTANCE FACTOR                    | Iw = 1.0                           |
| EXPOSURE                             | Gcpi = +/- 0.18                    |
| WALL COMPONENTS/CLADDING             |                                    |
| INTERIOR ZONES (ZONE 4)              | 16 PSF                             |
| END ZONES (ZONE 5)                   | 22 PSF                             |
| SEISMIC DESIGN DATA                  |                                    |
| IMPORTANCE FACTOR                    | IE = 1.0                           |
| SPECTRAL RESPONSE ACCELERATIONS      | SS = .98, S1 = 0.346               |
| SITE CLASS                           | D                                  |
| SPECTRAL RESPONSE COEFFICIENTS       | SDS = 0.72, SD1 = 0.39             |
| SEISMIC DESIGN CATEGORY              | D                                  |
| BASIC SEISMIC FORCE RESISTING SYSTEM | LIGHT FRAMED SHEAR WALLS           |
| SEISMIC RESPONSE COEFFICIENT         | CS = 0.111                         |
| RESPONSE MODIFICATION FACTOR         | R = 6.5                            |
| ANALYSIS PROCEDURE USED              | ASCE 7-05 EQUIVALENT LATERAL FORCE |



**FOOTINGS AND RETAINING STRUCTURES**  
 CONTRACTOR SHALL VERIFY SOIL CONDITIONS AT THE FOOTINGS AND MAKE ANY NECESSARY CORRECTIONS TO PLACE THEM ON FIRM NATIVE SOIL OR STRUCTURAL FILL COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT PER AMERICAN SOCIETY FOR TESTING AND MATERIALS, ASTM D998 (STANDARD PROCTOR), OR ASTM D1557 (MODIFIED PROCTOR). THE COMPACTION SHALL BE VERIFIED BY A QUALIFIED INSPECTOR APPROVED BY THE BUILDING OFFICIAL. COMPACTED STRUCTURAL FILL FOR DEPTHS GREATER THAN 12 INCHES SHALL COMPLY WITH PROVISIONS OF AN APPROVED GEOTECHNICAL REPORT. ASSUMED SOIL BEARING PRESSURE 1500 POUNDS PER SQUARE FOOT (PSF).

**CONCRETE**  
 MIXING, PLACING AND CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE, ACI 318 AND IBC CHAPTER 19.

CONCRETE SHALL BE 3000 POUNDS PER SQUARE INCH (PSI) MINIMUM AT 28 DAYS. ALL CONCRETE FOOTINGS SHALL BE A MAXIMUM OF 0.50. ALL EXTERIOR CONCRETE SLABS SHALL HAVE 5% +/-1% AIR ENTRAINMENT. ALL CONCRETE WITH REINFORCEMENT SHALL HAVE NO CHLORINE OR CHLORIDES.

SLEEVES, OPENINGS, CONDUIT, AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER BEFORE PLACING CONCRETE.

**REINFORCING STEEL**  
 ALL REINFORCING STEEL SHALL BE DEFORMED BARS PER ASTM A615 OR A706 GRADE 60. ALL REINFORCING STEEL TO BE WELDED SHALL BE ASTM A706. ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.

UNLESS NOTED OTHERWISE, SET MAIN REINFORCING STEEL 3" FROM EARTH AND 2" FROM FORMED SURFACES. BAR LENGTHS DETAILED ARE OUT TO OUT AND DO NOT INCLUDE ALLOWANCE FOR HOOKS OR BENDS. FOR ALL CORNERS WITH #5 REINFORCING STEEL AND SMALLER, PROVIDE 2'-6" X 2'-6" REINFORCING STEEL OF SAME SIZE AND SPACING AS HORIZONTAL BARS. PROVIDE ONE #4 X 4'-0" DIAGONALLY AT EACH RE-ENTRANT CORNER IN SLABS. ALL REBAR DOWELS TO BE SET IN PLACE PRIOR TO PLACING CONCRETE.

ALL REINFORCING STEEL SHALL BE SUPPORTED ON WELL-CURED CONCRETE BLOCKS, PLASTIC CHAIRS OR APPROVED METAL CHAIRS, AS SPECIFIED BY THE CRSI MANUAL OF STANDARD PRACTICE, MSP-1, AND SHALL BE SECURELY TIED IN PLACE WITH #16 ANNEALED IRON WIRE. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE 'ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES', ACI 315.

**CONCRETE ANCHORS**  
 ALL CAST IN PLACE ANCHOR BOLTS SHALL BE SECURELY TIED IN THEIR FINAL POSITION PRIOR TO PLACING CONCRETE (WET-SETTING OF ANCHOR BOLTS IS NOT PERMITTED).

**STRUCTURAL STEEL**  
 UNLESS NOTED OTHERWISE, ALL BOLTS TO BE ASTM A307 WITH MATCHING NUTS. UNLESS CONNECTION IS NOTED AS SLIP-CRITICAL OR PRETENSIONED, NUTS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION PER RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC) SPECIFICATION FOR STRUCTURAL JOINTS, SECTION 8.1. FOR SLIP-CRITICAL AND PRETENSIONED CONNECTIONS, INSTALLATION OF FASTENERS SHALL BE PER RCSC SECTION 8.2.

ALL STRUCTURAL STEEL SHALL HAVE ONE SHOP COAT OF PRIMER, EXCEPT SURFACES TO BE EMBEDDED IN CONCRETE OR MASONRY, OR STEEL TO BE GALVANIZED. EMBEDDED SURFACES SHALL BE FREE OF CONTAMINANTS. ALL EXPOSED STRUCTURAL STEEL TO HAVE ONE FINISH COAT OF RUST INHIBITING PAINT, COLOR BY OWNER.

ALL ZINC (GALV.) COATINGS ON IRON AND STEEL PRODUCTS SHALL CONFORM TO ASTM A123. REPAIRS OF GALVANIZED COATINGS ARE TO CONFORM TO ASTM A780. HOT DIP GALVANIZED COATINGS ON ASTM A325 FASTENER ASSEMBLIES SHALL CONFORM TO ASTM A153. SURFACE PREPARATION OF GALVANIZED STEEL TO RECEIVE A FINISH COAT OF PAINT SHALL CONFORM TO ASTM D6386.

**WOOD FRAMING**  
 ALL STRUCTURAL WOOD COLUMNS AND BEAMS TO BE PRESSURE TREATED HEM FIR (PT HF), #1 UNLESS NOTED OTHERWISE. ALL JOISTS, PURLINS, AND GIRTS TO BE HF PT #2 AND BETTER UNLESS NOTED OTHERWISE. ALL BLOCKING AND NON-STRUCTURAL FRAMING TO BE CONSTRUCTION GRADE AND BETTER.

ALL PREFABRICATED METAL TIMBER CONNECTORS AND HANGERS SHALL BE FULLY BOLTED AND/OR NAILED AS INDICATED BY MANUFACTURER. UNLESS NOTED OTHERWISE, ALL CONNECTORS, HANGERS AND FASTENERS SHALL BE CORROSION PROTECTED PER MANUFACTURER'S RECOMMENDATIONS. SIMPSON PREFABRICATED METAL TIMBER CONNECTORS NOTED. OTHER TYPES OF METAL CONNECTORS REQUIRE PRIOR REVIEW.

ALL SHEATHING SHALL BE APA RATED GROUP 1, EXPOSURE 1 IN COMPLIANCE WITH VOLUNTARY PRODUCT STANDARDS DOCUMENT PS1 AND DOCUMENT PS2.

\*23/32" (3/4" NOMINAL) SHEATHING TO BE C-D WITH SPAN RATING OF 48/24.

UNLESS OTHERWISE SPECIFIED BY THE PANEL MANUFACTURER, PROVIDE A MINIMUM GAP OF 1/8" BETWEEN ALL SHEATHING PANELS. ALL FLOOR SHEATHING TO BE TONGUE AND GROOVE. GLUE ALL FLOOR SHEATHING WITH STRUCTURAL ADHESIVE, 3M-5200 OR EQUIVALENT, AT ALL SUPPORTS. ALL SHEATHING WALLS AND/OR SHEAR WALLS TO HAVE 2X BLOCKING AT PANEL EDGES UNLESS NOTED OTHERWISE.

**WOOD FRAMING FASTENING SCHEDULE**  
 ALL NAILS SHALL BE COMMON AND NAILING SHALL BE PER THE NAILING SCHEDULE UNLESS OTHERWISE NOTED ON THE DRAWINGS. THE FOLLOWING NAIL SIZES SHALL BE USED UNLESS NOTED OTHERWISE:

- 8D NAIL: 0.113 INCH DIA. X 2 INCHES LONG WITH MIN. HEAD DIA. 17/64 IN.
- 8D NAIL: 0.131 INCH DIA. X 2 1/2 INCHES LONG WITH MIN. HEAD DIA. 9/32 IN.
- 10D NAIL: 0.148 INCH DIA. X 3 INCHES LONG WITH MIN. HEAD DIA. 5/16 IN.
- 12D NAIL: 0.148 INCH DIA. X 3 1/2 INCHES WITH MIN. HEAD DIA. 5/16 IN.
- 16D NAIL: 0.162 INCH DIA. X 3 1/2 INCHES WITH MIN HEAD DIA. 11/32 IN.

STAPLE OF EQUIVALENT VALUE MAY BE SUBSTITUTED AFTER REVIEW BY ENGINEER. NAILS AND STAPLES SHALL NOT BE OVERDRIVEN.

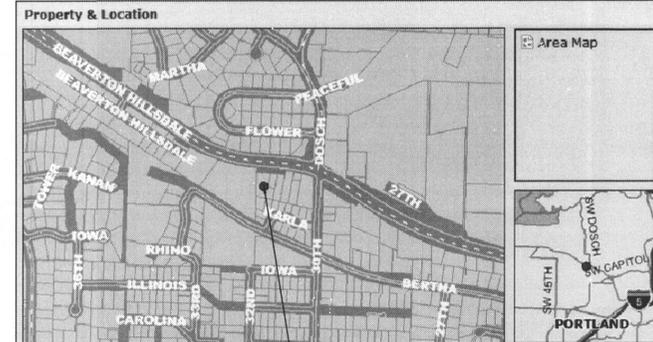
| ITEM  | FASTENERS   |
|---|---|
| BOT PL TO DECKING/JOISTS (FACE NAIL)            | 16d AT 8" O.C.  |
| BOT PL/TOP PL TO STUDS (END NAIL)               | (2) 16d AT 2'X4, (3) 16d AT 2'X6  |
| BUILT UP DBL STUDS (FACE NAIL)                  | 10d AT 8" O.C. STAGGERED  |
| DBL TOP PL (FACE NAIL)                          | 10d AT 12" O.C. STAGGERED   |
| DBL TOP PL SPLICES (FACE NAIL)                  | (14) 10d EA SIDE OF JOINT   |
| DBL TOP PL CORNERS/INTERSECTIONS (FACE NAIL)    | (4) 10d STAGGERED   |
| CONTINUOUS HEADER(S) (HDRS) TO STUDS (TOE NAIL) | (4) 10d   |
| TOP PL TO HDRS (FACE NAIL)                      | 16d AT 16" O.C.   |
| JOIST TO DBL TOP PL/SILL PL (TOE NAIL)          | (4) 10d   |
| BLOCKING TO STUDS (TOE NAIL)                    | (2) 10d   |
| JOISTS TO BLOCKING (END NAIL)                   | (3) 16d   |
| STUDS TO HDRS (END NAIL)                        | (6) 16d AT 4'X6/4'X8<br>(8) 16d AT 4'X10/4'X12  |
| NAIL-LAMINATED BEAMS (FACE NAIL)                | 16d AT 8" O.C. STAGGERED W/ (3) 16d AT EA. END  |
| BLOCKING TO TRUSSES/JOISTS (TOE NAIL)           | (4) 10d   |
| JOIST LAP SPLICES OVER DBL TOP PL (FACE NAIL)   | (4) 10d   |
| RIM JOIST TO JOISTS (END NAIL)                  | (3) 16d   |
| SHEATHING                                       | 10d GALV OR RING SHANK. AT 6" O.C. AT ALL SUPPORTED PANEL EDGES AND FLOOR PERIMETER AND 12" O.C. AT ALL INTERMEDIATE SUPPORTS |
| FLOORS  | 10d GALV OR RING SHANK. AT 6" O.C. AT ALL SUPPORTED PANEL EDGES AND FLOOR PERIMETER AND 12" O.C. AT ALL INTERMEDIATE SUPPORTS |

NOTE: #6-1 1/4" TYPE S OR W SCREW MAY BE SUBSTITUTED FOR GIVEN NAILS IN ALL GWB. FOR MULTIPLE LAYERS OF GWB, SCREWS REQUIRE 3/4" MIN. EMBED INTO WOOD MEMBER.

**PRESSURE TREATED LUMBER**  
 ALL STRUCTURAL WOOD MEMBERS EXPOSED TO WEATHER OR AS NOTED ON DRAWINGS OR AS REQUIRED BY IBC SECTION 2303.1.8, SHALL BE PRESERVATIVE TREATED IN ACCORDANCE WITH AMERICAN WOOD-PRESERVERS' ASSOCIATION USING (ACQ, CA-B, DOT) STANDARD U1 AND M4 FOR SPECIES, PRODUCT, PRESERVATIVE, AND END USE. RETENTION AMOUNTS SHALL BE AS REQUIRED FOR AWPA USE CATEGORY STANDARDS FOR STRUCTURAL APPLICATIONS. FOR ABOVE GROUND APPLICATIONS RETENTION OF 0.25 LBS PER CUBIC FOOT OF ACQ OR 0.10 LBS PER CUBIC FOOT OF CA-B BASED ON AWPA USE CATEGORY STANDARDS UC1, UC2, UC3A, UC3B. FOR GROUND CONTACT, FRESH WATER IMMERSION APPLICATIONS RETENTION OF 0.40 LBS PER CUBIC FOOT OF ACQ OR 0.25 LBS PER CUBIC FOOT OF CA-B BASED ON AWPA USE CATEGORY STANDARDS UC4A, UC4B. FOR IN GROUND STRUCTURAL APPLICATIONS RETENTION OF 0.60 LBS PER CUBIC FOOT OF ACQ OR 0.31 LBS PER CUBIC FOOT OF CA-B BASED ON AWPA USE CATEGORY STANDARD UC4B. FOR ABOVE GROUND, CONTINUOUSLY PROTECTED FROM LIQUID WATER APPLICATIONS (SILL PLATE) RETENTION OF 0.25 LBS PER CUBIC FOOT OF ACQ OR 0.10 LBS PER CUBIC FOOT OF CA-B OR 0.25 LBS PER CUBIC FOOT BASED ON AWPA USE CATEGORY STANDARDS UC1, UC2.

FASTENERS IN CONTACT WITH PRESERVATIVE-TREATED MATERIAL SHALL BE IN ACCORDANCE WITH IBC SECTION 2304.9.5. TIMBER CONNECTORS/FASTENERS IN CONTACT WITH PRESERVATIVE-TREATED MATERIAL SHALL HAVE PROTECTIVE COATINGS AS RECOMMENDED BY CONNECTOR/FASTENER MANUFACTURER.

ALL TRIMMED SECTIONS, CUTS, DAPS, OR HOLES IN PRESSURE TREATED MATERIALS SHALL BE TREATED WITH COPPER NAPHTHENATE, IN ACCORDANCE WITH AWPA STANDARD M4. FOR ADDITIONAL REQUIREMENTS, SEE IBC SECTION 2304.11 FOR PROTECTION AGAINST DECAY AND TERMITES.



3124 BEAVERTON-HILLSDALE PORTLAND, OREGON



**PROJECT SCOPE:**  
 THE SCOPE OF THIS PROJECT IS LIMITED TO REPAIRS TO (2) EXISTING DECKS ON THE NORTH SIDE OF THE STRUCTURE. NO CHANGES ARE BEING MADE TO THE FOOTPRINT OR PROFILE OF DECKS WHICH WERE CONSTRUCTED UNDER A PRIOR PERMIT

**STRUCTURAL DRAWING INDEX**

|        |                                    |
|--------|------------------------------------|
| S0.01: | STRUCTURAL NOTES                   |
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|        | SCOPE OF WORK                      |
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| S1.01: | OVERALL PLAN                       |
| S1.02: | UPPER / LOWER DECK DEMOLITION PLAN |
| S1.03: | UPPER / LOWER DECK FOUNDATION PLAN |
|        | UPPER / LOWER DECK FRAMING PLAN    |
| S3.01: | LOWER DECK SECTION                 |
| S3.02: | UPPER DECK SECTION                 |
| S3.03: | LOWER DECK ELEVATION               |
|        | UPPER DECK ELEVATION               |
| S8.01: | DETAILS                            |

City of Portland  
 REVIEWED FOR CODE COMPLIANCE  
 DEC 14 2012  
 Permit Number

REGISTERED PROFESSIONAL ENGINEER  
 OREGON  
 JANUARY 23, 2000  
 PAUL R. ALBERTINE  
 EXPIRES: 12-31-2013  
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 Miller Consulting Engineers, Inc.

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**WALKWAY / DECK REPAIR**  
 MR. TRACY VARNELL  
 RENTAL HOUSING MAINTENANCE SERVICE  
 3124 BEAVERTON-HILLSDALE HWY  
 PORTLAND, OREGON

DRAWN BY: BCH  
 CHECKED BY: PJP  
 PROJECT NO: 120882  
 ISSUE DATE: 12.10.2012

| REV. | DATE | DESCRIPTION |
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SHEET CONTENT  
 STRUCTURAL NOTES  
 SHEET  
**S0.01**

12-215486-00



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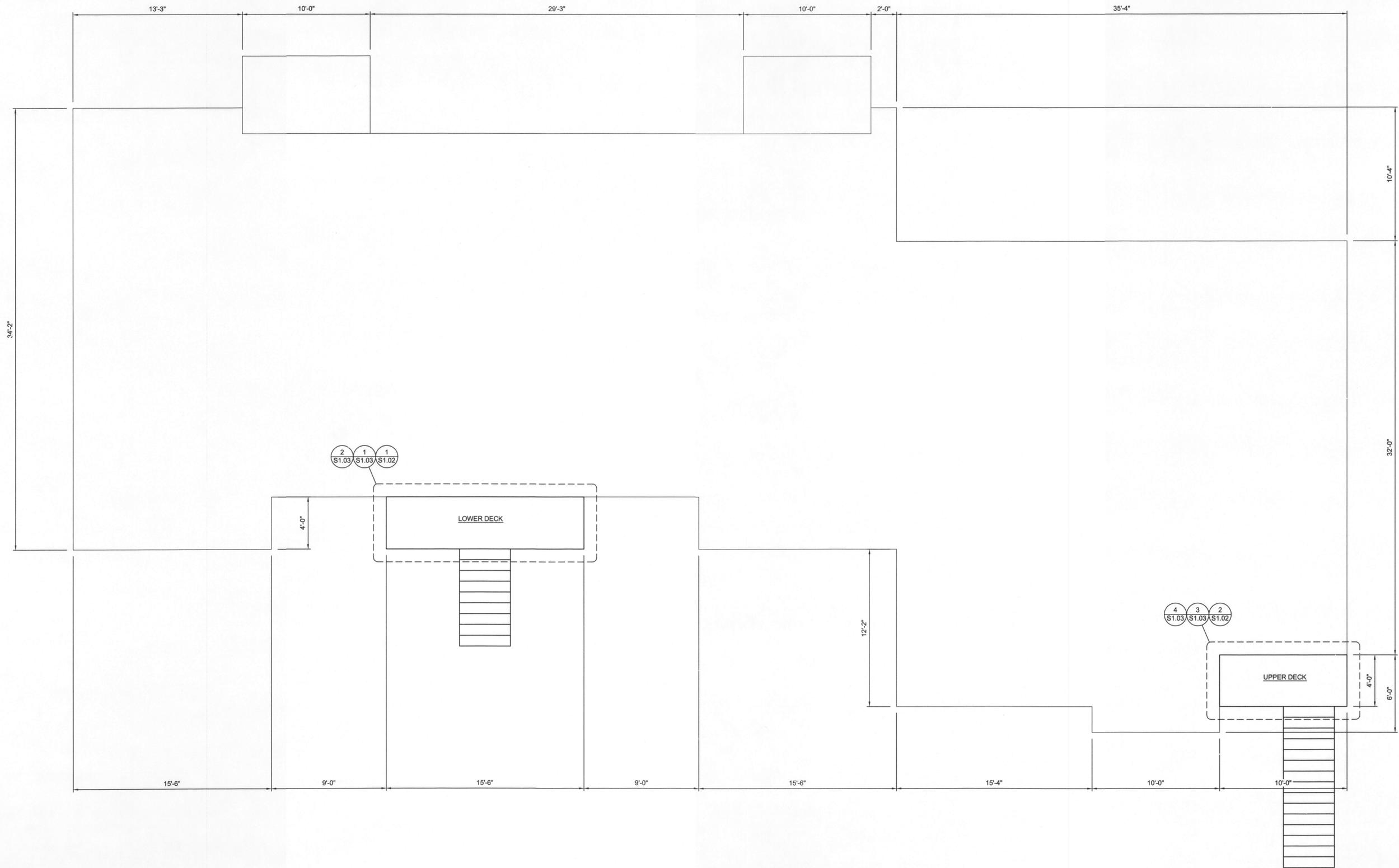
SHEET CONTENT  
SITE PLAN

SHEET  
**S0.02**





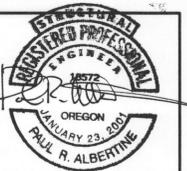

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1 PLAN  
S1.01  
1/4" = 1'-0"

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LINE IS 2 INCHES AT FULL SCALE  
(IF NOT 2" - SCALE ACCORDINGLY)



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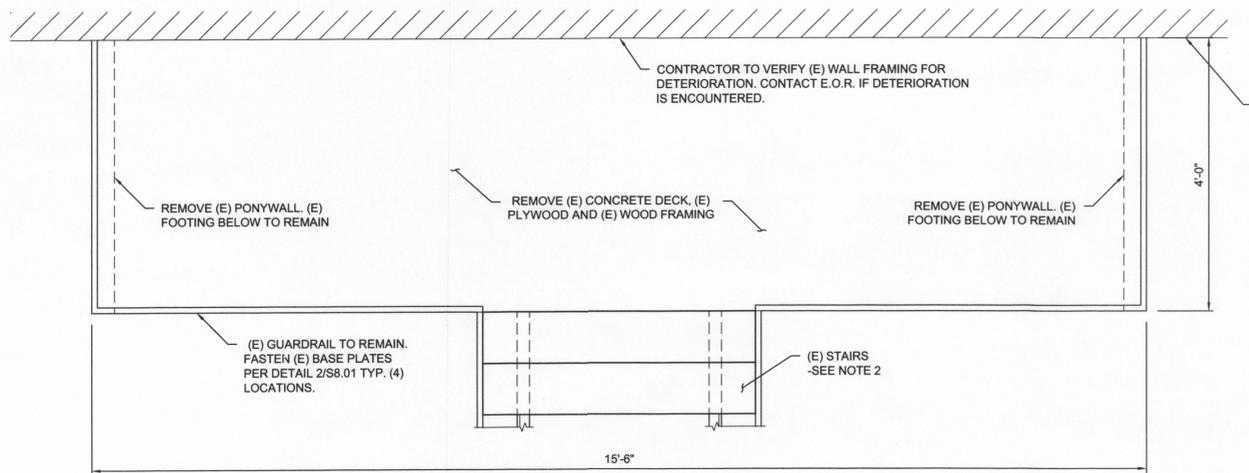
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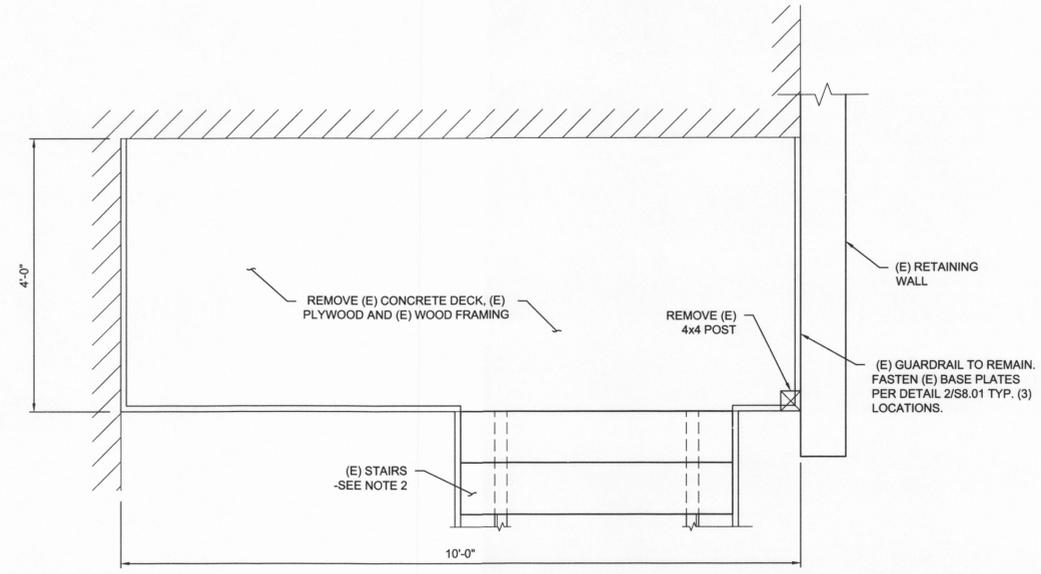
SHEET CONTENT  
PLAN

SHEET  
S1.01

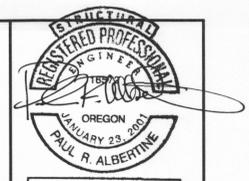
- NOTES:
1. ALL METAL FASTENERS AND CONNECTORS TO HAVE Z-MAX COATING OR BETTER PER MANUFACTURERS RECOMMENDATION.
  2. DISASSEMBLE STAIR TREAD TO STAIR FRAMING CONNECTION. REMOVE ALL RUST. REMOVE AND REPLACE (E) DAMAGED CONCRETE STAIR TREADS AND FASTENERS W/ (N) CONCRETE STAIR TREADS OF SAME SIZE AND (N) H.D.G. BOLTS OF SAME SIZE AND DIAMETER.



1 LOWER DECK DEMOLITION PLAN  
S1.02  
3/4" = 1'-0"



2 UPPER DECK DEMOLITION PLAN  
S1.02  
3/4" = 1'-0"



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WALKWAY / DECK REPAIR

MR. TRACY VARNELL  
RENTAL HOUSING MAINTENANCE SERVICE  
3124 BEAVERTON-HILLSDALE HWY  
PORTLAND, OREGON

DRAWN BY: BCH  
CHECKED BY: PRA  
PROJECT NO: 120882  
ISSUE DATE: 12.10.2012

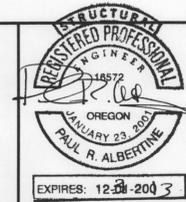
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SHEET CONTENT  
UPPER/LOWER DECK  
DEMOLITION PLAN

LINE IS 2 INCHES  
AT FULL SCALE  
(IF NOT 2" - SCALE ACCORDINGLY)

SHEET  
S1.02



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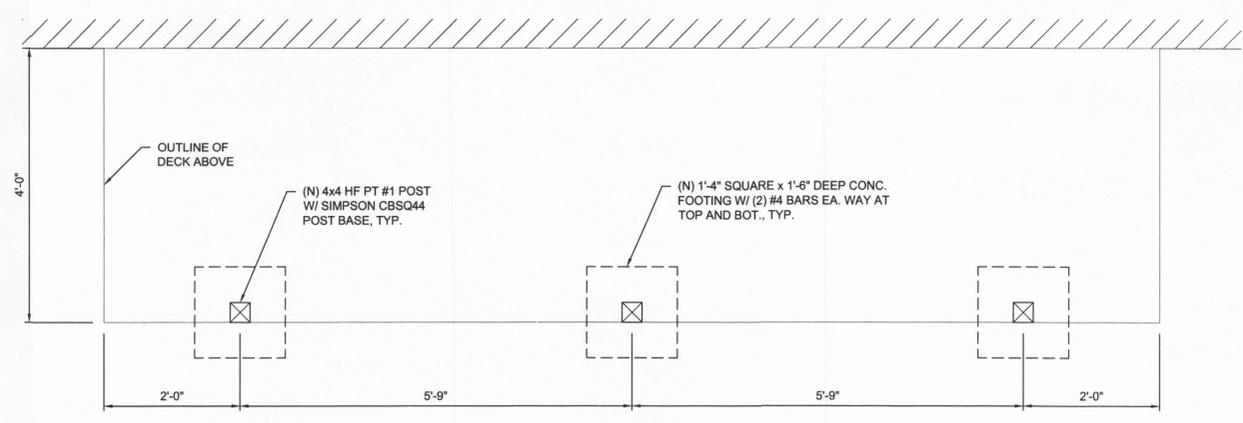
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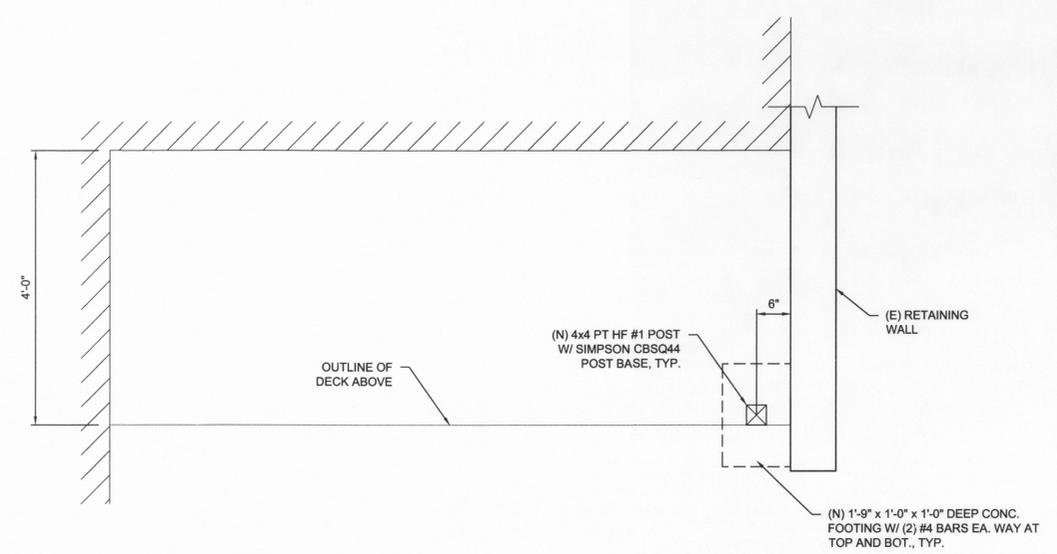
SHEET CONTENT  
UPPER/LOWER DECK  
FOUNDATION PLAN  
FRAMING PLAN

SHEET  
**S1.03**

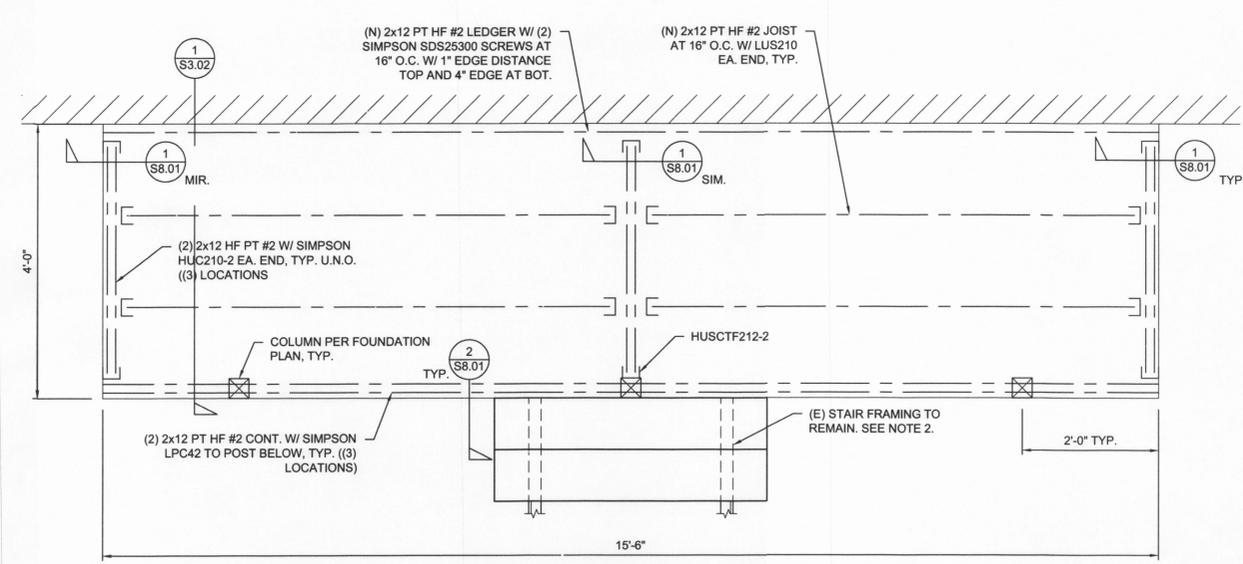
- NOTES:
- ALL METAL FASTENERS AND CONNECTORS TO HAVE Z-MAX COATING OR BETTER PER MANUFACTURERS RECOMMENDATION.
  - DISASSEMBLE STAIR TREAD TO STAIR FRAMING CONNECTION. REMOVE ALL RUST, REMOVE AND REPLACE (E) DAMAGED CONCRETE STAIR TREADS AND FASTENERS W/ (N) CONCRETE STAIR TREADS OF SAME SIZE AND (N) H.D.G. BOLTS OF SAME SIZE AND DIAMETER.



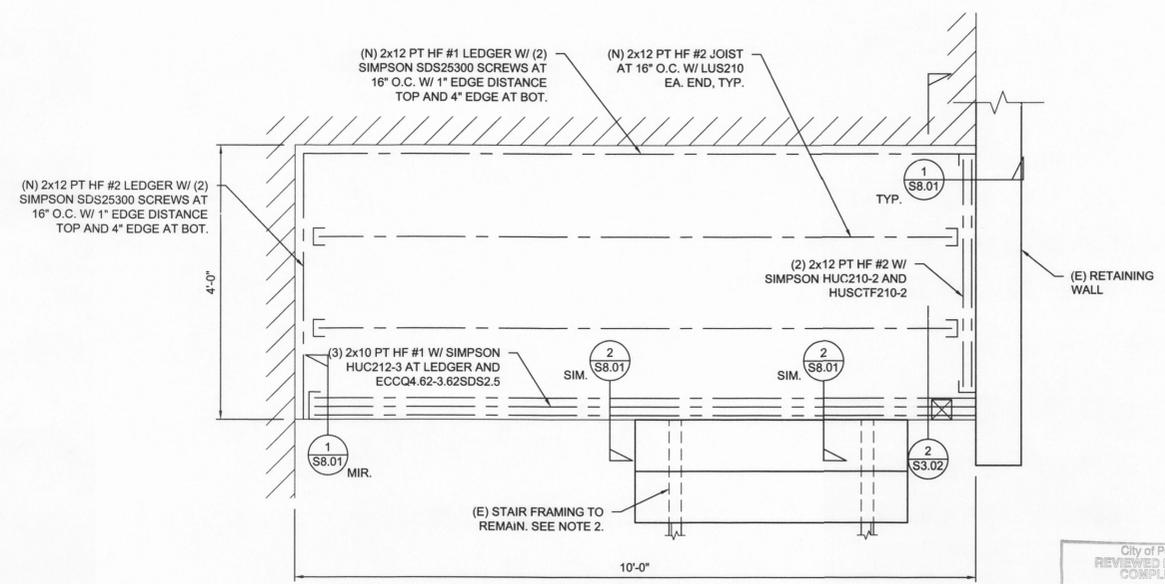
**1 LOWER DECK FOUNDATION PLAN**  
S1.03  
3/4" = 1'-0"



**3 UPPER DECK FOUNDATION PLAN**  
S1.03  
3/4" = 1'-0"



**2 LOWER DECK FRAMING PLAN**  
S1.03  
3/4" = 1'-0"



**4 UPPER DECK FRAMING PLAN**  
S1.03  
3/4" = 1'-0"

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LINE IS 2 INCHES  
AT FULL SCALE  
(IF NOT 2" - SCALE ACCORDINGLY)

NOTE:  
 1. CONTRACTOR TO VERIFY FINISH  
 ELEVATION TO MATCH (E) TOP OF DECK



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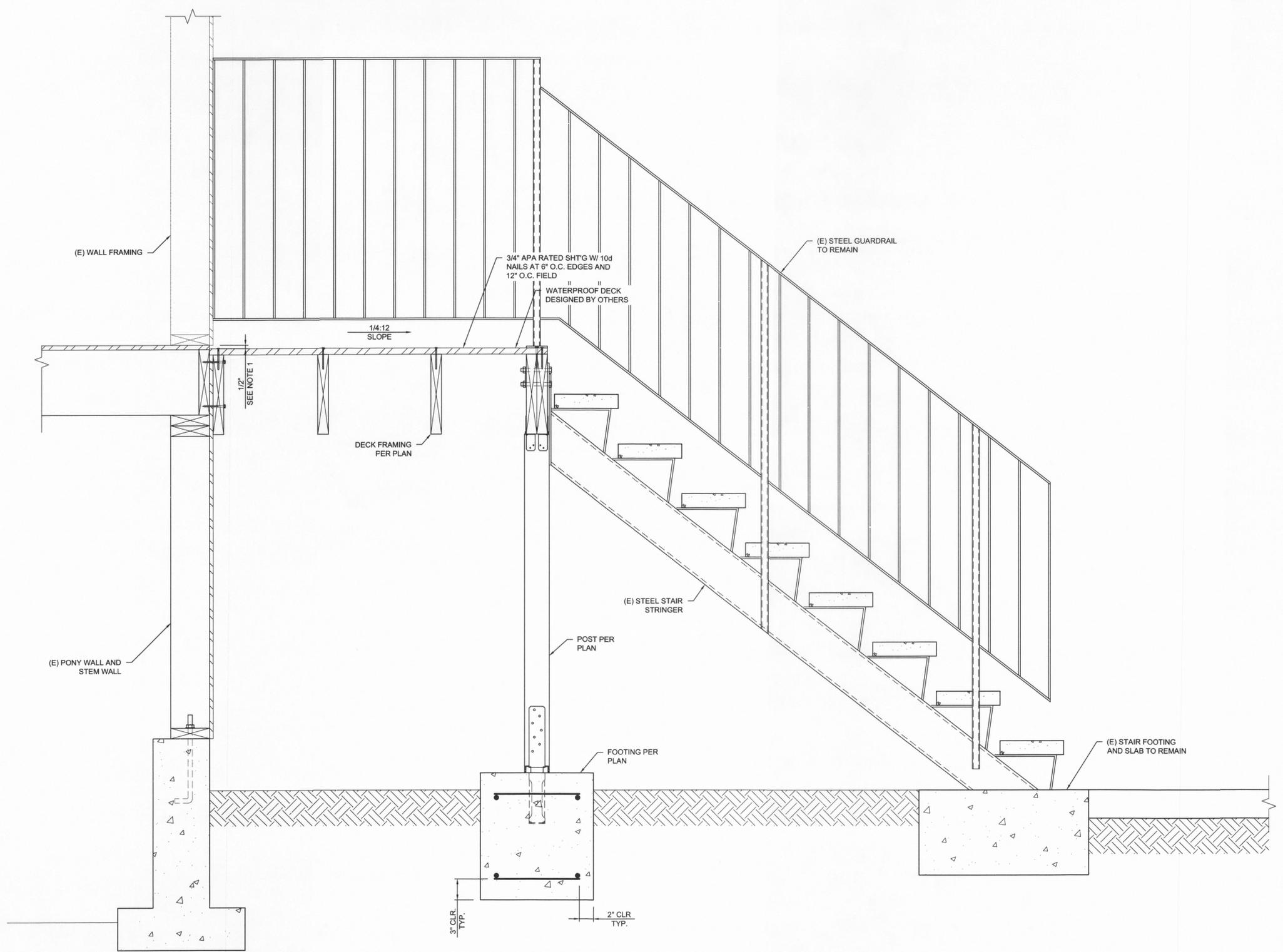
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SHEET CONTENT  
 LOWER DECK SECTION

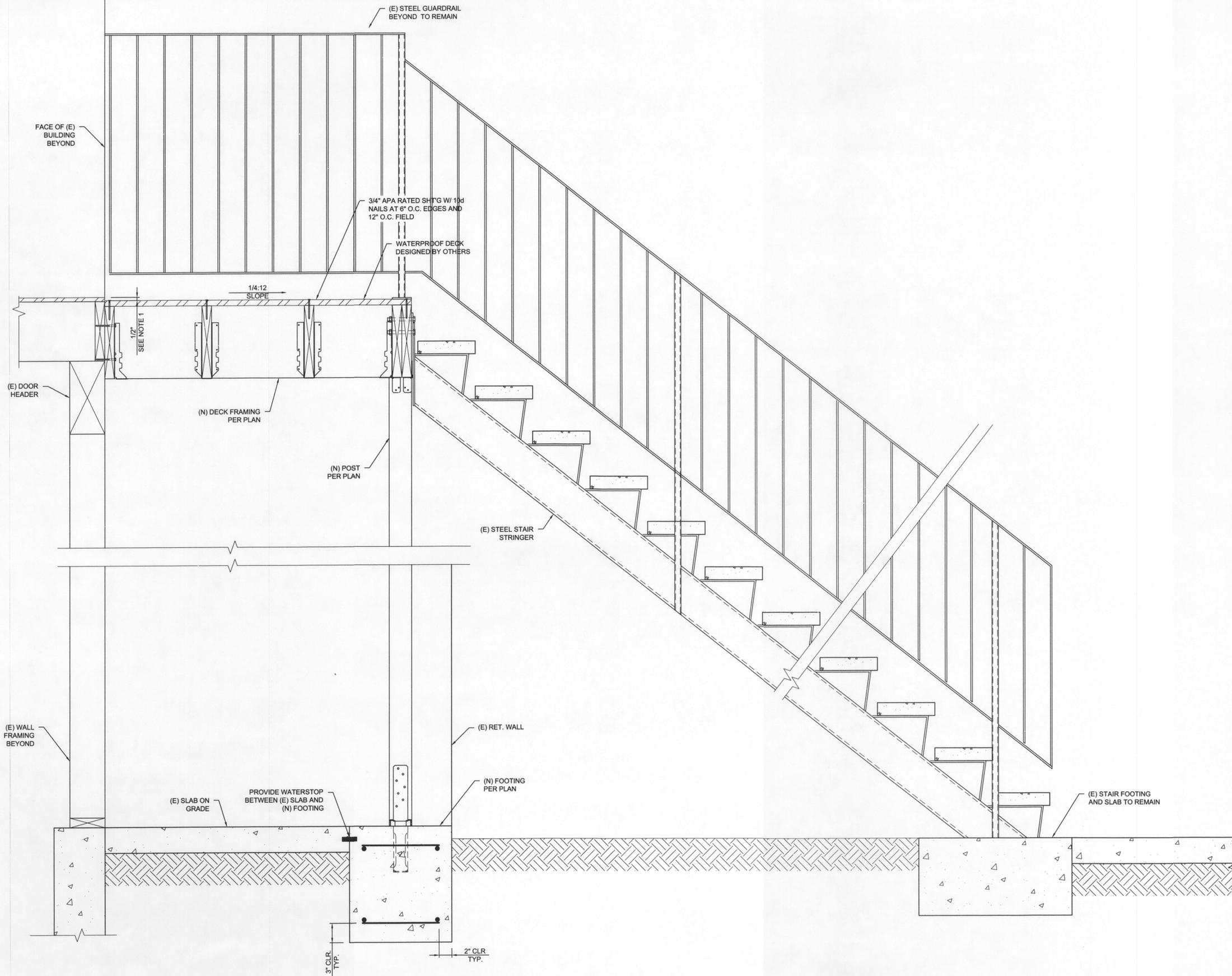
SHEET  
**S3.01**



**1 LOWER DECK SECTION**  
 S3.01

1 1/2" = 1'-0"

LINE IS 2 INCHES  
 AT FULL SCALE  
 (IF NOT 2" - SCALE ACCORDINGLY)



NOTE:  
 1. CONTRACTOR TO VERIFY FINISH ELEVATION TO MATCH (E) TOP OF DECK



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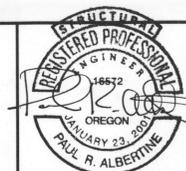
SHEET CONTENT  
 UPPER DECK SECTION

SHEET  
**S3.02**

**1** UPPER DECK SECTION  
 S3.02

1 1/2" = 1'-0"

LINE IS 2 INCHES  
 AT FULL SCALE  
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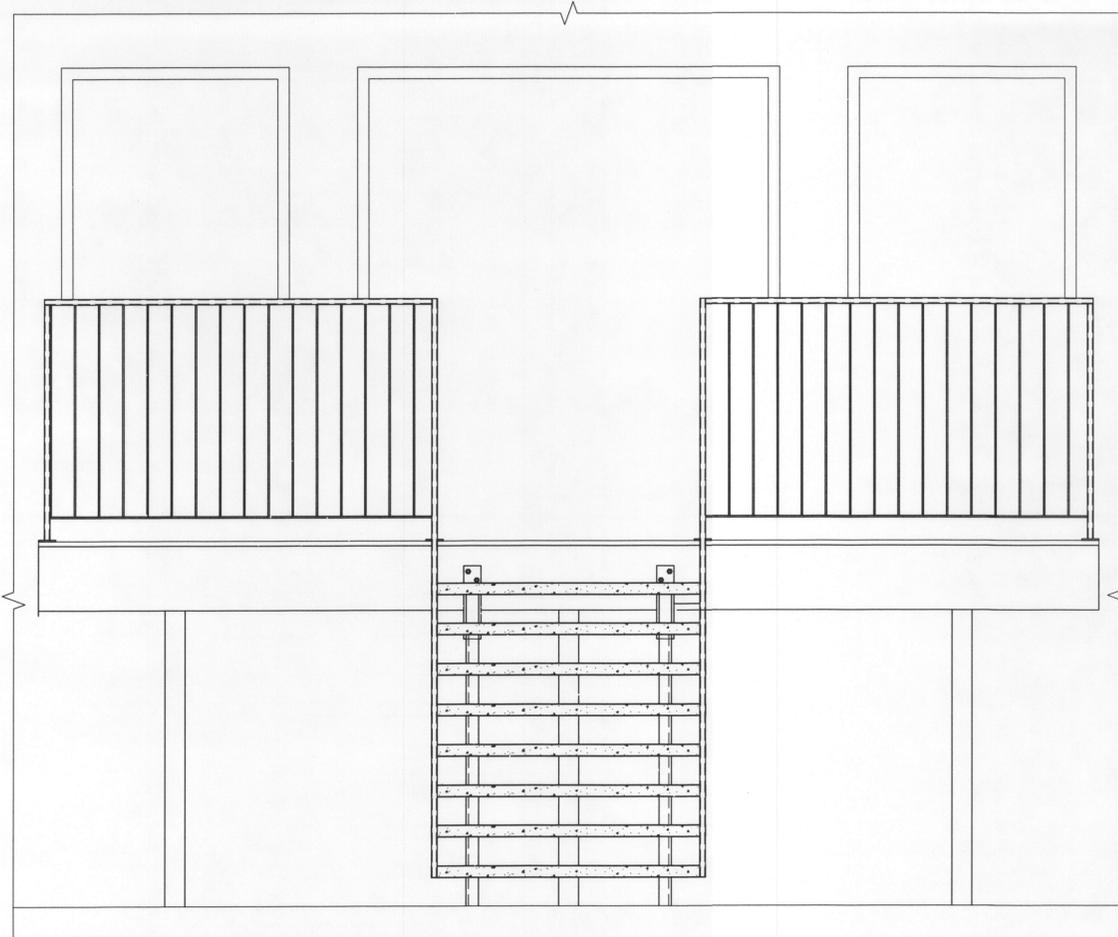
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SHEET CONTENT  
UPPER LOWER DECK  
ELEVATIONS

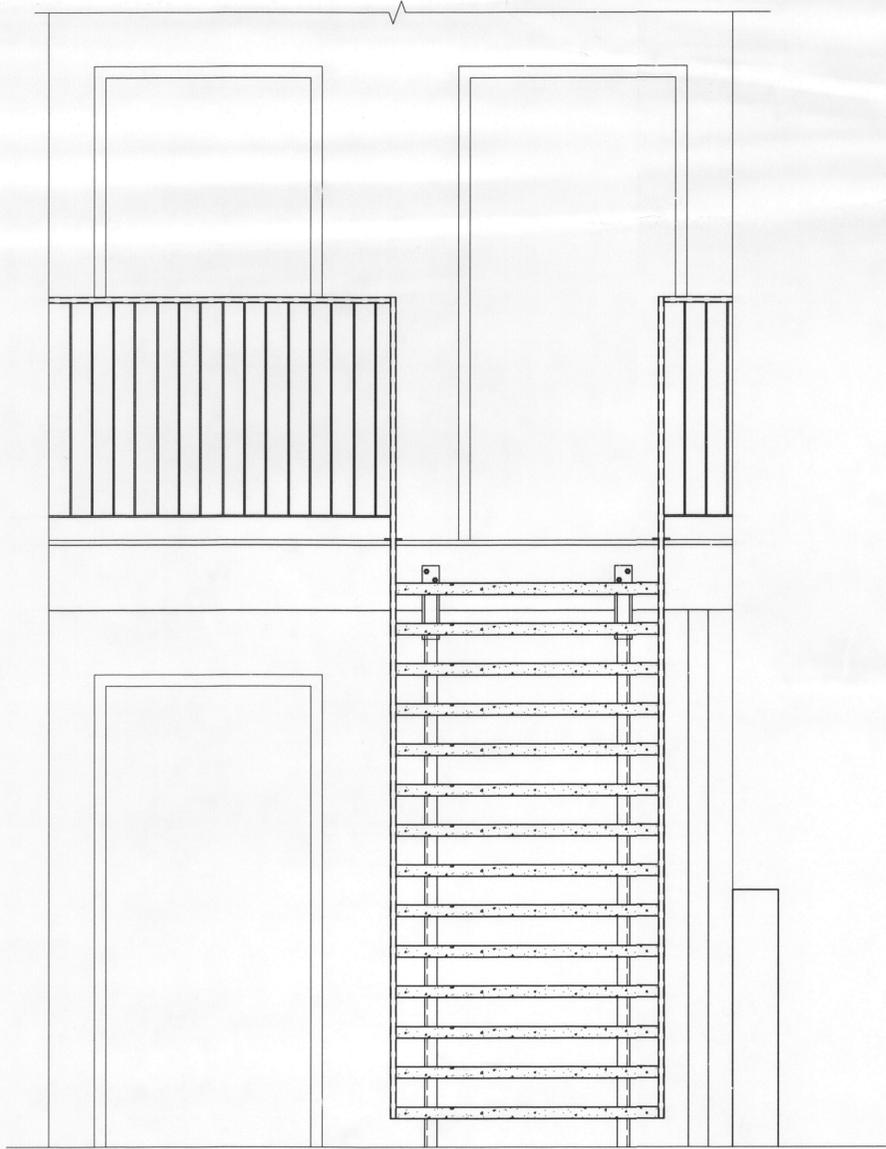
SHEET  
**S3.03**



**1 LOWER DECK ELEVATION**

S3.03

3/4" = 1'-0"

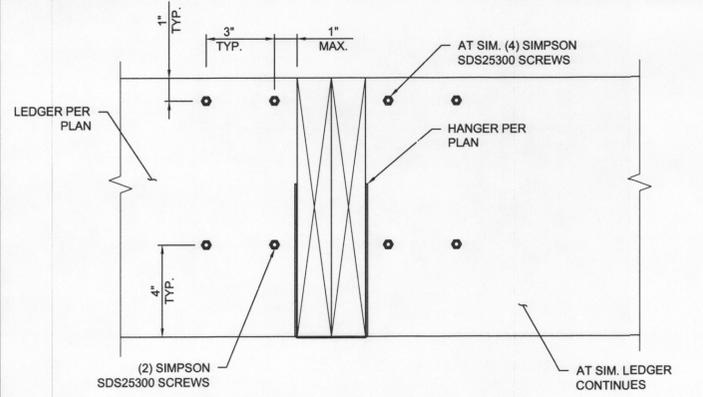


**2 UPPER DECK ELEVATION**

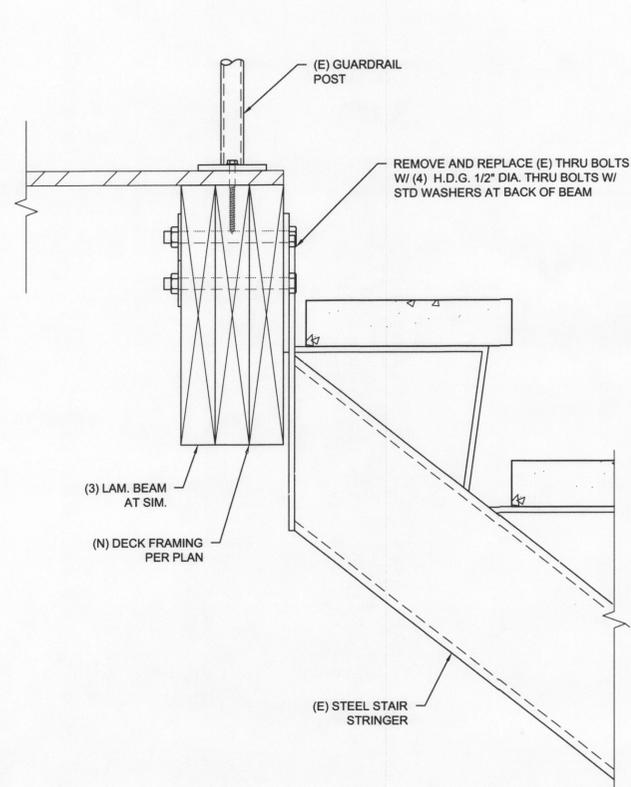
S3.03

3/4" = 1'-0"

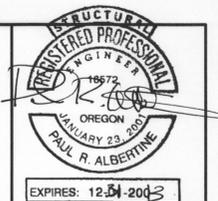
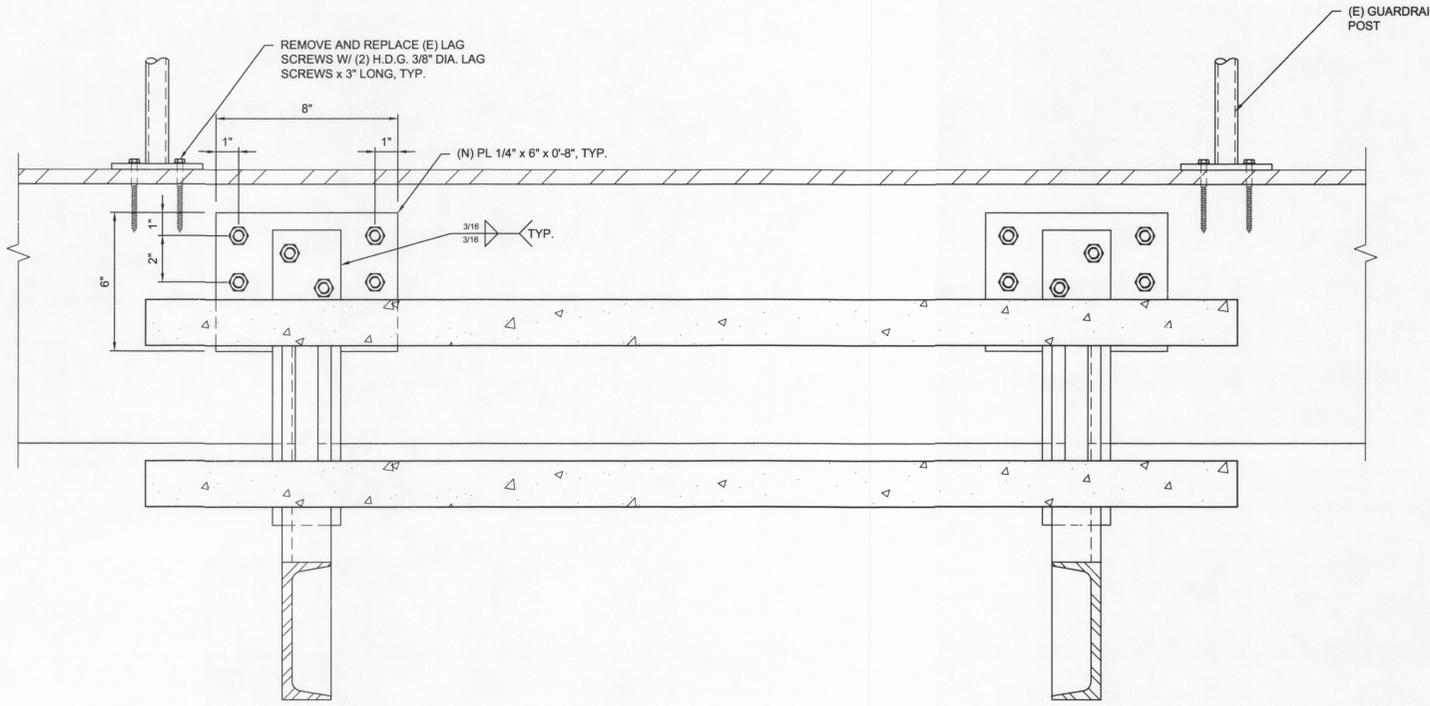
LINE IS 2 INCHES  
AT FULL SCALE  
(IF NOT 2" - SCALE ACCORDINGLY)



**1 TYPICAL BEAM TO LEDGER**  
3" = 1'-0"



**2 STAIR AND GUARDRAIL ATTACHMENT**  
3" = 1'-0"



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SHEET CONTENT  
DETAILS

SHEET  
**S8.01**



LINE IS 2 INCHES AT FULL SCALE  
(IF NOT 2" - SCALE ACCORDINGLY)