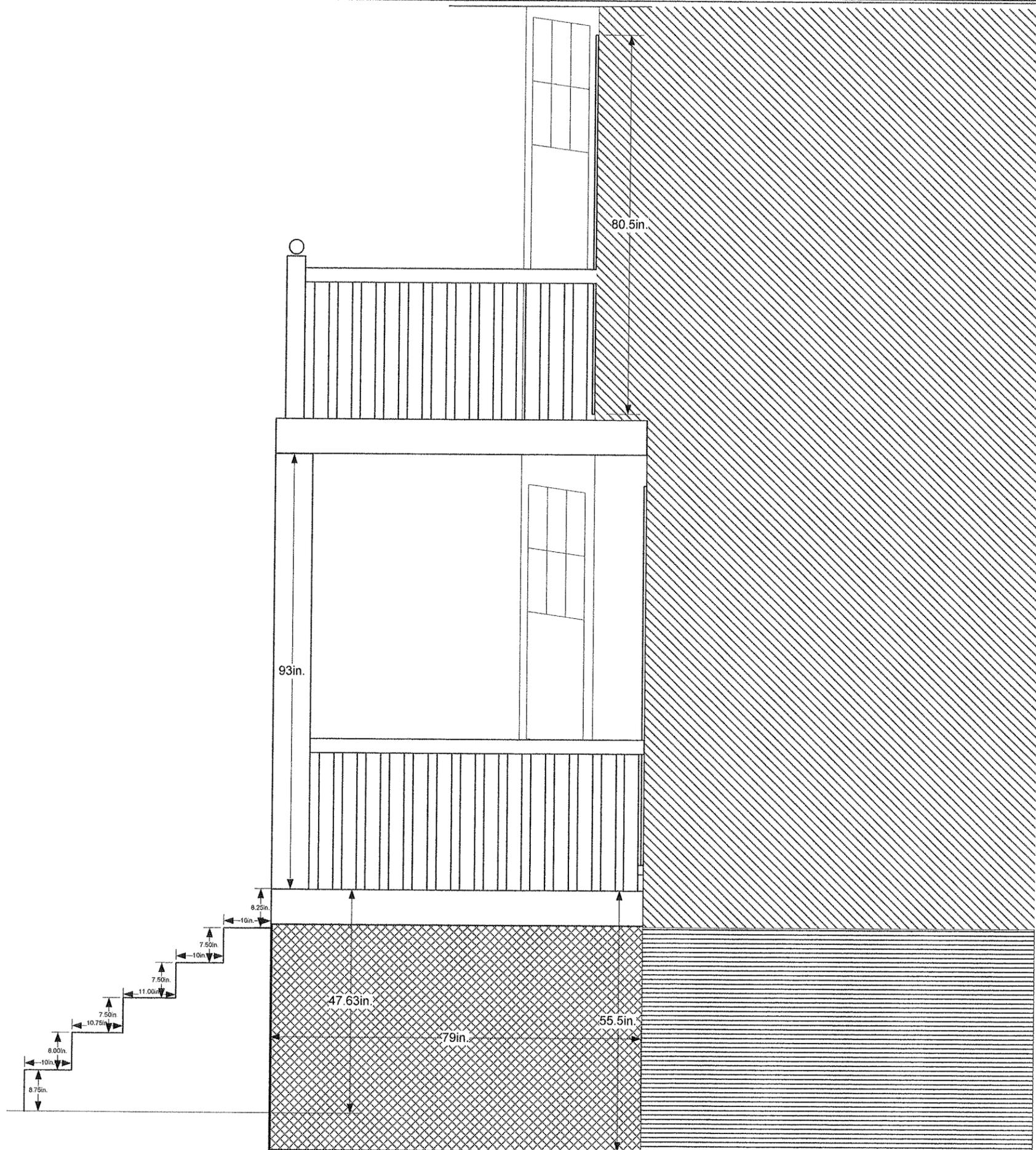


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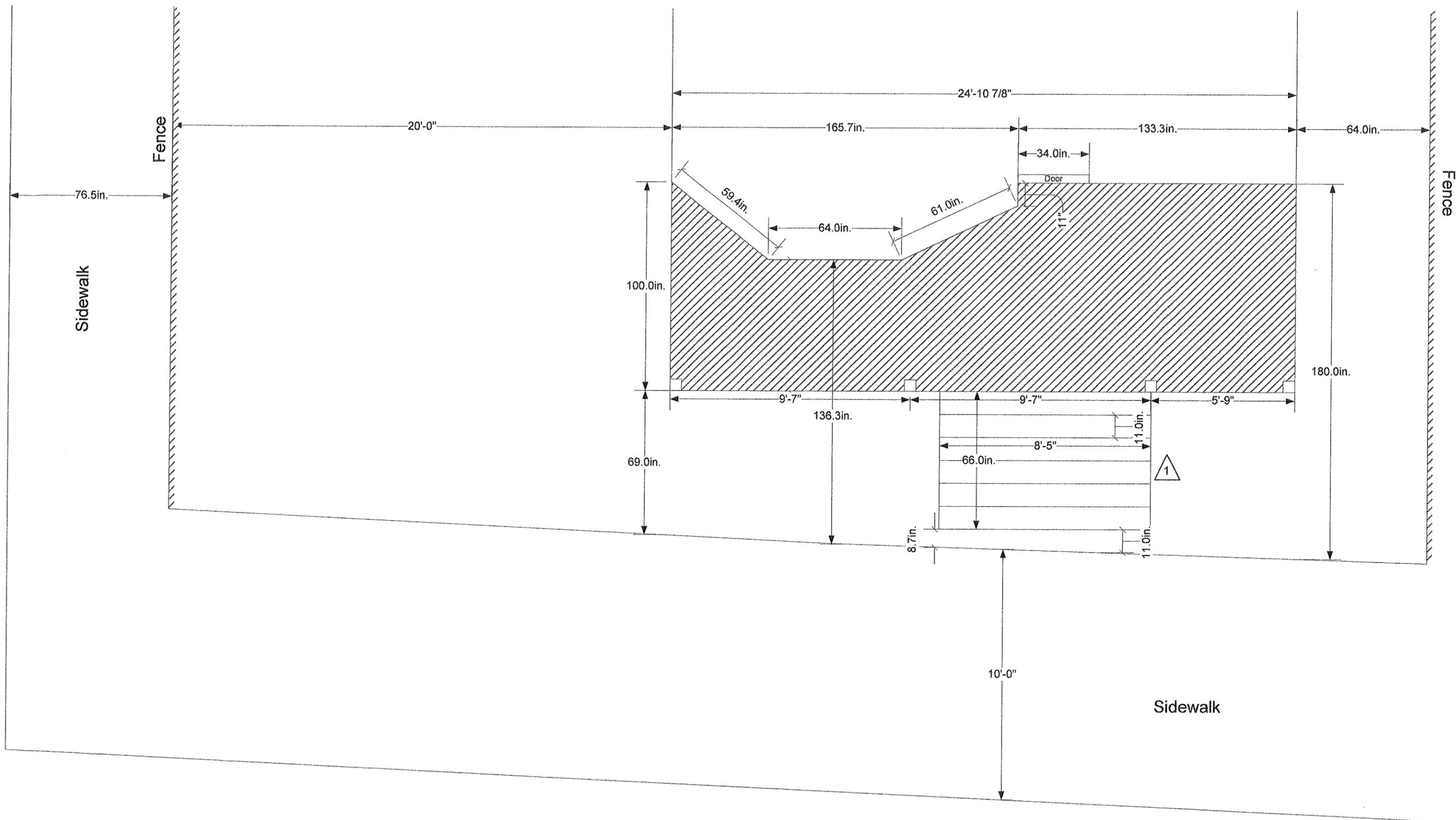
TITLE		REVISIONS		
<b>38 Warner St</b> Existing Deck Top View		NO.	DATE	DESCRIPTION
		B	7/9/11	1" Measurement Check
		A	6/19/11	ORIGINAL
DATE ORIGINAL	SCALE			
6/19/11	3/4" = 1'			
LATEST REVISION	CHECKED	DRAWN		
B	MAS	MAS		



TITLE		REVISIONS		
38 Warner St Existing Deck Side View		NO.	DATE	DESCRIPTION
		B	6/19/11	1" Measurement Check
DATE ORIGINAL		A	6/19/11	ORIGINAL
6/19/11				
SCALE				
1/2" = 1'				
LATEST REVISION	CHECKED	DRAWN		
B	MAS	MAS		

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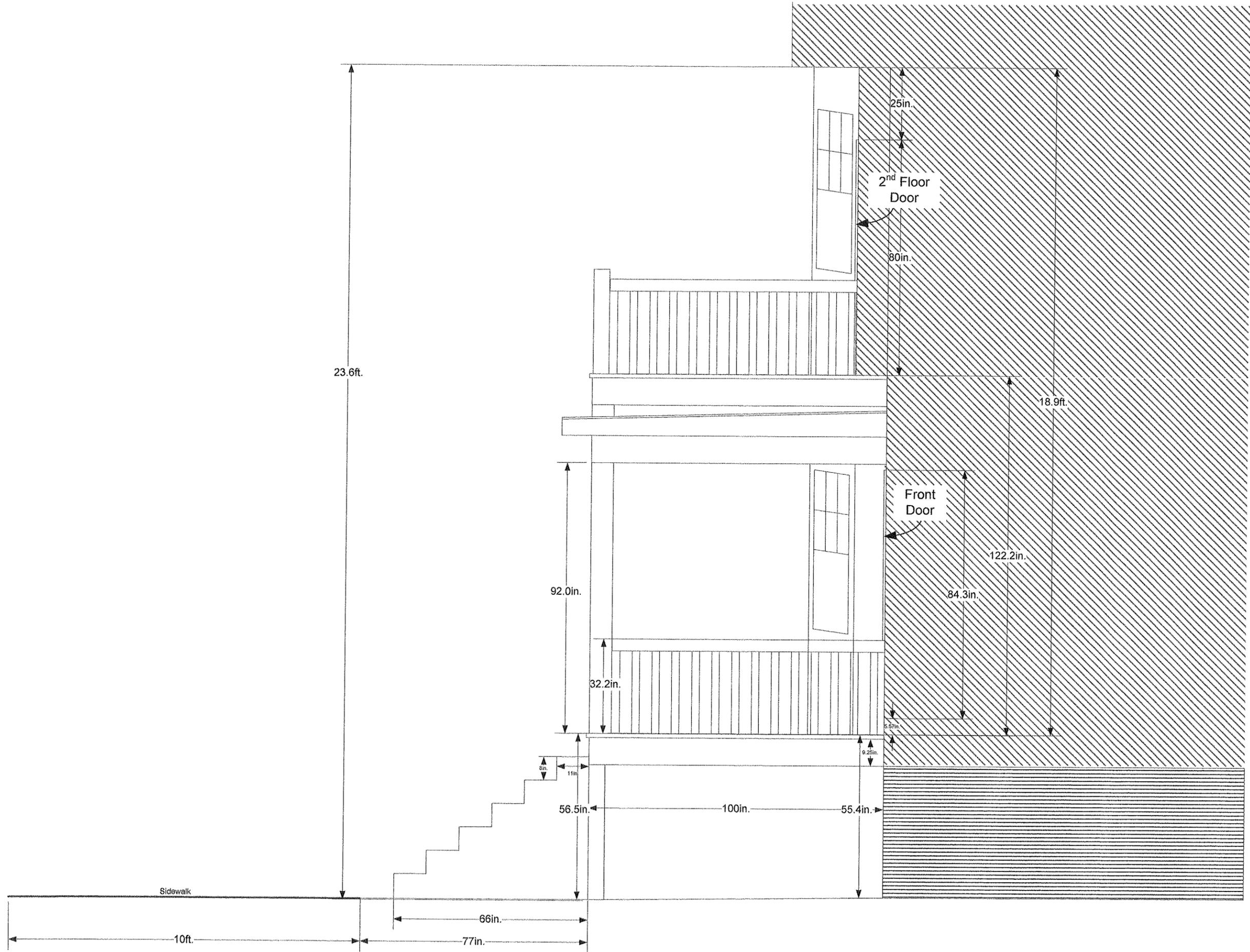
TITLE		REVISIONS		
<b>38 Warner St</b>  Proposed Porch First Floor Top View		NO.	DATE	DESCRIPTION
		0	7/20/11	Issue for Construction
		B	7/5/11	1" CHECK
		A	6/18/11	ORIGINAL
DATE ORIGINAL	SCALE			
6/19/11	1/4" = 1'			
LATEST REVISION	CHECKED	DRAWN		
0	MAS	MAS		

Notes:  
 1. 8-inch Risers

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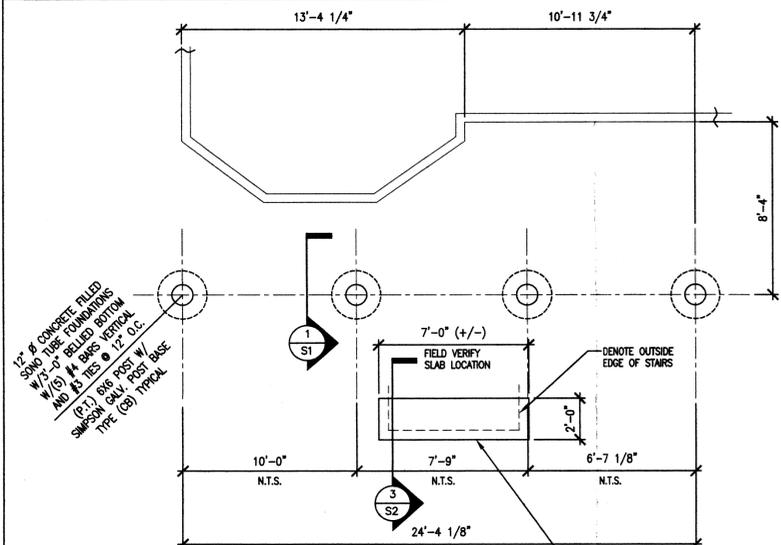


TITLE		REVISIONS		
38 Warner St Proposed Porch Front View		NO.	DATE	DESCRIPTION
		0	9/12/11	ORIGINAL
DATE ORIGINAL	SCALE			
9/12/11	3/8" = 1'			
LATEST REVISION	CHECKED	DRAWN		
0	MAS	MAS		

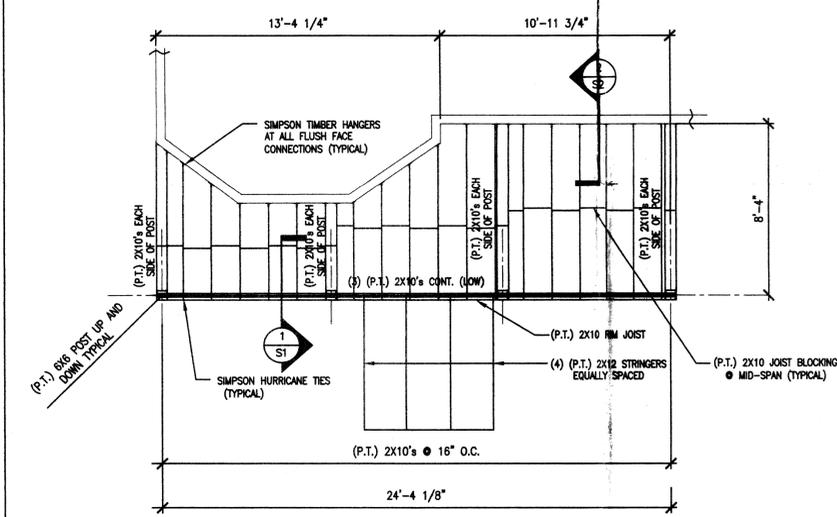


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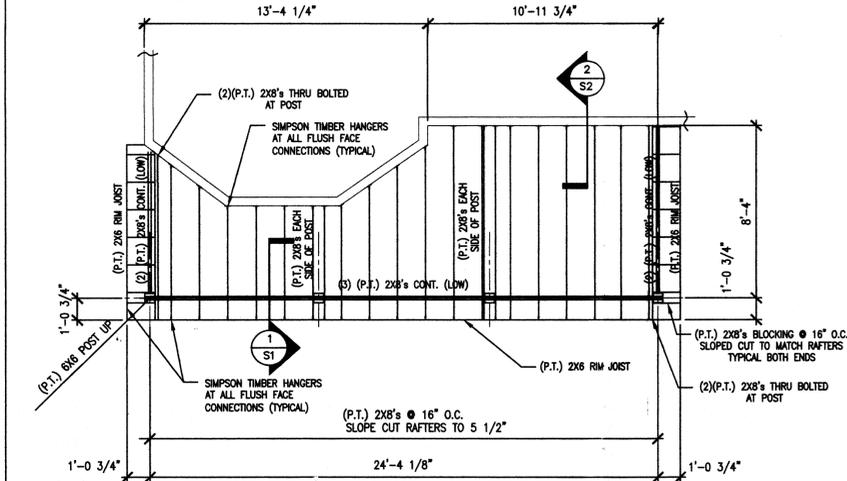
TITLE		REVISIONS		
<b>38 Warner St</b> Proposed Porch Side View		NO.	DATE	DESCRIPTION
		0	7/21/11	Issue for Construction
		A	6/16/11	ORIGINAL
DATE ORIGINAL	SCALE			
6/19/11	3/8" = 1'			
LATEST REVISION	CHECKED	DATE		
0	MAS			MAS



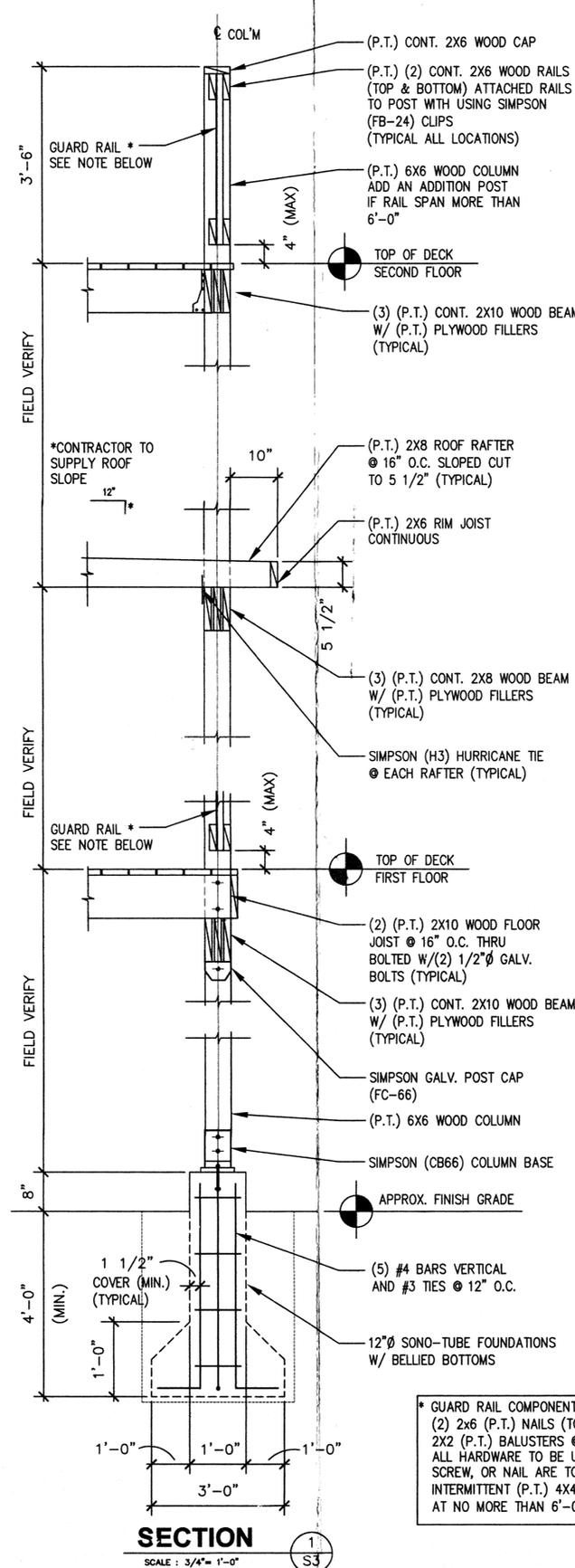
**FOUNDATION PLAN**  
SCALE: 1/4" = 1'-0"



**FIRST FLOOR PORCH FRAMING PLAN**  
SCALE: 1/4" = 1'-0"



**FIRST FLOOR PORCH ROOF FRAMING PLAN**  
SCALE: 1/4" = 1'-0"



**SECTION**  
SCALE: 3/4" = 1'-0"

**STRUCTURAL NOTES**

**A. GENERAL**

1. ALL DESIGN AND CONSTRUCTION REQUIRED OF THE CONTRACTOR BY THE CONTRACT DOCUMENTS SHALL BE PERFORMED IN ACCORDANCE WITH THE GOVERNING BUILDING CODE AND OSHA REGULATIONS, SUPPLEMENTED BY THE CONTRACT DOCUMENTS. THE GOVERNING BUILDING CODE USED IN STRUCTURAL DESIGN IS THE MASSACHUSETTS STATE BUILDING CODE, EIGHTH EDITION, (ONE OR TWO FAMILY DWELLINGS) WITH THE LATEST ADOPTED AMENDMENTS.
2. ALL DIMENSIONS, ELEVATIONS AND CONDITIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
3. IN CASE EXISTING CONDITIONS DIFFER FROM THOSE SHOWN ON DRAWINGS CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH PERTINENT WORK.
4. THE STRUCTURAL ENGINEER SHALL NOT HAVE CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION, MEAN, METHODS TECHNIQUES, SEQUENCES OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF CONTRACTOR, SUBCONTRACTORS OR ANY OTHER PERSONS PERFORMING ANY WORK, OR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
5. STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY OTHER STRUCTURAL WORK BEYOND WHAT IS SHOWN ON THE DRAWINGS.
6. STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR WATERPROOFING.
7. STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR FIREPROOFING.
8. ALL TEMPORARY BRACING AND SHORING MADE NECESSARY FOR EXECUTION OF STRUCTURAL WORK AND/OR MADE NECESSARY DUE TO IMPROPER STRUCTURAL CONDITIONS SHALL BE PROVIDED BY CONTRACTOR WHO SHALL ASSUME ALL RESPONSIBILITY FOR IT. ALL TEMPORARY BRACING AND SHORING SHALL BE REMOVED ONLY AFTER WORK HAS BEEN AND REVIEWED BY THE STRUCTURAL ENGINEER.

**B. CONCRETE**

1. CONCRETE WORK SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE FOR BUILDINGS" (LATEST EDITION OF ACI 318 AND 301).
2. ALL CONCRETE SHALL ATTAIN A COMPRESSIVE STRENGTH OF F'c = 3,000 PSI AT 28 DAYS.
3. PROVIDED 6% PLUS/MINUS ENTRAINED AIR IN ALL CONCRETE EXPOSED TO EARTH OR WEATHER.
4. ALL SLABS ON GROUND SHALL BE PLACED ON MINIMUM 6" LAYER OF 95% COMPACTED SAND AND STONE.
5. REINFORCED BARS SHALL CONFORM TO ASTM A615, GRADE 60. LAP BARS 36 DIAMETERS AT SPLICES.
6. ALL SHORING SHALL REMAIN IN PLACE UNTIL CONCRETE HAS ATTAINED 75% OF ITS 28 DAYS STRENGTH.
7. ALL CONCRETE FORMWORK SHALL REMAIN IN PLACE FOR A MINIMUM OF 7 DAYS UNLESS AUTHORIZED OTHERWISE BY THE ENGINEER.

**C. STRUCTURAL LUMBER**

1. ALL WORK SHALL BE IN CONFORMANCE WITH AMERICAN FOREST & PAPER ASSOC. STANDARD AND SPECIFICATIONS
2. ALL WOOD FRAMING EXPOSED TO THE WEATHER OR MARKED (P.T) ON THE DRAWINGS PRESERVATIVE TREATED SOUTHERN PINE NO. 2 OR BETTER WITH Fb = 1500 PSI (MIN), Fv = 175 PSI, E = 1.6x 10<sup>6</sup> PSI EXCEPT OF DECKING MATERIAL AND = 16000 KSI.(MIN)
3. ANY WOOD IN DIRECT CONTACT WITH CONCRETE OR MASONRY, EXPOSED TO WEATHER OR MOISTURE SHALL BE PRESERVATIVE TREATED IN ACCORDANCE WITH THE "AMERICAN WOOD PRESERVATIVE ASSOCIATION, STANDARD "C1"
4. ALL FASTENER SHALL BE IN CONFORMANCE WITH THE FASTENING SCHEDULE IN THE APPLICABLE STATE BUILDING CODE, UNLESS NOTED OTHERWISE. FASTENERS EXPOSED TO THE WEATHER SHALL BE GALVANIZED - "SIMPSON'S Z-MAX" OR STAINLESS STEEL.
5. ALL WOOD POST CAPS AND BASE CONNECTIONS SHALL BE APPROVED GALVANIZED "SIMPSON" POST CAP AND BASE PREFABRICATED ASSEMBLIES. SUBMIT SHOP DRAWINGS FOR REVIEW.
6. ALL FLUSH FRAMED JOISTS CONNECTIONS TO BE SIMPSON TYPE "LU" OR APPROVED EQUAL.
7. PROVIDE "H2.5" HURRICANE ANCHOR CLIPS OR OTHER EQUIVALENT 18 GAUGE STEEL FRAMING ANCHOR AT ALL RAFTER SUPPORTED.
8. MINIMUM BEARING FOR JOIST = 1 1/2"
9. MAXIMUM JOISTS OVERHANG, 12" UNLESS OTHERWISE NOTED.
10. BRIDGING SHALL BE SOLID USING 2 X JOISTS DEPTH INSTALLED IN OFFSET FASHION. MAXIMUM SPACING - 8 FT.
11. JOISTS SPLICES SHALL OCCUR ONLY OVER BEARING POINTS.
12. JOISTS SHALL BE TOE NAILED TO WOOD SUPPORT WITH TWO 10D NAILS.
13. ALL STEEL HARDWARE SHALL BE HOT DIPPED GALVANIZED NAILS SHALL BE THOSE APPROVED BY THE MANUFACTURE TO BE USED WITH THERE PRODUCT AND FOR THE SPECIFIC USE. NAILS SHALL BE FULLY DRIVEN IN ALL HOLES IN THE METAL HANGERS OR ANCHORS, TECO OR "SIMPSON" GALVANIZED HANGERS CONFORMING TO THE REQUIREMENTS INDICATED, SHALL BE PROVIDED.

**D. SOIL BEARING**

1. ALL FOOTING SHALL BE CARRIED DOWN TO A NATURAL, COMPETENT UNDISTURBED GRANULAR MATERIAL HAVING A MINIMUM SAFE BEARING CAPACITY OF 1.0 TONS/SFT. (TO BE VERIFIED BY THE GEOTECHNICAL ENGINEER).
2. BOTTOM OF FOOTINGS ELEVATIONS SHOWN ON THE CONTRACT DOCUMENTS ARE MINIMUM DEPTHS ARE NOT TO BE CONSTRUED AS LIMITED IN ANY WAY THE AMOUNT OF EXCAVATION NECESSARY TO REACH A SUFFICIENT BEARING STRATUM. NO FOOTING OR SLABS SHALL BE PLACED IN WATER OR ON FROZEN GROUND. IN GENERAL, ALL EXTERIOR CONSTRUCTION SHALL BE CARRIED DOWN A MINIMUM OF 4'-0" BELOW FINISHED, ADJACENT EXTERIOR GRADE.

**E. DESIGN LOADS**

- DECK = 100 PSF
- ROOF = 60 PSF

**F. EXISTING CONDITIONS**

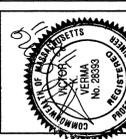
1. ALL INFORMATION RELATING TO THE EXISTING STRUCTURAL CONDITIONS HAS BEEN DERIVED FROM FIELD SURVEYS. ALL CONDITIONS SHALL BE FIELD VERIFIED.
2. THE CONTRACTOR SHALL VERIFY ALL THE EXISTING CONDITIONS, DIMENSIONS AND MEMBER SIZES AS INDICATED ON THE DRAWINGS IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PORTION OF WORK.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL TEMPORARY BRACING, SHORING, EARTH RETENTION SYSTEMS AND UNDERPINNING METHODS AS REQUIRED TO PREVENT DAMAGE TO PERSONS AND THE PROPERTY.
4. ALL DIMENSION NOTED (+/-) ON THE PLAN SHALL BE COORDINATED AND VERIFIED BY THE CONTRACTOR IN THE FIELD.

PLANS DENIED  
*U. Bernard* 8-24-11  
SIGNATURE DATE

\* GUARD RAIL COMPONENTS :  
(2) 2x6 (P.T.) NAILS (TOP & BOTTOM)  
2X2 (P.T.) BALUSTERS @ 5" ON CENTER  
ALL HARDWARE TO BE USED TO CONNECT,  
SCREW, OR NAIL ARE TO BE GALVANIZED.  
INTERMITTENT (P.T.) 4X4 POST TO BE SPACED  
AT NO MORE THAN 6'-0" O.C.

DECK FRAMING BEING SUPPORT BY THE EXISTING  
EXTERIOR WALL IS TO BE DESIGN TO SUPPORT  
BOTH VERTICAL AND LATERAL LOADS. THIS OFFICE  
WILL SUPPLY A SUPPORT DETAIL TO THE CONTRACTOR  
ONCE THE EXISTING FIELD CONDITION HAVE BEEN  
DETERMINED.

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RSV Associates  
Consulting Engineers  
10 Natick Drive, Suite 201-G  
Randolph, Massachusetts, 02868  
Phone: 781 965 3746 Fax: 781 849 3772

PROJECT NAME:  
PROPOSED REPAIRS TO THE  
FRONT PORCHES AT:  
38 WARNER ST  
SOMERVILLE, MA

REVISIONS PER:	DATE:

DATE ISSUED: 07/29/2011	PERMIT
DWG. SCALE: JLC	
DRAWN BY: JLC	
REVIEWED BY: RSV	
PROJECT NO:	

DRAWING NAME:  
**FOUNDATION AND  
FRAMING PLANS**

**S-1**

