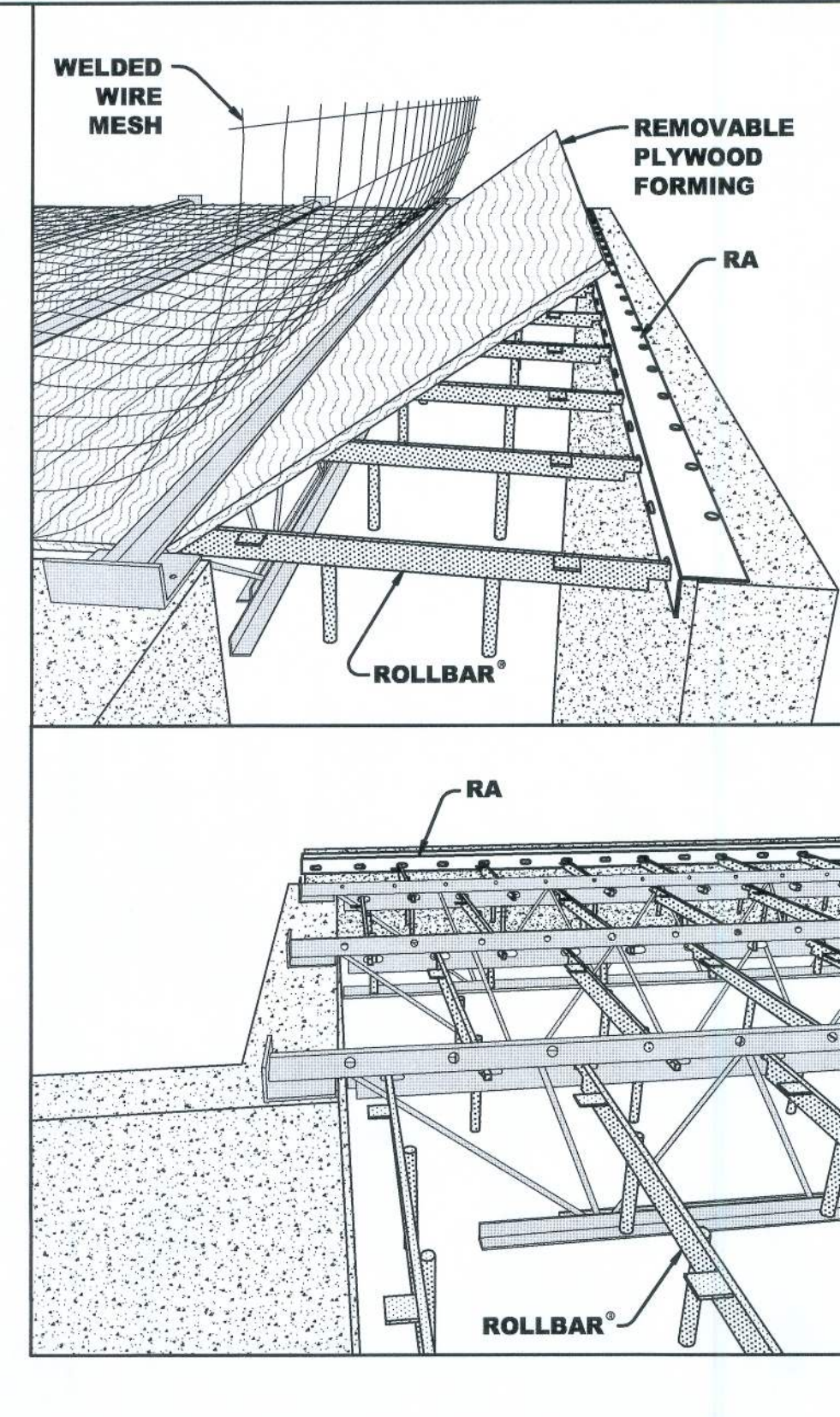
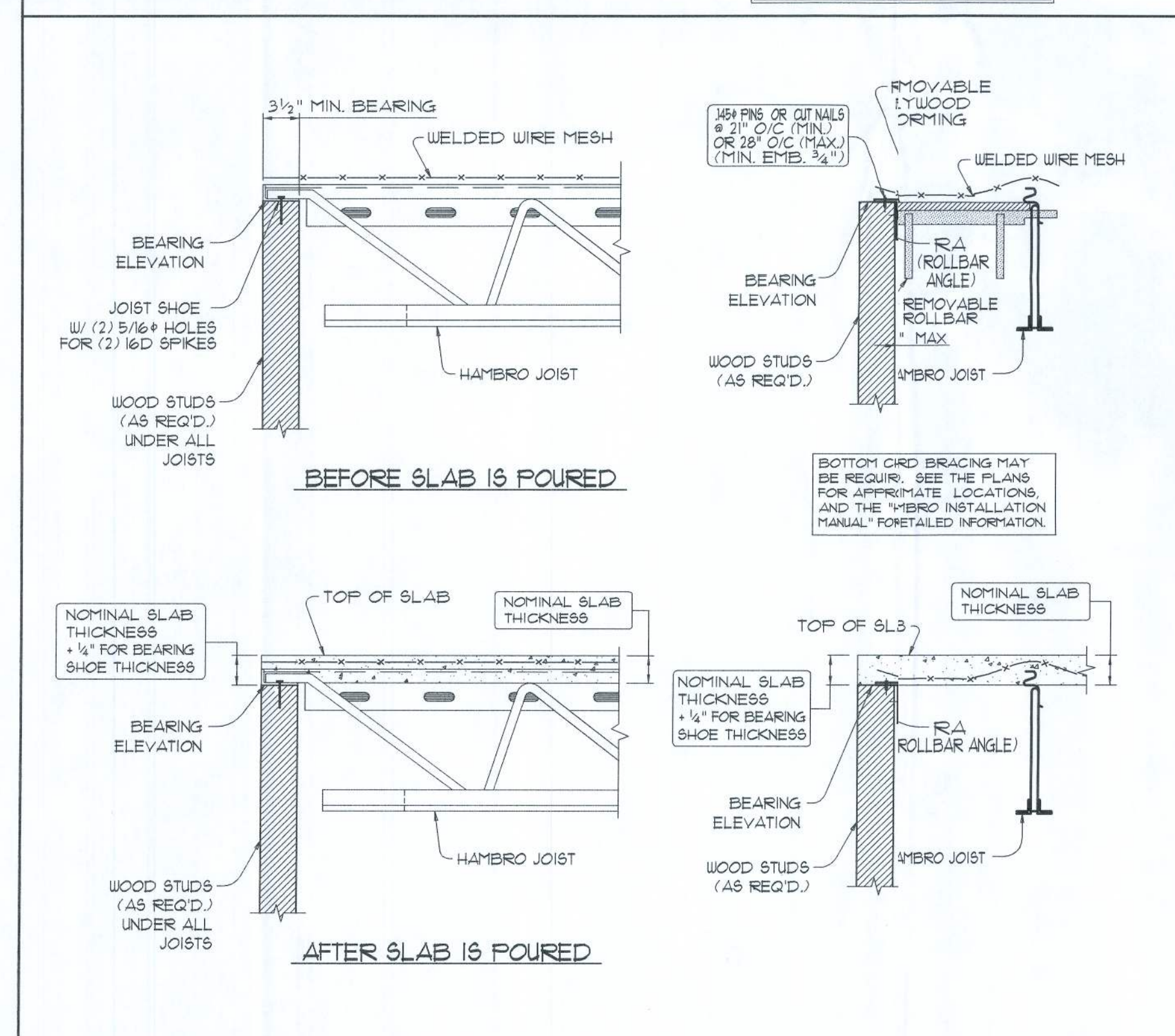


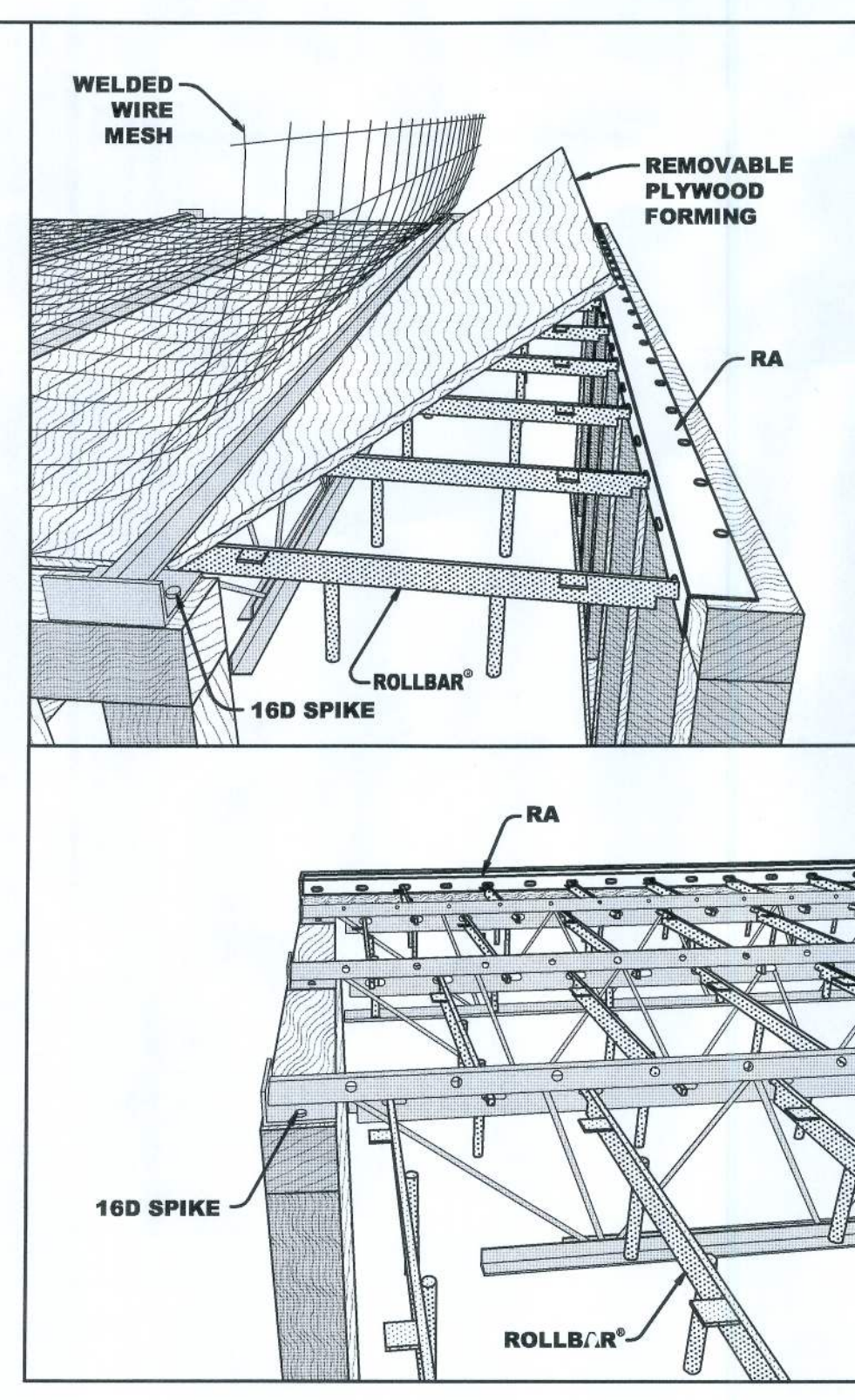
HAMBRO® JOIST BEARING ON M/SONRY WALL OR CONCRETE BEAM



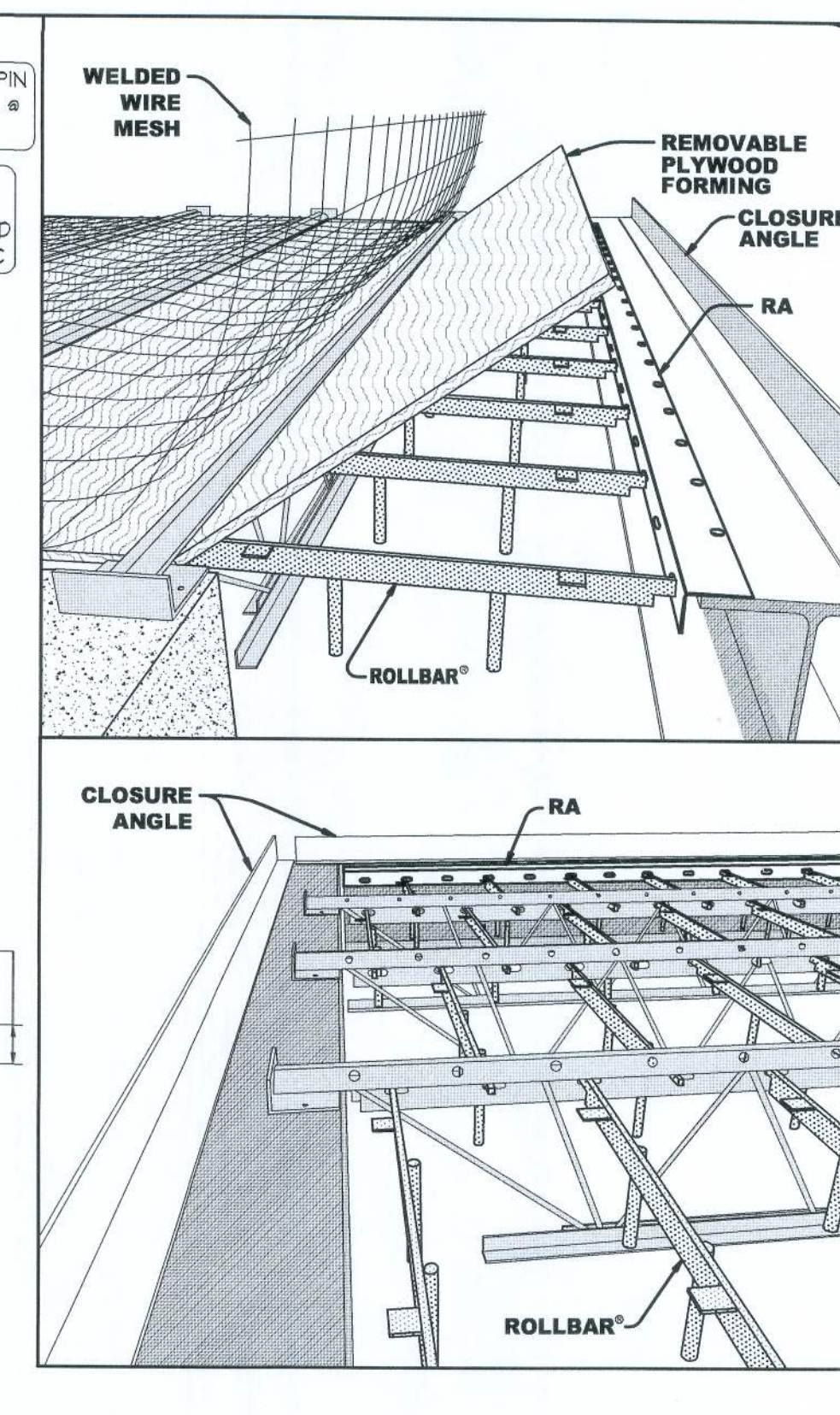
HAMBRO® JOIST BEARING ON STEEL BEAMS, CHANNELS OR ANGLES




HAMBRO® JOIST BEARING ON WOOD WALL OR HEADER



HAMBRO® JOIST BEARING ON METAL STUD WALL OR HEADER





ASSOCIATE

INSTALLER:
ALL JOISTS SHALL BE ERECTED IN SUCH A MANNER SO THAT THEY ARE VERTICAL, LEVEL AND PLUMB AND AT PROPER ELEVATIONS. ANY SHIMMING THAT MAY BE REQUIRED SHALL BE DONE WITH METAL.

NOTE:
INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND WITH THE "INSTALLATION MANUAL FOR THE HAMBRO D500 COMPOSITE FLOOR SYSTEM" AND / OR SHEET HD5- OF THE FIELD USE SET OF PLANS.

CUSTOMER:
SEVEN PALMS CONSTRUCTION

ARCHITECT:
DISOSWAY DESIGN GROUP, INC.

ENGINEER:

PROJECT NAME:
CHRIS & DORA MARTIN RESIDENCE

PROJECT LOCATION:
COLUMBIA CITY, FL

SHEET TITLE:
HAMBRO STANDARD JOIST BEARING DETAILS

NOTE: CERTIFICATION EXTENDS ONLY TO MATERIAL DESIGNED AND FURNISHED BY CANAM STEEL.

IAN H. YAP, P.E.
FL # 59557



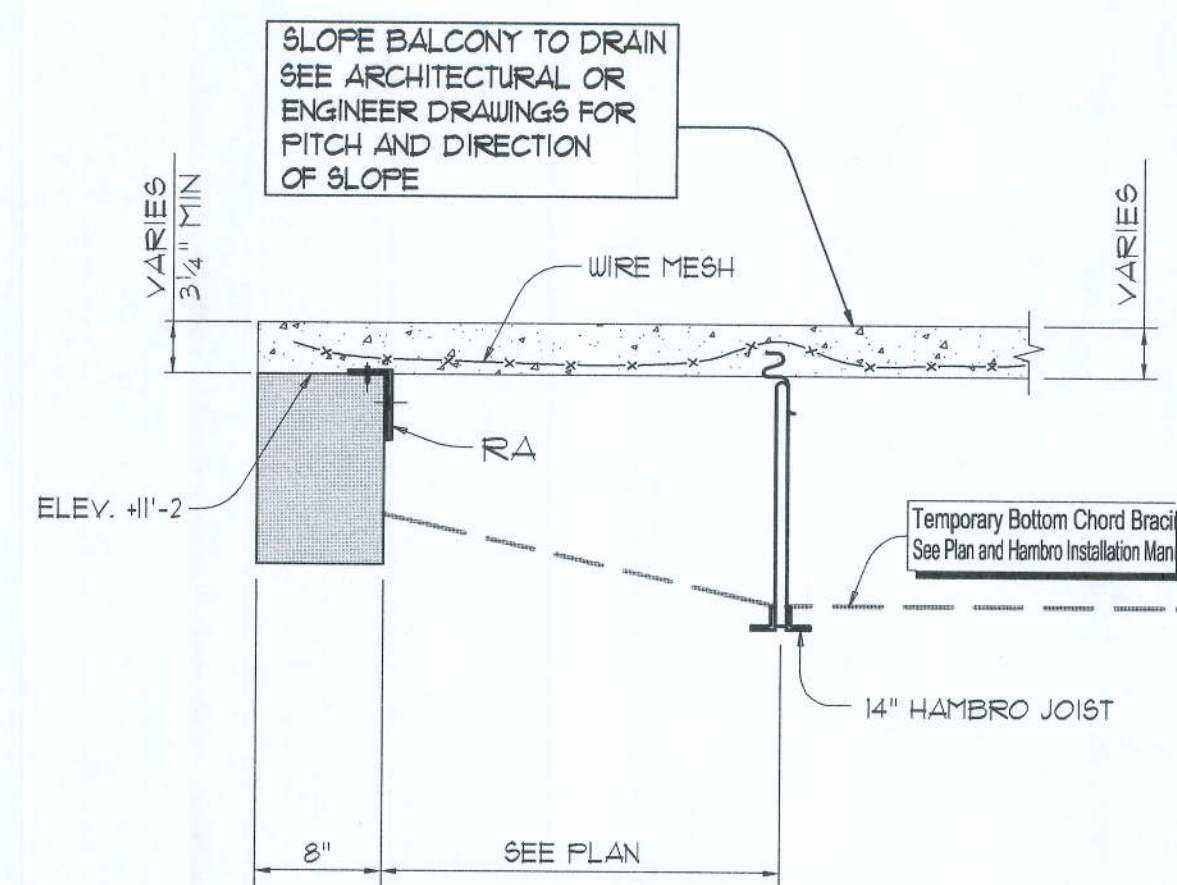
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450 E. Hillsboro Blvd. • Deerfield Beach, FL 33441
(Phone) 954-571-3030 • 800-546-9008 • (FAX) 954-571-3031
Email: Hambroeng@Hambrowe.com • Web Site: www.Hambrowe.com

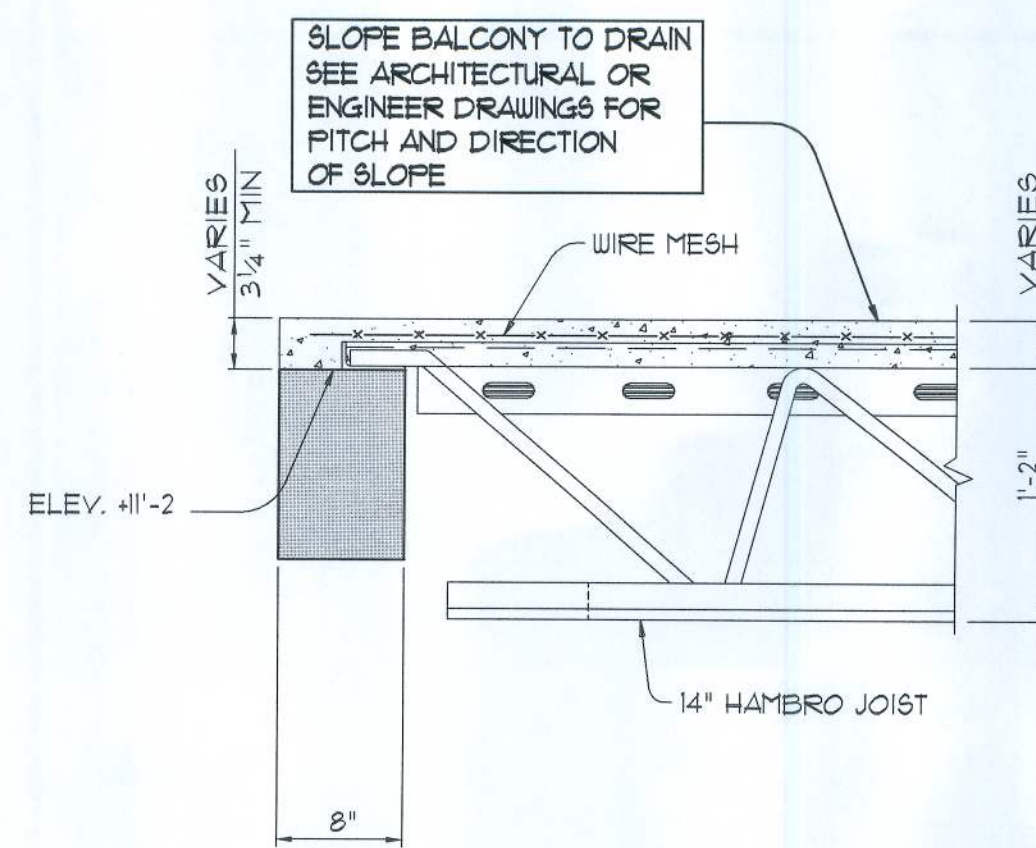
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JOB NUMBER: H9060	DRAWING NUMBER: HSJ-1		REVISION: 0

07/27/07 (24x36x17) (3-6x25-3)

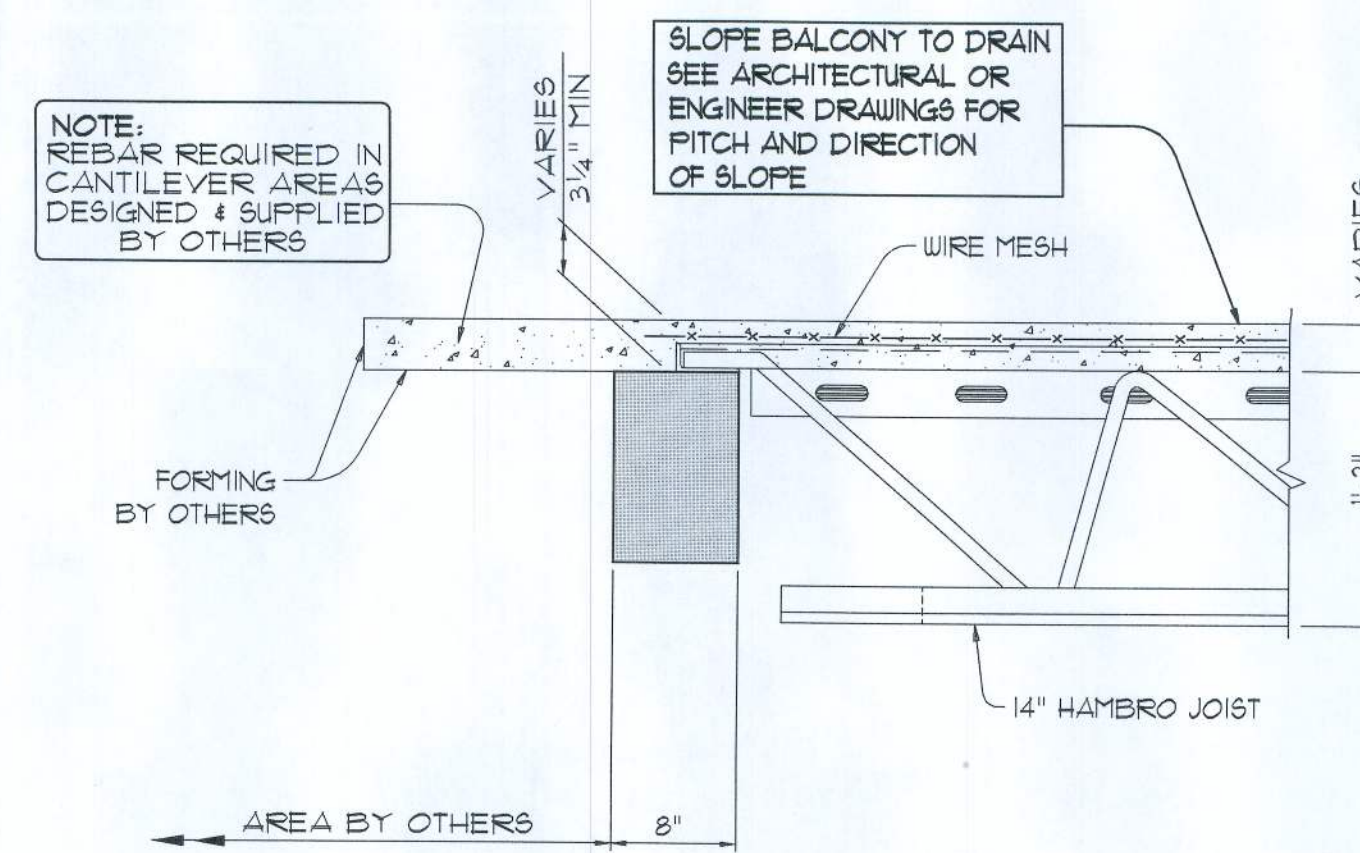
RECEIPT OF ELECTRONIC VERSIONS OF ANY HAMBRO DRAWING DOES NOT IMPLY PERMISSION TO PRINT OR USE THE DRAWINGS BEYOND THE LICENSE PERMIT



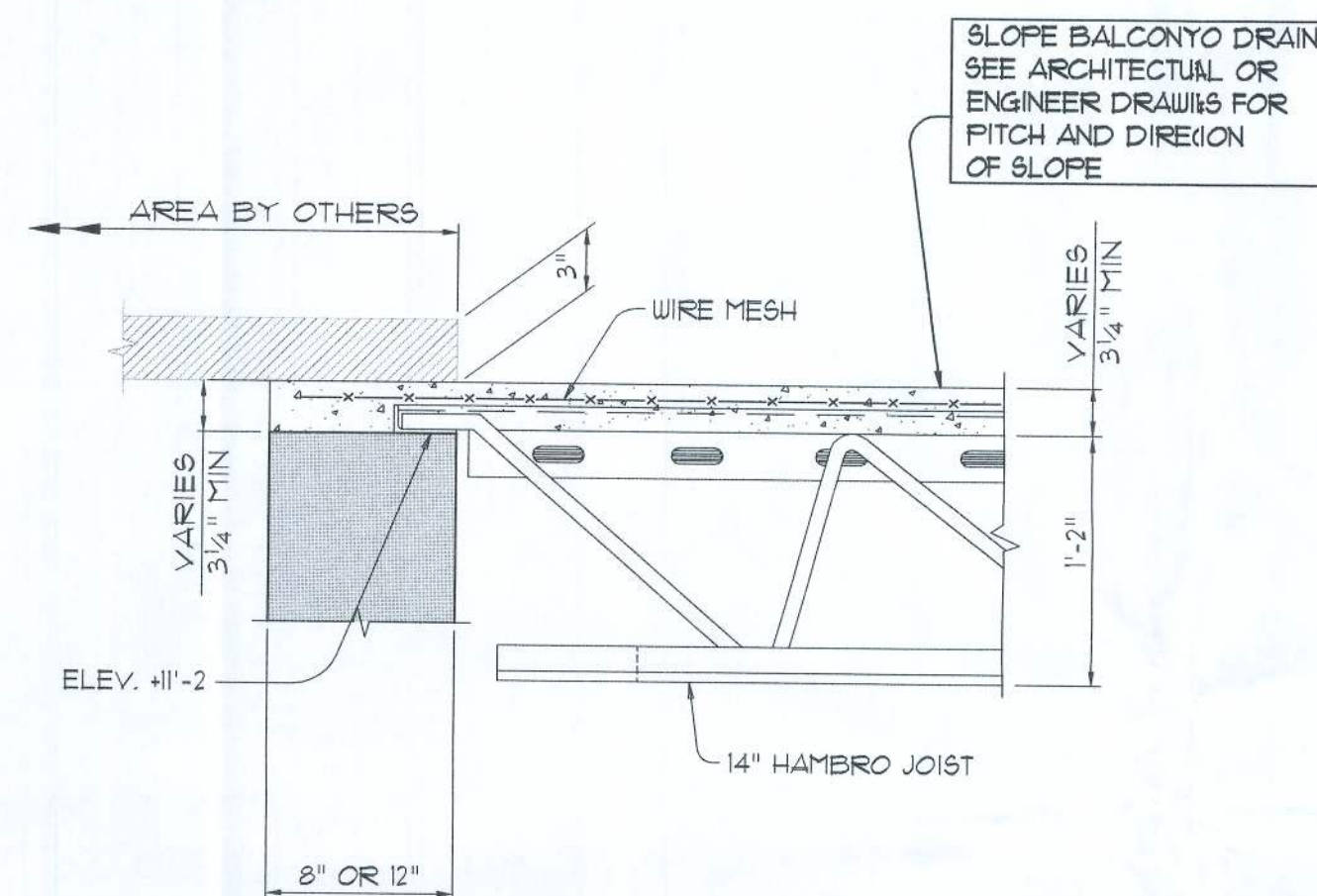
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HAMBRO JOISTS AND ACCESSORIES



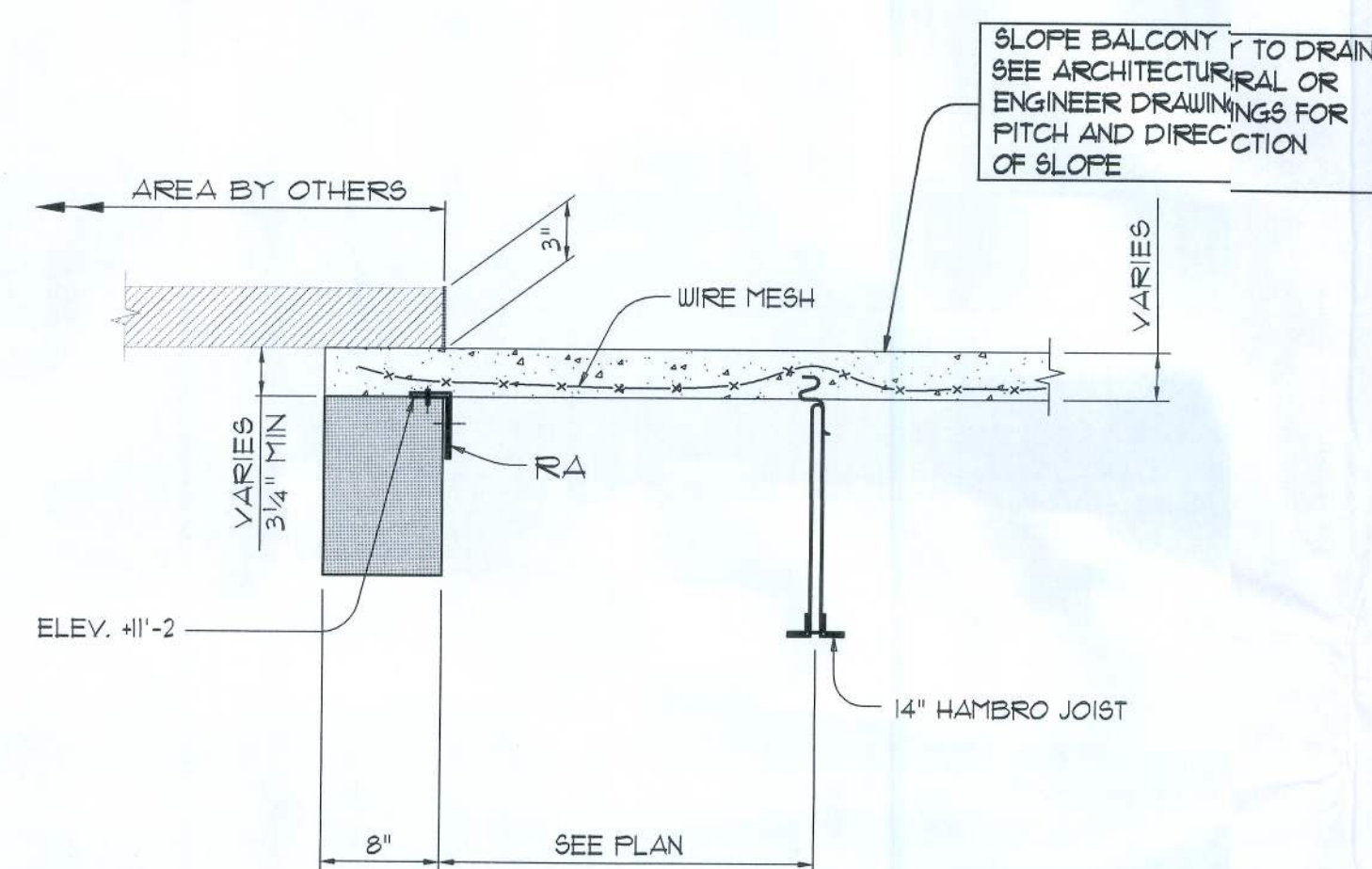
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HAMBRO JOISTS AND ACCESSORIES



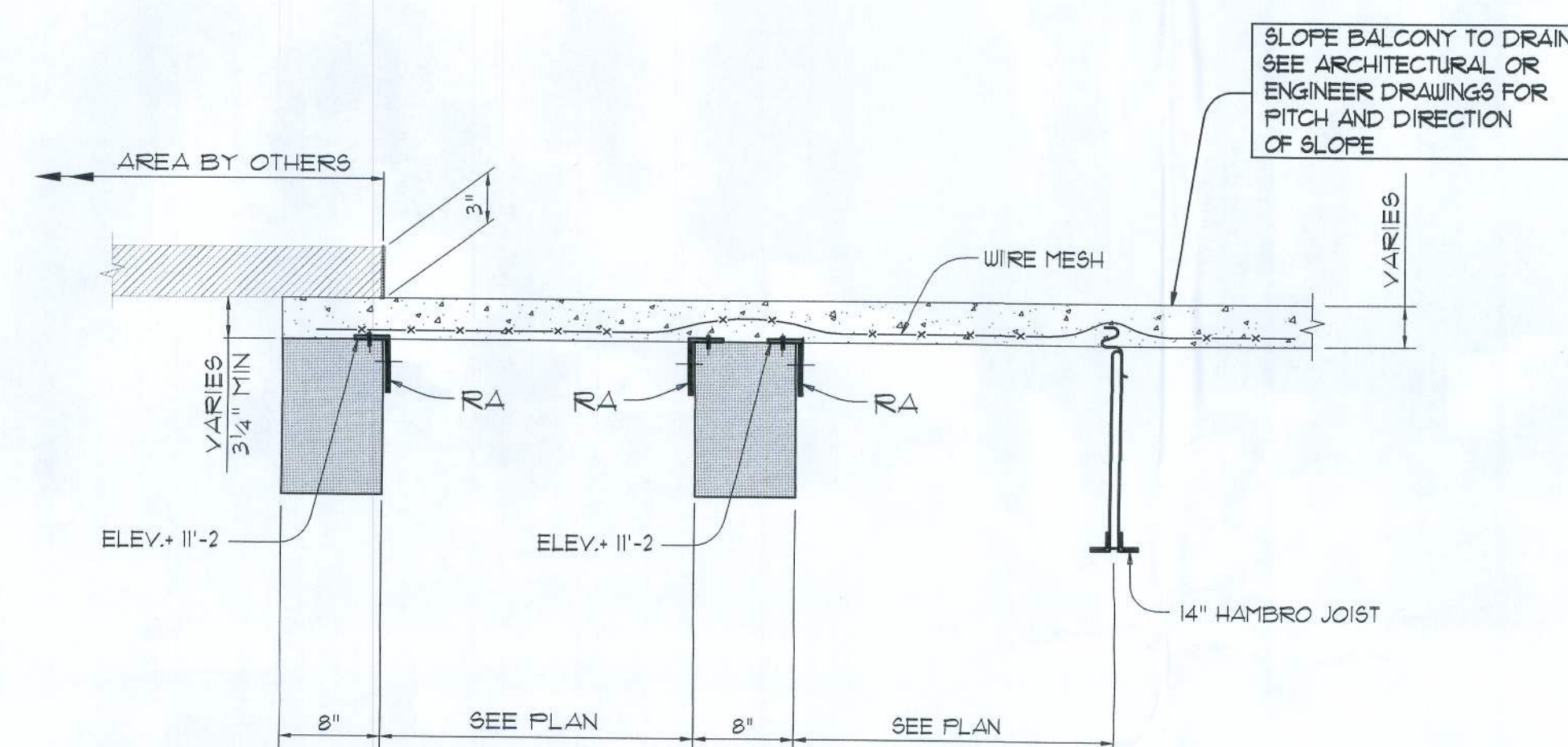
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HAMBRO JOISTS AND ACCESSORIES



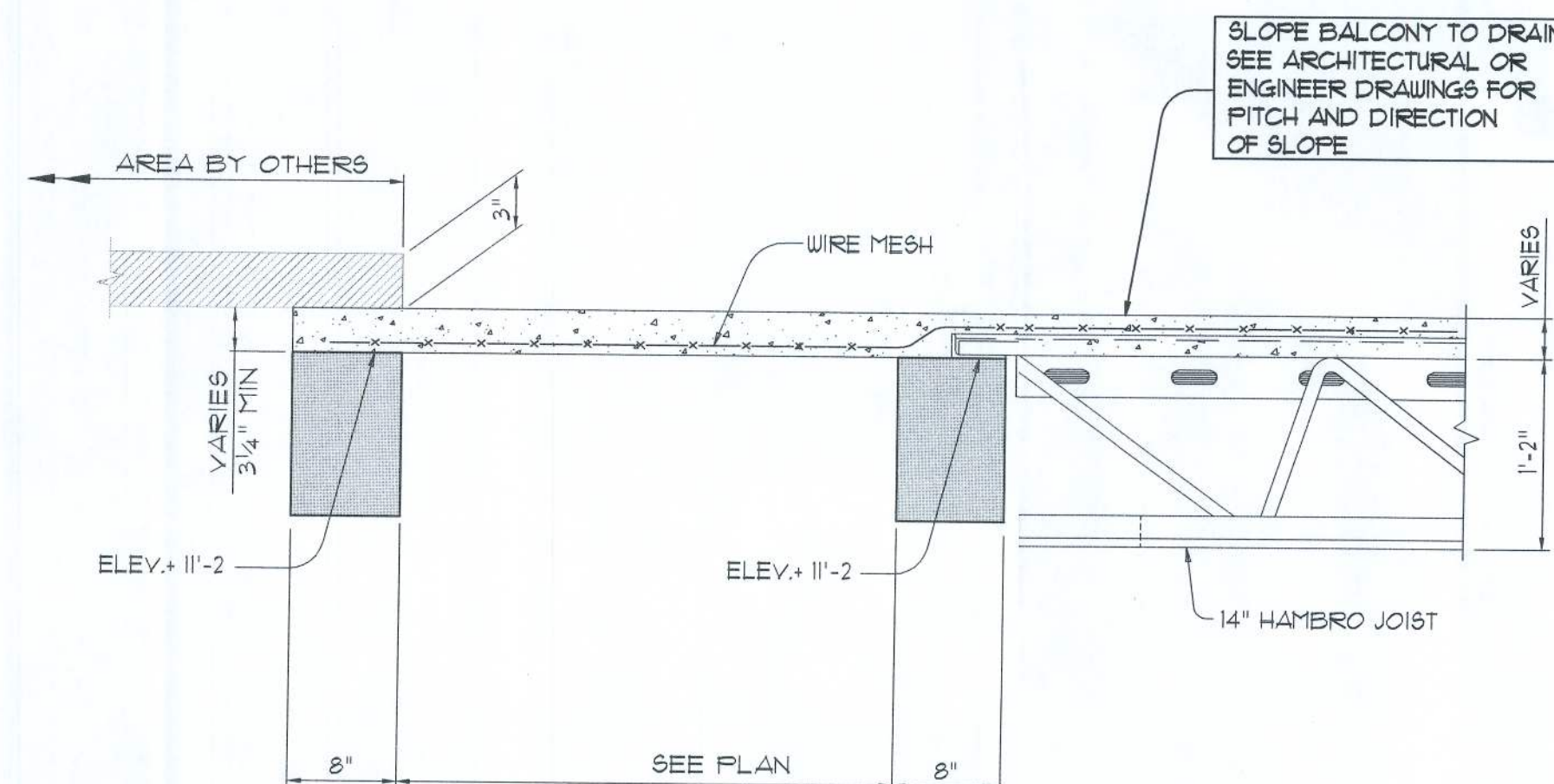
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REFERENCE SHEET HS2-1 FOR DETAILS OF
HAMBRO JOISTS AND ACCESSORIES



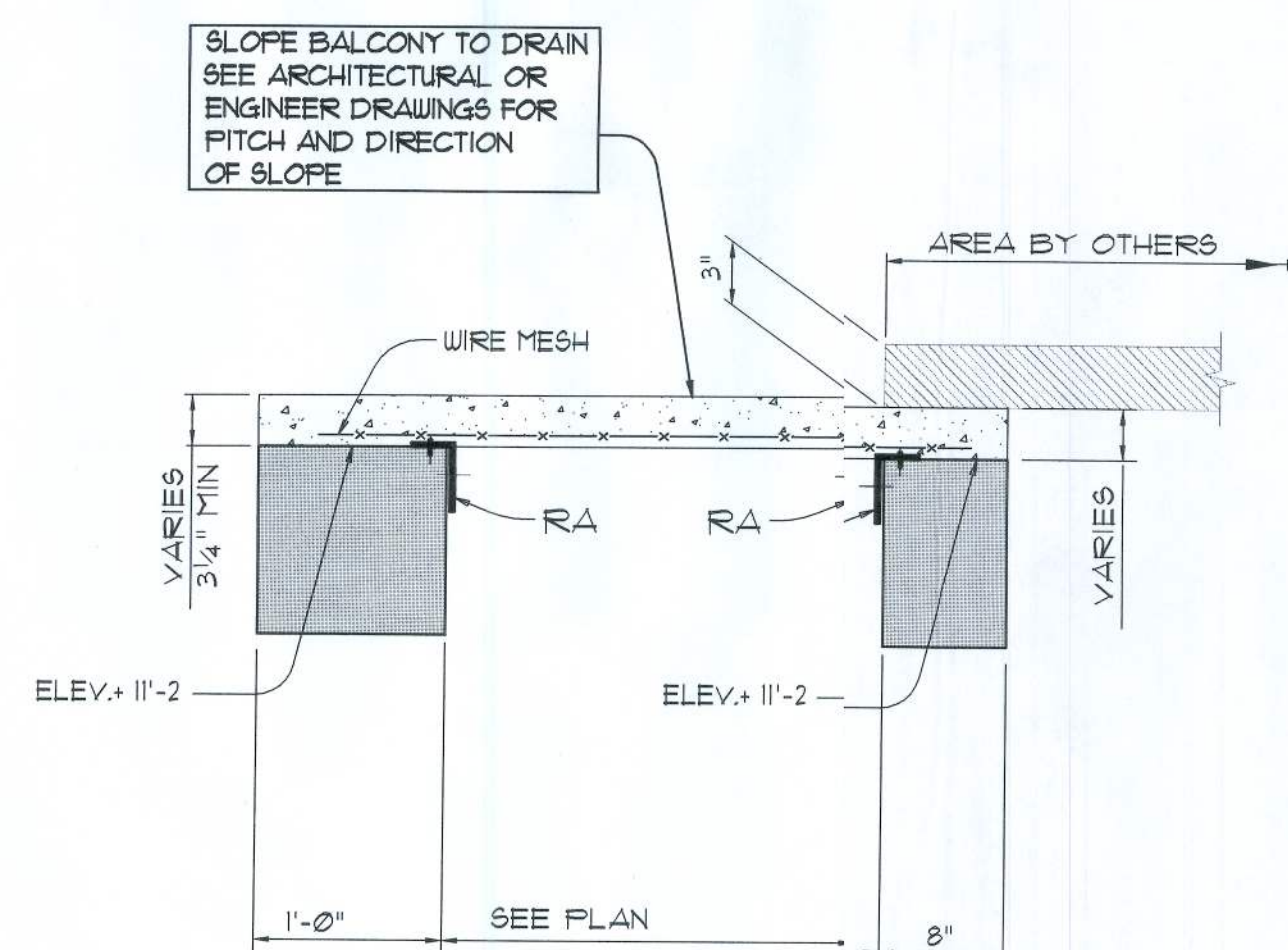
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REFERENCE SHEET HS2-1 FOR DETAILS OF
HAMBRO JOISTS AND ACCESSORIES



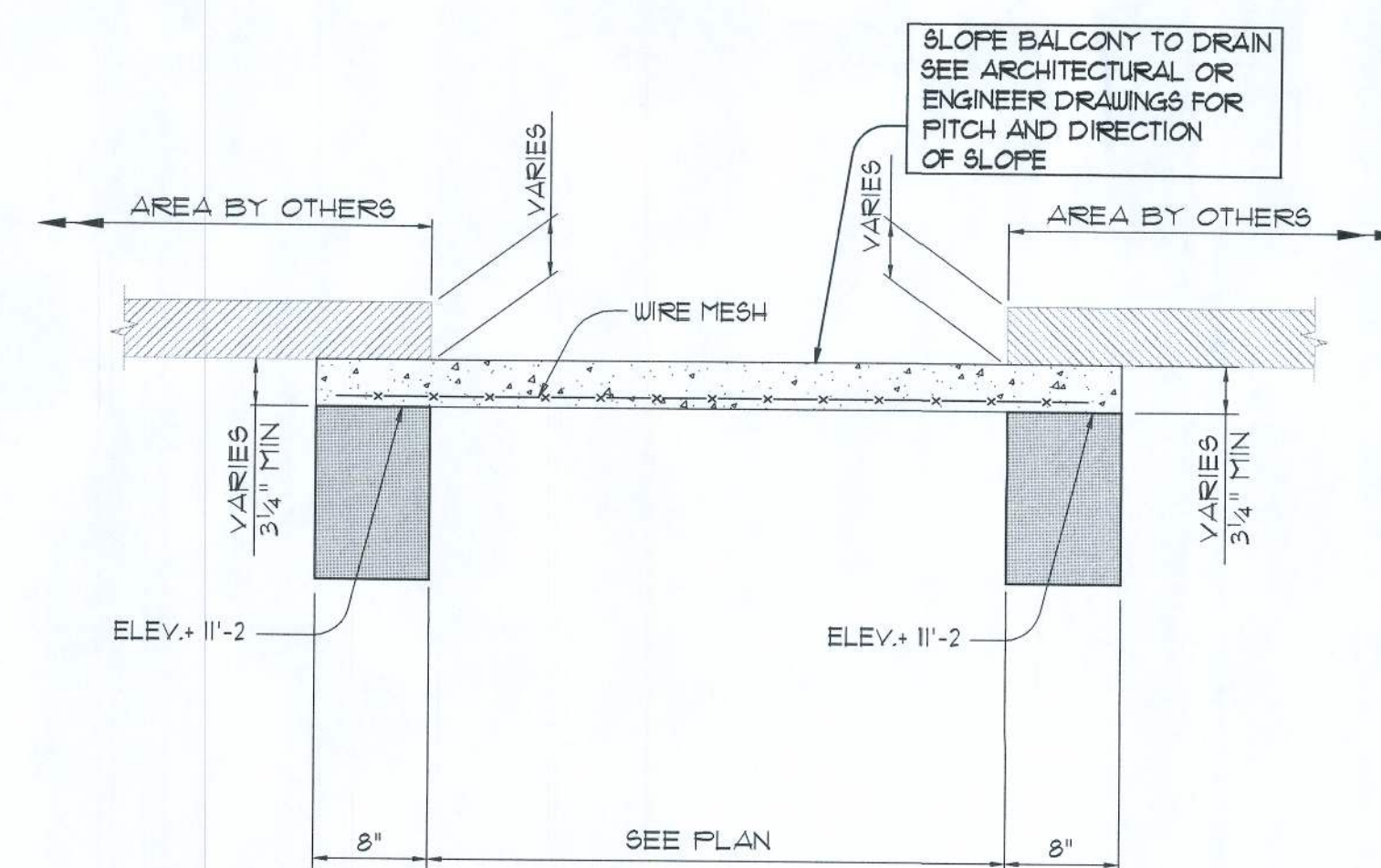
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REFERENCE SHEET HS2-1 FOR DETAILS OF
HAMBRO JOISTS AND ACCESSORIES



SECTION - G
REFERENCE SHEET HS2-1 FOR DETAILS OF
HAMBRO JOISTS AND ACCESSORIES



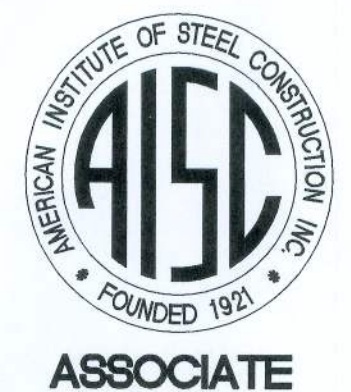
SECTION - H
REFERENCE SHEET HS2-1 FOR DETAILS OF
HAMBRO JOISTS AND ACCESSORIES



SECTION - J
REFERENCE SHEET HS2-1 FOR DETAILS OF
HAMBRO JOISTS AND ACCESSORIES

LEGEND

HAMBRO JOISTS AND MATERIAL
RA DENOTES FIELD ATTACHED ROLLBAR® ANGLE (AKA MH OR RH)
WELDED WIRE MESH
WELDED WIRE MESH SIZE: W40 x W40 (TYPICAL)
SUPPLIED BY: CANAM STEEL
BEARING WALLS OR HEADERS (DESIGNED & SUPPLIED BY OTHERS)
INDICATES LOAD BEARING 8" OR 12" MASONRY WALL OR CONC. BEAM



REV.	DATE	DESCRIPTION
1		
2		
3		
4		
5		

INSTALLER:
ALL JOISTS SHALL BE ERECTED IN SUCH A MANNER
SO THAT THEY ARE VERTICAL, LEVEL AND PLUMB
AND AT PROPER ELEVATIONS. ANY SHIMMING THAT
MAY BE REQUIRED SHALL BE DONE WITH METAL.

NOTE:
INSTALLATION SHALL BE IN ACCORDANCE WITH THE
MANUFACTURER'S RECOMMENDATIONS AND WITH THE
"INSTALLATION MANUAL FOR THE HAMBRO D500
COMPOSITE FLOOR SYSTEM" AND / OR SHEET HDS-10F
THE FIELD USE SET OF PLANS.

CUSTOMER:
SEVEN PALMS CONSTRUCTION
ARCHITECT:
DISOSWAY DESIGN GROUP, INC.
ENGINEER:

PROJECT NAME:
**CHRIS & DORA MARTIN
RESIDENCE**

PROJECT LOCATION:
COLUMBIA CITY, FL

SHEET TITLE:
HAMBRO SECTIONS & DETAILS

NOTE: CERTIFICATION
EXTENDS ONLY TO
MATERIAL DESIGNED
AND FURNISHED BY
CANAM STEEL

IAN H. YAP, P.E.
FL # 59557

IAN H. YAP
LICENSE
No. 6957
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

HAMBRO
Structural Systems
A Division of Canam Steel Corp.

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(Phone) 954-571-3030 • 800-546-9008 • (FAX) 954-571-3031
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DRAWN BY: SDW	DATE: 11/2/09	CHECKED BY: LA	DATE: 5-23-10
JOB NUMBER: H9060	REVISION: 0	DRAWING NUMBER: HS1-2	

BALCONY

REVISIONS

SOFTPLAN
ARCHITECTURAL DESIGN FOR FRAME

STRUCTURAL PLAN NOTES

- S-1 ALL LOAD BEARING FRAME WALL & PORCH HEADERS SHALL BE A MINIMUM OF (2) 2X10 SYP#2 (U.N.O.)
- S-2 ALL LOAD BEARING FRAME WALL HEADERS SHALL HAVE (1) JACK STUD & (1) KING STUD EACH SIDE (U.N.O.)
- S-3 DIMENSIONS ON STRUCTURAL SHEETS ARE NOT EXACT. REFER TO ARCHITECTURAL FLOOR PLAN FOR ACTUAL DIMENSIONS
- S-4 PERMANENT TRUSS BRACING IS TO BE INSTALLED AT LOCATIONS AS SHOWN ON THE SEALED TRUSS DRAWINGS. LATERAL BRACING IS TO BE RESTRAINED PER BCSI-03, BCSI-B1, BCSI-B2, & BCSI-B3. BCSI-B1, BCSI-B2, & BCSI-B3 ARE FURNISHED BY THE TRUSS SUPPLIER, WITH THE SEALED TRUSS PACKAGE

TREADED ROD LEGEND

- INDICATES LOCATION OF:
1ST FLOOR 1/2" A307 ALL TREADED ROD
- INDICATES LOCATION OF:
2ND FLOOR 1/2" A307 ALL TREADED ROD

HEADER LEGEND

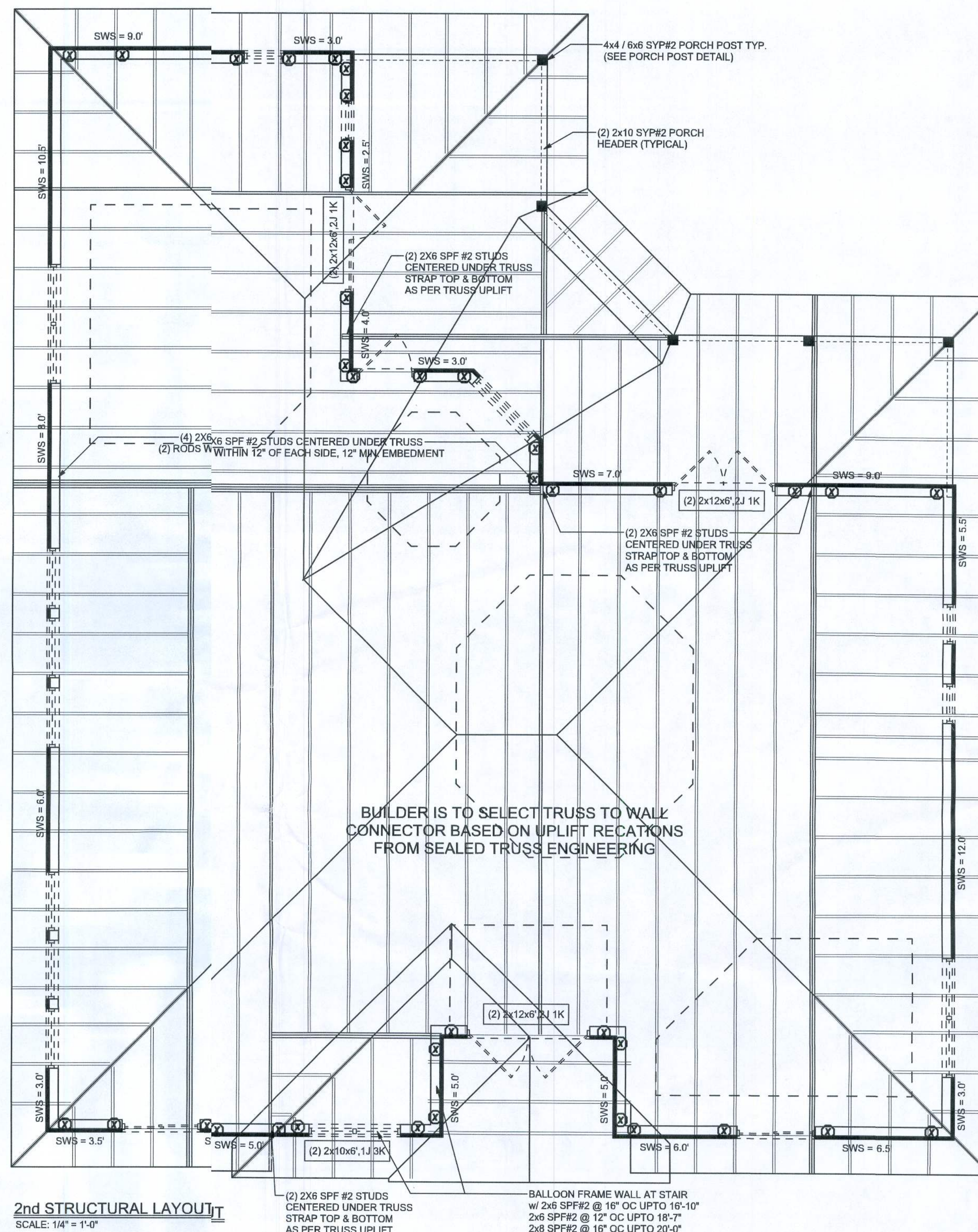
- (2X12X0',1J 1K) HEADER/BEAM CALL-OUT (U.N.O.)
- NUMBER OF KING STUDS (FULL LENGTH)
- NUMBER OF JACK STUDS (UNDER HEADER)
- SPAN OF HEADER
- SIZE OF HEADER MATERIAL
- NUMBER OF PLIES IN HEADER

DETAIL SHEAR WALL SEGMENTS

	REQUIRED	ACTUAL
TRANSVERSE	27.6'	64.5'
LONGITUDINAL	35.1'	52.0'

2ND FLOOR WALL LEGEND

	EXTERIOR FRAMED WALL
	BLOCK WALL
	INTERIOR LOAD BEARING WALL w/ NO UPLIFT
	INTERIOR LOAD BEARING WALL w/ UPLIFT



2nd STRUCTURAL LAYOUT
SCALE: 1/4" = 1'-0"

WINDLOAD ENGINEER:
Mark Disosway P.E.
No. 53915, P.O. Box 868, Lake City, FL 32056,
386-754-5419

DIMENSIONS:
Stated dimensions supercede scaled dimensions. Refer all questions to Mark Disosway P.E. for resolution. Do not proceed without clarification.

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CERTIFICATION: I hereby certify that I have examined this plan, and that the applicable portions of the plan, relating to wind engineering comply with section F301.2.1, Florida building code residential 2007 and 2009 Supplements, to the best of my knowledge.

LIMITATION: This design is valid for one building, at specified location.

MARK DISOSWAY
P.E. 53915

22 APR 10
SEAL

Chris & Dora
Martin

ADDRESS:
Columbia County, Florida

Mark Disosway P.E.
P.O. Box 868
Lake City, Florida 32056
Phone: (386) 754 - 5419
Fax: (386) 269 - 4871

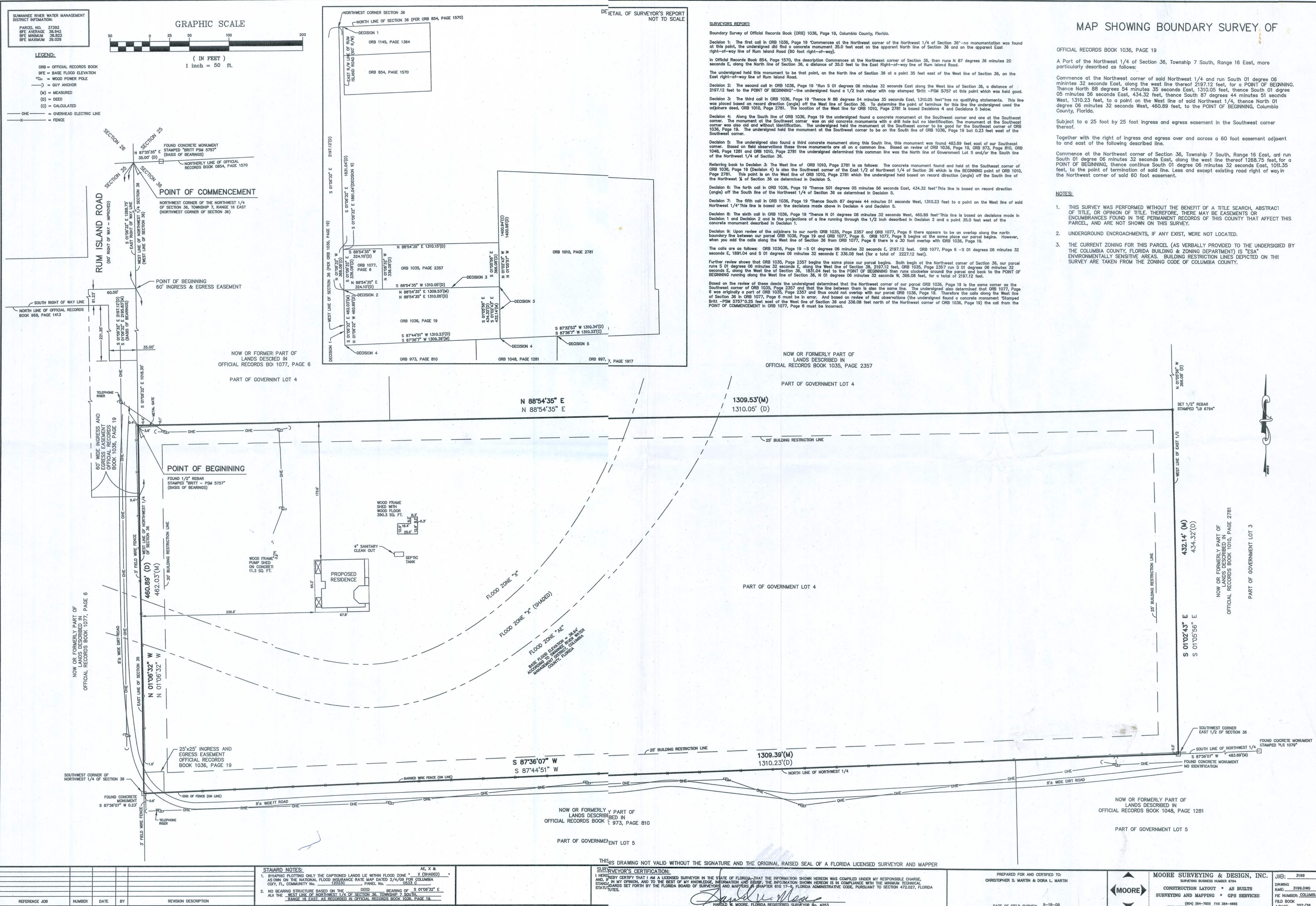
PRINTED DATE:
Apr 20, 2010

DRAWN BY: David Disosway
STRUCTURAL BY: David Disosway

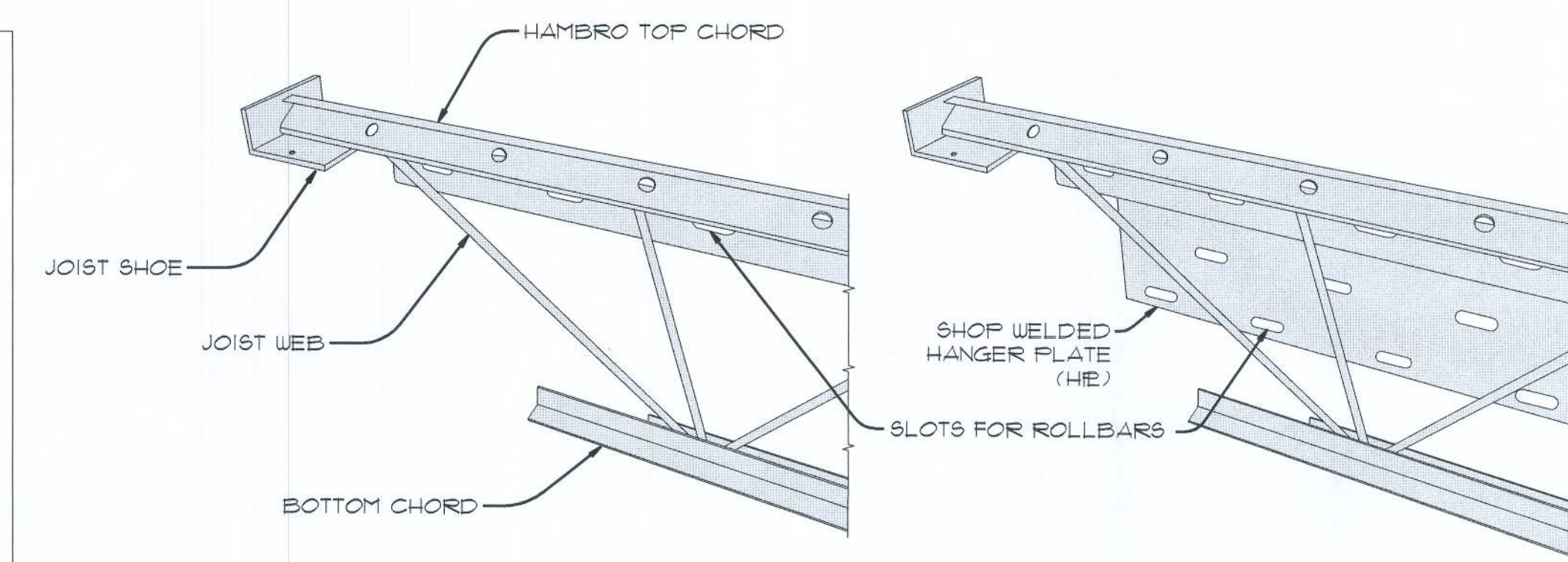
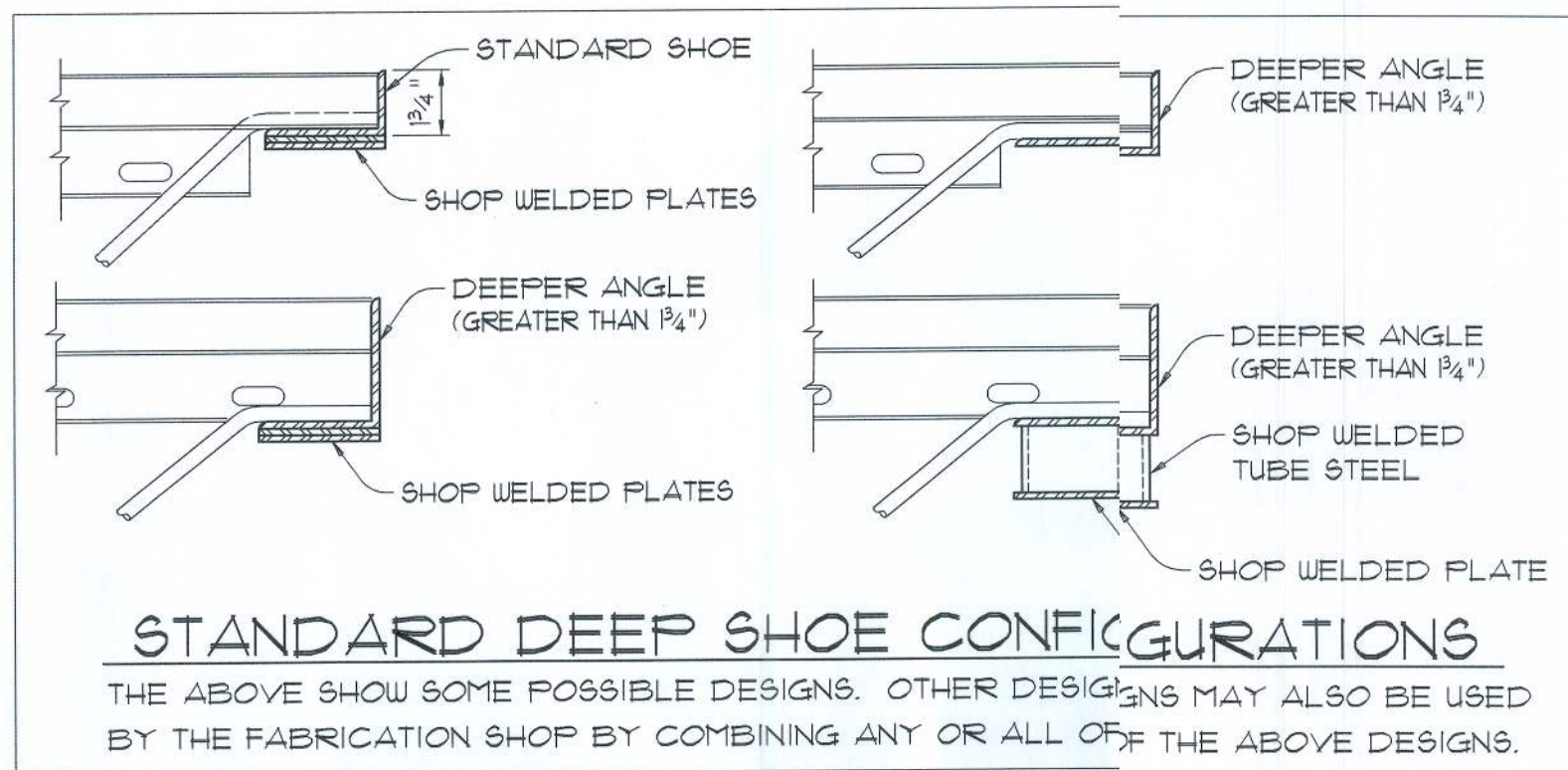
FINALS DATE:
Dec. 30, 2009

JOBNUMBER:
311211
DRAWING NUMBER

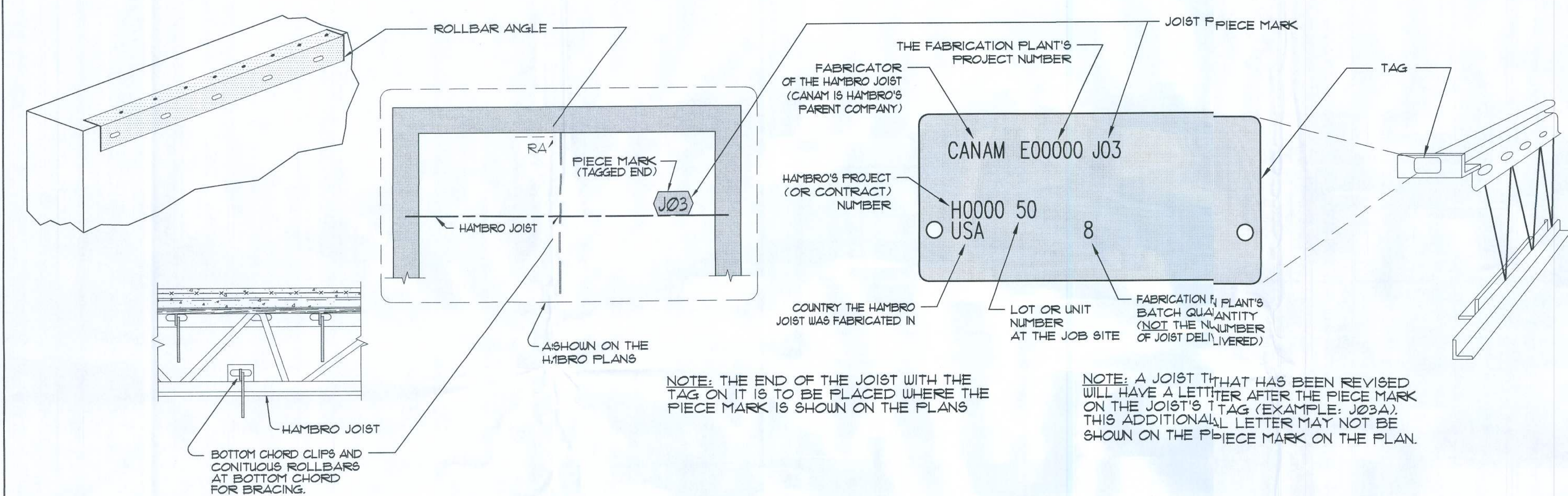
S-4
11 SHEETS



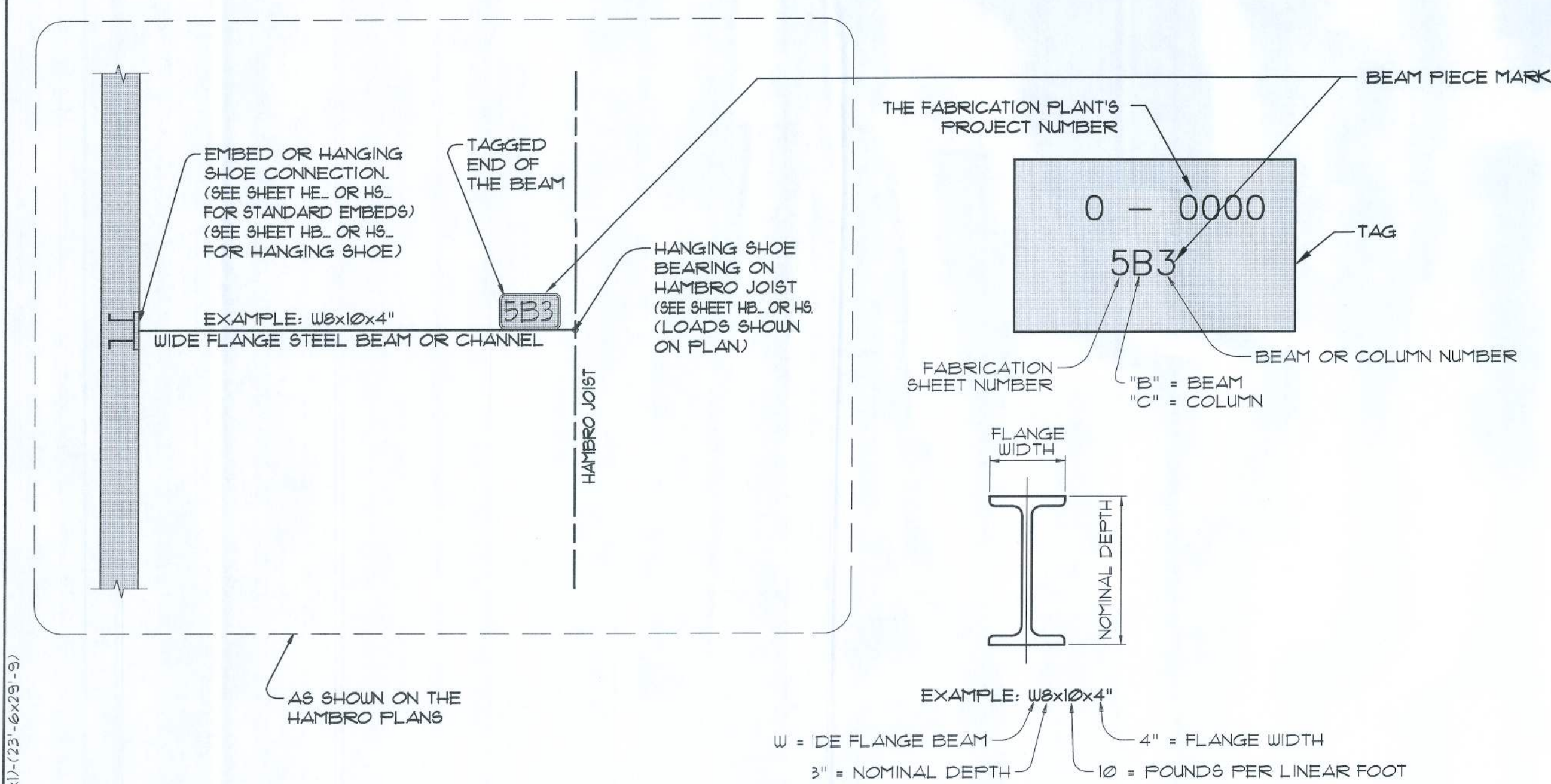
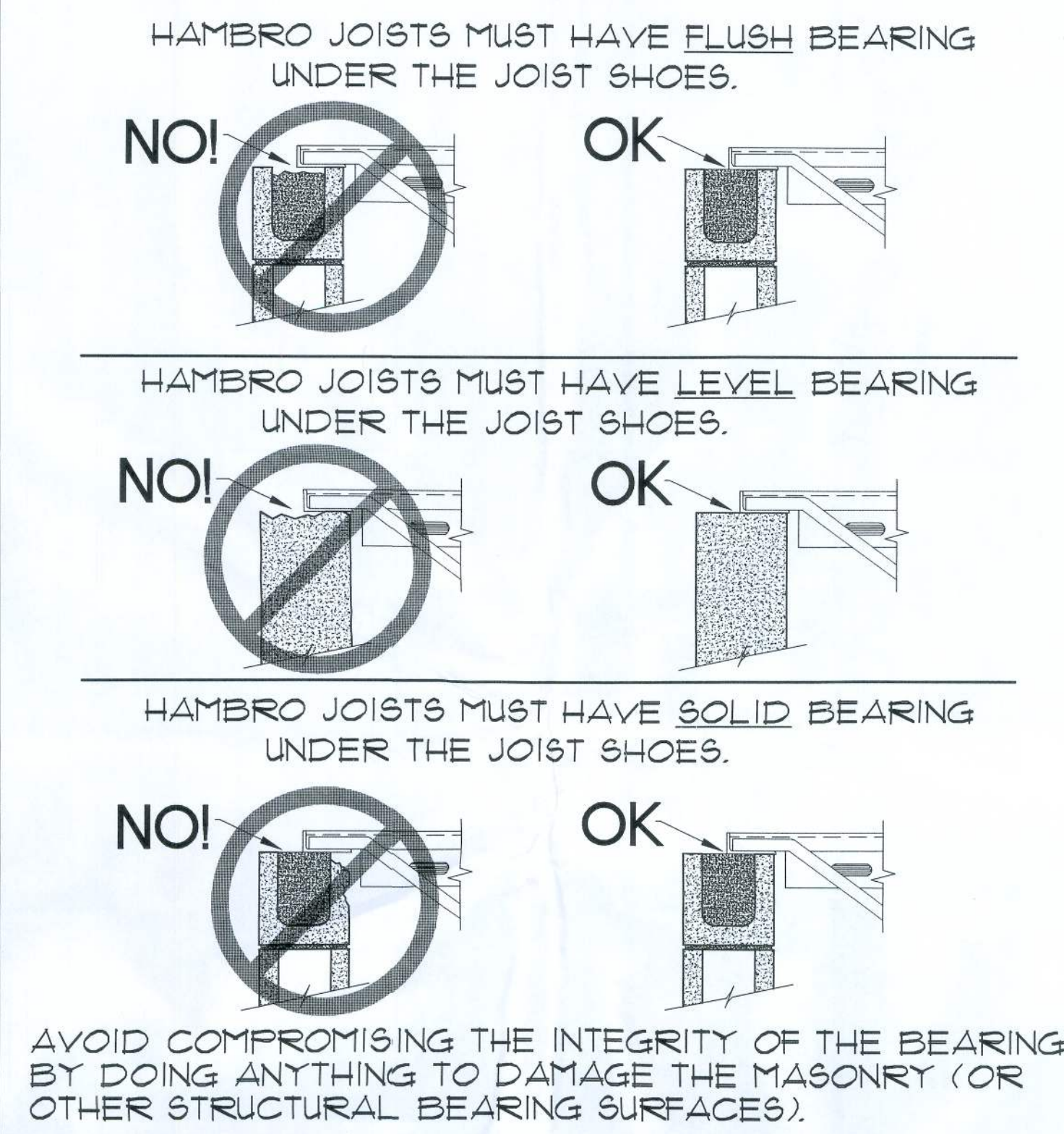
MAXIMUM WEB OPENING (HAMBRO D500 JOISTS)					
d	P	D	S	R	
8"	17"	4"	4"	6"x3"	
10"	18"	6"	5"	6"x4"	
12"	19"	7-1/2"	5"	6"x4"	
14"	21"	8"	6"	8"x4"	
16"	24"	10"	7"	10"x4"	
18"	24"	11"	8"	10"x6"	
20"	24"	12"	9"	12"x6"	
22"	24"	12"	9"	12"x6"	
24"	24"	13"	10"	12"x6"	



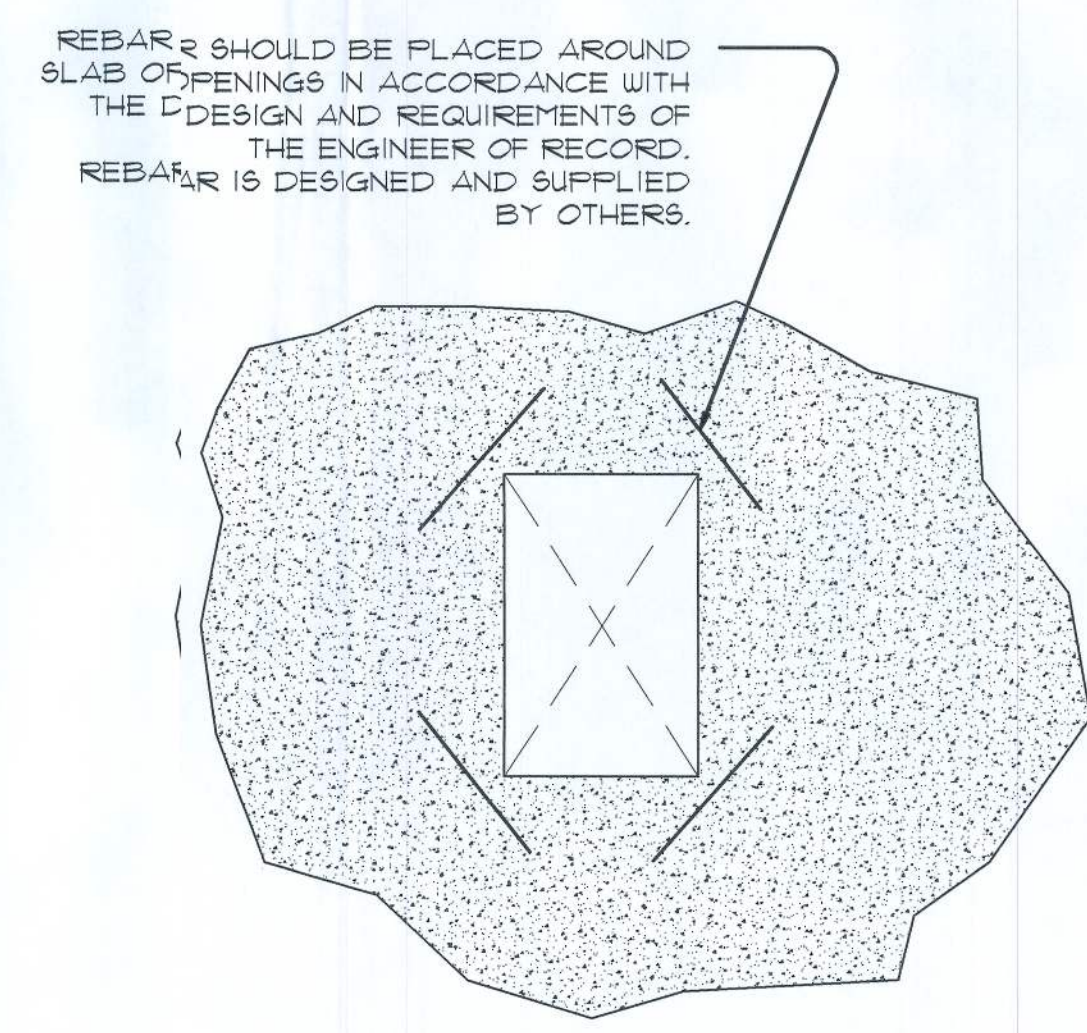
HAMBRO JOIST TERMINOLOGY



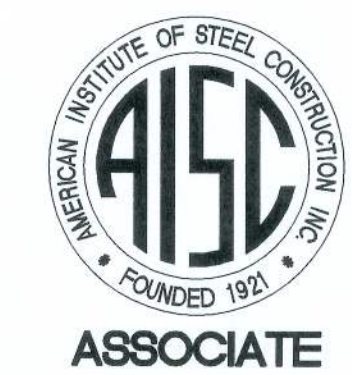
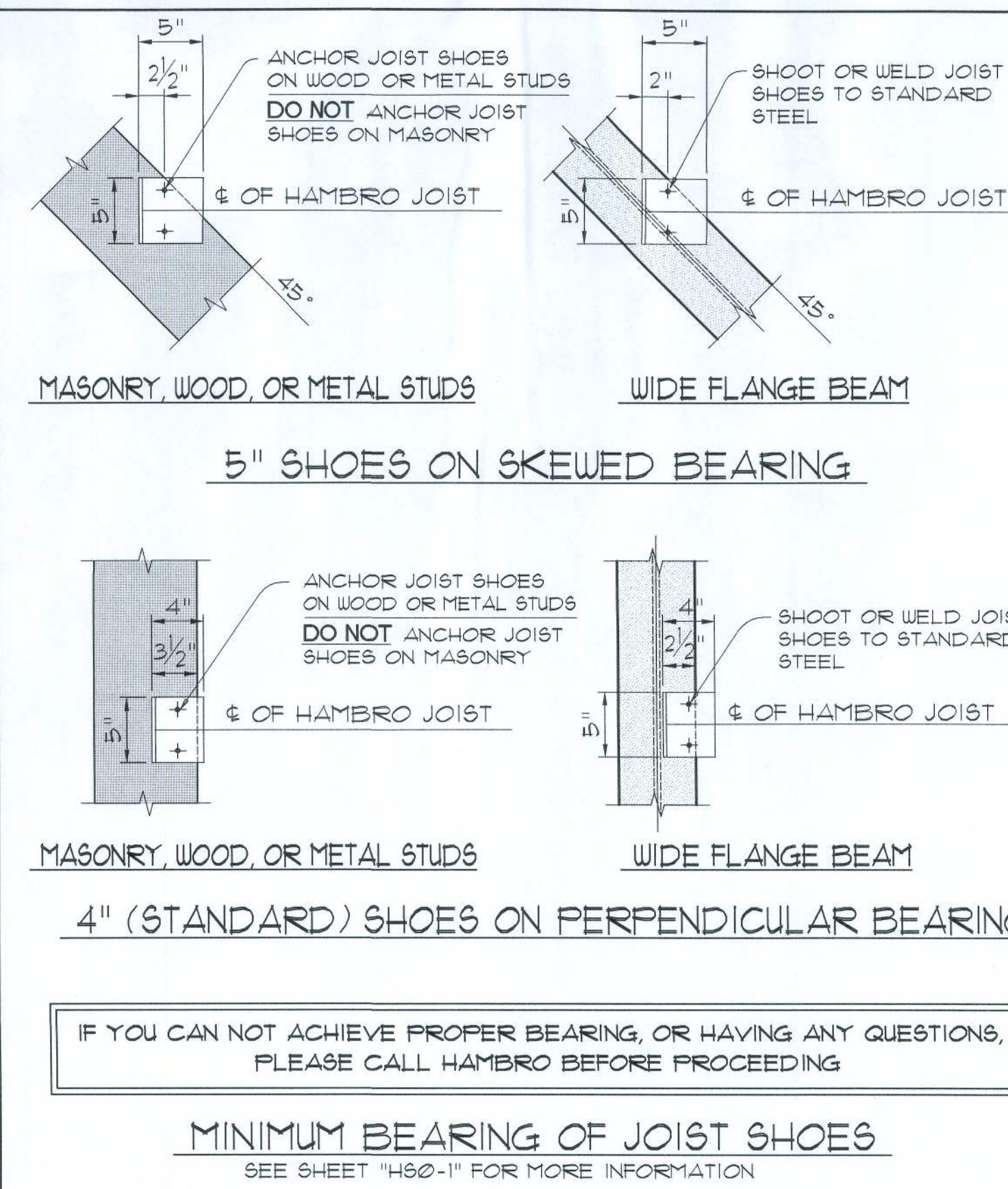
HAMBRO JOIST COMPONENTS AND ACCESSORIES



STRUCTURAL STEEL NOMENCLATURE
(APPLIES ONLY FOR STRUCTURAL STEEL SUPPLIED BY CANAM STEEL (HAMBRO))



REINFORCING AT OPENINGS IN THE SLAB



INSTALLER:
ALL JOISTS SHALL BE ERECTED IN SUCH A MANNER SO THAT THEY ARE VERTICAL, LEVEL AND PLUMB AND AT PROPER ELEVATIONS. ANY SHIMMING THAT MAY BE REQUIRED SHALL BE DONE WITH METAL.

NOTE:
INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND WITH THE "INSTALLATION MANUAL FOR THE HAMBRO D500 COMPOSITE FLOOR SYSTEM" AND / OR SHEET H051 OF THE FIELD USE SET OF PLANS.

CUSTOMER:
SEVEN PALMS CONSTRUCTION

ARCHITECT:
DISOSWAY DESIGN GROUP, INC.

ENGINEER:

PROJECT NAME:
CHRIS & DORA MARTIN RESIDENCE

PROJECT LOCATION:
COLUMBIA CITY, FL

SHEET TITLE:
HAMBRO JOIST, STRUCTURAL STEEL, AND SLAB GENERAL INFORMATION


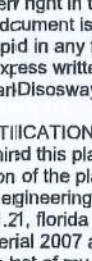
NOTE: CERTIFICATION EXTENDS ONLY TO MATERIAL DESIGNED AND FURNISHED BY CANAM STEEL.

IAN H. YAP, P.E.
FL # 59557

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450 E. Hillboro Blvd. • Deerfield Beach, FL 33441 (Phone) 954-571-3030 • 800-546-9008 • (FAX) 954-571-9031 Email: Hambroeng@hambro.com • Web Site: www.Hambro.com	
DRAWN BY: SDW	DATE: 11/2/09
CHECKED BY: LA	DATE: 5-3-10
JOB NUMBER: H9060	DRAWING NUMBER: HN0-2

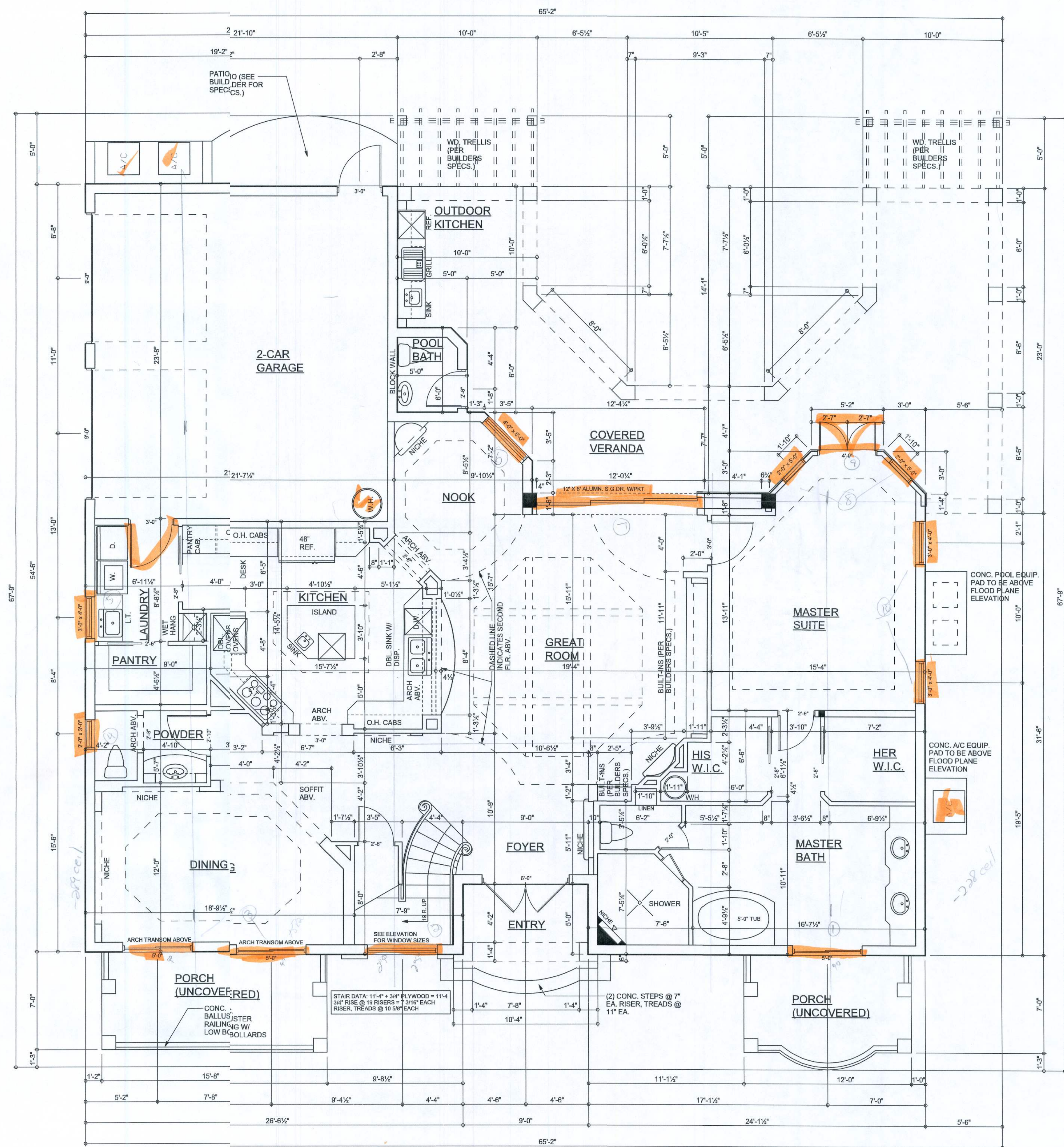
07/12/07 (24x36x10)-123-6x25-13

THIS SHEET IS THE PROPERTY OF HAMBRO. IT IS TO BE USED ONLY FOR THE PROJECT AND LOCATION SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF HAMBRO. THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND APPROVALS FOR ANY REVISIONS TO THIS SHEET.

REVISIONS							
<div></div>							
<div><p>WINDOZ ENGINEER Mark Disoway, PE No.5395, POB 888, Lake City, FL 32056, 386-75-5419</p><p>DIMENSIONS: Stated dimensions supersede scaled dimensions. Refer all questions to Mark Disoway, P.E. for resolution. Do not reschedule without clarification.</p><p>COPYRIGHTS AND PROPERTY RIGHTS: Mark Disoway, P.E. hereby expressly reserve its common law copyrights and property right in these instruments of service. This document is not to be reproduced, altered or copied in any form or manner without first the express written permission and consent of MarkDisoway.</p><p>CERTIFICATION: I hereby certify that I have examined this plan, and that the applicable portion of the plan, relating to wind engineering comply with section R301.21, Florida building code residential 2007 and 2009 Supplements, to the best of my knowledge.</p><p>LIMITATION: This design is valid for one building at specified location.</p><div><p>MARK DISOWAY P.E. 53915</p><p>SEAL</p></div></div>							
<div><p><u>Chris & Dora</u> <u>Martin</u></p><p>ADDRESS: Columbia County, Florida</p></div>							
<div><p>Mark Disoway P.E. P.O. Box 868 Lake City, Florida 32056 Phone: (386) 754 - 5419 Fax: (386) 269 - 4871</p><p>PRINTED DATE: April 20, 2010</p><table><tr><td>DRAWN BY: Dave Disoway</td><td>STRUCTURAL BY: David Disoway</td></tr></table><table><tr><td>FINAS DATE: Dec. 0, 2009</td><td></td></tr></table><div><p>JOB NUMBER: 811211</p><p>DRAWING NUMBER S-1.1</p><p>OF 11 SHEETS</p></div></div>				DRAWN BY: Dave Disoway	STRUCTURAL BY: David Disoway	FINAS DATE: Dec. 0, 2009	
DRAWN BY: Dave Disoway	STRUCTURAL BY: David Disoway						
FINAS DATE: Dec. 0, 2009							

REVISIONS

SOFTPLAN
ARCHITECTURAL DESIGN FOR TRADE



AREA TABULATION

MAIN LIVING	1,985 SQ. FT.
SECOND FLOOR	1,468 SQ. FT.
PACEMENT <i>Deleted</i>	1,897 SQ. FT.
TOTAL LIVING AREA	5,350 SQ. FT.
VERANDA	550 SQ. FT.
BALCONY	625 SQ. FT.
GARAGE	508 SQ. FT.
ENTRY	50 SQ. FT.
TOTAL	7,083 SQ. FT.

1ST FLOOR PLAN
SCALE: 1/4" = 1'-0"

Chris & Dora
Martin

ADDRESS:
Columbi County, Florida

PRINTED DATE:
April 2, 2010

FINALS DATE:
Dec. 30, 2009

JOB NUMBER:
811211

DRAWING NUMBER

#3

OF 11 SHEETS

01/27/07 (24x36x1/2) (34'-0"x18'-0")

LEGEND

HAMBRO JOISTS AND MATERIAL

NOTE: HAMBRO JOISTS ARE NOT DESIGNED TO SUPPORT ROOF LOADS (UNLESS NOTED)

⬢ DENOTES TAGGED END OF JOIST (PIECE MARK)
RA DENOTES FIELD ATTACHED ROLLBAR® ANGLE (AKA MH OR FH) STRUCTURAL STEEL THAT IS SUPPLIED BY CANAM STEEL
NOTE: ALL STRUCTURAL STEEL NOT SHOWN ON HAMBRO PLAN, OR NOT MARKED WITH A PIECE MARK (SHOWN ABOVE), IS SUPPLIED BY OTHERS.

BEARING WALLS OR HEADERS (DESIGNED & SUPPLIED BY OTHERS)

▬ INDICATES LOAD BEARING 8" OR 12" MASONRY WALL OR CONC. BEAM

SLOPE BALCONY TO DRAIN
SEE ARCHITECTURAL OR
ENGINEER DRAWINGS FOR
PITCH AND DIRECTION
OF SLOPE

SLOPE BALCONY TO DRAIN
SEE ARCHITECTURAL OR
ENGINEER DRAWINGS FOR
PITCH AND DIRECTION
OF SLOPE

SLOPE BALCONY TO DRAIN
SEE ARCHITECTURAL OR
ENGINEER DRAWINGS FOR
PITCH AND DIRECTION
OF SLOPE

TIE BEAM SIZES SHOWN ARE
PER STRUCTURAL DRAWINGS
SHEET S-3 RECEIVED 2-10-10

AREA BY
OTHERS

BALCONY FRAMING PLAN

HIGH POINT TOP OF SLAB ELEV. +11'-6 1/4"
LOW POINT TOP OF SLAB ELEV. +11'-5 1/4"
JOIST BEARING: ELEV. +11'-2 UN. NTD.
3 1/2" NOMINAL CONCRETE SLAB THICKNESS

#2 BALCONY
LL = 100 PSF
DL = 55 PSF
TL = 155 PSF
SLAB = 3 1/2"

HAMBRO JOIST SCHEDULE

MARK	QTY	HAMBRO SIZE	CLR SPAN	BASE	SPCG	SLAB	PL.	REMARKS
J20	1	H14/636	21'-8"	22'-5"	4.1	3 1/2	NA	-
J21	1	H14/636	21'-0"	21'-9"	4.1	3 1/2	NA	-
J22	1	H14/636	12'-4 1/4"	13'-1 3/4"	4.1	3 1/2	NA	5" BRG. SHOE OFF. TAG
J23	1	H14/636	10'-3 1/4"	11'-0 3/4"	4.1	3 1/2	PL	5" BRG. SHOE OFF. TAG
J24	3	H14/636	6'-11"	7'-8"	4.1	3 1/2	NA	-
J25	1	H14/636	9'-0 1/4"	9'-9 3/4"	4.1	3 1/2	NA	5" BRG. SHOE OFF. TAG
J26	1	H14/636	12'-9 3/4"	13'-7 1/4"	4.1	3 1/2	NA	5" BRG. SHOE OFF. TAG
J27	1	H14/636	15'-4"	16'-1 1/2"	4.1	3 1/2	NA	5" BRG. SHOE @ TAG
J28	1	H14/636	9'-4"	10'-1"	4.1	3 1/2	NA	-
TOTAL	11							



ASSOCIATE

WELDED WIRE MESH

6 SHEETS 6' x 6' 1/4" x 1/4"
REQUIRED FOR BALCONY

ROLLBAR® SCHEDULE

TYPE	QUANTITY	TYPE	QUANTITY	TYPE	QUANTITY
REG. 4" x 1/4"	10	LONG INTERIOR	50	EXT. EXP. 2"	
EPB-1	30	SHORT INTERIOR	60	EXT. EXP. 3"	

REV. DATE DESCRIPTION

1		
2		
3		
4		
5		

INSTALLER:

ALL JOISTS SHALL BE ERECTED IN SUCH A MANNER SO THAT THEY ARE VERTICAL, LEVEL AND PLUMB AND AT PROPER ELEVATIONS. ANY SHIMMING THAT MAY BE REQUIRED SHALL BE DONE WITH METAL.

NOTE:

INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND WITH THE "INSTALLATION MANUAL FOR THE HAMBRO D500 COMPOSITE FLOOR SYSTEM" AND / OR SHEET HD5-10F OF THE FIELD USE SET OF PLANS.

CUSTOMER:

SEVEN PALMS CONSTRUCTION

ARCHITECT:

DISOSWAY DESIGN GROUP, INC.

ENGINEER:

PROJECT NAME:

**CHRIS & DORA MARTIN
RESIDENCE**

PROJECT LOCATION:

COLUMBIA CITY, FL

SHEET TITLE:

BALCONY HAMBRO LAYOUT PLAN

NOTE: CERTIFICATION
EXTENDS ONLY TO
MATERIAL DESIGNED
AND FURNISHED BY
CANAM STEEL

IAN H. YAP, P.E.
FL # 59557



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Structural Systems
A Division of Canam Steel Corp.

450 E. Hillboro Blvd. • Deerfield Beach, FL 33441
(Phone) 954-571-3030 • 800-546-9008 • (Fax) 954-571-3031
Email: Hambroeng@Hambro.com • Web Site: www.Hambro.com

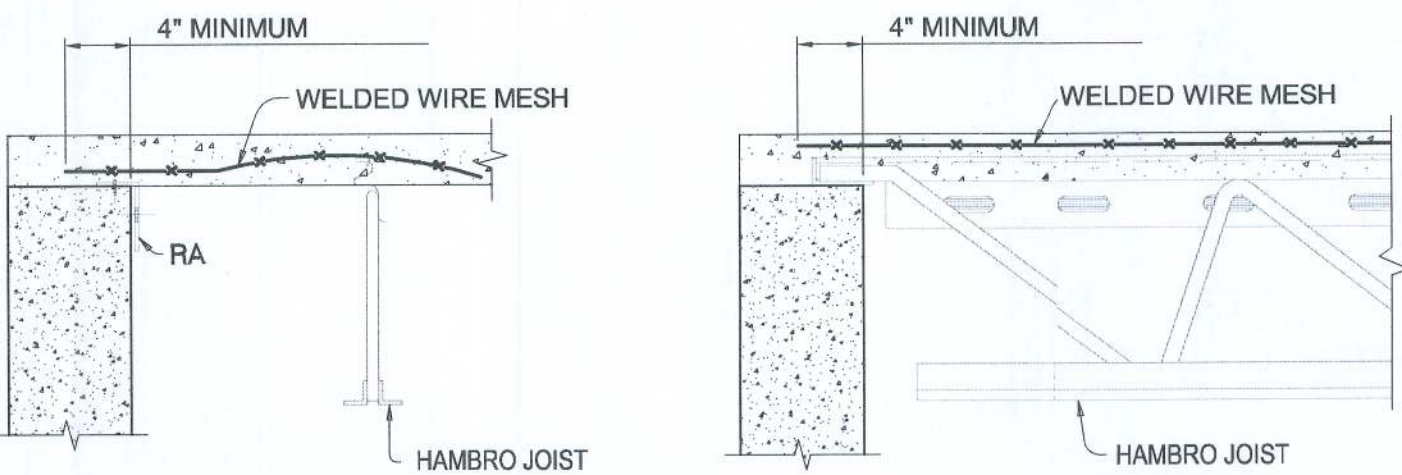
DRAWN BY:	DATE:	CHECKED BY:	DATE:
SDW	11/2/09	LA	5-3-10

JOB NUMBER:	DRAWING NUMBER:
H9060	HJ1-2

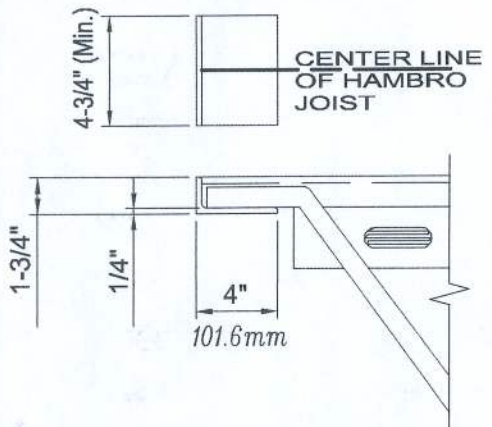
BALCONY

SPECIFICATIONS

- 1. HAMBRO® DRAWINGS should always be used in conjunction with approved Architectural, Structural and Mechanical plans.
- 2. 3 1/2 in. nominal concrete slab, $f_c=3000$ psi. at 28 das, u/n.
Total design load = 155 psf.
- 3. Welded wire mesh 6 x 6 x W4.0 x W4.0, $f_y = 60$ ksi min.), u/n.
Laps to follow ACI 318 provisions. At bearing, mesh over shall extend a minimum of 4", u/n.

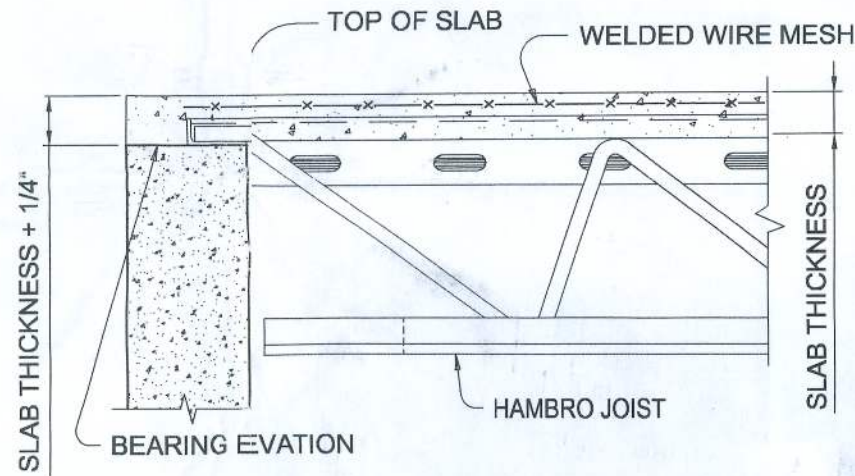


- 4. Standard joist shoe to be 4" D x 1-3/4" H x 1/4" T x 4-3/4" (Min.) W, u/n.

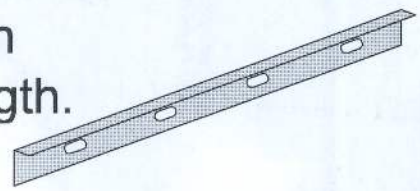


- 5. Bearing elevation to be finished floor elevation less thickness of slab and less 1/4" T for joist shoe.

POST SHORING NOT REQUIRED FOR STANDARD BEARING CONDITION (SEE ITEM #24 FOR NONSTANDARD BEARING)



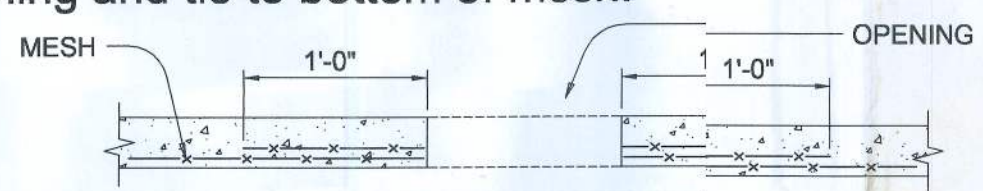
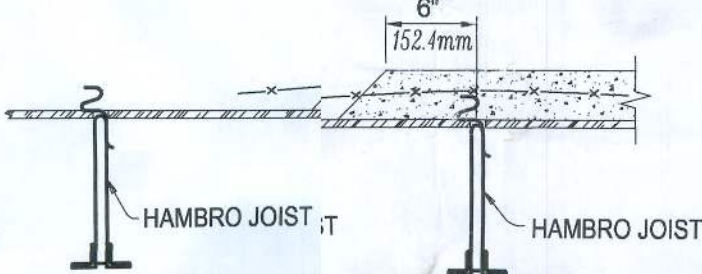
- 6. Provide solid bearing as specified, without voids, under joist shoes.
- 7. Joist to have ceiling extensions, u/n and 1 shop coat standard (rust inhibitor) primer.
- 8. Rollbar® Angle (RA), are unpainted, non-structural installation accessories once the concrete slab reaches specified strength.



HAMBRO® GENERAL NOTES

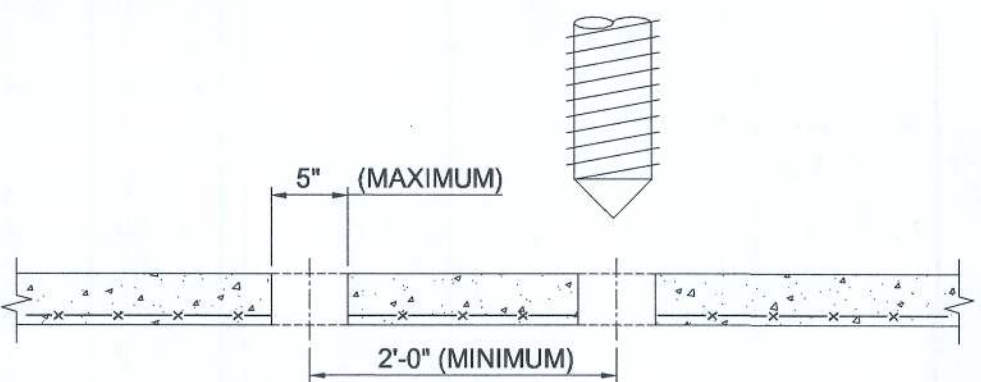
INSTALLATION

- 9. Installation shall be in accordance with the Manufacturer's recommendations and with the "INSTALLATION / ERECTION MANUAL for the HAMBRO® D500 COMPOSITE FLOOR SYSTEM".
- 10. All top chord Z-sections must face the SAME DIRECTION for proper installation of plywood forms.
- 11. Avoid, if possible (for ease of removal), inserting two "ROLLBAR®" in the same slot.
- 12. DO NOT WELD any joists (if required at bearing), without first having inserted a "ROLLBAR" at each end of every joist in unit to ensure proper spacing.
- 13. In areas where the slab is thickened, "ROLLBAR®" spacing should be reduced.
- 14. BUNDLES OF FORMS AND MESH should not be placed on the joist system, but rather on the supporting walls or beams.
- 15. Construction joints shall be made parallel to, and no closer than 6" to top chord.
- 16. NO CONSTRUCTION LOADS shall be placed on the joist system until a min. of 4 consecutive joists have been laterally braced with all required "ROLLBAR®" AT BOTH TOP AND BOTTOM CHORDS, AND WITH ALL FORMS IN PLACE.
- 17. If mesh has been cut to allow for an opening, reinforce these areas with an additional layer of mesh. Lap 1'-0" all around opening and tie to bottom of mesh.



CONCRETE POUR

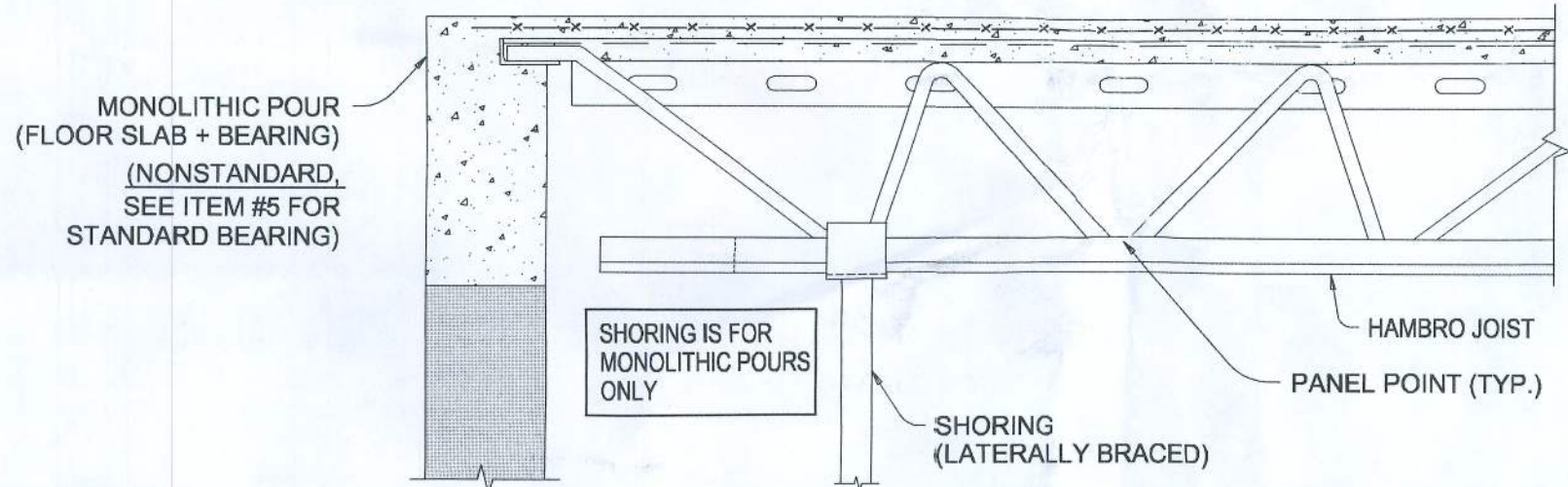
- 18. If core drilling, maximum hole diameter is 5 inches. Make sure HAMBRO® Joists are not drilled. Minimum center to center of drilled holes is 2'-0. Only one strand of tensile mesh may be cut per hole.



- 19. DO NOT DROP BUCKET LOADS OF CONCRETE FROM EXCESSIVE HEIGHTS AND IN CONCENTRATED AREAS ON THE JOIST SYSTEM
- 20. DO NOT FINISH CONCRETE IN EXCESS OF THE DESIGN SLAB THICKNESS, u/n.
During construction, the non-composite capacity of the joist is 279 PLF, u/n.
- 21. As needed, clean over pour at lower levels after each pour.

OTHER TRADES

- 22. DO NOT OVERLOAD (i.e. loads from blocks, drywall, lumber, sand, etc.) joist system or slab at any phase of construction.
- 23. DO NOT ALTER, drill, powder actuate fasten (except as noted on the HAMBRO® plans), burn or cut any HAMBRO® Structural Component as this will reduce its designed capacity.
- 24. If shoring is used, place shores at the first panel point of the bottom chord.

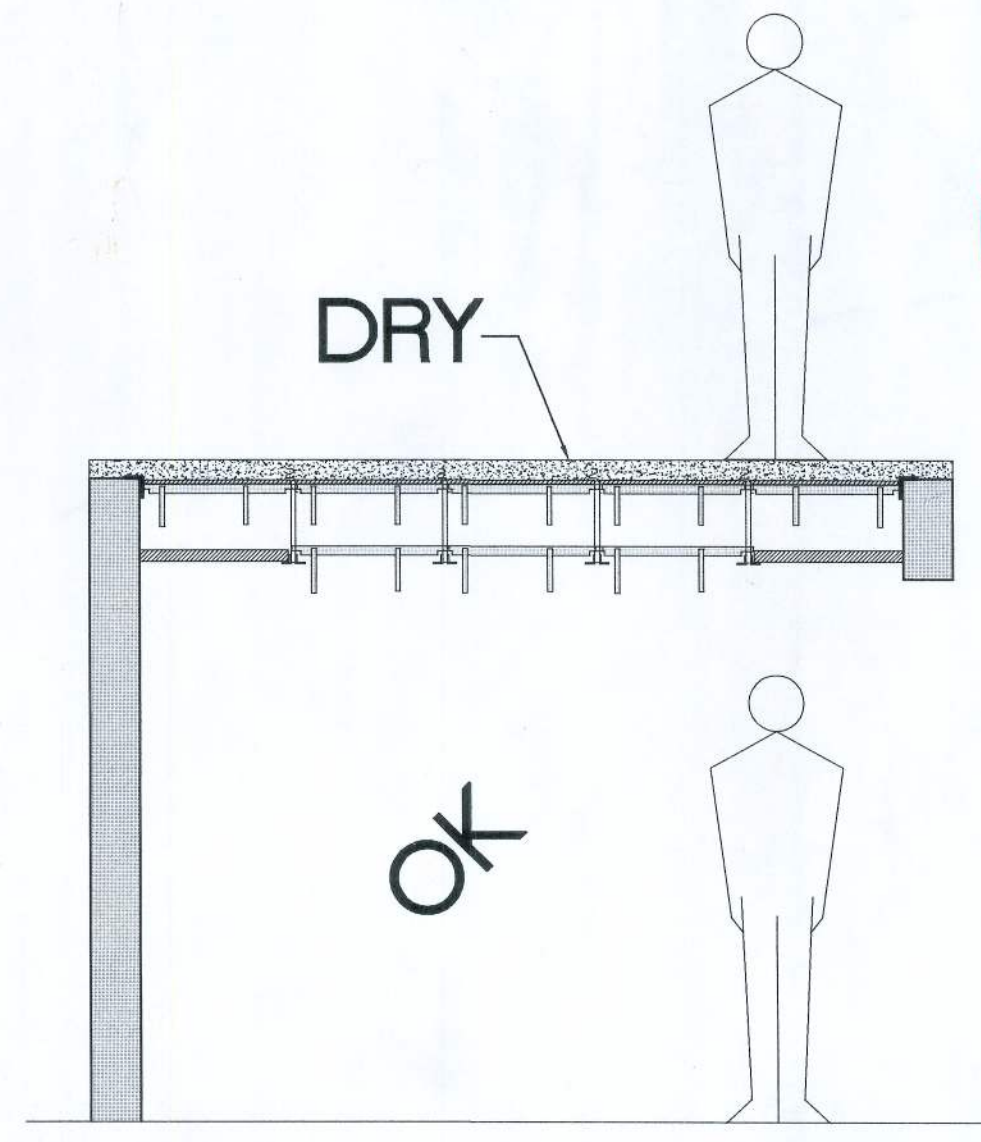
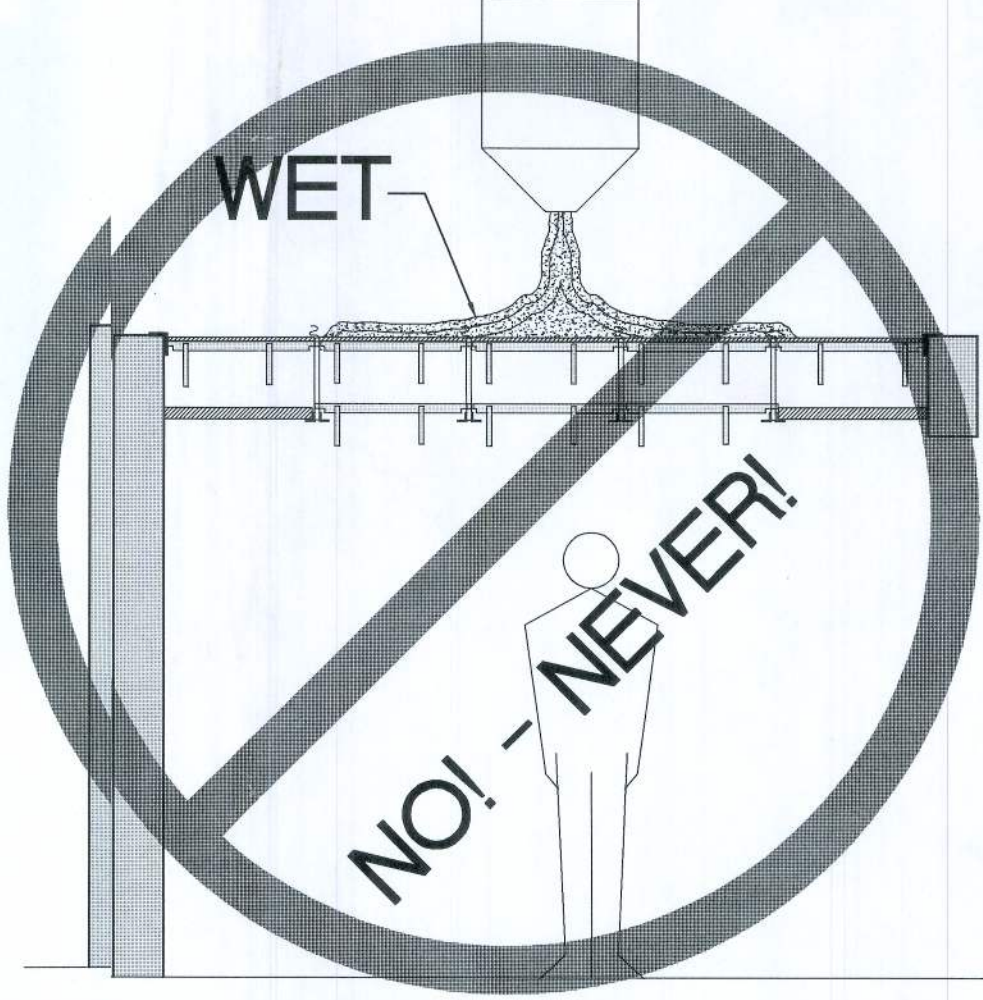
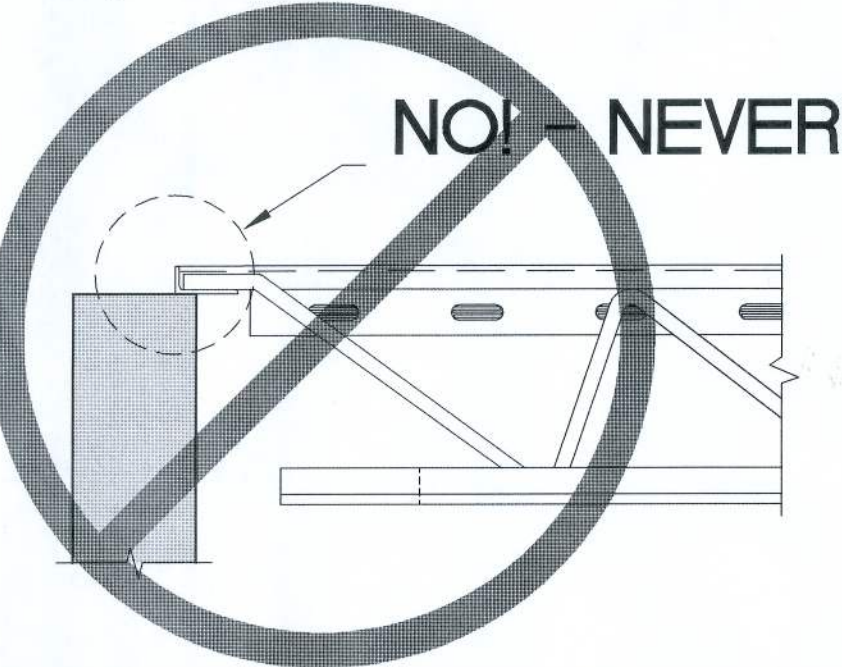
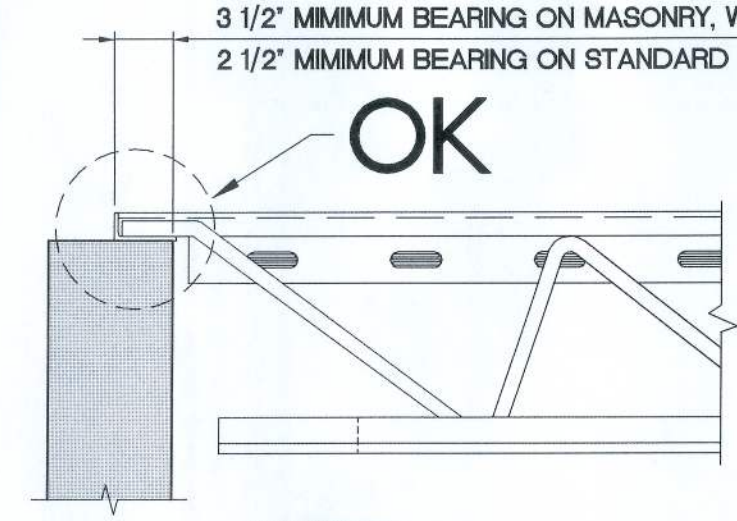
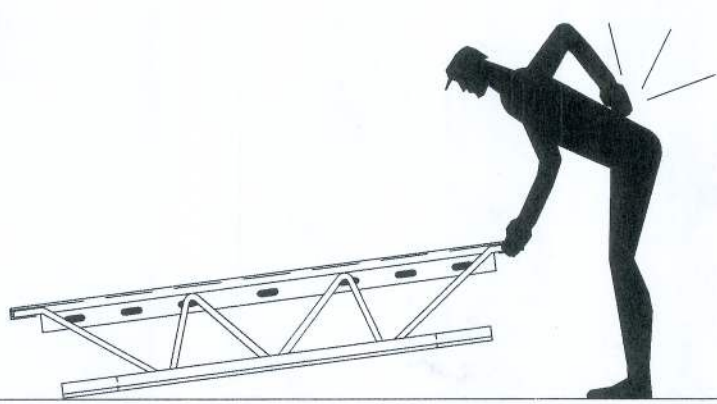


FIRE RATINGS

- 25. Refer to the latest UNDERWRITERS LABORATORIES, INC. FIRE RESISTANCE DIRECTORY. For drywall ceilings use LISTING NO. G524

Please contact a HAMBRO® Representative if you require additional information.

CAUTION
HEAVY



INSTALLER:
ALL JOISTS SHALL BE ERECTED IN SUCH A MANNER SO THAT THEY ARE VERTICAL, LEVEL AND PLUMB AND AT PROPER ELEVATIONS. ANY SHIMMING THAT MAY BE REQUIRED SHALL BE DONE WITH METAL.

NOTE:
INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND WITH THE "INSTALLATION MANUAL FOR THE HAMBRO D500 COMPOSITE FLOOR SYSTEM" AND / OR SHEET HD5-1 OF THE FIELD USE SET OF PLANS.

CUSTOMER:
SEVEN PALMS CONSTRUCTION
ARCHITECT:
DISOSWAY DESIGN GROUP, INC.
ENGINEER:

PROJECT NAME:
**CHRIS & DORA MARTIN
RESIDENCE**

PROJECT LOCATION:
COLUMBIA CITY, FL

SHEET TITLE:
HAMBRO GENERAL NOTES

NOTE: CERTIFICATION EXTENDS ONLY TO MATERIAL DESIGNED AND FURNISHED BY CANAM STEEL

IAN H. YAP, P.E.
FL # 59557

HAMBRO®
Structural Systems
A Division of Canam Steel Corp.

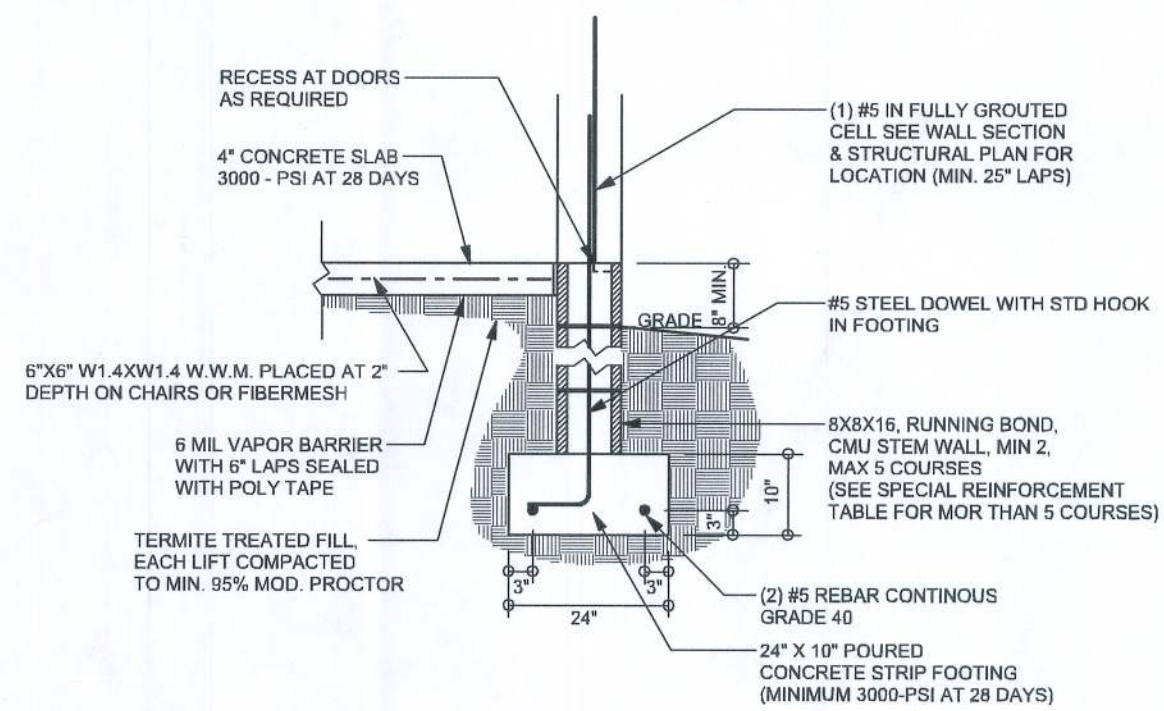
450 E Hillsboro Blvd. • Deerfield Beach, FL 33441
(Phone) 954-571-3030 • 800-546-9008 • (FAX) 954-571-3031
Email: Hambroeng@Hambro.com • Web Site: www.Hambro.com

DRAWN BY: SDW	DATE: 11/2/09	CHECKED BY: LA	DATE: 5-3-10
JOB NUMBER H9060	REVISION 0	DRAWING NUMBER HNO-1	

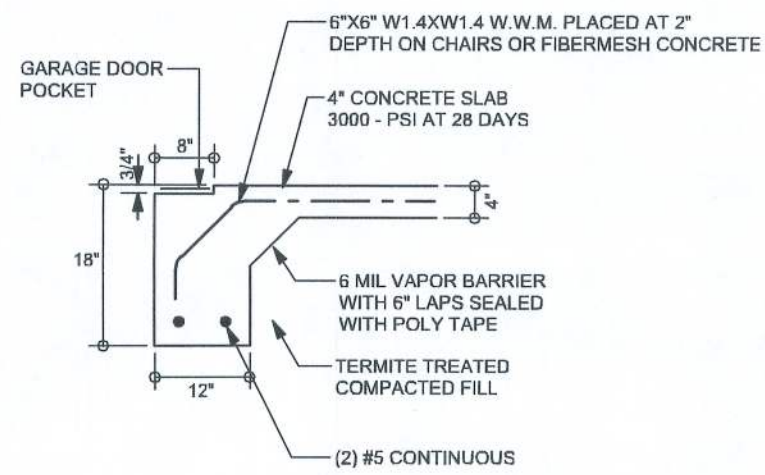
TALL STEM WALL TABLE

The table assumes 60 ksi reinforcing bars with 6" hook in the footing and bent 24" into the reinforced slab at the top. The vertical steel is to be placed toward the tension side of the CMU wall (away from the soil pressure, within 2" of the exterior side of the wall). If the wall is over 8' high, and Downward ladder reinforcement is at 18" O.C. vertically or a horizontal bond beam with 1#5 continuous at mid height. For higher parts of the wall 12" CMU may be used with reinforcement as shown in the table below.

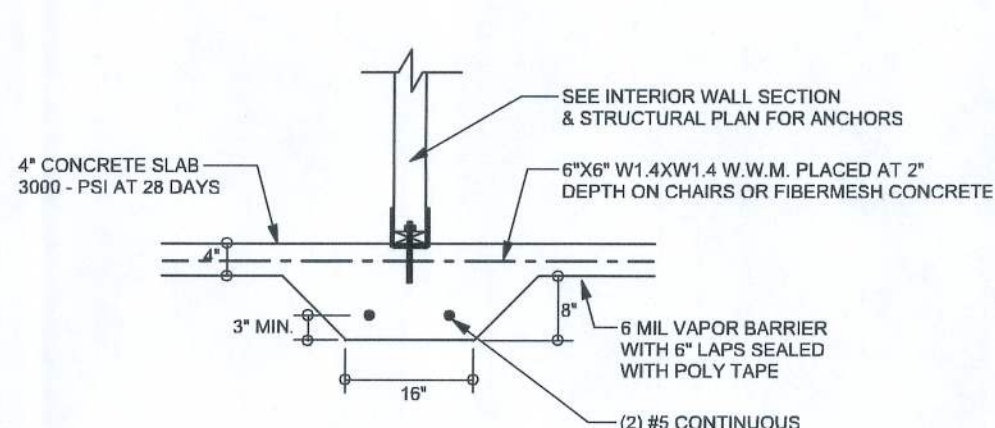
STEM WALL HEIGHT (FEET)	UNBALANCED BACKFILL HEIGHT	VERTICAL REINFORCEMENT FOR 8" CMU STEM WALL (INCHES O.C.)			VERTICAL REINFORCEMENT FOR 12" CMU STEM WALL (INCHES O.C.)		
		#5	#7	#8	#5	#7	#8
3.3	3.0	96	96	96	96	96	96
4.0	3.7	96	96	96	96	96	96
4.7	4.3	88	96	96	96	96	96
5.3	5.0	56	96	96	96	96	96
6.0	5.7	40	80	96	80	96	96
6.7	6.3	32	56	80	56	96	96
7.3	7.0	24	40	56	40	80	96
8.0	7.7	16	32	48	32	64	80
8.7	8.3	8	24	32	24	48	64
9.3	9.0	8	16	24	16	40	48



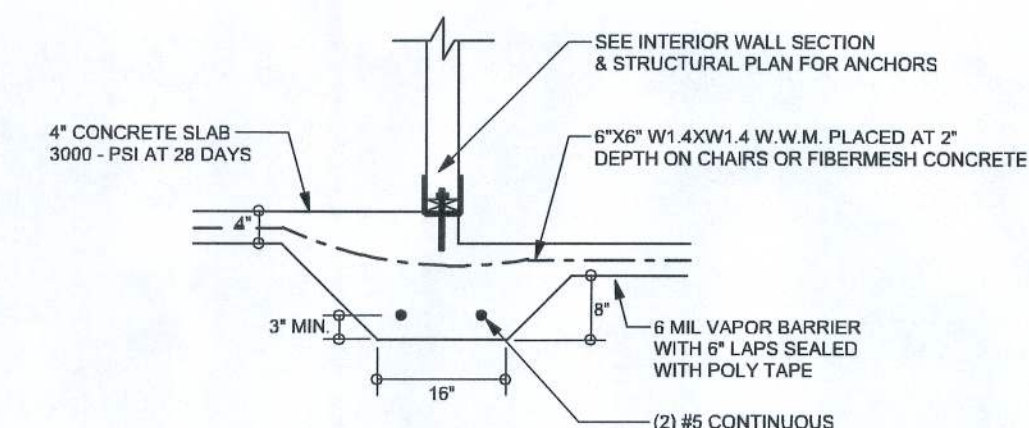
F1 S-2 STEM WALL FOOTING
SCALE: 1/2" = 1'-0"



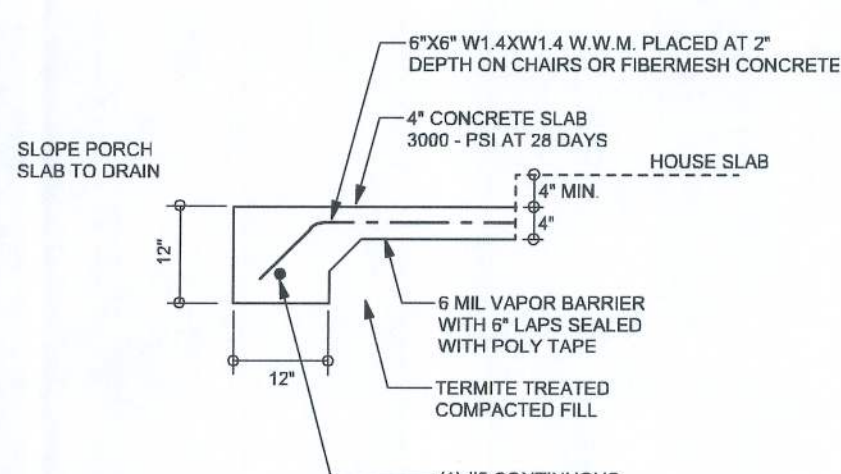
F6 S-2 GARAGE DOOR FOOTING
SCALE: 1/2" = 1'-0"



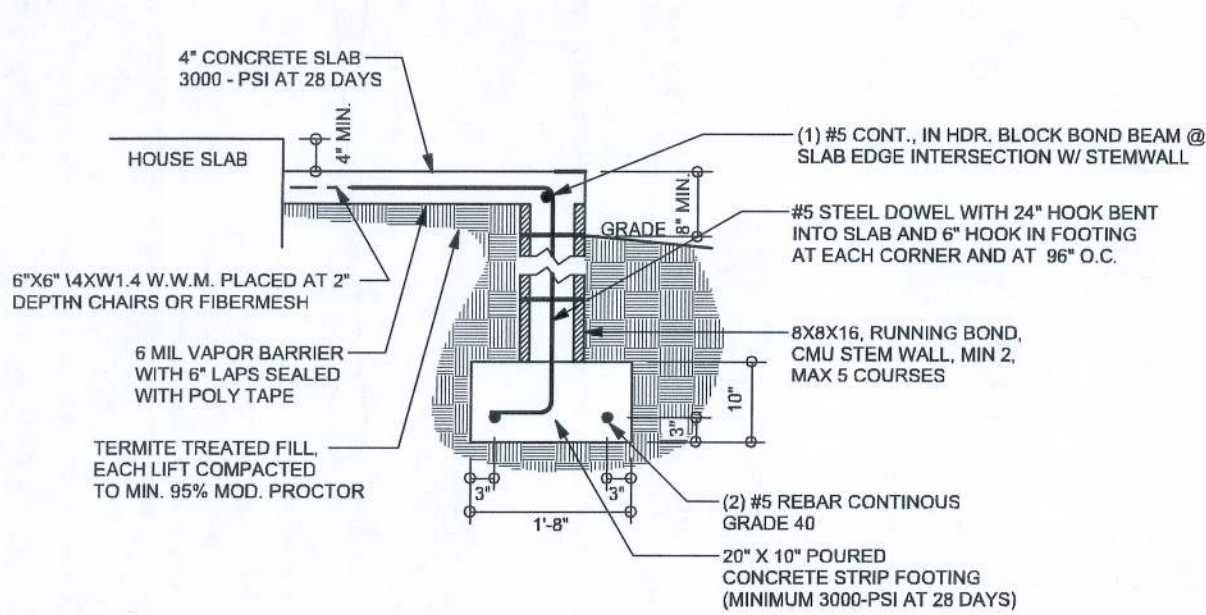
F2 S-2 INTERIOR BEARING FOOTING
SCALE: 1/2" = 1'-0"



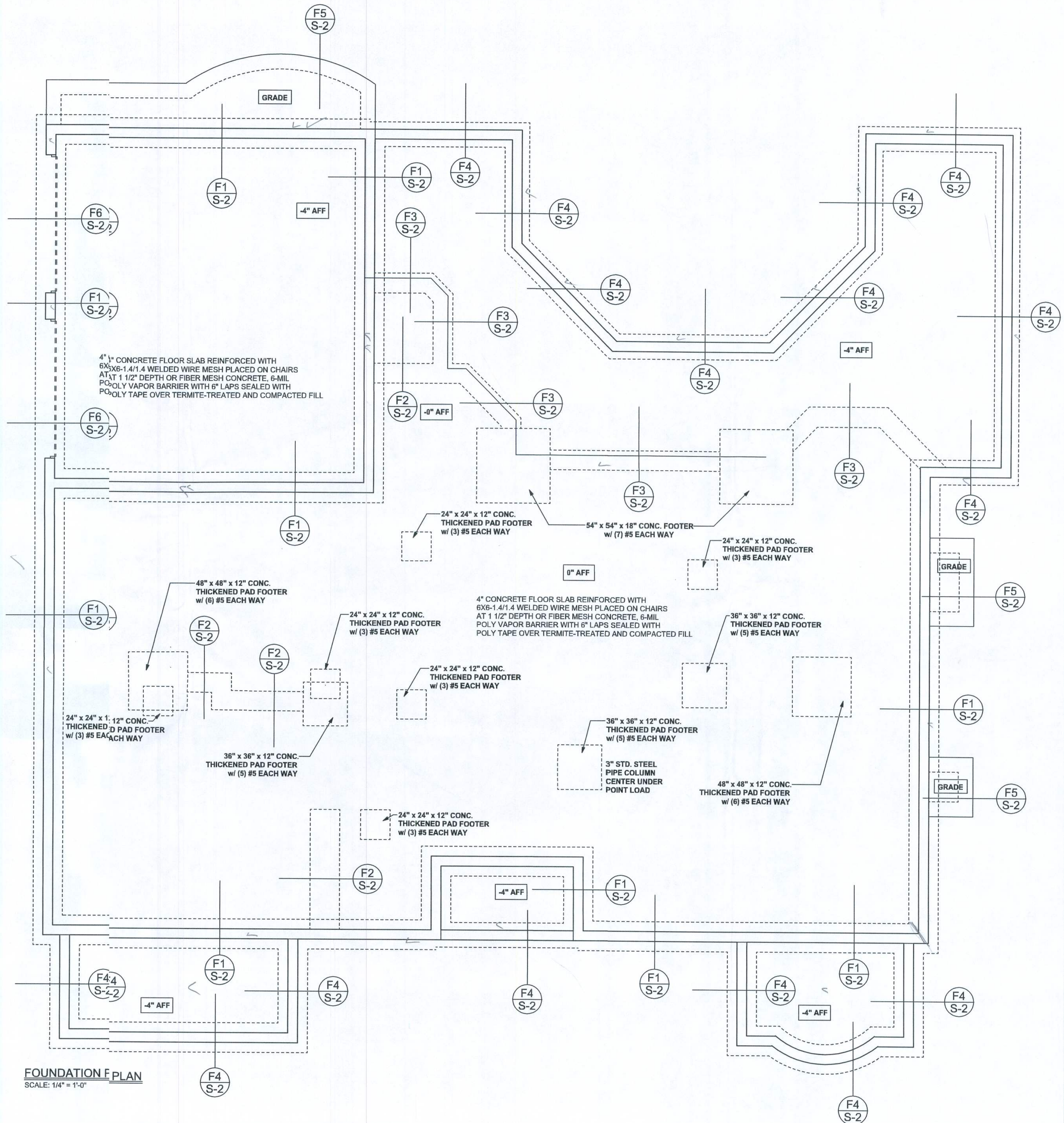
F3 S-2 INTERIOR BEARING STEP FOOTING
SCALE: 1/2" = 1'-0"



F5 S-2 PORCH FOOTING
SCALE: 1/2" = 1'-0"



F4 S-2 ALT. STEM WALL PORCH FOOTING
SCALE: 1/2" = 1'-0"



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

REVISIONS

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SOFTPLAN
ARCHITECTURAL MARK DISOWAY

WINDLOAD ENGINEER:
Mark Disoway, P.E.
No. 53915POB 888, Lake City, FL 32056,
385-754-5119

DIMENSIONS:
Stated dimensions supercede scaled dimension. Refer all questions to Mark Disoway, P.E. for resolution. Do not proceed without clarification.

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CERTIFICATION: I hereby certify that I have examined this plan, and that the applicable portions of the plan, relating to wind engineering comply with section R301.2.1, Florida building code, residential, and 2009 Supplements, to the best of my knowledge.

LIMITATION: This design is valid for one building, a specified location.

MARK DISOWAY
P.E. 53915

Mark Disoway
22 APR 10
SEAL

Chris & Dora Martin

ADDRESS:
Columbia County, Florida

Mark Disoway P.E.
P.O. Box 888
Lake City, Florida 32056
Phone: (386) 754 - 5419
Fax (386) 269 - 4871

PRINTED DATE:
April 20, 2010

DRAWN BY: David Disoway
STRUCTURAL BY: David Disoway

FINAL DATE:
Dec. 30, 2009

JOB NUMBER:
811211

DRAWING NUMBER
S-2

OF 11 SHEETS

MATERIALS

1. fc 8" precast lintel = 3500 psi
2. fc prestressed lintel = 6000 psi
3. Grout per ASTM C476 fc = 3000 psi w/ maximum 3/8" in aggregate & 8 to 11 inch slump
4. Concrete Masonry Units (CMU) per ASTM C90 minimum net area compressive strength = 1900 psi
5. Rebar per ASTM A615 grade 60
6. Prestressing strand per ASTM A416 grade 270 low relaxation
7. Mortar per ASTM C270 type M or S

GENERAL NOTES

1. Provide full mortar bed and head joints.
2. Show filled lintels as required.
3. Installation of lintel must comply with the architectural and/or structural documents.
4. U-Intels are manufactured with 5 1/2" long notches at the ends to accommodate vertical cell reinforcing and grouting.
5. All lintels meet or exceed U360 deflection, except lintels 17'-4" and longer with a nominal height of 8" meet or exceed U180 deflection.
6. Bottom field added rebar to be located at the bottom of the lintel cavity.
7. 7/32" diameter wire stirrups are welded to the bottom steel for mechanical anchorage.
8. Cast-in-place concrete may be provided in composite lintel in lieu of concrete masonry units.

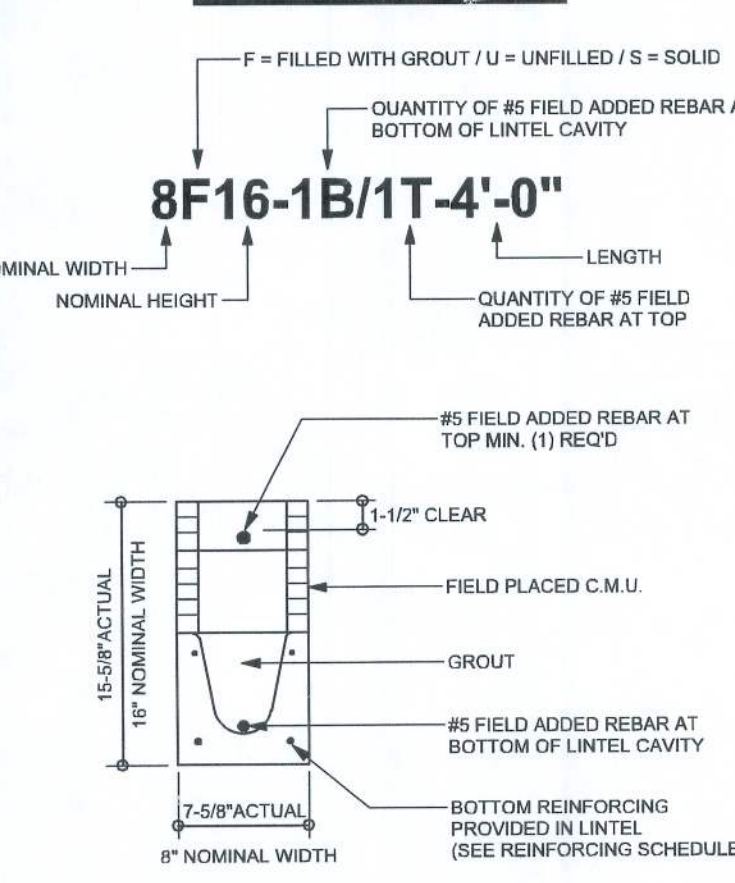
9. Safe load ratings based on rational design analysis per ACI 318 and ACI 530
10. Product Approvals: Miami-Dade County, Florida No. 03-0606.05

11. The exterior surface of lintels installed in exterior concrete masonry walls shall have a coating of stucco applied in accordance with ASTM C-296 or other approved coating.
12. Lintels loaded simultaneously with vertical (gravity or uplift) and horizontal (lateral) loads should be checked for the combined loading with the following equation:

$$\frac{\text{Applied vertical load}}{\text{Safe vertical load}} + \frac{\text{Applied horizontal load}}{\text{Safe horizontal load}} \leq 1.0$$

13. Additional lateral load capacity can be obtained by the designer by providing additional reinforced concrete masonry above the lintel. See detail at right.

TYPE DESIGNATION



SAFE LOAD TABLE NOTES

1. All values based on minimum 4 inch nominal bearing
- Exception: Safe loads for unfilled lintels must be reduced by 20% if bearing length is less than 6 1/2 inches.
2. N.R. = Not Rated
3. Safe loads are superimposed allowable loads.
4. Safe loads based on grade 40 or grade 60 field rebar.
5. One #7 rebar may be substituted for two #5 rebars in 8" lintels only
6. The designer may evaluate concentrated loads from the safe load tables by calculating the maximum resisting moment and shear at d-away from face of support.
7. For composite lintel heights not shown, use safe load from next lower height shown.
8. For lintel lengths not shown, use safe load from next longest length shown.
9. All safe loads in units of pounds per linear foot
10. All safe loads based on simply supported span.
11. The number in the the parenthesis indicates the percent reduction for grade 40 field added rebar.

Example 7'-6" lintel type 8F32-1B safe gravity load = 6472(1+0.469)(15)/10.0781; w/ 15% reduction 6472 > (.85) = 5501 plf

SAFE GRAVITY LOADS FOR 8" PRECAST & PRESTRESSED LINTELS

LENGTH	TYPE	8U6	SAFE LOAD - POUNDS PER LIAR FOOT									
			8F8-0B	8F12-0B	8F16-0B	8F20-0B	8-1B	8F28-0B	8F32-0B	8F16-1B	8F20-1B	8F32-1B
2'-10" (34")	PRECAST	2231	3089	4605	6113	7547	74	10394	11809	3089	4605	6113
3'-6" (42")	PRECAST	2231	3089	4605	6113	7547	74	10394	11809	3089	4605	6113
4'-0" (48")	PRECAST	1966	2561	2751	3820	4890	61	7034	8107	2561	2751	3820
4'-6" (54")	PRECAST	1599	1969	2110	2931	3753	76	5400	6224	1969	2110	2931
5'-4" (64")	PRECAST	1217	1549	1438	1998	2560	23	3686	4249	1438	1998	2560
5'-10" (70")	PRECAST	1082	1063	3090	5365	7547	26	9733	10127	3090	5365	7547
6'-0" (78")	PRECAST	908	1238	2177	3480	5381	60	10394	11809	1238	2177	3480
7'-4" (90")	PRECAST	743	1011	1729	2691	3698	81	8427	9472	1729	2691	3698
9'-4" (112")	PRECAST	554	699	1160	1625	2564	86	2818	3302	1160	1625	2564
10'-8" (128")	PRECAST	475	643	1052	1533	2093	77	2163	2536	1052	1533	2093
11'-4" (136")	PRECAST	362	582	945	1366	1846	123	1517	1806	945	1366	1846
12'-0" (144")	PRECAST	337	540	873	1254	1684	193	2805	3552	873	1254	1684
13'-4" (160")	PRECAST	296	471	755	1075	1428	138	2316	2883	755	1075	1428
14'-0" (168")	PRECAST	279	442	706	1002	1326	97	2127	2630	706	1002	1326
14'-8" (176")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
15'-4" (184")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
17'-4" (208")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
19'-4" (232")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
21'-4" (256")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
22'-0" (264")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
24'-0" (288")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

SAFE UPLIFT LOADS FOR 8" PRECAST & PRESTRESSED U-INTELS

LENGTH	TYPE	8U6	SAFE LOAD - POUNDS PER LINEAL FOOT									
			8F8-1T	8F12-1T	8F16-1T	8F20-1T	8F24-1T	8-1T	8F32-1T	8F16-1B	8F20-1B	8F32-1B
2'-10" (34")	PRECAST	1972	3173	4460	5747	7034	321	9608	11089	3173	4460	5747
3'-6" (42")	PRECAST	1972	3173	4460	5747	7034	321	9608	11089	3173	4460	5747
4'-0" (48")	PRECAST	1589	2524	3547	4569	5591	813	7628	8658	2524	3547	4569
4'-6" (54")	PRECAST	1363	2192	3079	3966	4853	740	6627	7657	2192	3079	3966
5'-4" (64")	PRECAST	1207	1940	2724	3508	4292	777	5861	6891	1940	2724	3508
5'-10" (70")	PRECAST	1016	1632	2290	2948	3607	265	4924	5674	1632	2290	2948
6'-0" (78")	PRECAST	909	1482	2093	2694	3295	397	4488	5138	1482	2093	2694
6'-6" (84")	PRECAST	835	1340	1880	2419	2959	498	4038	4688	1340	1880	2419
7'-4" (90")	PRECAST	727	1166	1634	2102	2571	533	3508	4038	1166	1634	2102
8'-4" (100")	PRECAST	591	880	1133	1471	1810	152	2494	2844	880	1133	1471
10'-8" (128")	PRECAST	530	588	1183	1526	1865	204	2544	2894	588	1183	1526
11'-4" (136")	PRECAST	474	485	708	1034	1272	519	1741	1991	485	708	1034
12'-0" (144")	PRECAST	404	404	599	1028	1422	1738	1031	1281	599	1028	1422
12'-6" (150")	PRECAST	470	470	543	828	1149	1649	948	1198	543	828	1149
13'-4" (160")	PRECAST	418	418	373	606	783	862	141	1321	373	606	783
14'-0" (168")	PRECAST	428	428	348	557	723	887	152	1318	348	557	723
14'-8" (176")	PRESTRESSED	410	429	709	1050	1434	1684	1854	2104	709	1050	1434
15'-4" (184")	PRESTRESSED	239	323	519	671	823	126	1129	1299	519	671	823
17'-4" (208")	PRESTRESSED	246	390	655	968	1324	1625	1874	2124	655	968	1324
19'-4" (232")	PRESTRESSED	224	362	485	626	767	103	1052	1202	485	626	767
21'-4" (256")	PRESTRESSED	230	384	609	897	1224	1562	1801	2041	609	897	1224
22'-0" (264")	PRESTRESSED	187	255	464	630	837	1154	1372	1592	464	630	837
24'-0" (288")	PRESTRESSED	162	222	347	445	546	748	848	948	347	445	546
15'-4" (184")	PRESTRESSED	166	261	424	616	831	1057	1226	1406	424	616	831
17'-4" (208")	PRESTRESSED	142	198	306	393	480	567	654	741	306	393	480
19'-4" (232")	PRESTRESSED	142	230	369	531	713	903	1048	1193	369	531	713
21'-4" (256")	PRESTRESSED	137	162	295	378	461	545	629	713	295	378	461
22'-0" (264")	PRESTRESSED	137	221	354	568	781	981	1181	1381	354	568	781
24'-0" (288")	PRESTRESSED	124	175	267	341	416	491	568	641	267	341	416
26'-0" (312")	PRESTRESSED	124	200	316	450	600	756	875	994	316	450	600

SAFE GRAVITY LOADS FOR 8" PRECAST w/ 2" RECESS DOOR L-INTELS

LENGTH	TYPE	8U6	SAFE LOAD - POUNDS PER LINEAR FOOT									
			8F8-0B	8F12-0B	8F16-0B	8F20-0B	8F24-0B	8-0B	8F32-0B	8F16-1B	8F20-1B	8F32-1B
4'-4" (52")	PRECAST	1635	1749	3355	3280	4349	5421	6493	7567	3355	3280	4349
4'-6" (54")	PRECAST	1494	1891	3689	5206	6639	8060	9479	10893	3689	5206	6639
5'-8" (68")	PRECAST	866	1596	3083	2982	3968	946	5924	6904	3083	2982	3968
5'-10" (70")	PRECAST	810	1756	3889	5206	6639	8060	9479	10893	3889	5206	6639
6'-8" (80")	PRECAST	797	691	1710	1716	2271	838	3402	3866	1710	1716	2271
7'-6" (90")	PRECAST	669	1167	2461	4567	6389	9803	7917	9311	2461	4567	6389
9'-8" (116")	PRECAST	411	859	1653	1600	2124	1649	3174	3700	1653	1600	2124
11'-8" (140")	PRECAST	269	1113	2342	4242	6639	10060	7402	8708	2342	4242	6639
13'-8" (164")	PRECAST	163	901	1825	3120	5048	747	8448	7380	1825	3120	5048
15'-8" (188")	PRECAST	103	801	1825	3120	5048	747	8448	7380	1825	3120	5048
17'-8" (202")	PRECAST	669	756	1490	2459	3778	743	7259	5623	1490	2459	3778
19'-8" (226")	PRECAST	411	468	999	1568	2253	1129	4081	3146	999	1568	2253
21'-8" (250")	PRECAST	269	526	999	1568	2253	1129	4150	5891	999	1568	2253

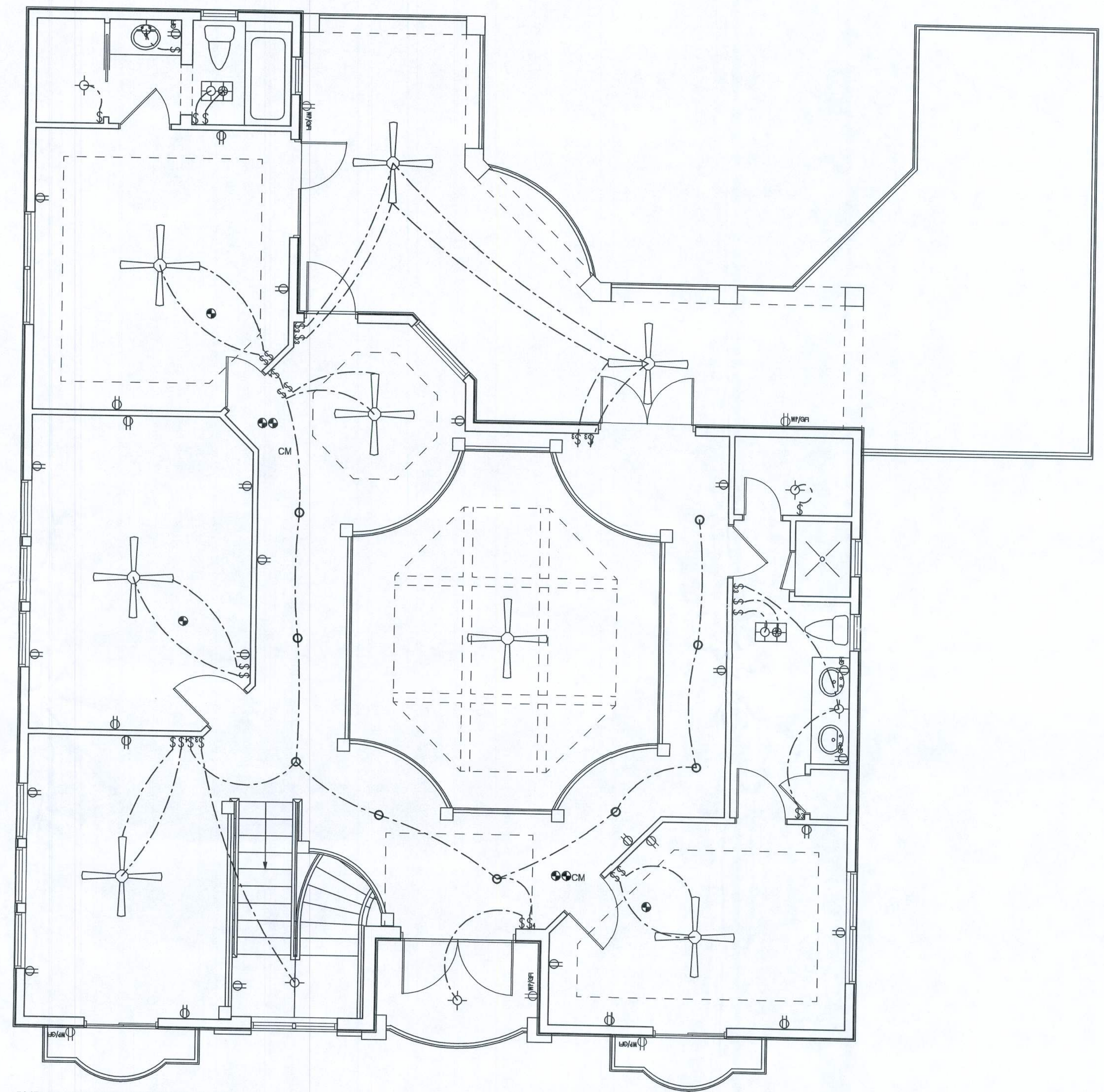
SAFE UPLIFT LOADS FOR 8" PRECAST w/ 2" RECESS DOOR L-INTELS

LENGTH	TYPE	8U6	SAFE LOAD - POUNDS PER LINEAR FOOT									
			8F8-1T	8F12-1T	8F16-1T	8F20-1T	8F24-1T	8-1T	8F32-1T	8F16-1B	8F20-1B	8F32-1B
4'-4" (52")	PRECAST	905	1748	2635	3522	4409	296	6183	7183	2635	3522	4409
4'-6" (54")	PRECAST	867	1675	2525	3374	4224	274	5924	6924	2525	3374	4224
5'-8" (68")	PRECAST	675	1301	1980	2618	3277	835	4594	5194	1980	2618	3277
5'-10" (70")	PRECAST	655	1262	1900	2538	3176	815	4453	5053	1900	2538	3176
6'-8" (80")	PRECAST	570	1097	1651	2204	2758	512	3865	4465	1651	2204	2758
7'-6" (90")	PRECAST	506	767	1462	1952	2442	4031	3257	3857	1462	1952	2442
8'-8" (104")	PRECAST	408	687	1462	1952	2442	3531	3421	3921	1462	1952	2442
9'-8" (116")	PRECAST	395	491	931	1301	1649	1880	2322	2722	931	1301	1649
10'-8" (128")	PRECAST	395	589	1135	1514	1893	2272	2652	3032	1135	1514	1893

GRADE & SPECIES TABLE

		Fb (psi)	E (10 ⁶ psi)
2x8	SYP #2	1200	1.6
2x10	SYP #2	1050	1.6
2x12	SYP #2	975	1.6
GLB	24F-V3 SP	2400	1.8
LSL	TIMBERSTRAND	1700	1.7
LVL	MICROLAM	2900	2.0
PSL	PARALAM	2900	2.0

EXTERIOR WALL



2ND FLOOR ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

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PRINTED DATE:
April 20, 2011

FINALS DATE:
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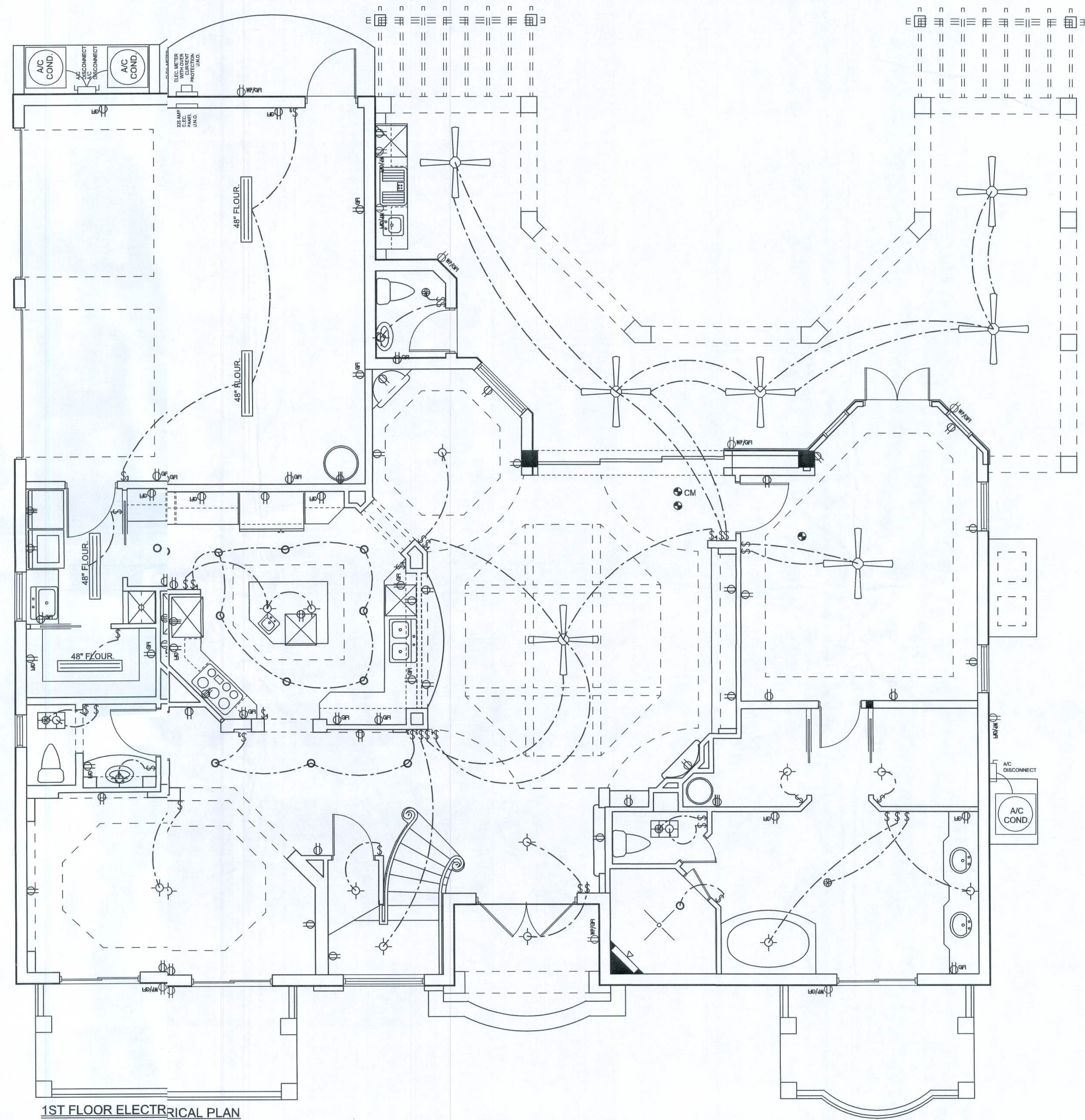
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1ST FLOOR ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

ELECTRICAL PLAN NOTES

- E -1 WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIP MIT PER MANUF. SPECIFICATIONS.
- E -2 CONSULT THE OWNER FOR THE NUMBER OF SEPERATE TELEPHONE LINES TO BE INSTALLED.
- E -3 ALL INSTALLATIONS SHALL BE PER NAT'L. ELECTRIC CODI
- E -4 ALL SMOKE DETECTORS SHALL BE 120V W/ BATTERY BACKUP OF THE PHOTOELECTRIC TYPE, AND SHALL BE INTERLOCKED TOGETHER. INSTALL INSIDE AND NEAR ALL BEDROOMS.
- E -5 TELEPHONE, TELEVISION AND OTHER LOW VOLTAGE DEVICES OR OUTLETS SHALL BE AS PER THE OWNER'S DIRECTIONS, & IN ACCORDANCE W/ APPLICABLE SECTIONS OF NEC-LATEST EDITION.
- E -6 ELECTRICAL CONTR SHALL BE RESPONSIBLE FOR THE DESIGN & SIZING OF ELECTRICAL SERVICE AND CIRCUITS
- E -7 ENTRY OF SERVICE (UNDERGROUND OR OVERHEAD) TO BE DETERMINED BY POWER COMPANY.
- E -8 ALL BEDROOM RECEPTACLES SHALL BE AFCI (ARC FAULT CIRCUIT INTERRUPT)
- E -9 ALL OUTLETS TO BE LOCATED ABOVE BASE FLOOD ELEVATION
- E -10 A SERVICE DISCONNECT WITH OVER CURRENT PROTECTN SHALL BE INSTALLED OUTSIDE OF THE BUILDING, ON THE LOAD SIDE OF THE METER, AT THE PLACE ELECTRIC CONDUCTORS ENTER THE BUILDING. SERVICE ENTRANCE CONDUCTORS MAY NOT BE LOCATE INSIDE OF THE OF THE BUILDING WITHOUT SPECIAL APPROVAL OF THE BUILDING OFFICIAL.
- E -11 CARBON MONOXIDE ALARMS SHALL BE REQUIRED WITHIN 10' OF ALL ROOMS FOR SLEEPING PURPOSES IN BUILDINGS IVING A FOSSIL-FUEL-BURNING HEATER OR APPLIANCE, A FIRENCE, OR ATTACHED GARAGE.

ELECTRICAL LEGEND	
	CEILING FAN (PRE-WIRE FOR LIGHT KIT)
	DOUBLE SECURITY LIGHT
	2X4 FLUORESCENT LIGHT FIXTURE
	RECESSED CAN LIGHT
	BATH EXHAUST FAN WITH LIGHT
	BATH EXHAUST FAN
	LIGHT FIXTURE
	DUPLEX OUTLET
	220v OUTLET
	GFI DUPLEX OUTLET
	SMOKE DETECTOR
	WALL SWITCH
	3 WAY WALL SWITCH
	4 WAY WALL SWITCH
	WATER PROOF GFI OUTLET
	PHONE JACK
	TELEVISION JACK
	GARAGE DOOR OPENER
	CARBON MONOXIDE ALARM

*Tamper Proof Rec.
UFex Ground
AFCI Where Required
2008 NEC*

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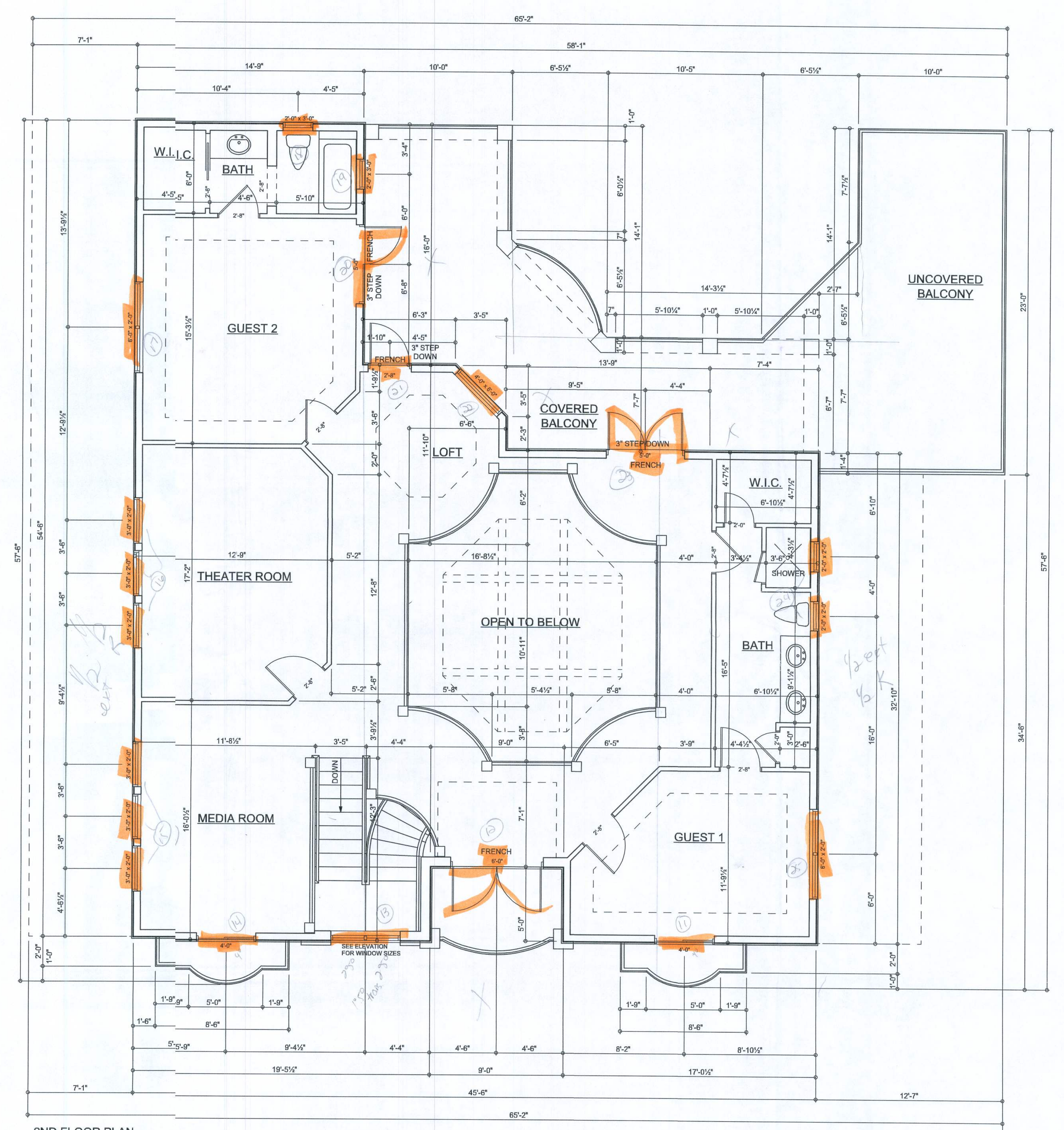
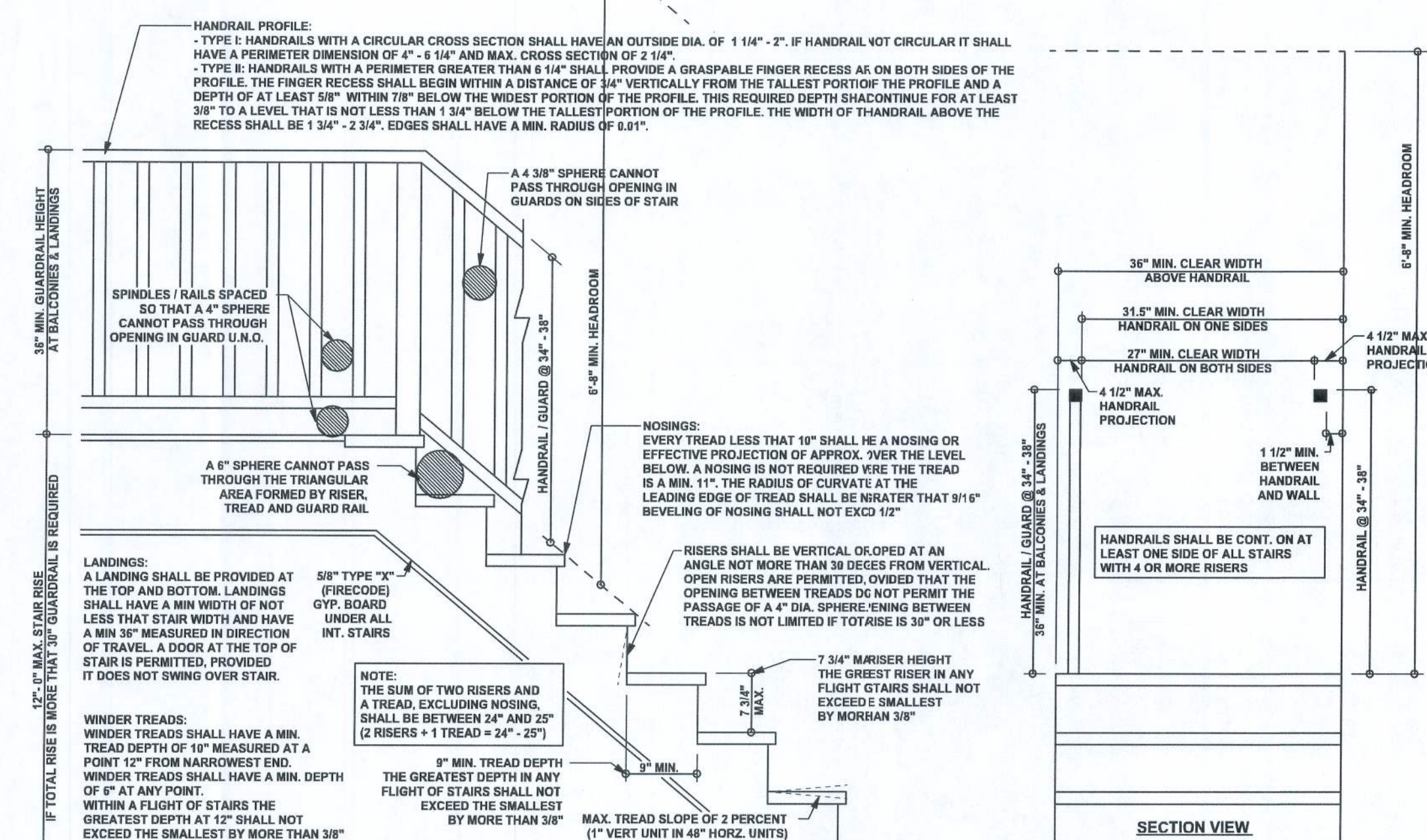
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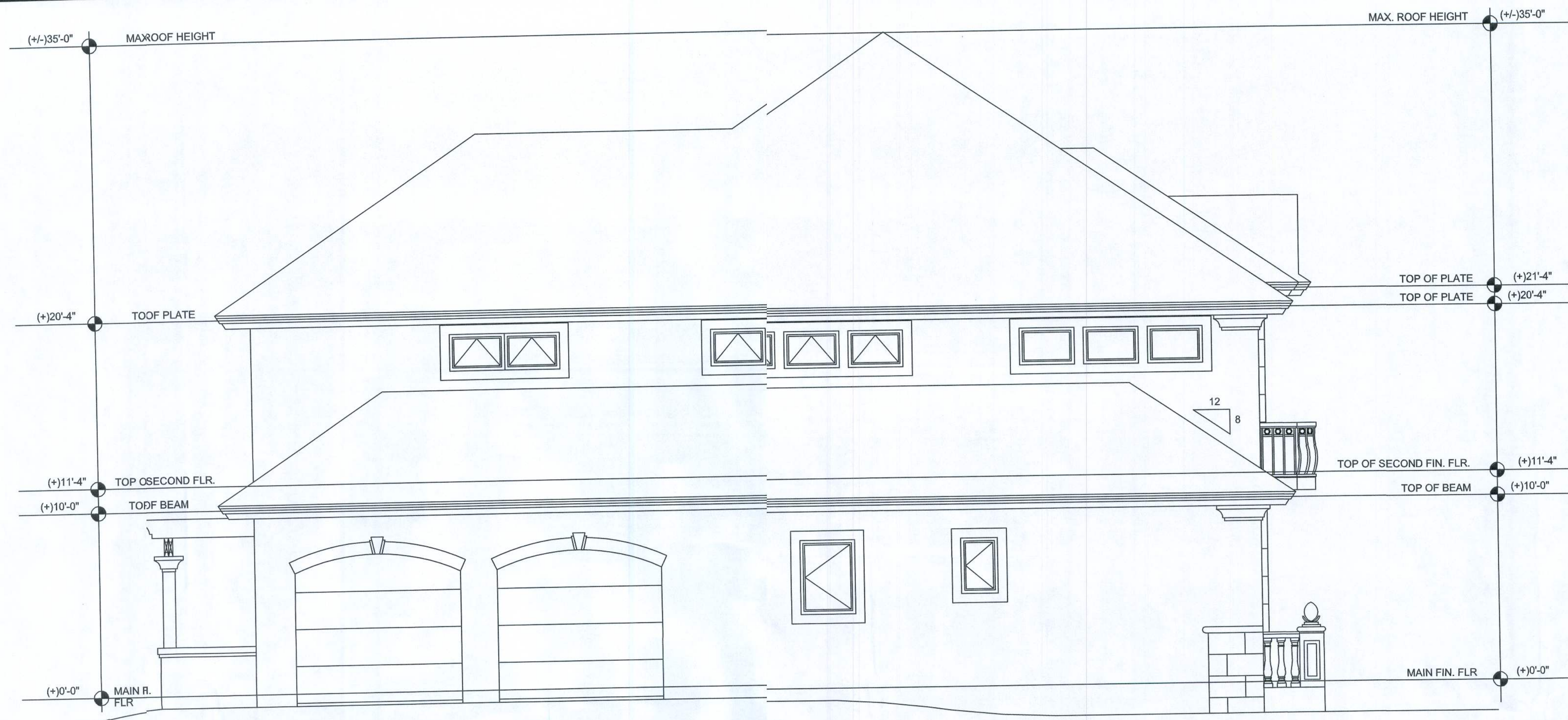
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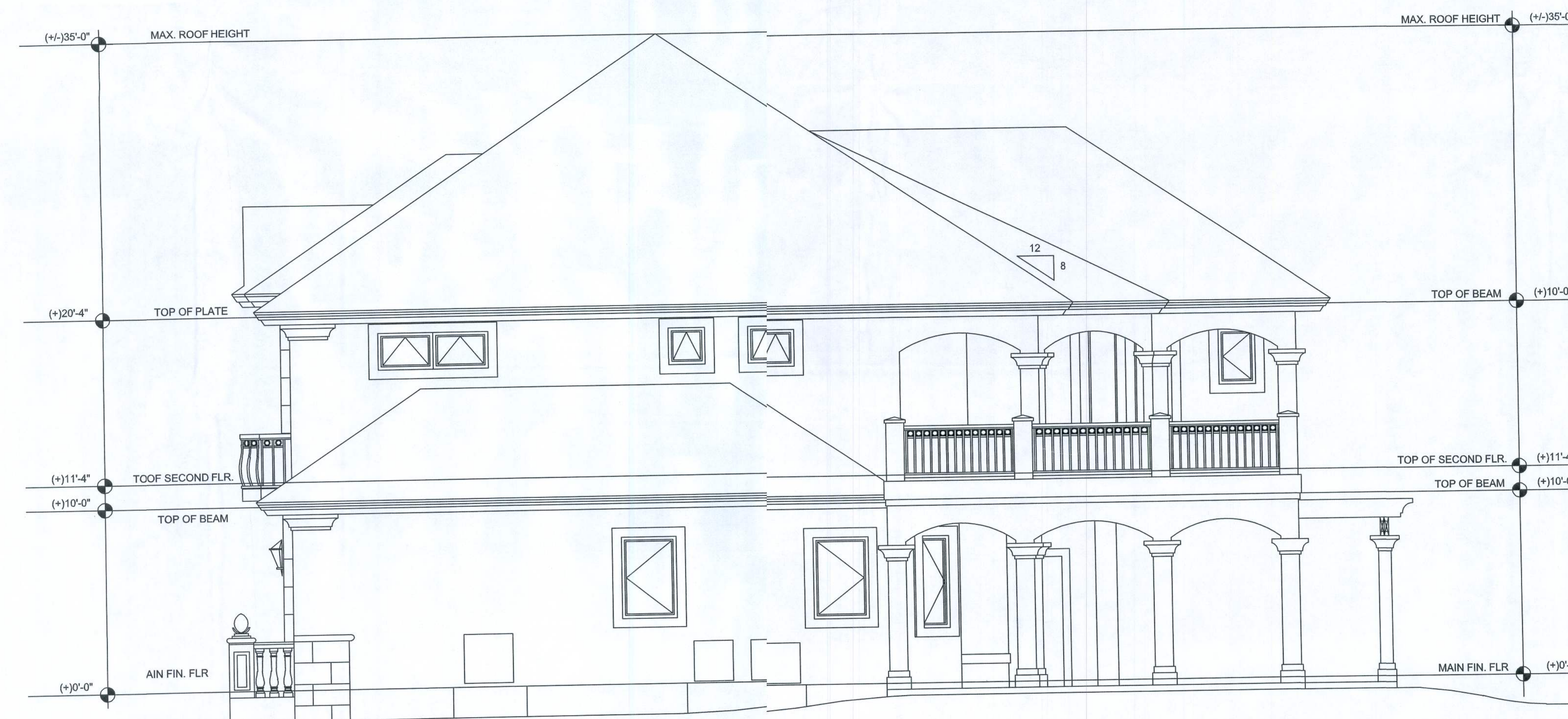
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LEFT ELEVATION
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RIGHT ELEVATION
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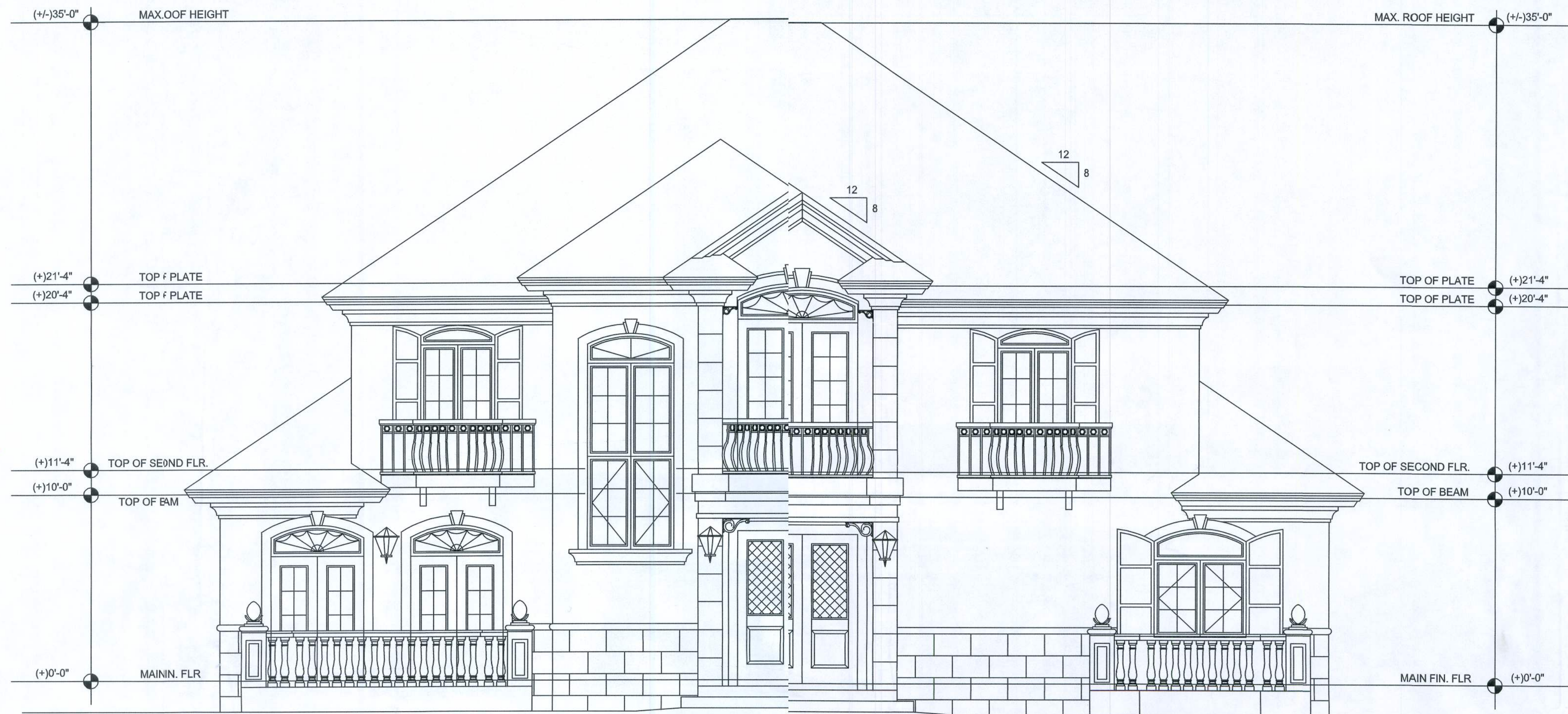
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FRONT ELEVATION
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REAR ELEVATION
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