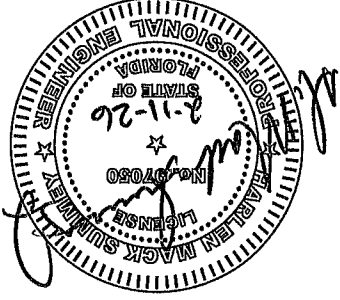


STRUCTURAL PLANS
FOR

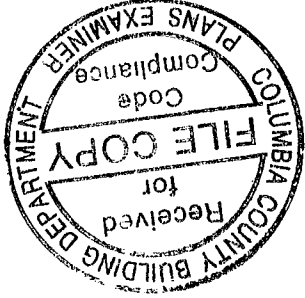
MICHAEL ENGBRETTSON
DEGOLLADO METAL BUILDINGS
30' X 70' X 12' METAL BUILDING

456 SW KOONVILLE AVE
COLUMBIA COUNTY - LAKE CITY TOWNSHIP - FLORIDA

PROJECT NO.: E-10672
JANUARY, 2026



Summey Engineering Associates, PLLC
Engineering - Consulting - Surveying
PO Box 968, Ashboro, NC 27204
Ph 336-328-0902 Fx 336-328-0922
www.summyengineering.com



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S14	TYPICAL FRAMING VERTICAL ROOF / SIDING OPTION

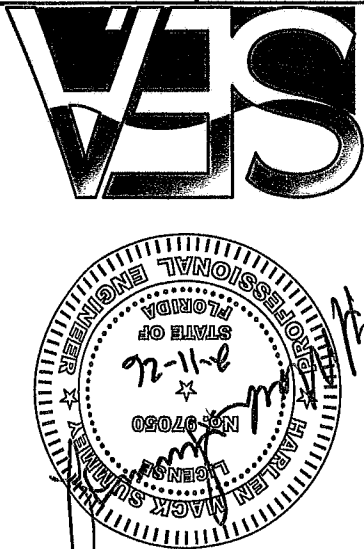
GENERAL STRUCTURAL NOTES

- A. GENERAL NOTES:
- ALL WORK SHALL CONFORM TO THE FLORIDA STATE BUILDING CODE, LATEST EDITION.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LAYOUT OF FOUNDATIONS AND SHALL COORDINATE THE LOCATIONS OF ALL FOOTINGS, ANCHOR BOLTS, AND OTHER EMBEDDED ITEMS WITH THESE DRAWINGS.
 - ANY CHANGES IN FIELD WHICH MAY AFFECT LOCATION AND/OR REACTIONS OF THE FOUNDATION MEMBERS SHALL BE BROUGHT TO THE FOUNDATION ENGINEER'S ATTENTION IMMEDIATELY.
 - THE LOCATIONS AND DIMENSIONS OF THE STRUCTURAL MEMBERS WE OBTAINED FROM THE CONSTRUCTION DRAWINGS OF THE PRE-ENGINEERED BUILDING MANUFACTURER.
 - ORIENTATION OF THE BUILDING SHALL BE DETERMINED BY THE OWNER.
 - FOUNDATION ENGINEER SHALL NOT BE RESPONSIBLE FOR EXISTING SLAB OR OTHER FLOOR MATERIALS. FOOTINGS WERE DESIGNED INDEPENDENT OF EXISTING BUILDING FLOOR CONDITIONS.
 - DESIGN CRITERIA, BUILDING CODE, 2023 EDITION
 1. FLORIDA
 2. SUPERIMPOSED DEAD LOAD
 3. DEAD LOAD
 4. COLLATERAL LOAD
 5. DESIGN LIVE LOAD
 6. ROOF LIVE LOAD
 7. FLOOR LIVE LOAD
 8. SNOW LOAD
 9. ROOF SNOW LOAD
 10. IMPORTANCE FACTOR
 11. BASIC WIND SPEED
 12. MWFRS ANALYSIS PROCEDURE
 13. WIND EXPOSURE CATEGORY
 14. SEISMIC ANALYSIS PROCEDURE
 15. SEISMIC
 16. SEISMIC DESIGN CATEGORY
 17. SHORT PERIOD
 18. 1-SECOND PERIOD
 19. SITE CLASSIFICATION
 20. IMPORTANT FACTOR
 21. BASIC STRUCTURAL SYSTEM (CHECK ONE):
 - 22. BEARING WALL
 - 23. BUILDING FRAME
 - 24. DUAL WITH INTERM. R/C OR SPECIAL STEEL
 - 25. MOMENT FRAME
 - 26. ANALYSIS PROCEDURE
 - 27. SIMPLIFIED
 - 28. MODAL
 29. ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED?
 - 30. LATERAL DESIGN CONTROL
 - 31. EARTHQUAKE
 - 32. WIND
 33. CONCRETE
 - 34. CONCRETE WORK SHALL CONFORM TO THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," ACI 318-11, INCLUDING SUPPLEMENTS
 - 35. CONCRETE SHALL REACH A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS, NORMAL WEIGHT
 - 36. FOUNDATIONS, MINIMUM ALLOWABLE SOIL PRESSURE - 2,000 PSF (PRESUMPTIVE). THIS SHALL BE VERIFIED BY A QUALIFIED GEOTECHNICAL ENGINEER BEFORE FOOTINGS ARE PLACED.
 - 37. ALL FILL INSIDE BUILDING SHALL BE SELECT MATERIAL FREE FROM ROOTS, TRASH, WOOD SCRAPS, AND OTHER EXTRANEIOUS MATERIALS. PLACE FILL IN LIFTS NOT EXCEEDING 12 INCHES AND COMPACT EACH EXCEEDING LIFT TO 95% DENSITY AT OPTIMUM MOISTURE CONTENT AS MEASURED BY ASTM D-698.
 - 38. FLOOR SLAB CONCRETE THICKNESS SHALL BE INSTALLED OVER A 6 MIL. VAPOR BARRIER OVER 4-INCH CRUSHED STONE FLOOR. (STONE OPTIONAL)
 - 39. PROVIDE CONSTRUCTION OR CONTROL JOINTS IN SLAB-ON-GRADE AT OFFSETS, COLUMN GRIDS, CHANGES IN DIRECTION AND AT 12 FEET MAXIMUM, OR AS SHOWN ON PLANS
 - 40. SAW CUT JOINTS SOON AFTER CONCRETE HARDENED JUST ENOUGH TO PREVENT PLANS
 41. MISCCELLANEOUS
 - 42. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS.
 - 43. NO CHANGE IN SIZE OF THE DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
 - 44. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
 - 45. DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS.
 - 46. DIMENSIONS
 - 47. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE DIMENSIONS OF THE STRUCTURAL DRAWINGS AND ADVISING THE ENGINEER OF ANY DIFFERENCES IN DIMENSIONS BETWEEN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO COMMENCING CONSTRUCTION
 - 48. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO INSTALLATION
 - 49. CONFORMANCE SHALL BE RESPONSIBLE TO INFORM FOUNDATION ENGINEER OF ANY DIMENSIONAL DISCREPANCIES BETWEEN ARCHITECTURAL, STRUCTURAL, AND/OR PRE-ENGINEERING BUILDING PLANS AND FOUNDATION PLANS PRIOR TO CONSTRUCTION
 - 50. CONSTRUCTION SAFETY
 - 51. THESE STRUCTURAL DRAWINGS DO NOT CONTAIN NECESSARY COMPONENTS FOR SAFETY DURING CONSTRUCTION. BRACE ALL WALLS DURING CONSTRUCTION TO PREVENT DAMAGE FROM WIND AND WATER AND FROM CONSTRUCTION LOADS UNTIL ALL SUPPORTING WALLS AND ROOF DIAPHRAGM ARE IN PLACE.
 - 52. PROJECT INFORMATION.
 - 53. CONTRACTOR TO VERIFY ALL DIMENSIONAL REQUIREMENTS FOR BUILDING PLACEMENT AND ORIENTATION OF ANCHOR BOLTS PRIOR TO POURING CONCRETE.
 - 54. THESE PLANS ARE FOR STRUCTURAL DESIGN ONLY. CONTRACTOR TO CONFORM TO ALL APPLICABLE CODES FOR ANY OTHER DESIGN CRITERIA.

SHEET INDEX / GENERAL NOTES
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Sheet No.

Job No.:

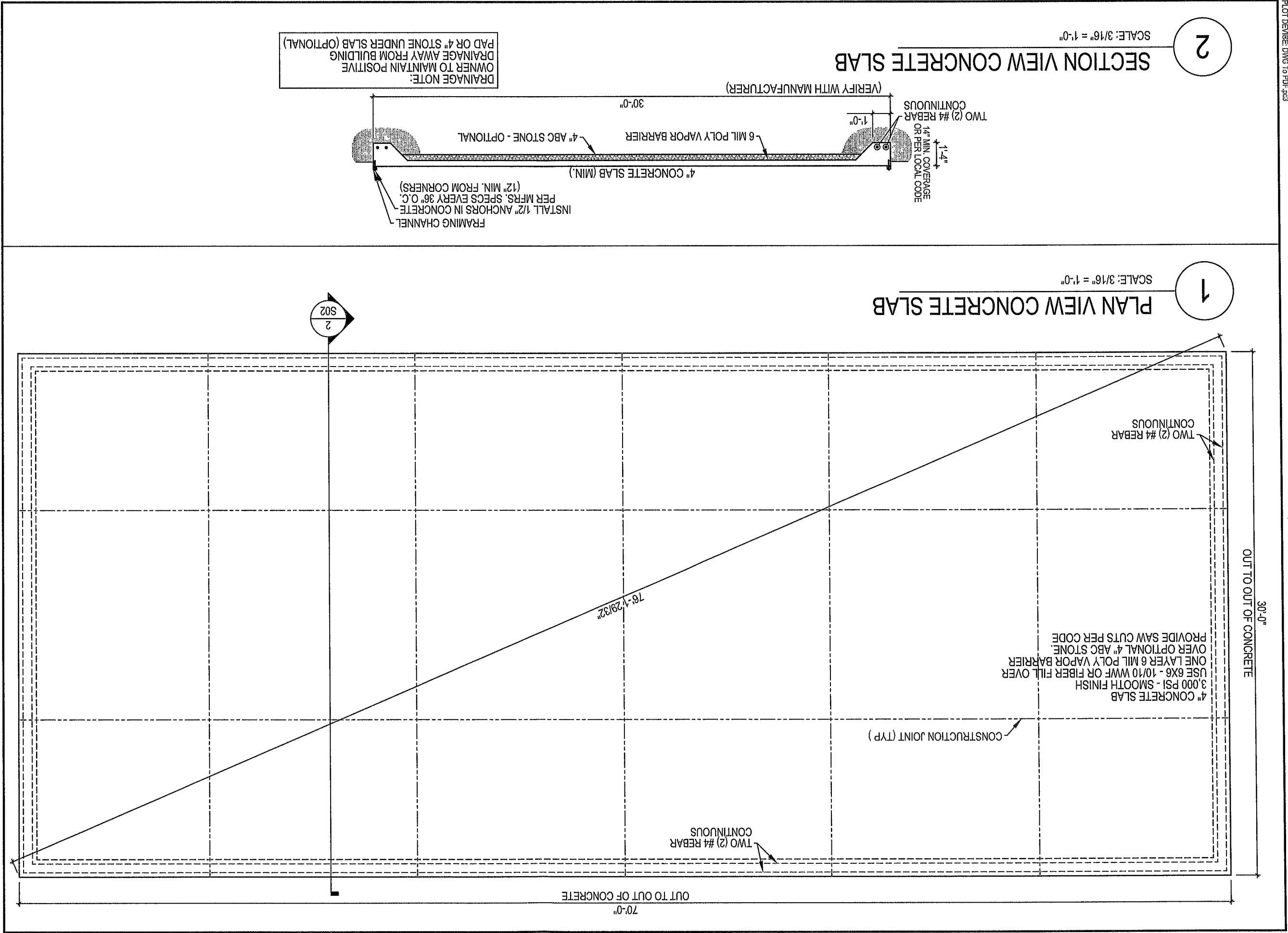
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E-10672

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FOUNDATION LAYOUT

MICHAEL ENGBRETSON

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SEA

Professional Engineer
State of Florida
No. 97050
2-11-26
HARLEN MAJAK SUMMEY
Licensure

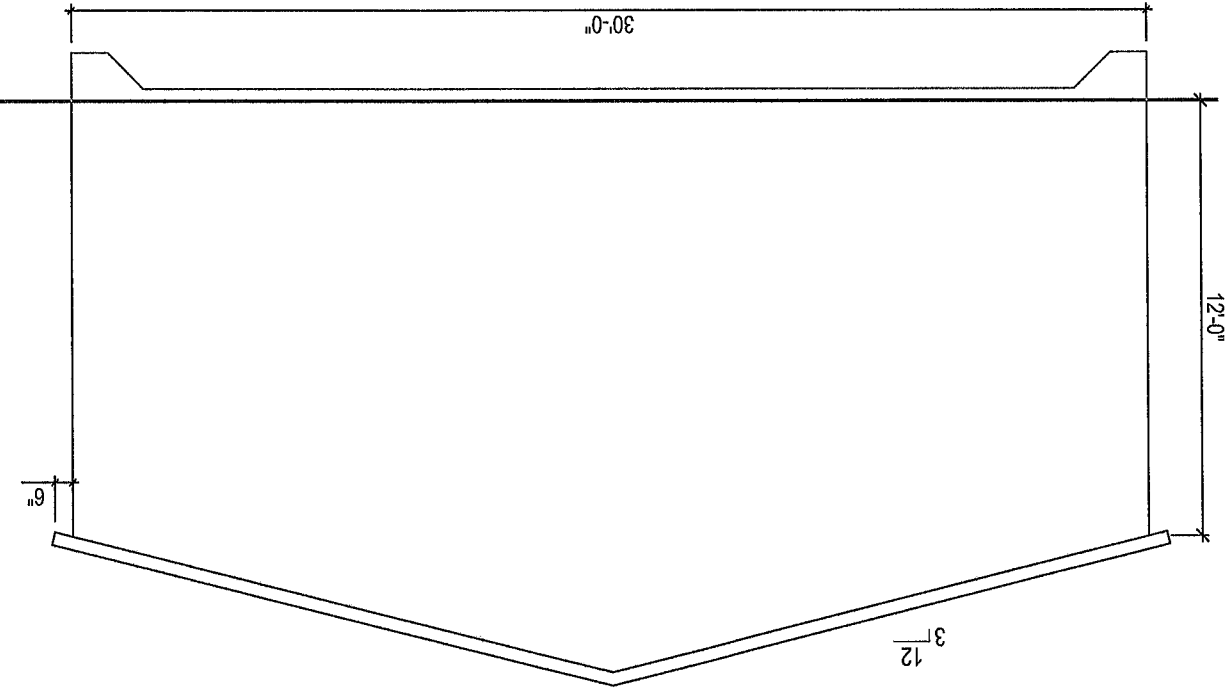
LAKE CITY, FLORIDA

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REAR ELEVATION

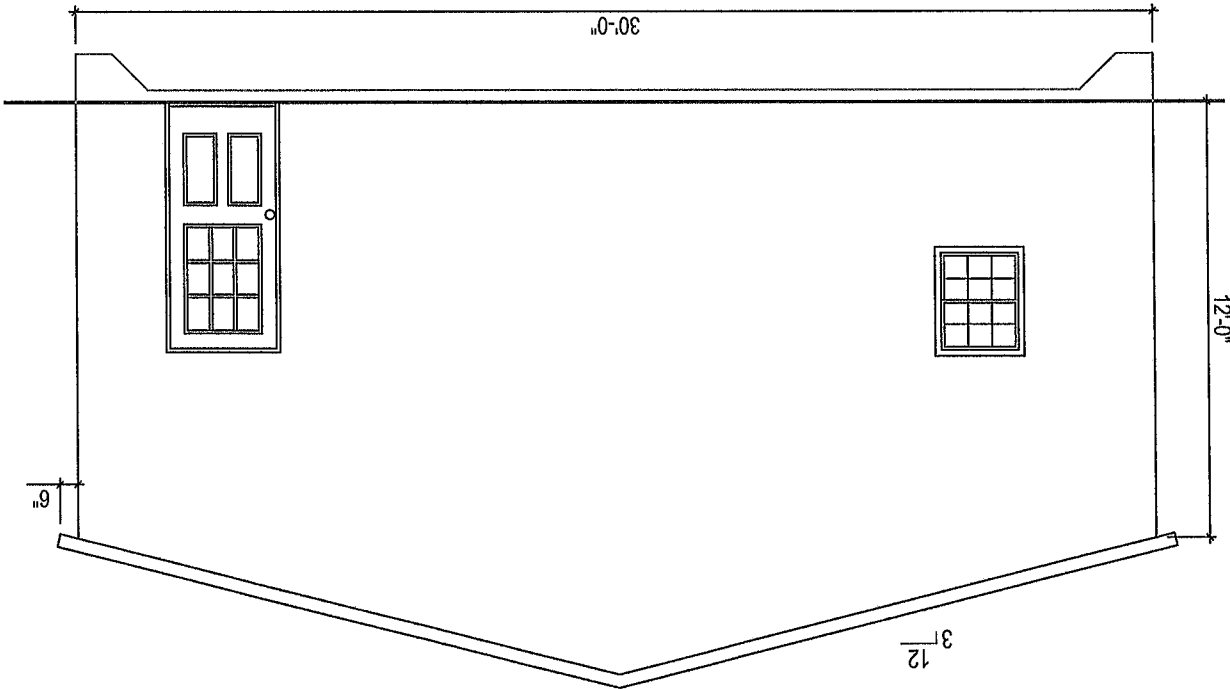
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1

FRONT ELEVATION

SCALE: 3/16" = 1'-0"



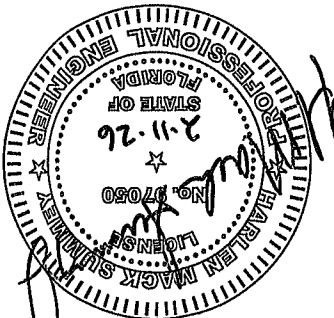
ELEVATIONS
MICHAEL ENGEBRETSON

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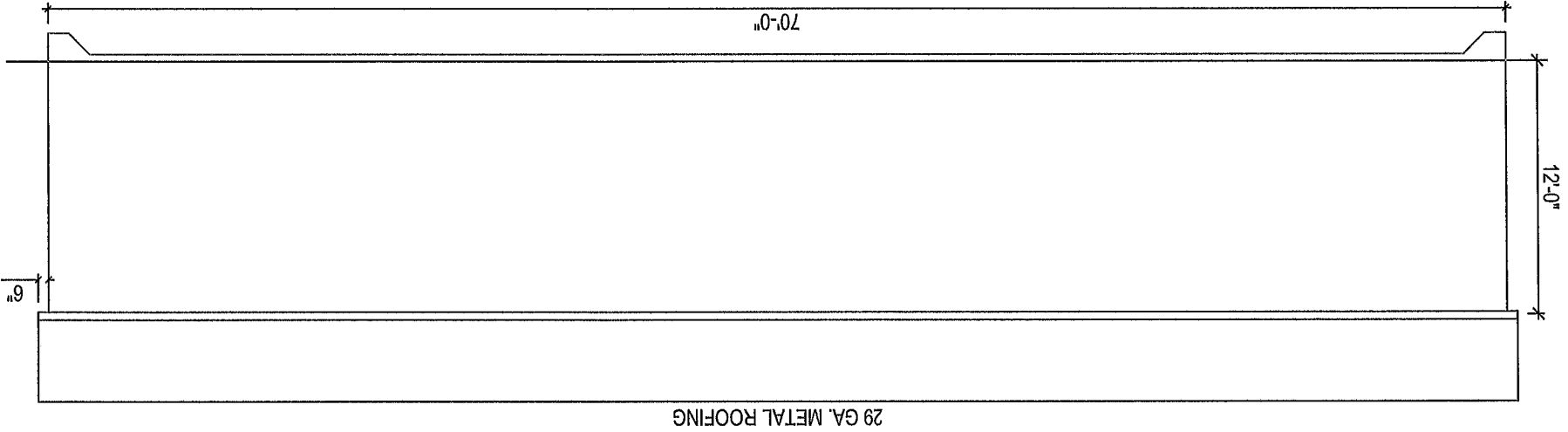
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2

LEFT ELEVATION

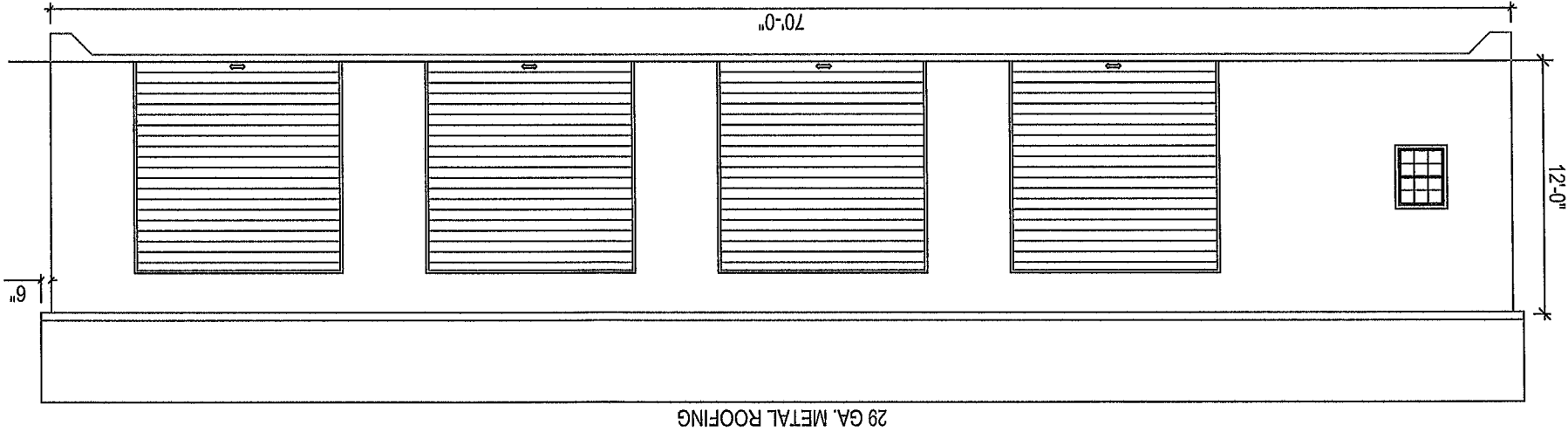
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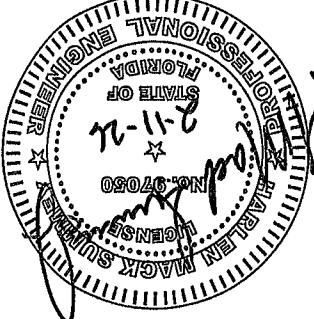
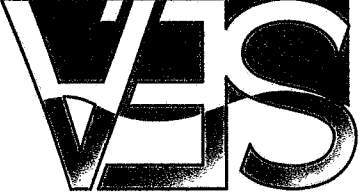
RIGHT ELEVATION

SCALE: 1/8" = 1'-0"



ELEVATIONS
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Checked By: HMSJ
Job No.: E-10672
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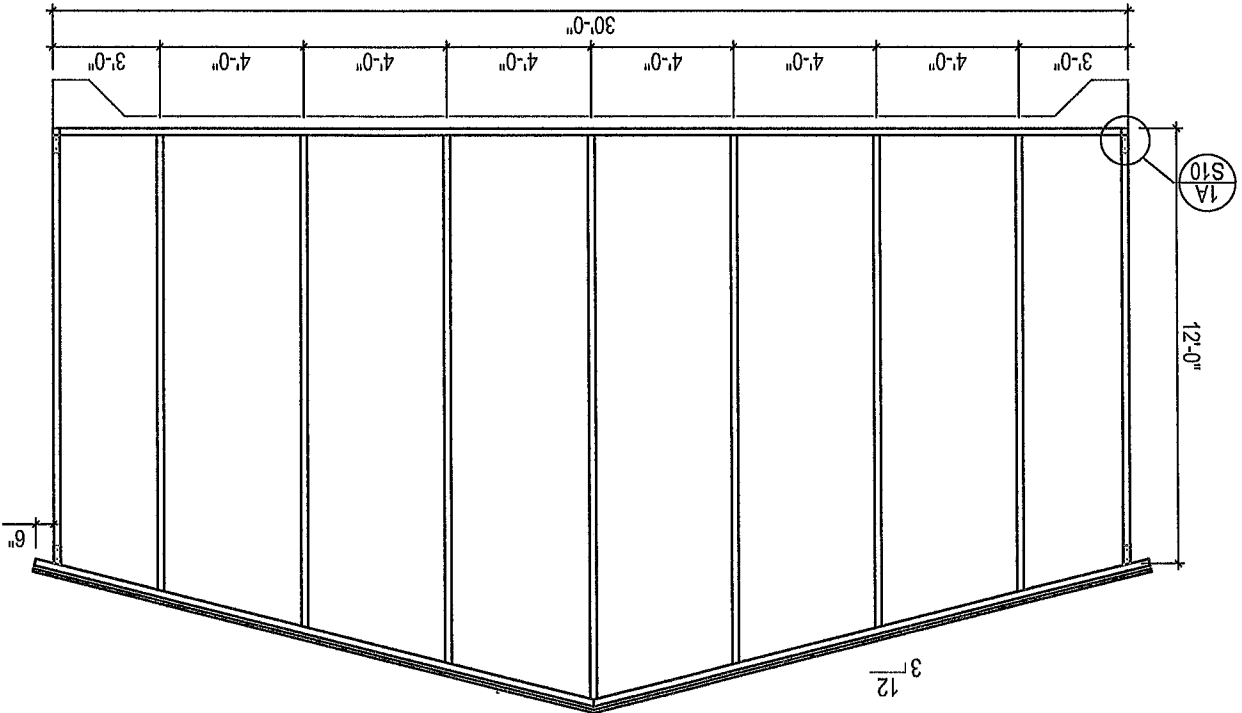
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REAR WALL

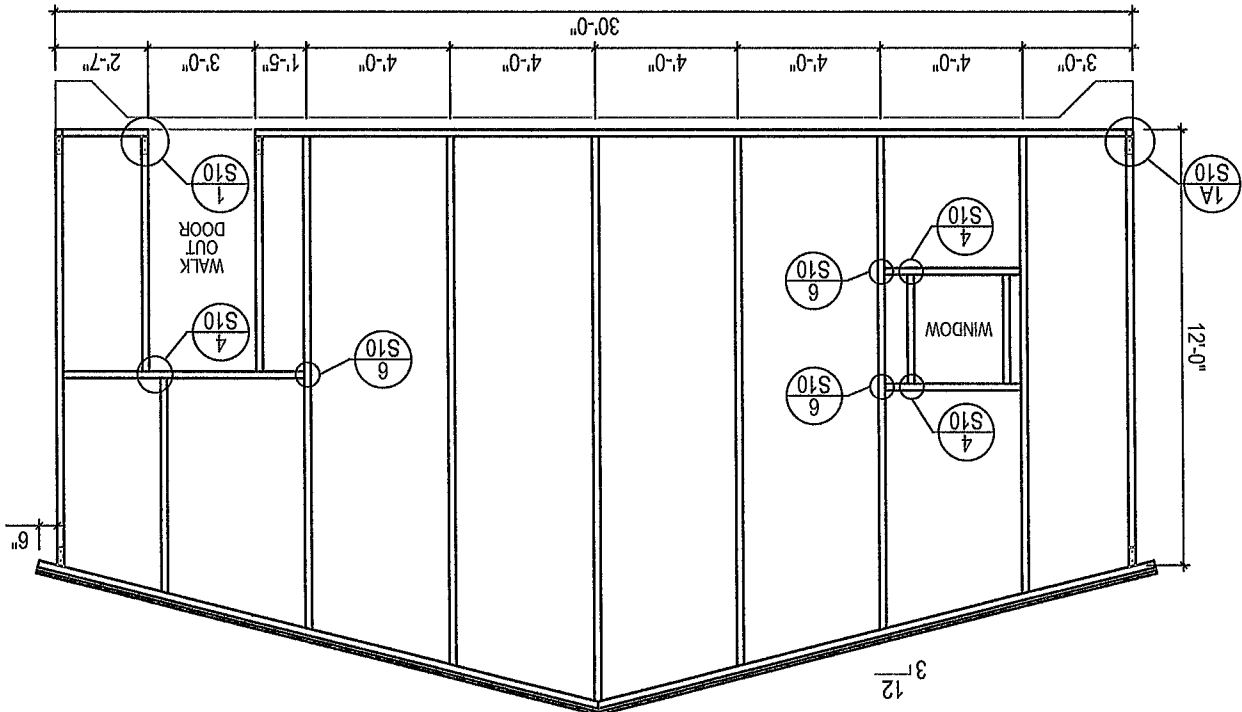
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FRONT WALL

SCALE: 3/16" = 1'-0"



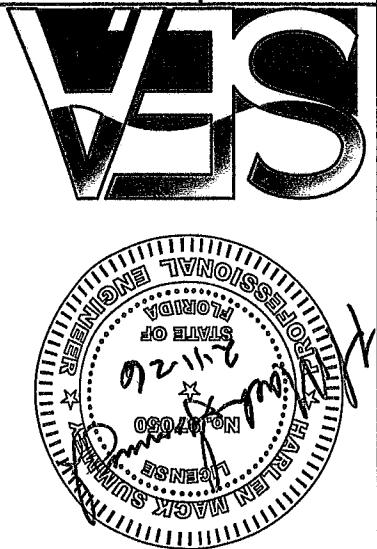
FRAMING SECTIONS
MICHAEL ENGEBRETSON

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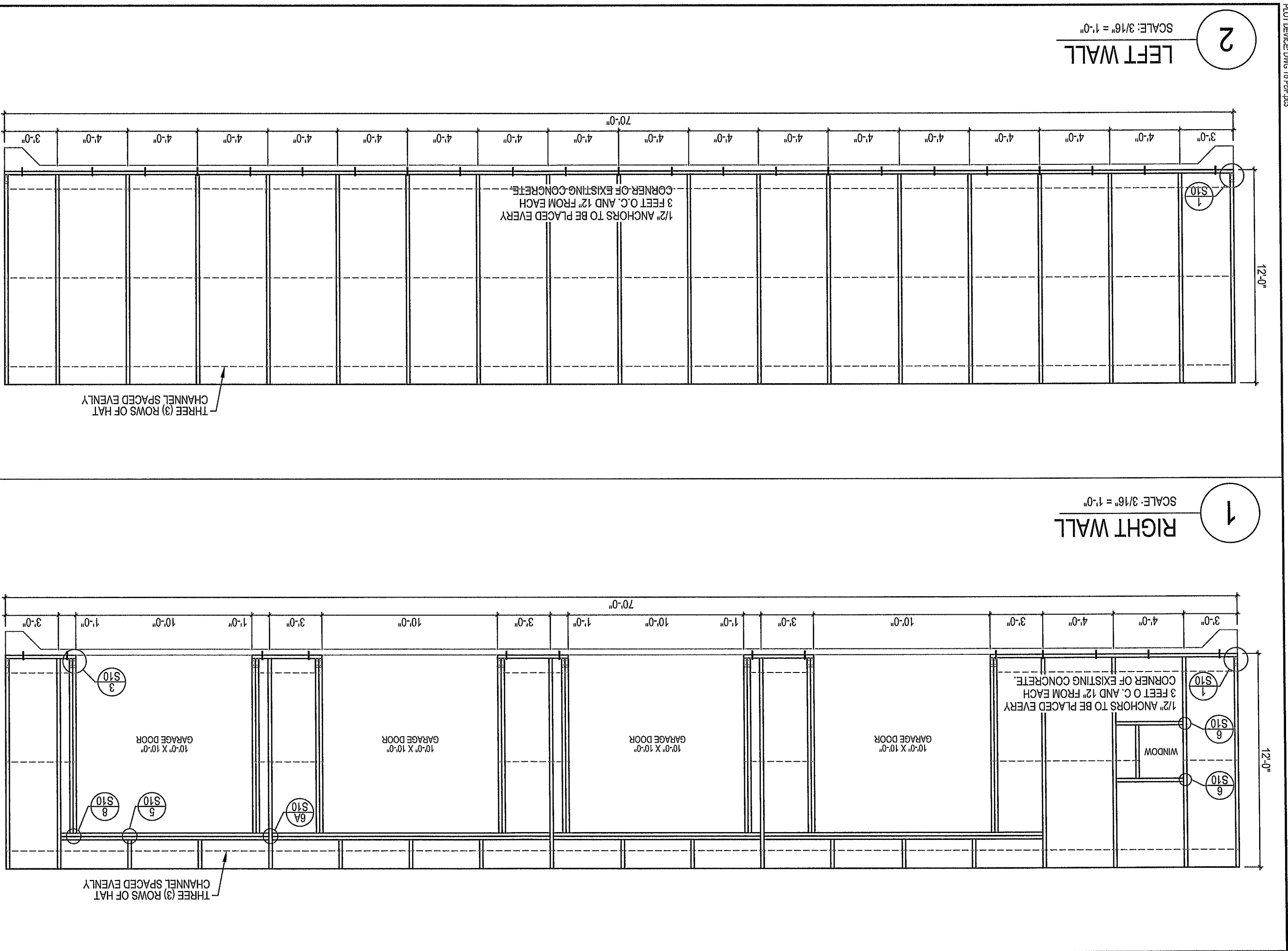
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E-10672

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505



FRAMING SECTIONS
MICHAEL ENGEBRETSON

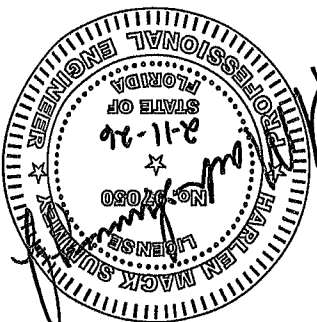
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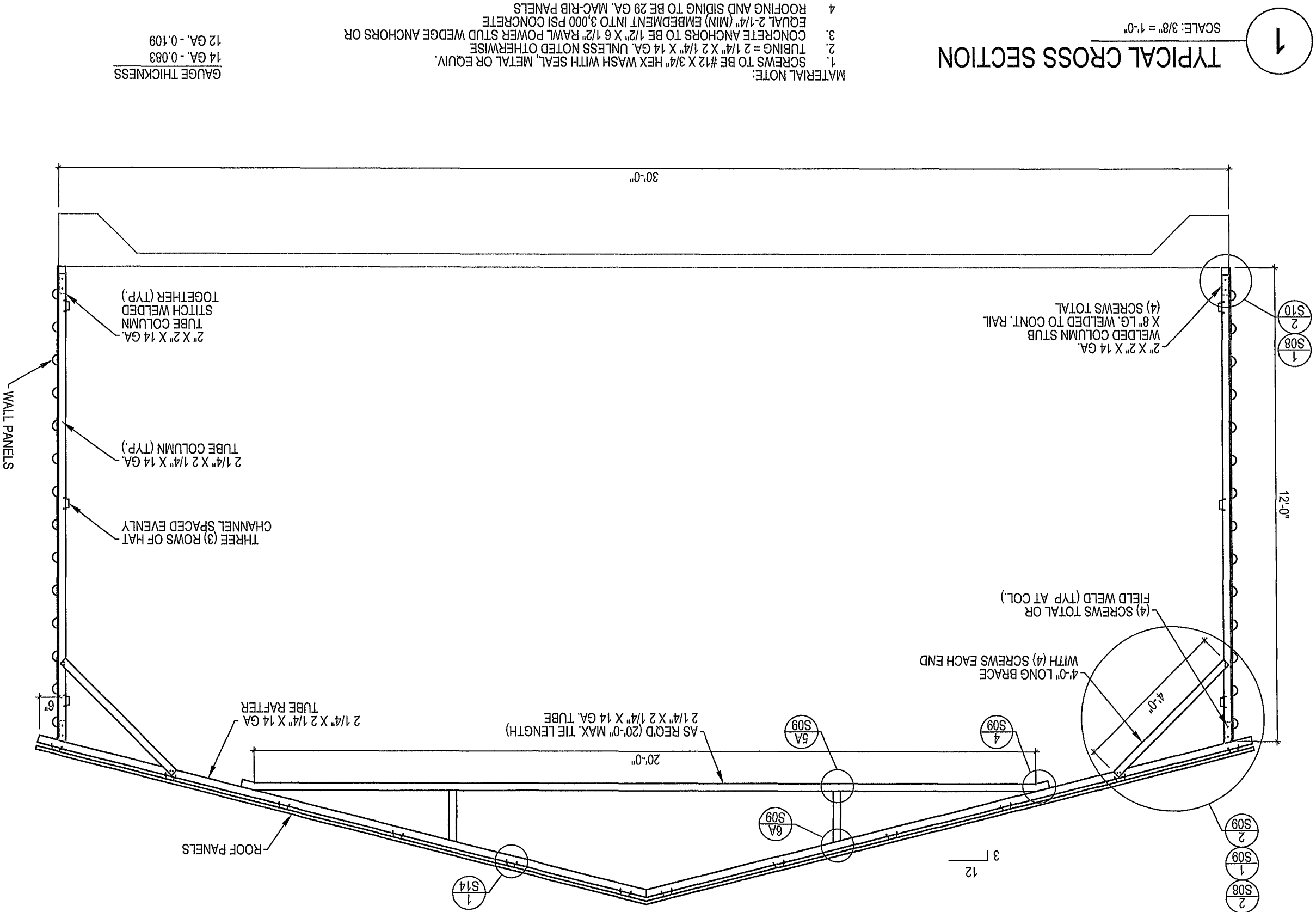
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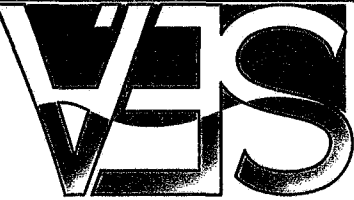
TYPICAL CROSS SECTION

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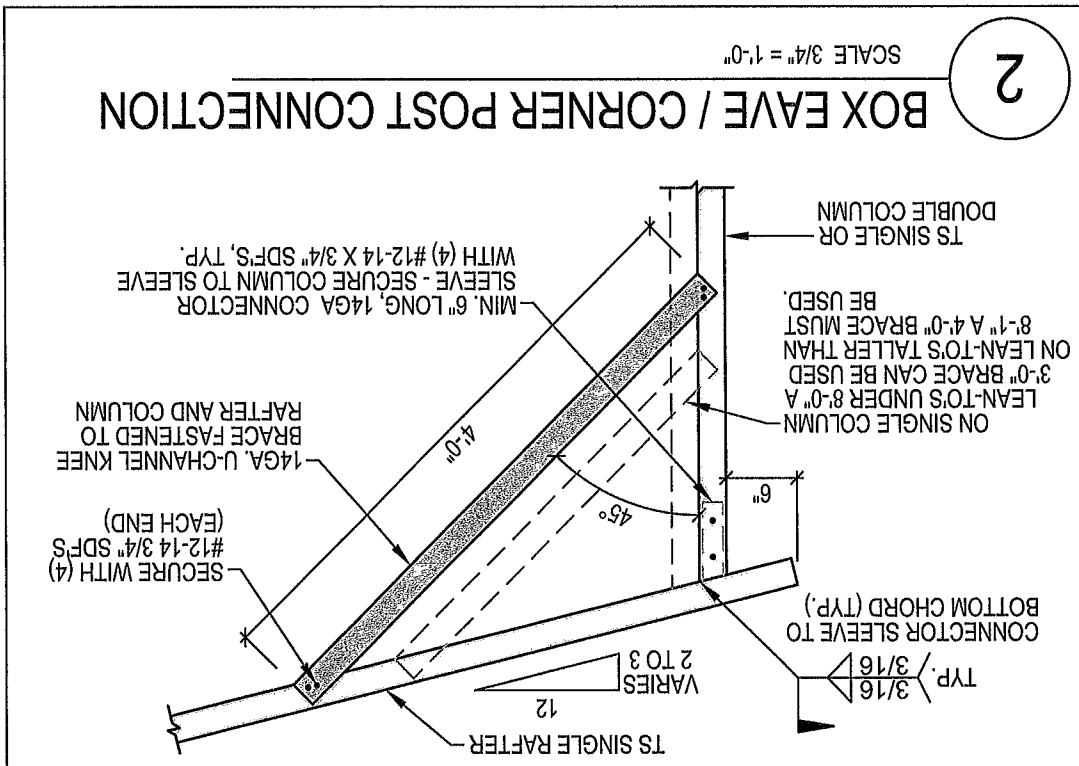
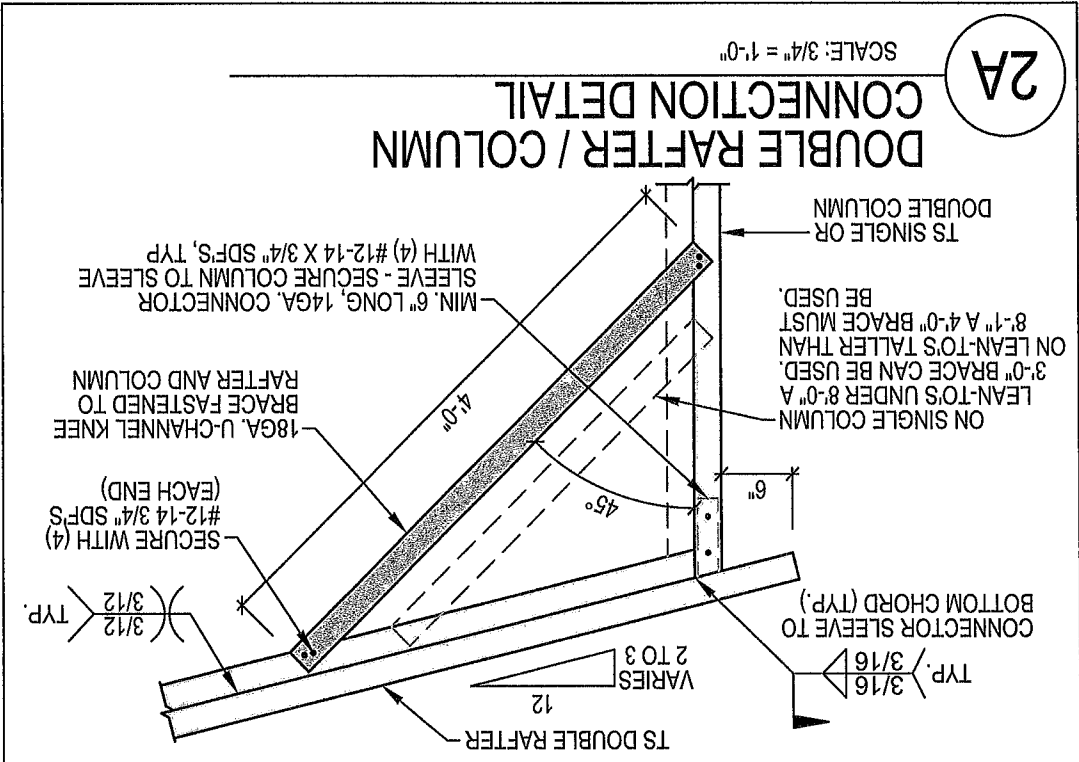
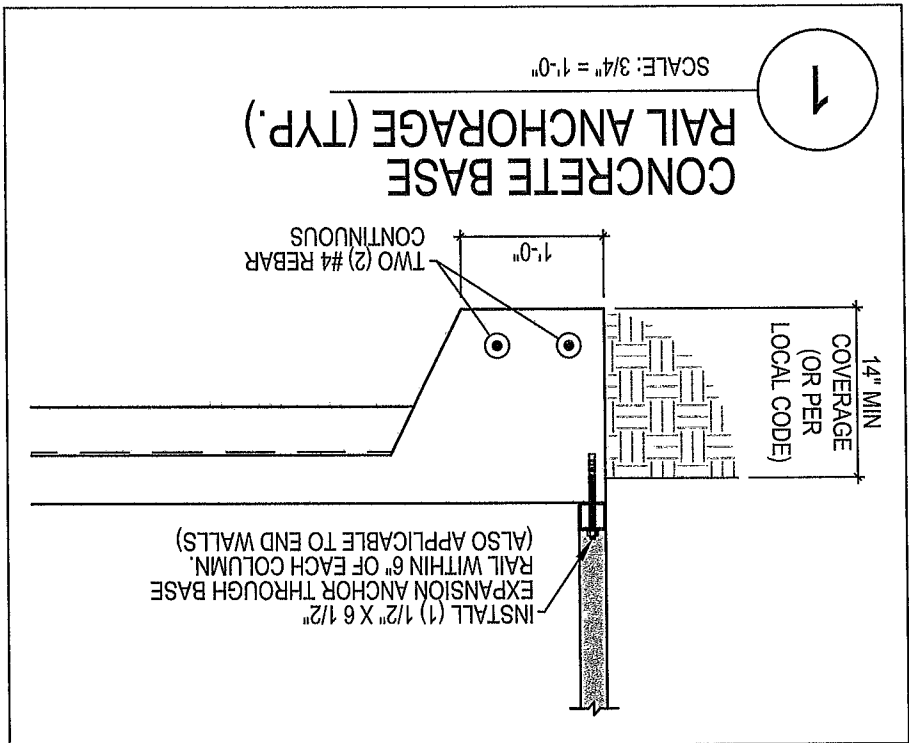
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S07

- ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 2,000 P.S.F.
- CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 P.S.I. AT 28 DAYS
- COVER OVER REINFORCING STEEL.
- FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318:
- 3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.
- REINFORCING STEEL:
- THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.
- REINFORCEMENT MAY BE BENT IN THE SHOP OR IN THE FIELD PROVIDED:
- 1 REINFORCEMENT IS BENT COLD
- 2 THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE BENT.

GENERAL NOTES:



CONCRETE BASE RAIL ANCHORAGE / CONN. DETAILS

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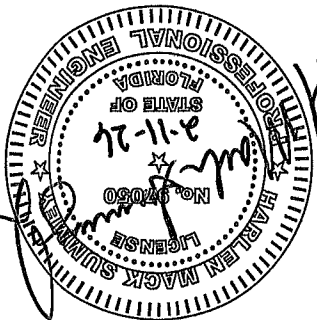
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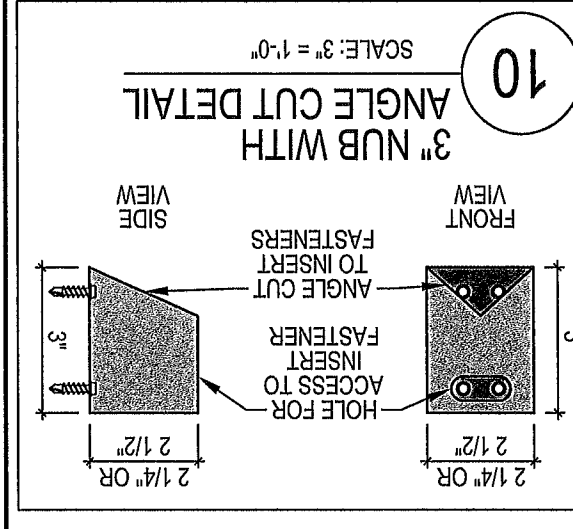
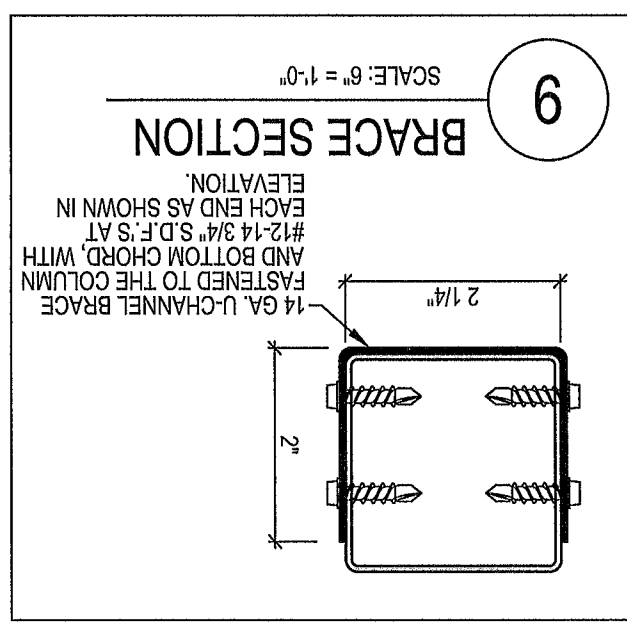
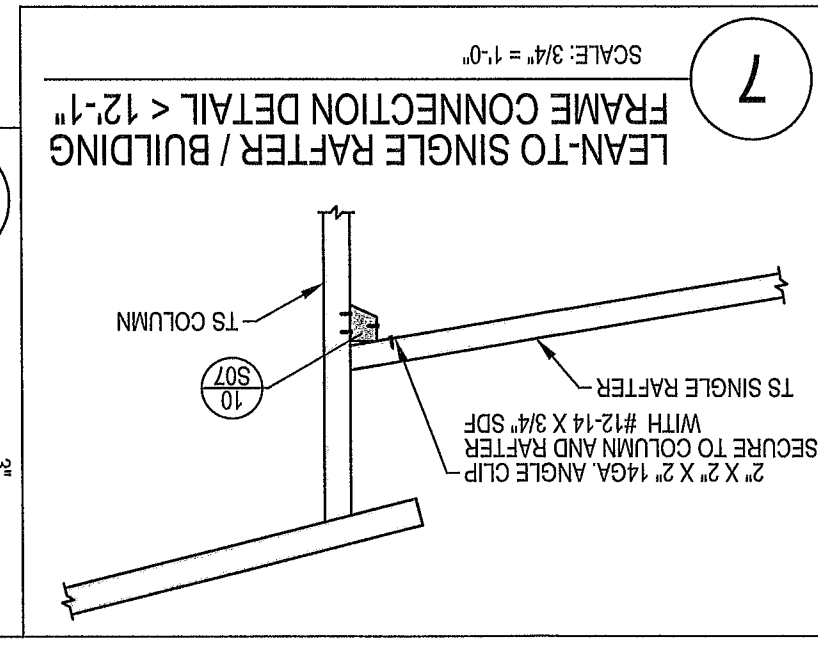
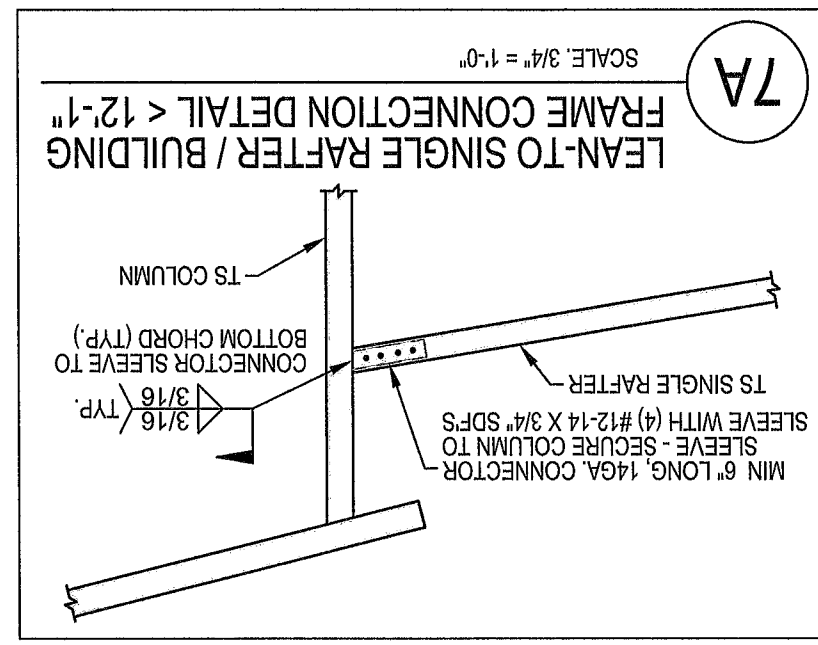
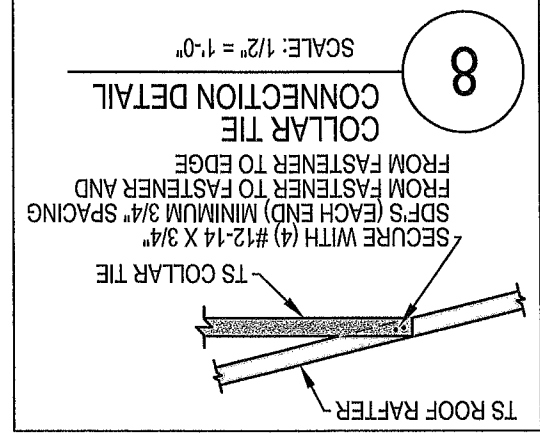
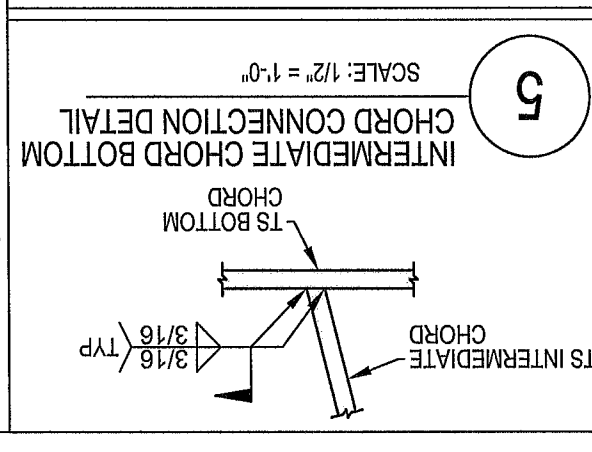
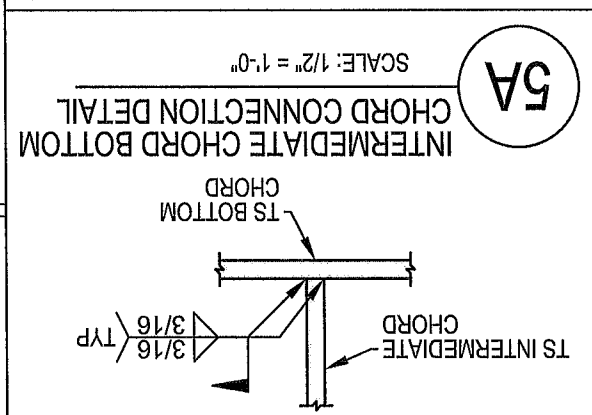
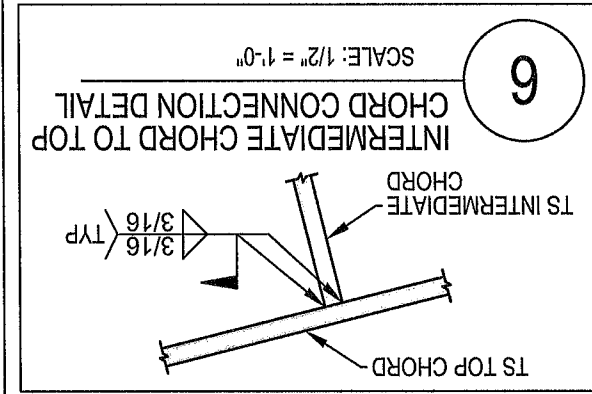
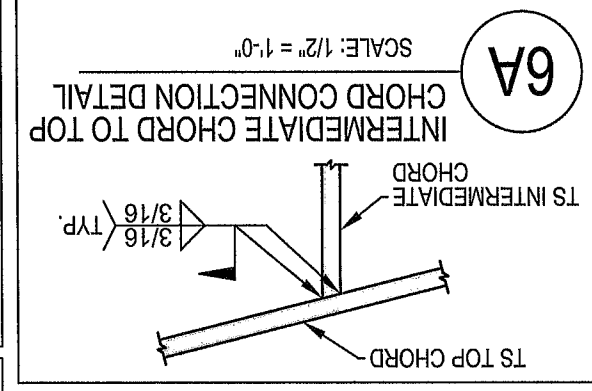
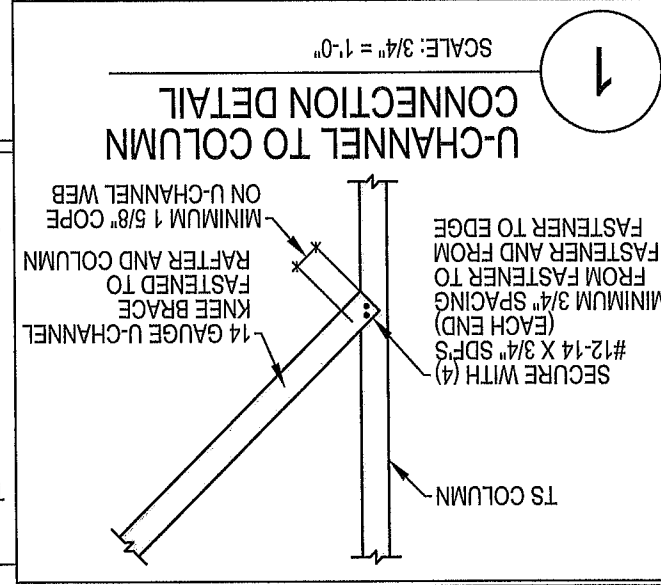
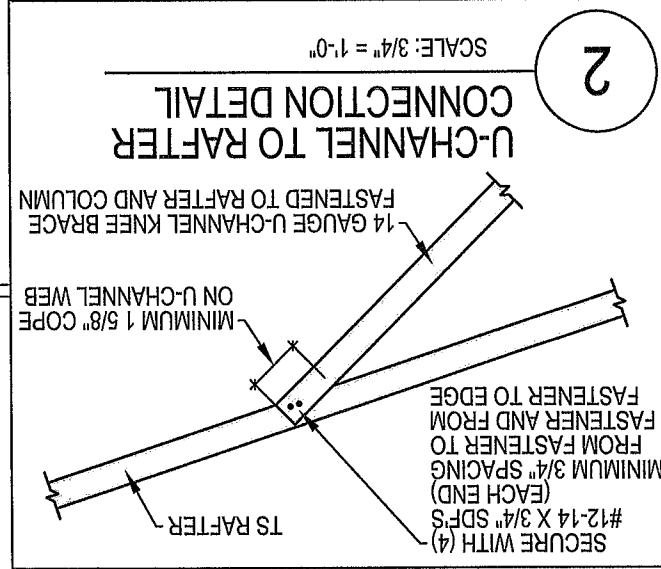
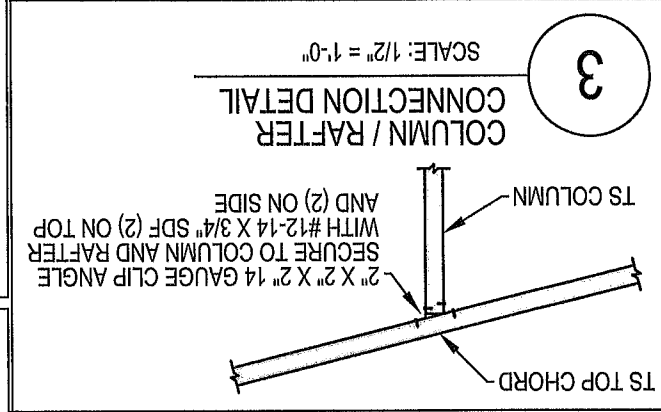
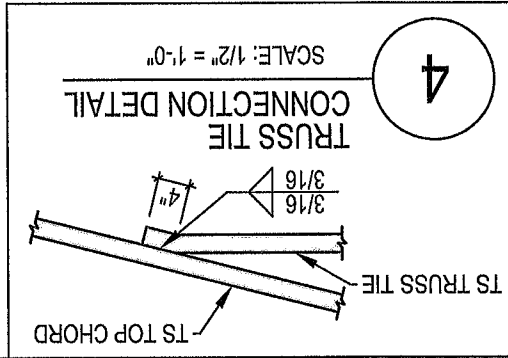
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805



CONNECTION DETAILS

MICHAEL ENGBRETON

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Sheet No.

509
8 of 13

STA

Professional Engineer
State of Florida
No. 27050
Expiration Date 11-26-26
Michael Engebreton

LAKE CITY, FLORIDA

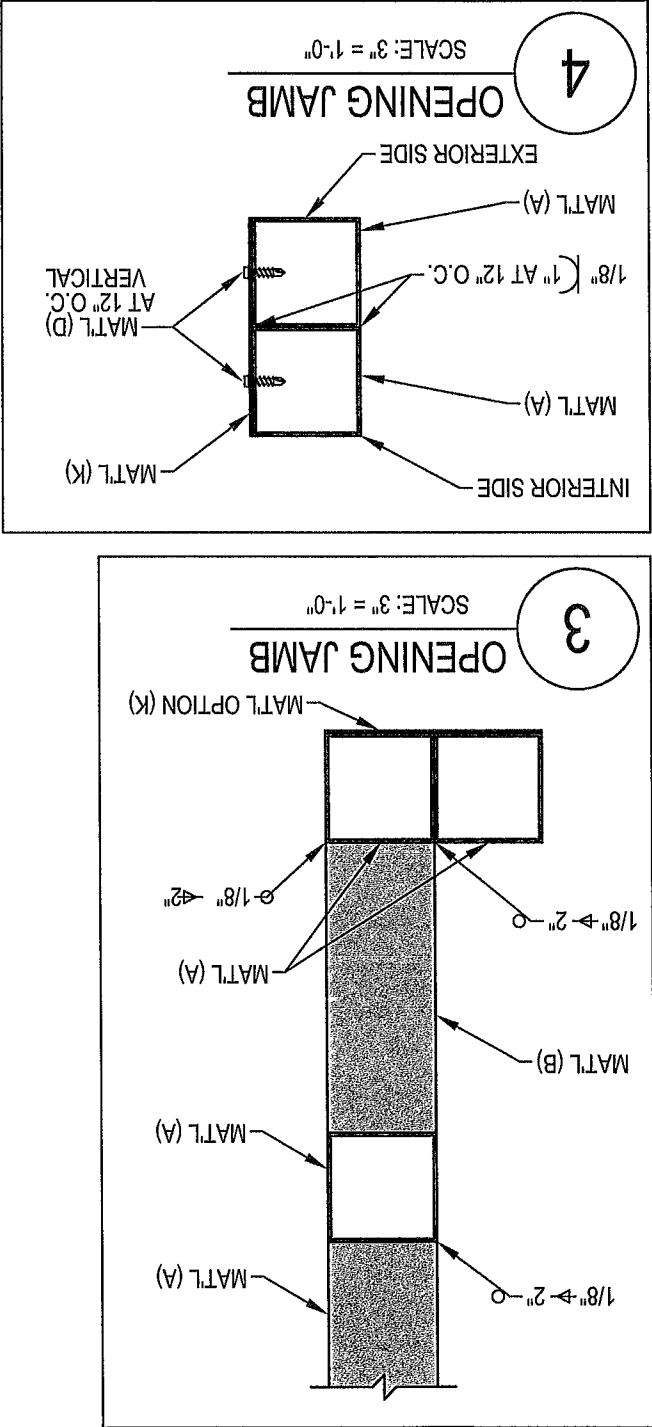
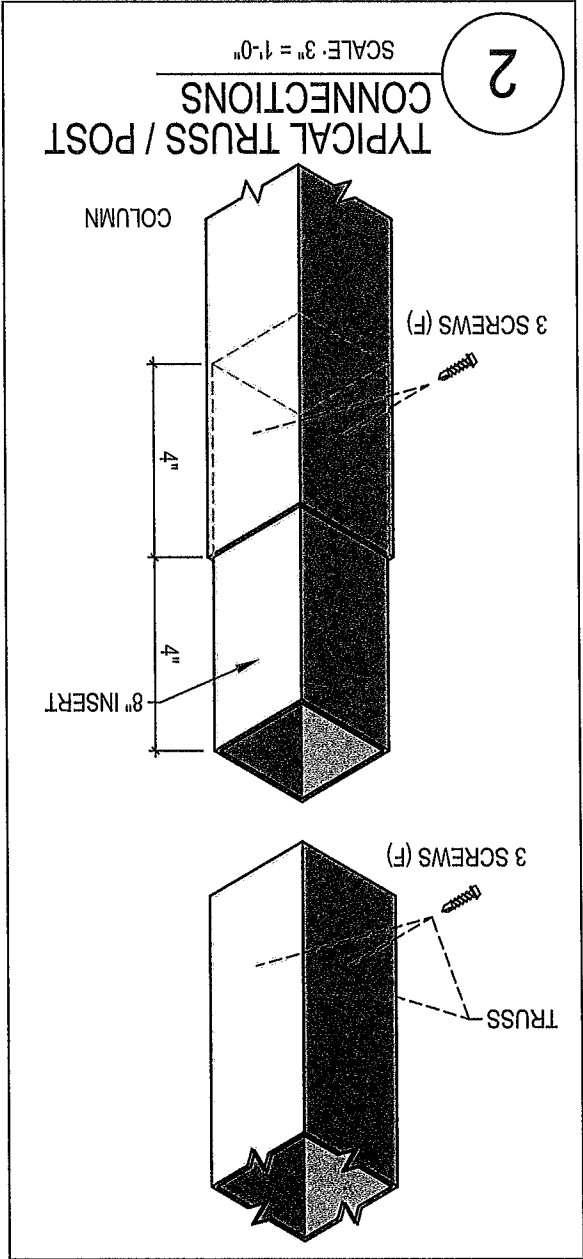
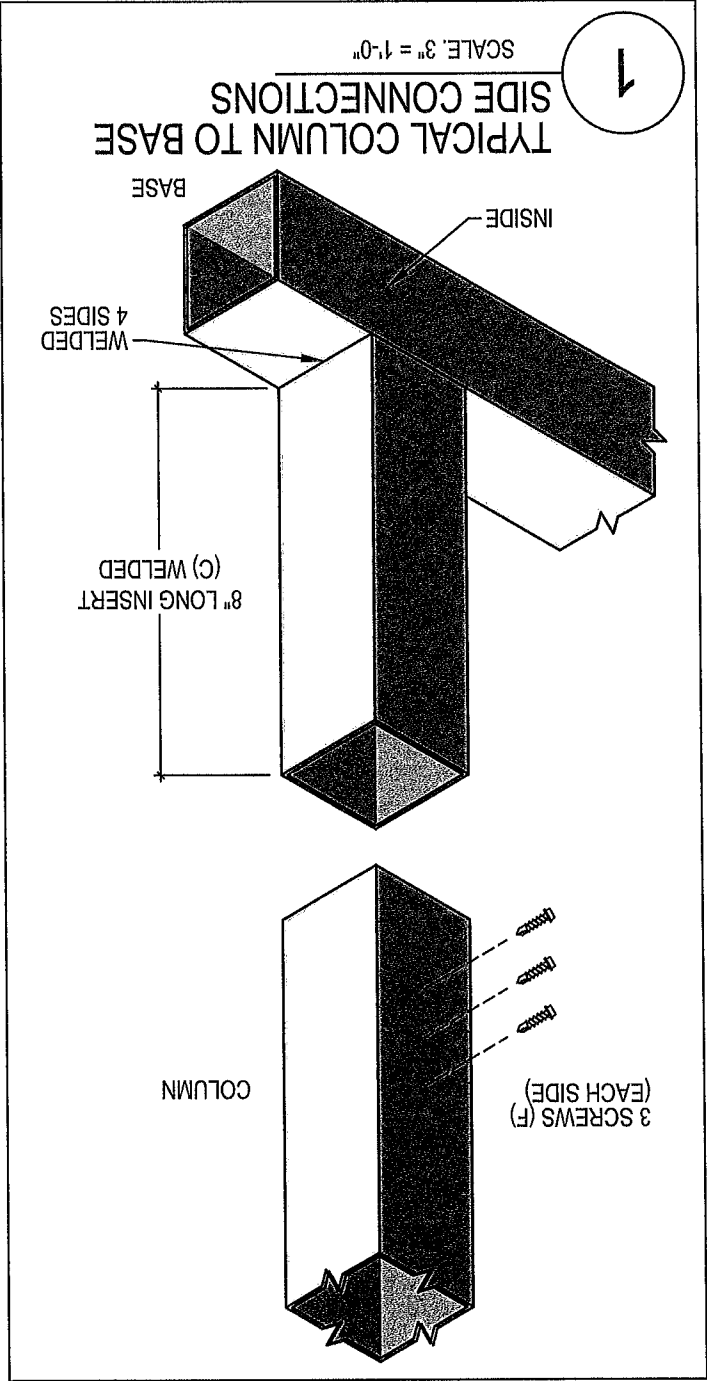


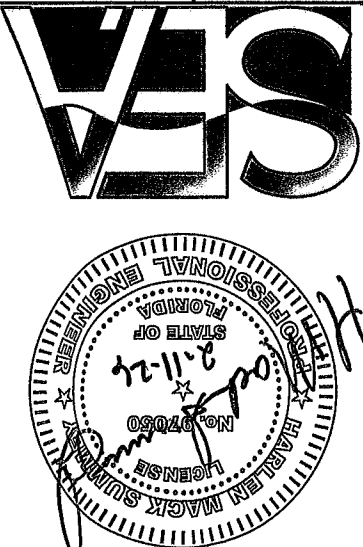
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A	2 1/4" X 2 1/4" X 14 GA. TUBING
B	4" X 4" X 1/4" ANGLE MIN. A-36 STEEL
C	NOT USED
D	#12 X 3/4" TEK SCREW
E	#12 X 3/4" TEK SCREW / LAP SCREW
F	#14 X 1 1/4" TEK SCREW / LAP SCREW
G	29 GAUGE METAL ROOF PANELS *
H	20 GA. GALVANIZED TP16 TIE PLATE 1 13/16" X 5" OR SIMPSON STRONG TIE A-21
J	2" X 2" X 3/16" 36 KSI STEEL ANGLE
K	4" X 12" GAUGE BAR
L	29 GAUGE METAL WALL PANELS *
M	2 1/4" X 2 1/4" X 14 GA. NESTED WITH 2" X 2" X 12 GA. TUBING

* COMMERCIAL BUILDING MUST HAVE A MINIMUM OF 26 GAUGE PANELS

CONNECTION DETAILS
MICHAEL ENGEBRETSON

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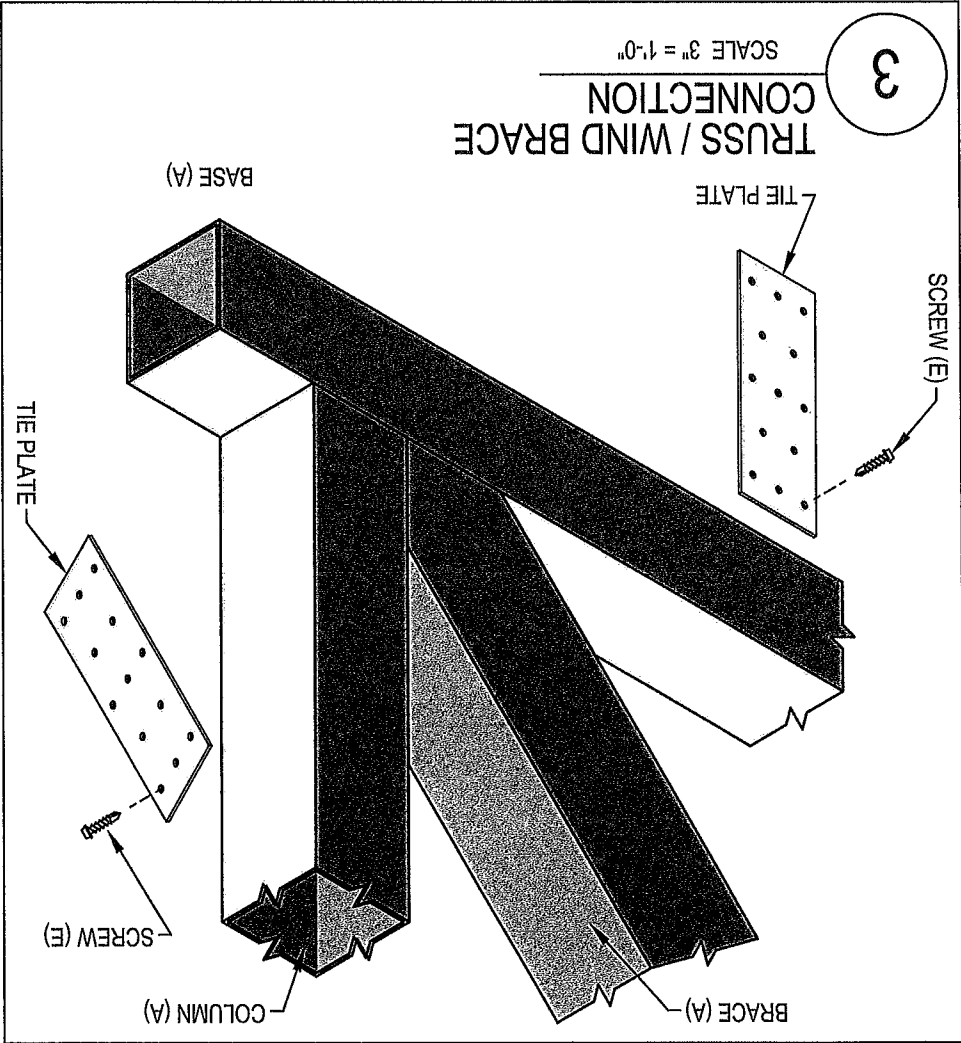
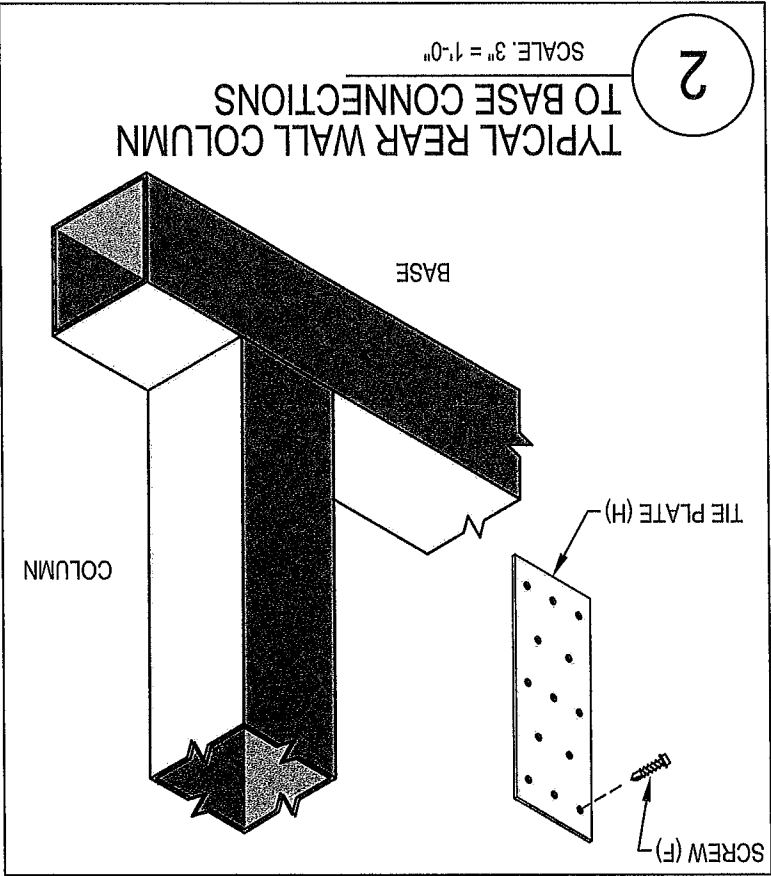
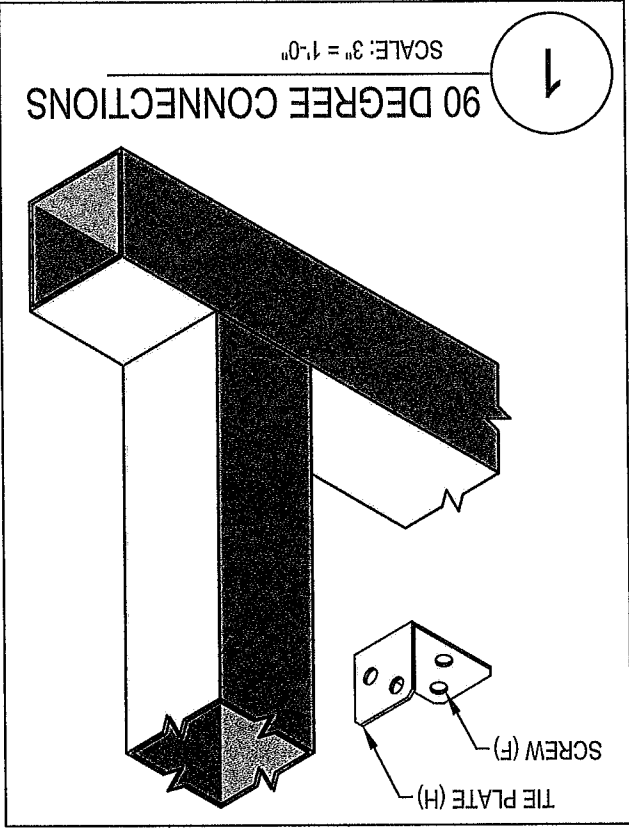
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Drawn By: MJC
Checked By: HMSJ
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CHART OF MATERIAL	
A	2 1/4" X 2 1/4" X 14 GA. TUBING
B	4" X 4" X 1/4" ANGLE MIN. A-36 STEEL
C	NOT USED
D	#12 X 3/4" TEK SCREW
E	#12 X 3/4" TEK SCREW / LAP SCREW
F	#14 X 1 1/4" TEK SCREW / LAP SCREW
G	29 GAUGE METAL ROOF PANELS *
H	20 GA. GALVANIZED TP15 TIE PLATE 1 13/16" X 5" OR SIMPSON STRONG TIE A-21
J	2" X 2" X 3/16" 36 KSI STEEL ANGLE
K	4" X 12" GAUGE BAR
L	29 GAUGE METAL WALL PANELS *
M	2 1/4" X 2 1/4" X 14 GA. NESTED WITH 2" X 2" X 12 GA. TUBING

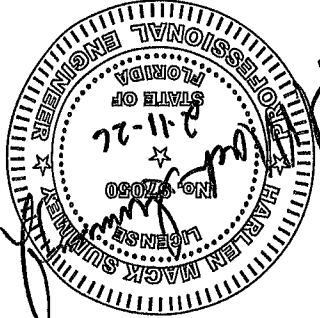
* COMMERCIAL BUILDING MUST HAVE A MINIMUM OF 26 GAUGE PANELS



CONNECTION DETAILS
MICHAEL ENGBREITSON

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E-10672

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HMSJ

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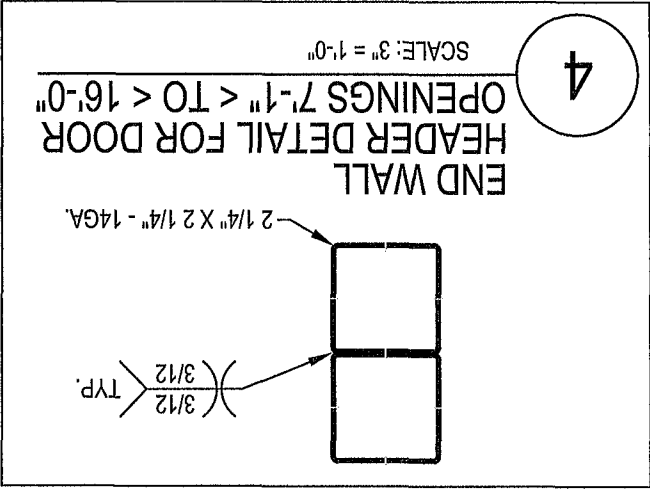
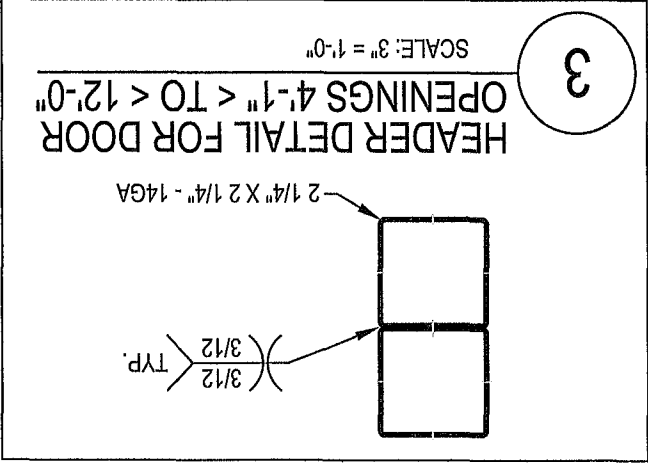
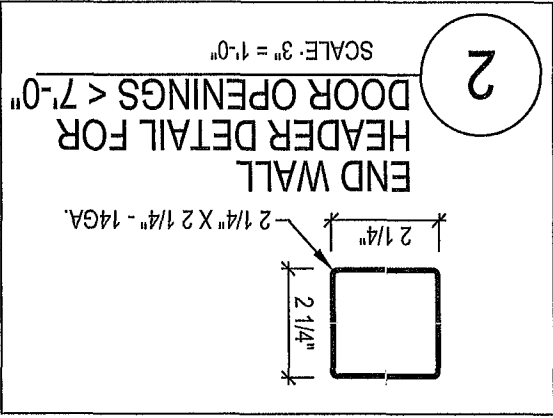
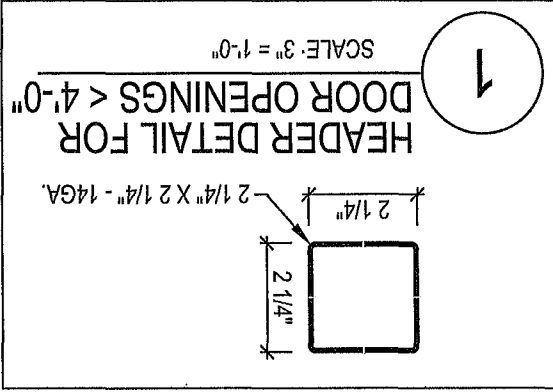
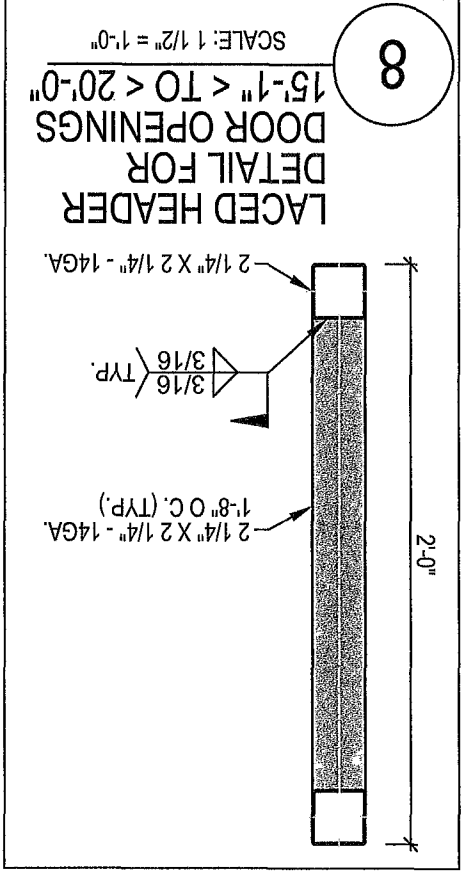
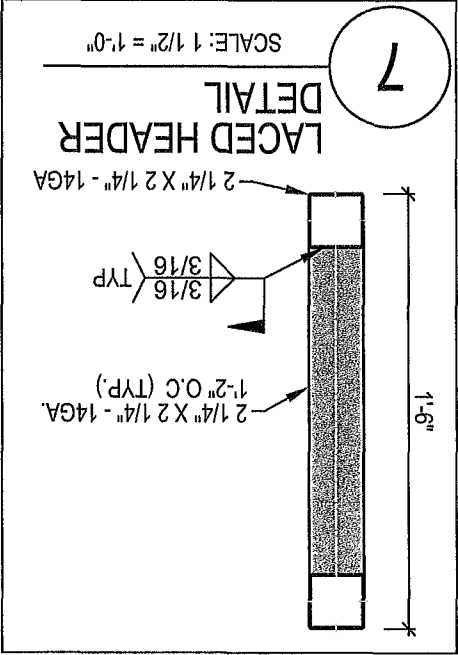
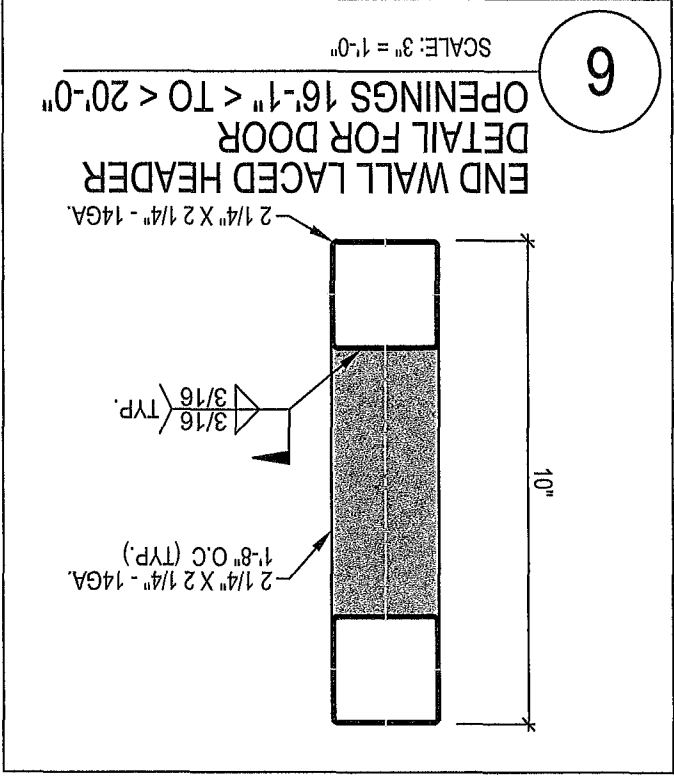
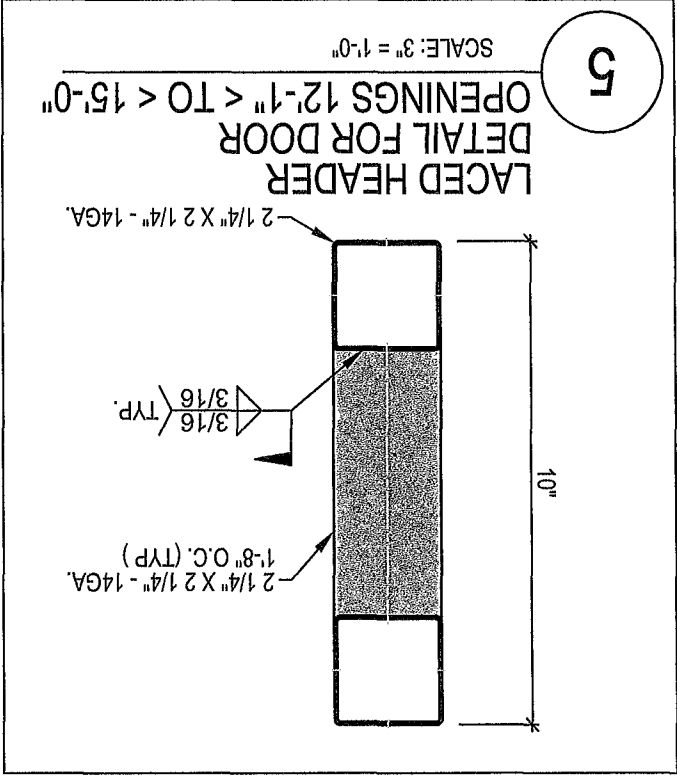
MJC

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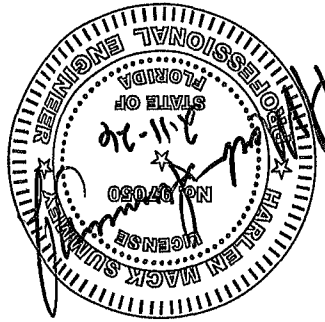


HEADER DETAILS

MICHAEL ENGEBRETSON

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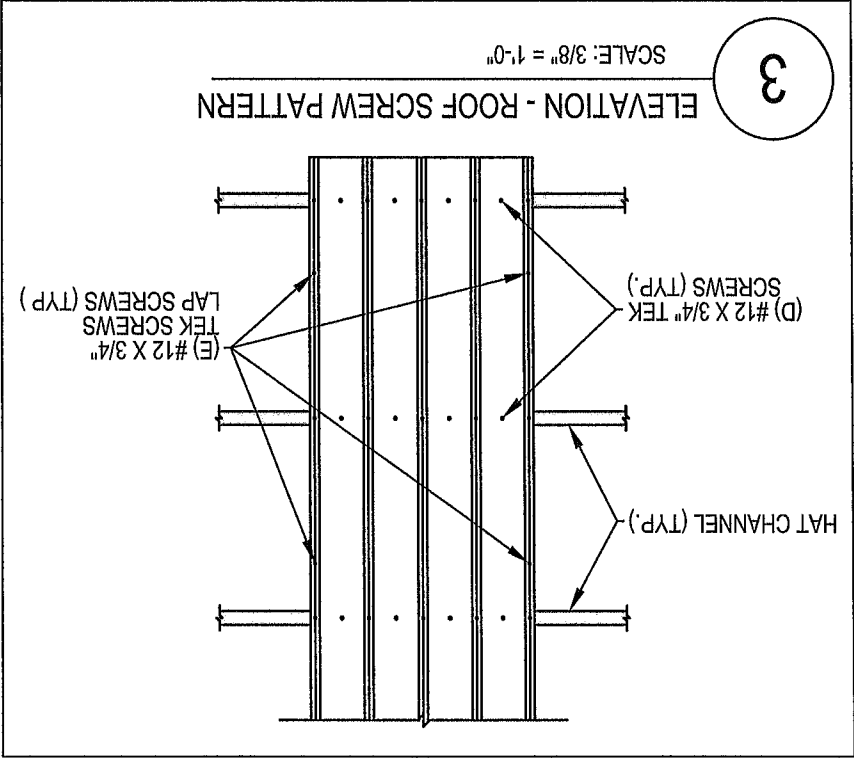
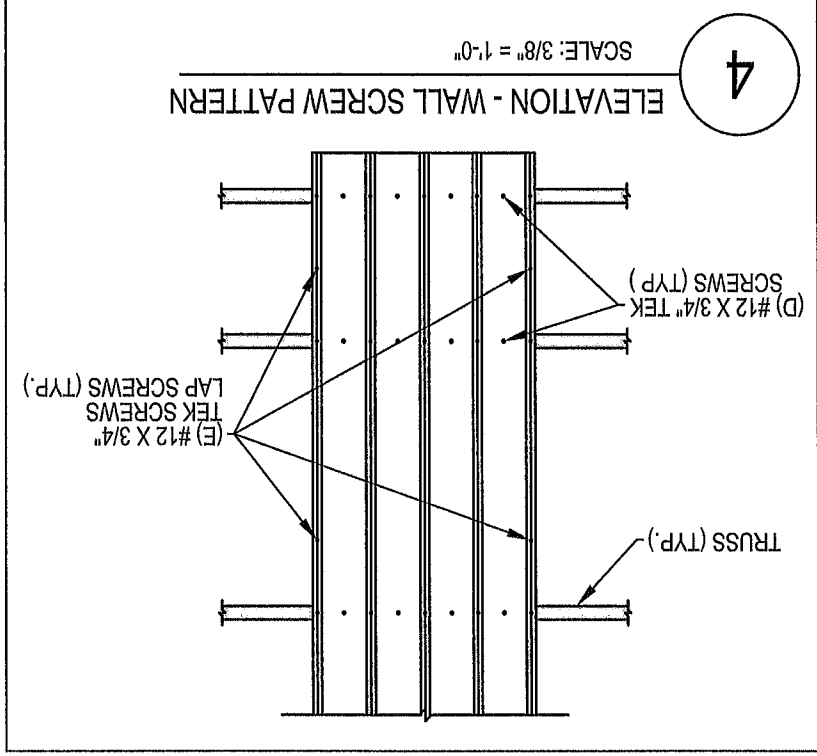
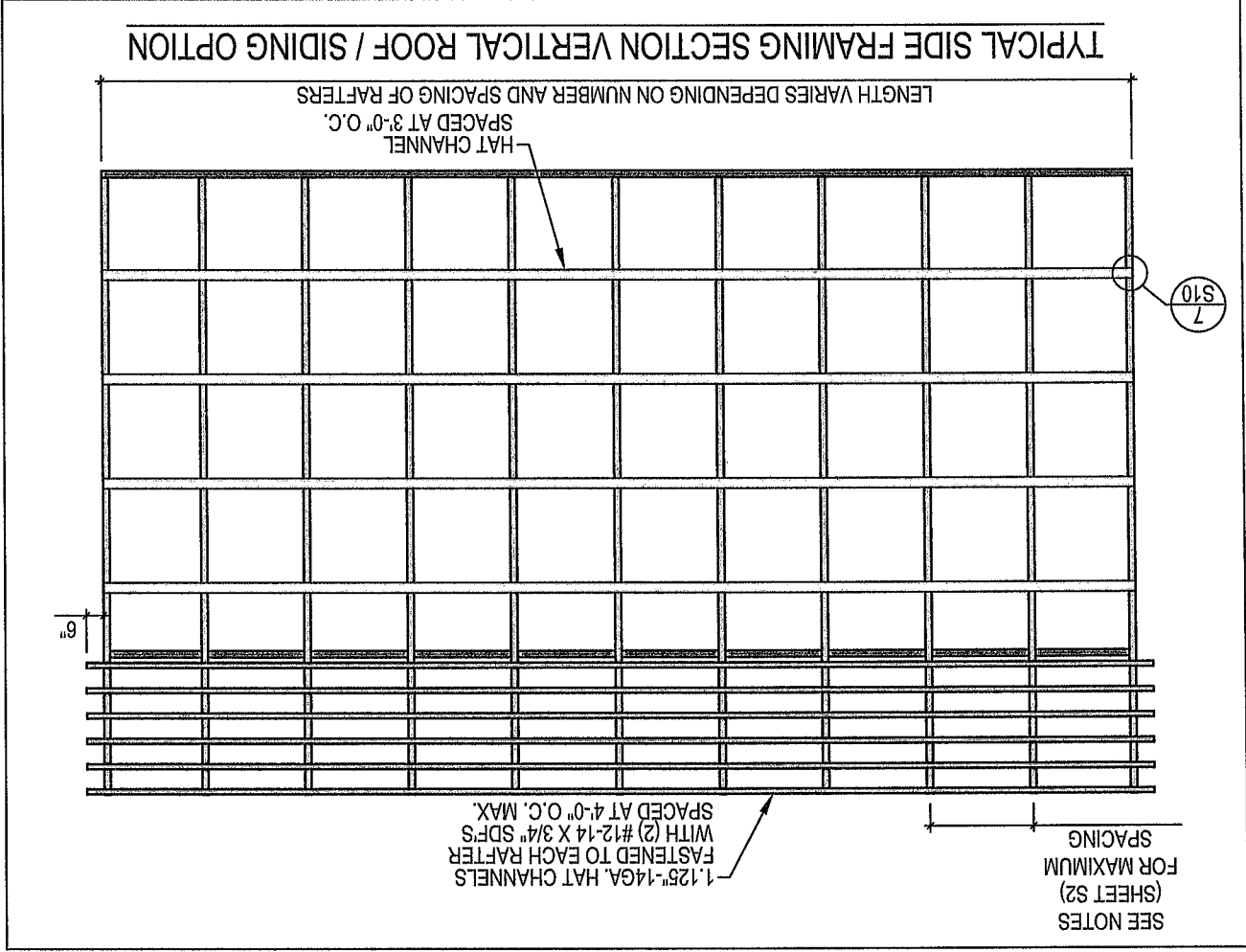
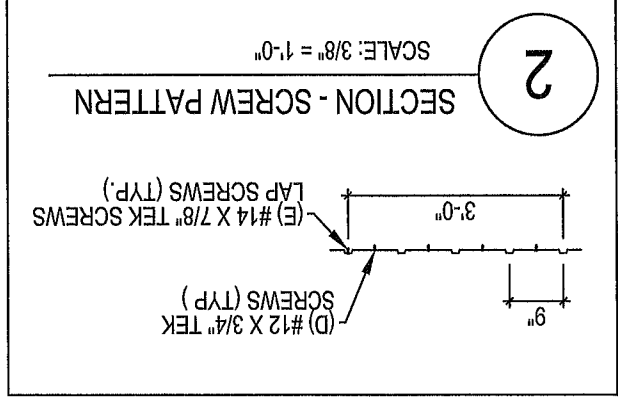
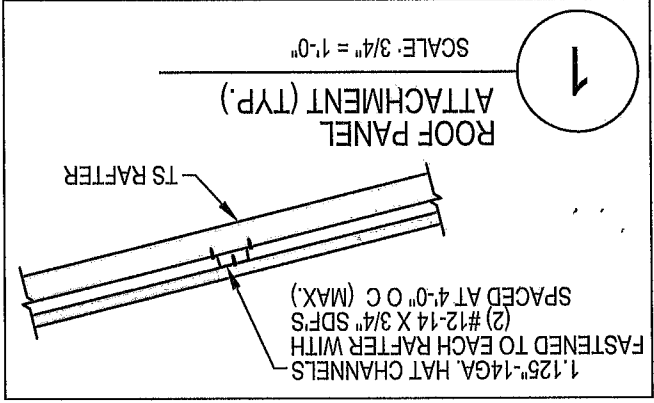
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TYPICAL FRAMING VERTICAL ROOF / SIDING OPTION

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SEMA

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No. 37050
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2-1-26

LAKE CITY, FLORIDA