

General Notes

A. CONCRETE & FOUNDATION DESIGN:

1. ALL CONCRETE GRADE BEAMS AND FOOTINGS SHALL BE 3000 PSI MINIMUM.
2. ALL CONCRETE FILLED SUPPORTED SLABS SHALL BE 2500 PSI MINIMUM, 1/2" NOMINAL THICKNESS.
3. FIBERESH 1/4" PER CUBIC YARD MIN. MEETING APPROPRIATE A.C.I. AND ASTM REQUIREMENTS MAY BE USED IN LIEU OF WELDED WIRE MESH.
4. ALL SLABS ON GRADE SHALL BE 4" THICK WITH FIBERESH.
5. ALL REINFORCING SHALL CONFORM TO ASTM A615, BE GRADE 60 (60 KSI MIN.) DEFORMED BARS. #3 BARS MAY BE GRADE 40 BE 3000 PSI MIN., 2" MINIMUM THICKNESS.
6. ALL OVER FOUR CONCRETE FILLED SUPPORTED SLABS SHALL BE 3000 PSI MIN., 2" MINIMUM THICKNESS.
7. SOIL BEARING PRESSURE SHALL BE A MINIMUM OF 1500 PSF. THE CONCRETE SHALL CONFORM TO ASTM C94 FOR THE FOLLOWING:
8. PORTLAND CEMENT TYPE I, ASTM C 150.
9. AGGREGATES - #6 SIZE NO. 67 LESS THAN 3/4".
10. AIR ENTRAINING - 1% - ASTM C 260.
11. WATER REDUCING AGENT - ASTM C 494.
12. CLEAN PORTABLE WATER.
13. OTHER ADMIXTURES SHALL NOT BE REQUIRED.
14. METAL WELDED WIRE SHALL CONFORM TO ASTM A 185.
15. PREPARE & PLACE CONCRETE ACCORDING TO AMERICAN CONCRETE INSTITUTE MANUAL STANDARD PRACTICE, PART 1, RECOMMENDATIONS.
16. IF UTILIZING EXISTING CONCRETE FOR FOUNDATION, CONCRETE SHALL BE A MINIMUM OF 4" IN THICKNESS, VISIBLE FREE OF ANY STRUCTURAL EXCESSIVE CRACKING, SPALLING OR OTHER DETRIORATION.

B. MASONRY:

1. CONCRETE MASONRY UNITS (CMU) SHALL BE STANDARD HOLLOW UNITS AND SHALL BE 1900 PSI MINIMUM BASED ON TYPE M OR S MORTAR.
2. ALL MORTAR SHALL BE OF TYPE M OR S.
3. ALL GROUT SHALL BE 3000 PSI MINIMUM AND HAVE MAXIMUM COARSE AGGREGATE SIZE OF 3/8".
4. PROVIDE CLEAN-OUTS FOR REINFORCED CELLS CONTAINING REINFORCEMENT WHEN GROUT POUR EXCEEDS 5'-0" IN HEIGHT.

C. ALUMINUM:

1. ALL STRUCTURAL ALUMINUM SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF 6061-T5 FOR ALLOY WITH A MINIMUM THICKNESS OF 0.040" FOR SUPPORTING MEMBERS.
2. WHERE KICK PLATES ARE USED A MINIMUM THICKNESS OF 0.031" SHALL APPLY.
3. STRUCTURAL ALUMINUM DESIGN CONFORMS TO "PART 1-A" SPECIFICATIONS FOR ALUMINUM STRUCTURES - ALLOWABLE STRESS DESIGN" OR "PART 1-B" SPECIFICATIONS FOR ALUMINUM STRUCTURES - BUILDING LOAD AND RESISTANCE FACTOR DESIGN" OF THE ALUMINUM DESIGN MANUAL, PREPARED BY THE ALUMINUM ASSOCIATION, INC., WASHINGTON D.C., THE *Florida Building Code* 6th EDITION / CHAPTER 16 STRUCTURAL DESIGN & CHAPTER 20 ALUMINUM.
4. WHERE ALUMINUM COMES INTO CONTACT WITH STEEL, OR PRESSURE TREATED LUMBER PROVIDE DIELECTRIC SEPARATION.
5. ALUMINUM MEMBERS SHALL BE STITCHED WITH NO LESS THAN #10 SMS 6" FROM THE ENDS AND 12" ON CENTER, IF USING #12 SPACING MAY BE 24" ON CENTER.
6. VINYL AND ACRYLIC PANELS SHALL BE REMOVABLE. THEY SHALL BE IDENTIFIED WITH A DECAL ESSENTIALLY STATING "REMOVABLE PANEL SHALL BE REMOVED WHEN WIND SPEEDS EXCEED 75 MPH". DECAL SHALL BE PLACED SO IT IS VISIBLE WHEN PANEL IS INSTALLED.
7. 1"x2"x0.045" NON-STRUCTURAL MEMBERS SHALL BE ATTACHED TO HOIST WITH 1/4"x0 X 1-3/4" EMBEDMENT & 24" O.C. MASONRY SCREW FOR CONCRETE & EQUIVALENT SIZE WOOD SCREW WHEN IN WOOD & #10X 1/2" EMBEDMENT SMS OR TEK SCREWS IN ALUMINUM MEMBERS TYPICAL.

D. FASTENERS:

1. ALL LAG BOLTS SHALL CONFORM TO STAINLESS STEEL TYPE 300 18-8, WITH STANDARD FLAT WASHER UNLESS MANUFACTURER GALVANIZES BOLTS SPECIFICS FOR USE WITH ACO PRESSURE TREATED WOOD.

E. REFERENCE STANDARDS:

1. FOR SMS, THE MINIMUM CENTER-TO-CENTER SPACING SHALL BE 3/4" AND MINIMUM CENTER-TO-EDGE SHALL BE 1/2" UNLESS NOTED OTHER WISE.
2. CLASS G-185.
3. ALL FASTENERS SHALL COMPLY WITH ASTM A653.
4. ALL CONNECTORS SHALL COMPLY WITH ASTM A653.
5. ALL FASTENERS SHALL COMPLY WITH ASTM A153.
6. ALL FASTENERS CONNECTING ALUMINUM COMPONENTS OR PRESSURE TREATED LUMBER ARE STAINLESS STEEL TYPE 300 18-8, UNLESS MANUFACTURER GALVANIZES BOLTS SPECIFICS FOR USE WITH ACO PRESSURE TREATED WOOD, OR OTHERWISE NOTED ON PLANS.
7. ALL FASTENERS SHALL COMPLY WITH ASTM A153.
8. ALL CONNECTORS SHALL COMPLY WITH ASTM A653.
9. ALL FASTENERS SHALL COMPLY WITH ASTM A153.
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F. ABBREVIATIONS:

1. THE FOLLOWING LIST OF ABBREVIATIONS IS NOT INTENDED TO REPRESENT ALL THOSE USED ON THESE DRAWINGS, BUT TO SUPPLEMENT THE MORE COMMON ABBREVIATIONS.
2. TYPICAL
3. SIM - SIMILAR
4. CONT - CONTINUOUS
5. UNLESS OTHERWISE NOTED
6. VIF - VERIFY IN FIELD

G. RESPONSIBILITY:

1. ALL SITE WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN ACCORDANCE WITH APPLICABLE BUILDING CODES, LOCAL ORDINANCES, ETC.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND DETAILS, DRAWINGS, FABRICATED ITEMS, OR ACTUAL FIELD CONDITIONS.
3. THESE DRAWINGS REPRESENT THE ACCEPTABILITY OF THE ENGINEER'S REVIEW OF THE DRAWINGS AS PROVIDED BY THE CONTRACTOR.
4. ALL DETAILS ON THESE DRAWINGS ARE ENGINEERED BASED ON INFORMATION PROVIDED BY THE CONTRACTOR AND MANUFACTURER.
5. ANY DETAILS NOT SHOWN ARE TO BE ENGINEERED BY A LICENSED P.E. IN ACCORDANCE WITH STANDARD ENGINEERING PRACTICES.

H. MISCELLANEOUS:

1. ALUMINUM ADDITIONS ARE NOT TO BE INSTALLED ON A MANUFACTURED HOME, TRAILER HOME, OR PRE-FAB HOME. IF THE EXISTING STRUCTURE IS ONE OF THESE, A SEPARATE 4TH WALL SUPPORT SYSTEM MUST BE ENGINEERED SO THAT NO

ADDITIONAL LOADING IS PLACED ON THE MANUFACTURED HOME.

2. IF ENCLOSURE CONTAINS A SWIMMING POOL OR SPA, THE ENCLOSURE SHALL COMPLY WITH RESIDENTIAL SWIMMING POOL BARRIER REQUIREMENTS OF THE *Florida Building Code* 6th EDITION R 4501.17 IN ITS ENTIRETY.
3. DOOR LOCATIONS MAY BE DELETED IN THE FIELD BY CONTRACTOR.
4. IF PAVERS ARE UNDER AT MINIMUM 18" IN THICKNESS THEY SHALL HAVE EPOXY ADHESIVE TO CONCRETE OR IF USING GROUT, ENSURE BONDING AGENT IS USED FIRST AND ADHESIVE WITH MINIMUM 3000 PSI GROUT.
5. SCREENING MATERIAL SHALL BE 1/4" X 1/4" X 0.011" OR EQUIVALENT DENSITY SCREENING MATERIAL UNLESS NOTED ON DRAWING S.2.

DESIGN DATA:

1. ULTIMATE DESIGN WIND SPEED V_{ult} (1 SECOND GUST) NOMINAL DESIGN WIND SPEED V_{nd}
2. RISK CATEGORY: 1
3. WIND EXPOSURE: 1
4. WIND LOADS: 6 PSF
5. SCREEN ROOF: 21 PSF
6. SCREEN WALLS: NA
7. SOLID ROOF (SCREEN WALL): NA
8. FACTOR APPLIED TO SCREEN WIND LOADS FOR 18X14X0.011 OR EQUIVALENT DENSITY SCREEN MESH: 0.88
9. FACTOR APPLIED TO SCREEN WIND LOADS FOR ALLOWABLE STRESS DESIGN: 0.8
10. LIVE LOAD: 200 lb. VERTICAL DOWNLOAD ON SCREEN ENCLOSURE PER 10 PSF VERTICAL DOWNLOAD ON SOLID ROOF
11. EXISTING SLAB AND/OR FOOTING MEETS THE REQUIREMENTS TO RESIST THE UPLIFTS FOR THE PROPOSED STRUCTURE.
12. SCREEN ROOF TYPE: DIPPED GABLE PITCH
13. SOLID ROOF TYPE: N/A

ALUMINUM STRUCTURAL MEMBERS

HOLLOW SECTIONS

2 x 2:	2" x 2" x 0.044"
2 x 3:	2" x 3" x 0.050"
2 x 4:	2" x 4" x 0.050"
2 x 5:	2" x 5" x 0.050"
3 x 3:	3" x 3" x 0.125"

OPEN BACK SECTIONS

1 x 2:	1" x 2" x 0.040"
1 x 3:	1" x 3" x 0.045"

SNAP SECTIONS

2 x 2 SMS:	2" x 2" x 0.045"
2 x 3 SMS:	2" x 3" x 0.050"
2 x 4 SMS:	2" x 4" x 0.050"
2 x 5 SMS:	2" x 5" x 0.050"
3 x 3 SMS:	3" x 3" x 0.090"

SELF MATING (SMB)

2 x 4 SMB:	2" x 4" x 0.044" x 0.100"
2 x 5 SMB:	2" x 5" x 0.050" x 0.118"
2 x 6 SMB:	2" x 6" x 0.057" x 0.120"
2 x 7 SMB:	2" x 7" x 0.057" x 0.120"
2 x 8 SMB:	2" x 8" x 0.072" x 0.224"
2 x 9 SMB:	2" x 9" x 0.072" x 0.224"
2 x 10 SMB:	2" x 10" x 0.092" x 0.374"

TUBE SECTIONS

2 x 2:	2" x 2" x 0.090"
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PROFESSIONAL ENGINEER SEAL

ENGINEER OF RECORD:

David W. Smith P.E.

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Thomas L. Hanson P.E.

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Myron Max Neal P.E.

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C.O.A.#29054

DATE: 08/07/2020

DRAWN BY: ST

REVISION: DATE:

RD 1

RD 2

RD 3

RD 4

Job# 20-0807-112

PROJECT ADDRESS:

FENTON

265 SW EMORYWOOD GLEN

LAKE CITY, FL 32024

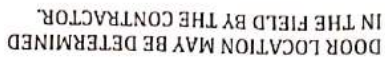
CONTRACTOR:

TIMBERLAKE ALUMINUM

CONSTRUCTION

NOTES

S-1



PROFESSIONAL ENGINEER SEAL

David W. Smith P.E.

FLORIDA LICENSE: 53608

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1. **FORWARD ENGINEERING**

Services, Inc.

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Fax: 1-(866)824-7894
E-mail: erb@ibcpians.com

Website: www.bccpians.com C0A-#29054

DATE: 08/07/2020

DRAWN BY: ST

REVISION:	DATE:
RO 1	

RO 2	
RO 3	

NO 3	
NO 4	

Job# 20-0807-112

PROJECT ADDRESS:
FENTON
365 SW EMERYWOOD GLEN

LAKE CITY, FL 32024

CONTRACTOR:

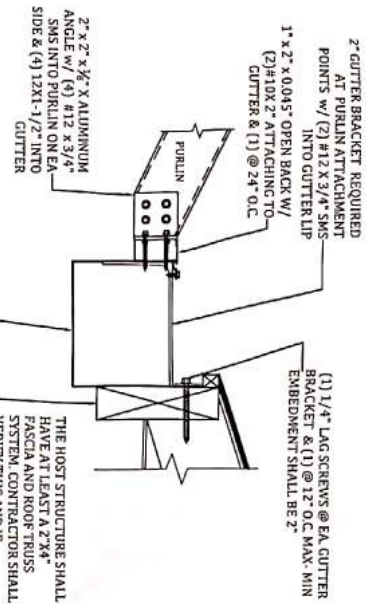
TIMBERLAKE ALUMINUM
CONSTRUCTION

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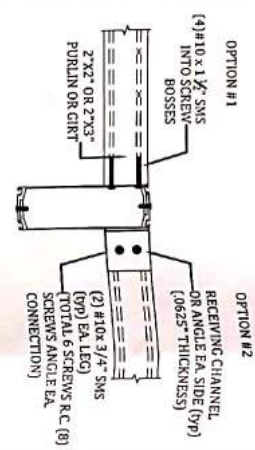
FLOOR PLAN

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APR 1967

OPTIONAL
2" BRACKET 0.250"
5" OR 7" X 0.250"
EXTRUDED CUTTER
BRACKET

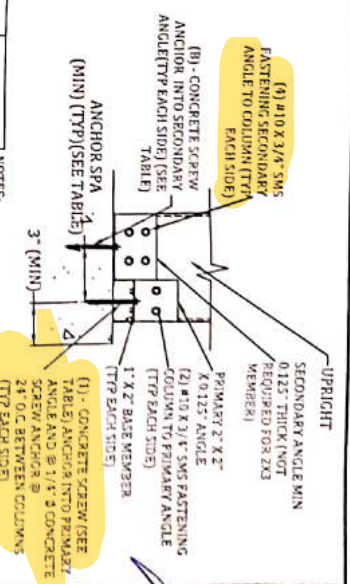


A1 GUTTER BRACKET & PURLIN ATTACHMENT DETAIL
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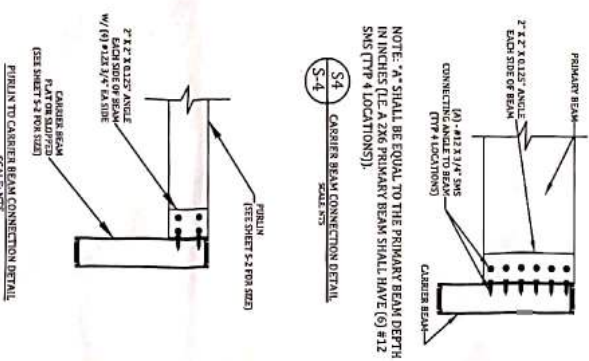


H PURLIN OR GIRT TO BEAM OR POST DETAIL
SCALE: NTS

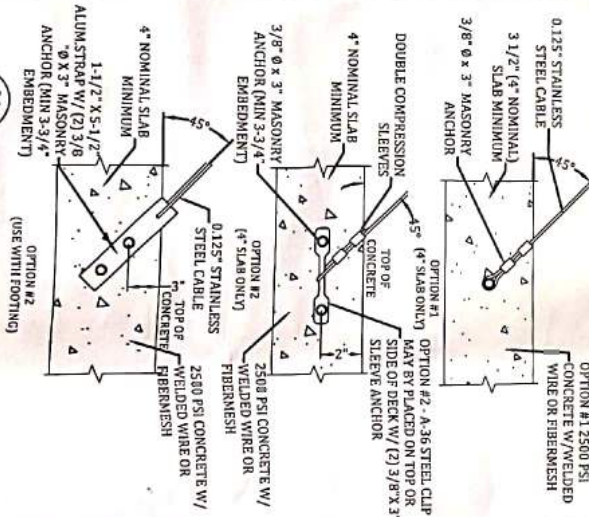
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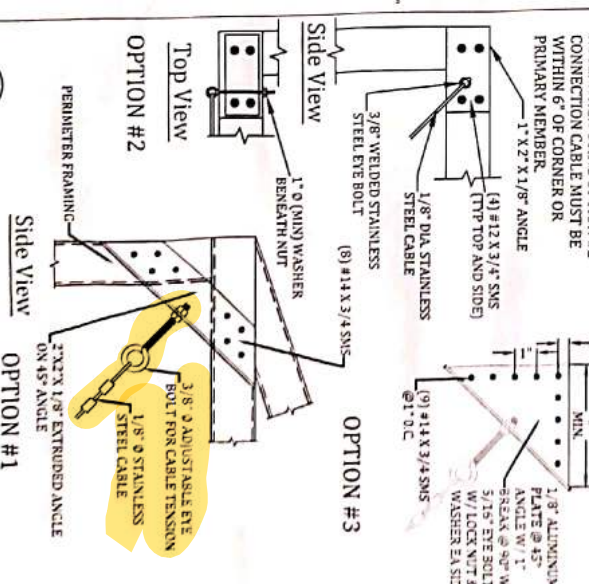
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S-4 CARRIER BEAM CONNECTION DETAIL
SCALE: NTS



J1 CABLE TO FOUNDATION CONNECTION DETAIL
SCALE: NTS



J2 CABLE CONNECTION AT CORNER
SCALE: NTS



ENGINEER OF RECORD:

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COA-429054

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NO. 1

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265 SW EMORYWOOD GLEN

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CONTRACTOR:

TIMBERLAKE ALUMINUM

CONSTRUCTION

DETAILS
S-4

