

-USE OF ANOTHNY POWER BEAM IN LIEU OF PSL BEAMS OF EQUAL OR GREATER VALUE IS ACCEPTABLE.
ALL CONNECTIONS AFFECTED SHALL BE RE-EVALUATED TO ENSURE PROPER FITUP.
-ESTIMATED VALUES REFLECT CURRENT MARKET VALUES AT TIME CALCULATED AND MAY VARY.
-ONLY STRUCTURAL FRAMING HAS BEEN CAPTURED IN THE MTO. ALL EXPOSED PLATES, STRAPS, AND FASTENERS SHOULD BE GALVANIZED.

ED TO MEET OR EXCEED ASTM F1667 REQUIREMENTS.		
STRAP & TIE SCHEDULE (SIMPSON OR EQUAL)		
MARK	SIZE	
CS1	H2.5 CLIP @ EA. TRUSS END BRG @ PLATE (TYP. U.N.O.	
CS2	CS 18 W/ 10-10d @ 4" O.C.	
CS3	TPA57 W/ 40-0.131"X8d (AS REQD)	
CS4	LUS28 W/ FACE 6-SD9112 JOIST/BEAM 4-SD9112	
CS5	LUS210 W/ FACE 8-SD9112 JOIST/BEAM 4-SD9112	
CS6	LUS410 W/ FACE 8-SD9212 JOIST/BEAM 6-SD9212	
CS7	LUS28-2 W/ FACE 6-SD9112 JOIST/BEAM 4-SD9212	
CS8	LUS28-3 W/ FACE 6-SD9112 JOIST/BEAM 4-SD9213	
CS9	LRU28Z W/ 6-10d JOIST/BEAM 5-10d	
CS10	SST CHS 18 W/ 8-10d JOIST/BEAM 8-10d	
CS11	HUS410 W/8148"X1 1/2 HDR .148 JST	
1		

CS12 HUS610 W/8-.148"X1 1/2 HDR .148 JST

CS13 HCU2 W/6-.148X1 1/2"RAFTER/6-.148X1 1/2" PLATE ADD CS16R HURRICANE COIL STRAP OVER HIP BEAMS CONNECTING RAFTERS.



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- . REFER TO GENERAL NOTES FOR REQUIREMENTS AND CODES NOT SHOWN.
- 2. ALL JOIST SPACING SHALL BE 16" O.C. U.N.O.
- 3. CSX -DETNOTES CONNECTION.
 SEE STRAP & TIE SCHEDULE FOR CONNECTIONS
- 4. REFER TO SHEET S301 FOR FRAMING DETAILS. 5. STRAP AND CLIP EACH RAFTER ACROSS RIDGE BEAM
- 6. ALL FASTENERS/CONNECTIONS TO BE CORROSION RESISTANT
- 7. ALL LUMBER TO BE #2 PRESSURE TREATED. 8. ROOFING NOT SHOWN FOR CLARITY. REFER TO S301 FOR ROOFING DETAILS





No.	Description	Date
0	ISSUED FOR CONSTRUCTION	11/12/2022



F-20708 11/21/2022 Gully Engineering LLC

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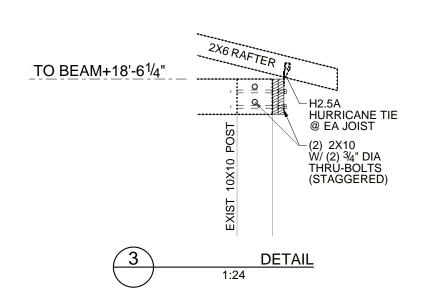
POST LOCATION AND FRAMING PLANS

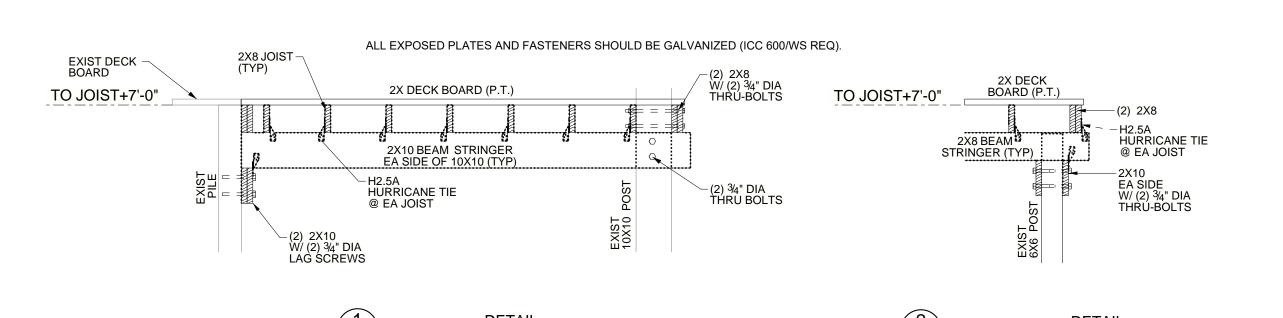
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Checked by	MG
Drawn by	WJB
Date	11/12/2022
Project number	2022-10-001

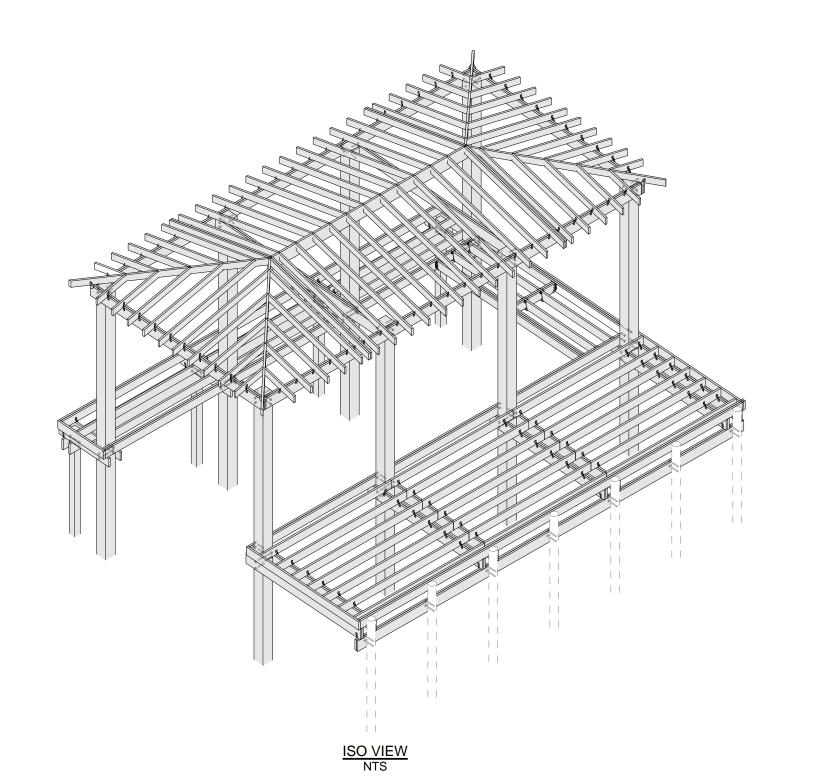
S100

NOTED

Posts are existing. Based on information provided, post size and depth is adequate for new boat dock.









- 1. REFER TO \$100 FOR BEAM SIZES AND CONNECTIONS NOT SHOWN
- 2. REFER TO GENERAL NOTES FOR REQUIREMENTS AND CODES NOT SHOWN.
- 3. STRAP AND CLIP EACH RAFTER ACROSS RIDGE BEAM
- 4. ALL FASTENERS/CONNECTIONS TO BE CORROSION RESISTANT
- 5. ALL LUMBER TO BE #2 PRESSURE TREATED.
- 6. ROOFING NOT SHOWN FOR CLARITY. REFER TO S102 FOR ROOFING DETAILS





No.	Description	Date
0	ISSUED FOR CONSTRUCTION	11/16/202

Guardado Residence **BOAT HOUSE**

414 Twin Timbers Ln TEXAS

F-20708 11/21/2022

Gully Engineering LLC

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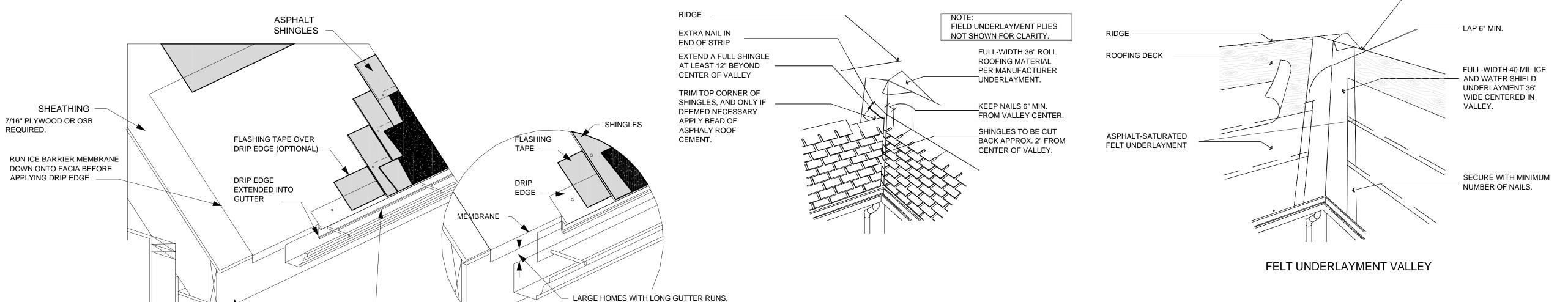
FRAMING SECTION & DETAILS

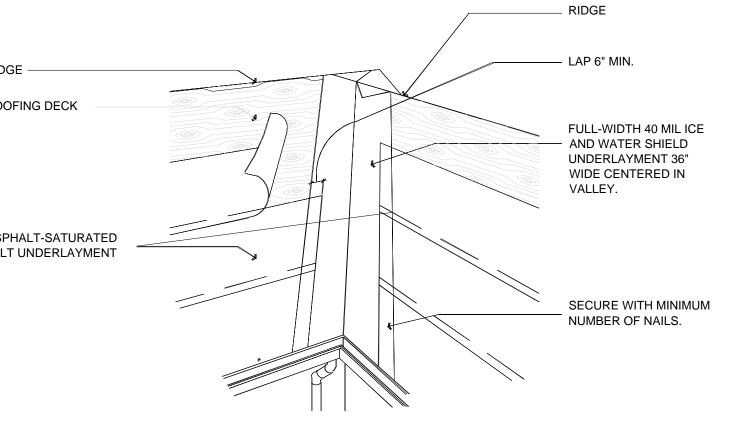
2022-10-001 11/16/2022 Checked by

S101

NOTED

Condition of existing posts are unknown. If posts are found to be in poor condition, posts need to be replaced. Engineer is not responsible for existing posts.







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No.	Description	Dat
0	ISSUED FOR CONSTRUCTION	11/16/2



6/2022

Guardado Residence

BOAT HOUSE 414 Twin Timbers Ln

TEXAS

ROOFING

2022-10-001

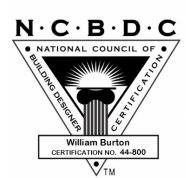
11/16/2022

WJB MG

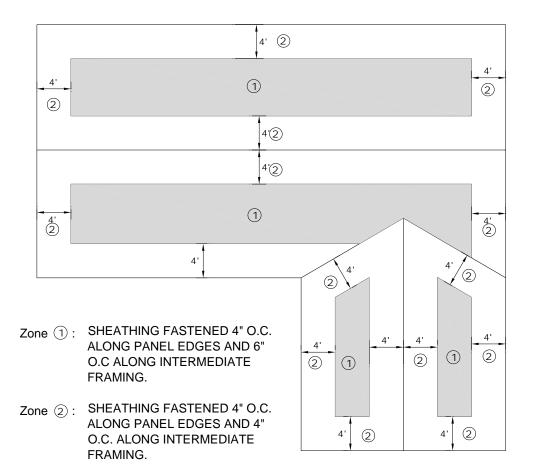
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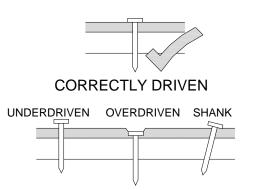
Gully Engineering LLC



	DETAILS
Project number	
Date	
Drawn by	
Checked by	
	S102



FACIA



AN EXPOSED GAP MAY OCCUR BETWEEN

OF FLASHING IS NEEDED TO COVER GAP

(LAPPED INTO GUTTER).

DRIP EDGE AND GUTTER. A SECOND PIECE

INCORRECTLY DRIVEN HAND NAILING RECOMMENDED.

ROOF SHEATHING ATTACHMENT SHEATHING NEEDS TO BE INSTALLED WITH AN OFFSET PATTERN.

NOTE: FOR ROOF PITCHES LESS THAN 4:12, AND MORE THAN OR EQUAL TO 2:12 SLOPE, A DOUBLE LAYER OF UNDERLAYMENT WITH A MINIMUM 19" OVERLAP IS REQUIRED PER IRC

NOTE: ASPHALT SHINGLES MUST CONFORM TO AT LEAST ONE (1) OF THE FOLLOWING CLASSIFICATIONS: ASTM D 3161 (CLASS F), ASTM D 638I/UL 2390 OR ASTM D 7158 (CLASS G OR CLASS H)

CORROSION-RESISTANT ROOFING NAILS WITH 7_{16} " DIA. HEAD AND 1 1_2 " LENGTH FOR 1_2 " SHEATHING, AND 1 3_4 " LENGTH FOR 25_{32} " SHEATHING CONFORMING TO THE REQUIREMENTS OF THE IRC.

PREFERENCE: DRIP

AT BOTTOM

EDGE WITH MIN. 2" TO

3" VERTIAL LEGS WITH PROMINENT KICKOUT

(UNHEMMED EDGE) ———

DRIP EDGE NEEDS TO EXTEND >=2" UP ROOF. USE 2"x3" or 2"x4" DRIP EDGE.

GALVANIZED ROOFING NAILS REQUIRED. FOR

QUESTIONS CONTACT ENGINEER BEFORE INSTALL

PROJECT DESIGN CRITERIA

- 2021 IRC, ICC 600 ELECTRICAL SHOULD FOLLOW THE 2020 NEC CODE AS REQUIRED IN KEMAH BUILDING CODE WIND SPEED: 143 MPH EXPOSURE CATEGORY: D
- IMPORTANCE FACTOR: I
- TDI AREA:

Roof live load is 20 psf. Floor live load is 40 psf. ASCE 7-16 MIN DESIGN WIND PRESSURE IS 8 PSF.

- VERIFY ALL DIMENSIONS WITH ARCHITECTURAL/STRUCTURAL DRAWINGS. ANY DISCREPENCIES SHALL BE DIRECTED TO ARCHITECT. DIMENSIONS SHOWN ON ARCHITECTURAL DRAWINGS SUPERSEDE STRUCTURAL DRAWINGS DIMENSIONS ANY SPECIFIC DETAILS NOT SHOWN ON DRAWINGS, AND ALL FRAMING CONNECTIONS & COMPONENTS, ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- WE MAKE EVERY EFFORT TO BE ACCURATE IN OUR DIMENSIONS PLEASE VERIFY FOUNDATION PLAN DIMENSIONS AGAINST ARCHITECTURAL DRAWING DIMENSIONS PRIOR TO ANY CONSTRUCTION HOWEVER, DIMENSIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR OR OWNER-BUILDER MDI & ASSOCIATES LLC, INC WILL NOT BE RESPONSIBLE FOR COSTS INCURRED DUE TO DIMENSION ERRORS AFTER CONSTRUCTION HAS STARTED. THOROUGHLY VERIFY ALL DIMENSIONS.
- APPROVAL MUST BE SECURED PRIOR TO ALL SUBSTITUTIONS OR CHANGES.
- INSPECTIONS SHALL BE CALLED IN AT LEAST 24 HOURS IN ADVANCE AND ALL WORK SHALL BE COMPLETED PRIOR TO INSPECTION.
- INCOMPLETE WORK AND/OR FAILED INSPECTIONS SHALL BE RESCHEDULED THE FOLLOWING BUSINESS DAY.
- SEPARATE ALL RIGID PLUMBING AND STRUCTURAL ELEMENTS FROM NON-STRUCTURAL CONCRETE SLABS USING 1/2" EXPANSION MATERIAL OR POLY-WRAP
- UNLESS OTHERWISE INDICATED, THESE DRAWINGS ARE IN CONFORMANCE WITH THE LATEST BUILDING CODES (SEE ABOVE)

SITE WORK

THIS FOUNDTION DESIGN IS TO BE IN COMPLIANCE WITH SOILS TESTS REPORTS (SEE SOIL TEST REPORT FOR ADDITIONAL DETAILS BY OTHERS) FOUNDATION - CONTINUOUS SLAB ON GRADE AND ISOLATED PAD FOOTINGS MAX SOIL BEARING CAPACITY: 1,750 PSF (DL+1/2 LL) EXCAVATION AND BACKFILL:

- A QUALIFIED SOILS ENGINEER SHALL INSPECT THE OPEN EXCAVATION TO VERIFY THE BEARING MATERIAL, APPROVE COMPACTION, AND PERFORM COMPACTION TESTS. NOT USED
- BACKFILL MATERIAL SHALL BE THOROUGHLY COMPACTED AT OPTIMUM MOISTURE CONTENT AS REQUIRED IN THE SOILS REPORT
- THE WATER TABLE SHALL BE KEPT BELOW AND AWAY FROM THE LEVEL OF CONSTRUCTION IN ALL CASES.
- THE FOUNDATION BEARING SURFACES ARE TO BE KEPT DRY AND STABLE UNTIL THE STRUCTURES ARE COMPLETE AND READY FOR BACKFILLING. WALLS SHALL BE BACKFILLED WITH NON-EXPANSIVE MATERIAL
- UNLESS A RETAINING WALL IS SPECIFICALLY SHOWN ON THE PLANS AND A RETAINING WALL SECTION IS SPECIFICALLY SHOWN WITH THE DETAILS, THIS FOUNDATION DESIGN DOES NOT MAKE ANY RECOMMENDATIONS FOR RETAINING WALL CONSTRUCTION IF AN ENGINEERED RETAINING WALL IS REQUIRED FOR THIS SITE, PLEASE CONTACT MDI & ASSOCIATES LLC FOR REINFORCING, CONCRETE THICKNESS AND WALL FOUNDATION REQUIREMENTS.
- OVER-EXCAVATION OF THE GARAGE FOOTINGS IS REQUIRED.

CONCRETE

- DESIGN AND CONSTRUCTION SHALL BE INACCORDANCE WITH ACI BUILDING CODES,ACI 318 AND ACI 301-LATEST REVISION B ALL CONCRETE SHALL DEVELOP 3,500 PSI (f'c) COMPRESSIVE STRENGTH WITHIN 28 DAYS UNLESS OTHERWISE NOTED WATER/CEMENT RATIO SHALL NOT EXCEED 0 45
- WITHA MINIMUM OF 517 POUNDS PER CUBIC YARD SLUMP SHALL BE 4 INCHES (WITH 1 INCHTOLERANCE) FOR GRADE BEAMS, WALLS AND SLABS USETYPE II/IV CEMENT (EXCEPT WHERE SPECIFIED BY ENGINEER) ALL CONCRETE SHALL BE STONE AGGREGATE
- SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR SIZES AND LOCATIONS OF HOLES, SLEEVES, REGLETS, WASHERS, BOLTS, NOTCHES, DRIPS,
- ANCHORS, INSERTS, ETC CONSTRUCTION JOINTS BETWEEN GRADE BEAMS AND WALLS AND IN SLABS SHALL BE KEYED AND DOWELED. DETAILS PER ENGINEER WHERE ALLOWED.
- CONSTRUCTION JOINTS IN WALLS SHALL NOT BE ALLOWED. USE AIR-ENTRAINED CONCRETE OF 5 - 7% AIR BY VOLUME.

CENTERED UNDER WALLS UNLESS NOTED.

- CALCIUM CHLORIDE IF USED AS AN ACCELERATOR, SHALL BE ADDED TO CONCRETE AT A MAXIMUM OF 2% PER 100 POUND OF CONCRETE. FOOTINGS SHALL BE PLACED BELOW FROST LINE ON UNDISTURBED SOIL WITH SOFT POCKETS REMOVED FROM UNDER THE FOOTINGS ALL FOOTINGS TO BE
- CONTRACTOR SHALL BE RESPONSIBLE FOR WIND BRACING DURING CONSTRUCTION. CONTRACTOR SHALL REVIEW STRUCTURAL DRAWINGS AGAINST ARCHITECTURAL REGARDING DIMENSIONS, WALL HEIGHTS ANDTHE LOCATION OF FOUNDATION STEPS
- DRAWINGS ARE NOT TO BE SCALED.
- CONTRACTOR SHALL REVIEW ARCHITECTURAL DRAWINGS AND VERIFY THE SIZE AND LOCATION OF ALL OPENINGS REQUIRED FOR DOORS AND WINDOWS.
- ENGINEER'S APPROVAL MUST BE SECURED FOR ALL SUBSTITUTIONS OR DEVIATIONS FROM DESIGN SHOWN ON THIS DRAWING.
- NO BACKFILL SHALL BE PLACED AGAINST BASEMENT WALLS UNTIL FLOORS ARE IN PLACE OR ADEQUATE BRACING IS INSTALLED AND CONCRETE REACHES STRENGTH ISOLATE ALL DOOR JAMBS FROM FLOOR SLAB A MINIMUM OF 1/2" TO ALLOW FOR POSSIBLE SLAB MOVEMENT. USE SILICONE CAULKING OR EQUALTO FILLTHE GAPS.
- SEE ATTACHED DRAWING FOR ADDITIONAL FOUNDATION NOTES AND DETAILS.

REINFORCEMENT:

- DESIGN, DETAILING, FABRICATION AND PLACEMENT SHALL BE INACCORDANCE WITH ACI CODES AND MANUALS, ACI 318, 315-LATEST REVISION. STEEL REINFORCEMENT SHALL BE NEW, DEFORMED BILLET STEEL, MEETING ASTM STANDARD A615-(LATEST REVISION), FOR ALL REBARS, GRADE 60. SHOP DRAWINGS
- REINFORCEMENT IN ALL WALLS, GRADE BEAMS AND SLABS SHALL BE CONTINUOUS AROUND CORNERS OR CORNER BARS SHALL BE PROVIDED.
- LAP ALLTENSION SPLICES PER ACI 318-LATEST REVISION, CLASS B AND ALL COMPRESSION SPLICES 30 BAR DIAMETERS, EXCEPT AS NOTED OTHERWISE.
- PROVIDE A MINIMUM OF 2-#5 BARS AROUND OPENINGS, EACH FACE OF STEEL, EXTEND 2 '-0" BEYOND THE OPENING, UNLESS DETAILED OTHERWISE. PROVIDE CONCRETE PROTECTION FOR REINFORCEMENT AS FOLLOWS:
- CONCRETE POURED AGAINST EARTH CONCRETE POURED IN FORMS BUT EXPOSED TO GROUND OR WEATHER:
- BARS LARGER THAN #5
 - BARS #5 OR SMALLER
 - WALLS AND SLABS UNLESS NOTED OTHERWISE......1 ½
- PROVIDE GALVANIZED OR PLASTIC-FOOTED ACCESSORIES FOR ALL CONCRETE SURFACES EXPOSED TO WEATHER OR VIEW
- TACK WELDING OR WELDING OF REBARS SHALL NOT BE PERMITTED UNLESS OTHERWISE CALLED FOR OR APPROVED BY THE ENGINEER. AN ELECTRODE ENCASED BY AT LEAST 50 MM (2 IN) OF CONCRETE, LOCATED WITHIN AND NEAR THE BOTTOM OF CONCRETE FOUNDATION OF FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH, CONSISTING OF AT LEAST 60 M (20 FT) OF ONE OR MORE BARE OR ZINC GALVANIZED OR OTHER ELECTRICALLY CONDUCTIVE COATED
- STEEL REINFORCING BARS OR RODS OF NOT LESS THAN 13 MM (1/2 IN) IN DIAMETER, OR CONSISTING OF AT LEAST 60 M (20 FT) OF BARE COPPER CONDUCTOR NOT SMALLER THAN 4 AWG REINFORCING BARS SHALL BE PERMITTED TO BE BONDED TOGETHER BY THE USUAL STEEL TIE WIRES OR OTHER EFFECTIVE MEANS.

STRUCTURAL STEEL

- DESIGN, FABRICATION AND CONSTRUCTION SHALL BE INACCORDANCE WITH THE LATEST AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHAPES SHALL BE CLEAN AND FREE OF RUST, WARPING/TWISTING, NICKS, CUTS, OR OTHER DAMAGE, AND SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
 - WIDE-FLANGE (W-SHAPES): ASTM A992 Gr50 (Fy=50 ksi, Fu=65 ksi)
 - CHANNEL (C-SHAPES): ASTM A572 Gr50 (Fy=50 ksi, Fu=65 ksi ANGLES (L-SHAPES): ASTM A36 (Fy=36 ksi, Fu=58 ksi)
 - ROUND OR RECTANGULAR HSS TUBES: ASTM A500 Gr B (Fy=46 ksi)
 - ANCHOR BOLTS ASTM F1554 Gr55 (Fy=55 ksi) 70ksi ELECTRODES, SUITABLE FOR THE MATERIALS BEING JOINED AND THE CONDITIONS IN WHICH THE CONNECTION WELD ELECTRODES
 - WILL BE MADE BOLTS (USED WITH WOOD) ASTM A307
 - BOLTS (USED WITH STEEL TO STEEL) ASTM A325
- ALL WELDING OR GAS CUTTING SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS OF THE AMERICAN WELDING SOCIETY ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS QUALIFIED BY THE AMERICAN WELDING SOCIETY TENTATIVE STANDARD QUALIFICATION PROCEDURE FOR BOLTS THRU WOOD, PRE-DRILL HOLES½" LARGER THAN THE BOLT SPECIFIED FOR BOLTS THRU STRUCTURAL STEEL, PRE-DRILL HOLES 1/16
- SELECT STRUCTURAL BEAMS AS SHOWN. ANY BEAMS NOT SHOWN, HAVE NOT BEEN DESIGNED BY MDI & ASSOCIATES LLC

COLD FORMED METAL

METAL STUDS, JOIST, AND ACCESSORIES - ALL EXPOSED METAL PLATES AND FASTENERS ON THIS PROJECT NEED TO BE GALVANIZED OR BETTER. ALL COVERED FASTENERS SHOULD BE GALV.

A - ALL PRODUCTS SHALL BE MANUFACTURED BY A CURRENT MEMBER OF THE STEEL STUD MANUFACTURERS ASSOCIATION.

OF CARBON STEEL SHALL BE TOUCHED UP WITH A ZINC-RICH PAINT. WIRE TYING OF COMPONENTS SHALL NOT BE PERMITTED

B - ALL STAINLESS STUDS AND JOIST SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF THE LATEST EDITION OF AMERICAN IRON AND STEEL INSTITUTE C - All STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE A.I.S.I. "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION.

D - PROVIDE ALL ACCESSORIES INCLUDING, BUT NOT LIMITED TO TRACKS, CLIPS, WEB STIFFENERS, ANCHORS, FASTENING DEVICES, RESILIENT CLIPS, AND OTHER ACCESSORIES REQUIRED FOR A

COMPLETE AND PROPER INSTALLATION. AND AS RECOMMENDED BY THE MANUFACTURER FOR THE STEEL MEMBERS USED E - FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR WELDING. SCREWS OR WELDS SHALL BE OF SUFFICIENT SIZE TO INSURE THE STRENGTH OF THE CONNECTION. ALL WELDS

A - FRAMING COMPONENTS MAY BE PRE-ASSEMBLED INTO PANELS PRIOR TO ERECTING. PREFABRICATED PANELS SHALL BE SQUARE, WITH COMPONENTS ATTACHED IN A MANNER TO PREVENT

RACKING AND TO MINIMIZE DISTORTION WHILE LIFTING AND TRANSPORTING. B - ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR AS REQUIRED FOR AN ANGULAR FIT AGAINST ABUTTING MEMBER.

C - STUDS SHALL BE PLUMB, ALIGNED AND SECURELY ATTACHED TO FLANGES OF BOTH UPPER AND LOWER RUNNERS, EXCEPT THAT INTHE CASE OF INTERIOR, NON-LOAD BEARING WALLS, STUDS NEED NOT BE ATTACHED TO UPPER OR LOWER RUNNERS.

D - IN ALL DOUBLE JAMB STUDS AND DOUBLE HEADERS NOT ACCESSIBLE TO INSULATION CONTRACTORS, INSULATION EQUAL TO THAT SPECIFIED ELSEWHERE SHALL BE PROVIDED.

E - SPLICES IN AXIAL LOAD BEARING MEMBERS OTHER THAN RUNNER TRACK SHALL NOT BE PERMITTED.

F - TEMPORARY BRACING WHERE REQUIRED, SHALL BE PROVIDED UNTIL ERECTION IS COMPLETE

INSTALLATION (AXIAL LOAD-BEARING)

A - RUNNERS SHALL BE SECURELY ANCHORED TO THE SUPPORT STRUCTURE AS SHOWN ON THE DRAWINGS.

B - COMPLETE, UNIFORM AND LEVEL BEARING SUPPORT SHALL BE PROVIDED FOR THE BOTTOM RUNNER.

C - FRAMING OF WALL OPENINGS SHALL INCLUDE HEADERS AND SUPPORTING STUDS AS SHOWN ON THE DRAWINGS.

D - DIAGONALLY BRACED STUD WALLS, AS INDICATED ON THE DRAWINGS, SHALL BE PROVIDED AT LOCATIONS DESIGNATED AS "SHEAR WALLS" FOR FRAME STABILITY AND LATERAL LOAD RESISTANCE. ADDITIONAL STUDS, WHEN NECESSARY, SHALL BE POSITIONED AS INDICATED ON THE DRAWINGS TO RESIST THE VERTICAL COMPONENTS.

E - SPLICES IN AXIALLY LOADED STUDS SHALL NOT BE PERMITTED.

A - UNIFORM AND LEVEL JOIST BEARING SHALL BE PROVIDED AT FOUNDATION WALLS BY MEANS OF SHIMS AND/OR NON-SETTING GROUT.

B - JOISTS SHALL BE LOCATED DIRECTLY OVER BEARING STUDS OR A LOAD DISTRIBUTION MEMBER SHALL BE PROVIDED AT THE TOP OF THE BEARING WALL.

C - WEB STIFFENERS SHALL BE PROVIDED AT REACTION POINTS AND/OR POINTS OF CONCENTRATED LOADS WHERE INDICATED ON THE DRAWINGS. D - JOIST BRIDGING SHALL BE PROVIDED WHERE INDICATED ON THE DRAWINGS.

E - ADDITIONAL JOIST SHALL BE PROVIDED UNDER PARALLEL PARTITIONS WHEN THE PARTITION LENGTH EXCEEDS ONE-HALF THE JOIST SPAN, ALSO AROUND ALL FLOOR AND ROOF OPENINGS, WHICH

INTERRUPT ONE OR MORE SPANNING MEMBERS UNLESS OTHERWISE NOTED. F - END BLOCKING SHALL BE PROVIDED WHERE JOIST ENDS ARE NOT OTHERWISE RESTRAINED FROM ROTATION.

A - ALL ITEMS BASED ON THE "CLARK DIETRICH" SYSTEM AS REFERENCED IN THE CONTRACT DOCUMENTS, IF REPLACED BY VENDOR, SHALL BE OF EQUAL OR GREATER QUALITY AND PERFORMANCE IN ACCORDANCE WITH A.IS.I. S100

WOOD FRAMING

ALL FRAMING LUMBER TO BE HEM-FIR, GRADE SPECIFIED ON THE PLANS. WHERE NO GRADE IS SPECIFIED, USE #2 GRADE, OR BETTER.

#1 GRADE STUD GRADE #2 GRADE Fb = 975 psi Fb = 850 psiFb = 675 psi,Fc = 1550 psi,Fc = 1300 psi,Fc = 800 psi,Fcperp = 405 psi, Fcperp = 405 psi Fcperp = 405 psi, Fv = 150 psi,Fv = 150 psi,Fv 150 psi, E = 1,200,000 psiE = 1.300.000 psi.E = 1.200.000.

B. ENGINEERED LUMBER:

LAMINATED VENEER	PARALAM	1.9E MICROLAMS
(LVL)(PL)	(ML)	
Fb = 2600 psi,	Fb = 2900 psi,	Fb = 2600 psi
Fc = 2500 psi,	Fc = 2900 psi,	Fc = 2510 psi
Fcperp = 750 psi,	Fcperp = 750 psi	Fcperp = 750 psi
Fv = 285 psi,	Fv = 290 psi,	Fv = 285 psi,
E = 1,900,000 psi,	E = 2,000,000 psi,	E = 1,900,000 psi,

- GRADE MARKING EACH PIECE OF LUMBER SHALL BEAR THE GRADE AND TRADEMARK OF THE ASSOCIATION UNDER WHOSE RULES IT IS PRODUCED.
- LUMBER SHALL BE SOUND, THOROUGHLY SEASONED AND FREE FROM WARP UNLESS OTHERWISE INDICATED, PROVIDE DRESSED LUMBER, S4S, KILN DRIED
- MOISTURE CONTENT -ALL LUMBER SHALL BE KILN-DRIED WITH A MAXIMUM MOISTURE CONTENT FOR STRUCTURAL LUMBER OF 19%. U NO PLYWOOD PANELS SHALL BE IDENTIFIED WITH GRADE TRADEMARK OF APA AND MEET REQUIREMENTS OF PS 1-83 AND SHALL BE THE SIZE AND GRADE SHOWN ON PLANS PLYWOOD SHALL BE APA, CDX RATED SHEATHING GRADE ORIENTED STRAND BOARD OF EQUIVALENT RATING MAY BE SUBSTITUTED FOR PLYWOOD.
- PRESERVATIVE TREATMENT WHERE LUMBER OR PLYWOOD IS REQUIRED AS "TREATED" OR "PT " OR IS SPECIFIED HEREIN TO BE TREATED, COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE AMERICAN WOOD PRESERVERS BUREAU (AWPB). ALL NAILS SHALL BE STANDARD 'COMMON' NAILS STAPLES SHALL BE 16 GA. ALL LAG BOLTS AND NAILS EXPOSED TO WEATHER SHALL BE GALVANIZED, UNLESS CONNECTED TO PRESSURE TREATED LUMBER, IN WHICH CASE, STAINLESS STEEL
- OR AS NOTED OTHERWISE DISCARD UNITS OF MATERIAL WITH DEFECTS WHICH MIGHT IMPAIR THE QUALITY OF THE WORK, AND UNITS WHICH ARE TOO SMALL TO FABRICATE THE WORK WITH
- MINIMUM JOINTS OR THE OPTIMUM JOINT ARRANGEMENT. PROVIDE SOLID 2x RIM JOIST AT END OF ALL FLOOR JOISTS WITH DIMENSION LUMBER FLOOR JOISTS AND "TIMBER STRAND" RIM JOIST AT ALL "TJI" FLOOR JOISTS
- UNI ESS NOTED OTHERWISE USE 3" FRAMING VOID UNDER NON-LOAD BEARING WALLS ON SLAB-ON-GRADE FLOORS.
- WHERE NON-STRUCTURAL SLAB-ON-GRADE FLOORS ARE USED, STAIRS SHALL BE HUNG FROM THE FLOOR ABOVE IN SUCH A WAY THAT FLOOR SLAB MOVEMENT WILL NOT IMPOSE ANY INAPPROPRIATE FORCES ON THE FLOOR SYSTEM.

ROOF SHEATHING:

MIN 7/16" EXTERIOR GRADE W/ 24 16 SPAN RATING SHOULD BE INSTALLED IN AN OFFSET PATTERN. NAILING:8d COMMON @ 4"o c (OUTER 4'-0") AND 6"o c FIELD AND 4" FRO FLOOR SHEATHING: MIN 7/16" SHEATHING, SPAN RATED 24/16 SPANNING A MAXIMUM OF 16"AS PER IBC 2304.6.1.

WALL SHEATHING: SAME AS 2 ROOF SHEATHING.

WALL STUDS:

2x4 STUDS @ 16"o c AS PER IBC 2308.5.1 TIMBER FRAME TRUSSES

All TIMBER FRAME MEMBER DESIGN AND CONNECTION DESIGN DETAILS ARE NOT DESIGNED BY MDI & ASSOCIATES LLC (HERE AFTER MDI) MDI ONLY COORDINAT REVIEW THE SUBMITTAL SHOP DRAWINGS TO INCORPORATE SUCH INFO INTO THIS SET FOR APPLYING FOR A CONSTRUCTION PERMIT FOR CLIENT (SIMILAR TO R

- TIMBER FRAME TRUSS DESIGNER/FABRICATOR SHALL DESIGN THE TRUSS MEMBERS & FINAL CONNECTION DETAILS TO MEET NDS ,AITC CONSTRUCTION MANUAL (6TH ED), LOCALITY BUILDING CODE REQUIREMENTS ALLTIMBER FRAME SHOP DRAWINGS SHALL BE DESIGNED BY A TEXAS P.E. SUBMIT SHOP DRAWINGS TO OWN FOR REVIEW/APPROVAL PRIOR TO COORDINATE WITH ARCHITECT/ENGINEER AND ANY CONSTRUCTION WORK
- CONTRACTOR SHALL REVIEW ARCHITECTURAL PLANS AND CHECK WITH OWNER FOR ALL DIMENSIONS, SLOPE, CONNECTION DETAIL REQUIREMENTS, LEAD TIME, CONSTRUCTION PRACTICES PRIOR TO INSTALLTIMBER FRAME TRUSSES MDI IS NOT RESPONSIBLE FOR UN-COORDINATED DIMENSIONS SHOW ON THIS SET AFTE CONSTRUCTION WORK.

ALL FASTENERS AND PLATES SHOULD MEET OR EXCEED ASTM F1667 STANDARDS FOR CORROSION RESISTANCE.



Gully Engineering LLC





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MEMBER AMERICAN INSTITUTE of BUILDING DESIGN

Description ISSUED FOR CONSTRUCTION 11/16/2022

Guardado Residence **BOAT HOUSE** 414 Twin Timbers Ln

STRUCTURAL **GENERAL NOTES**

TEXAS

Project number 2022-10-001 11/16/2022 WJB Drawn by Checked by MG

NOTED