

DRAWING LIST

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- A 02 SLAB PLAN
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- A 05 ELEVATION #01
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- A 10 CEILING DETAIL
- E 01 ELECTRICAL PLAN



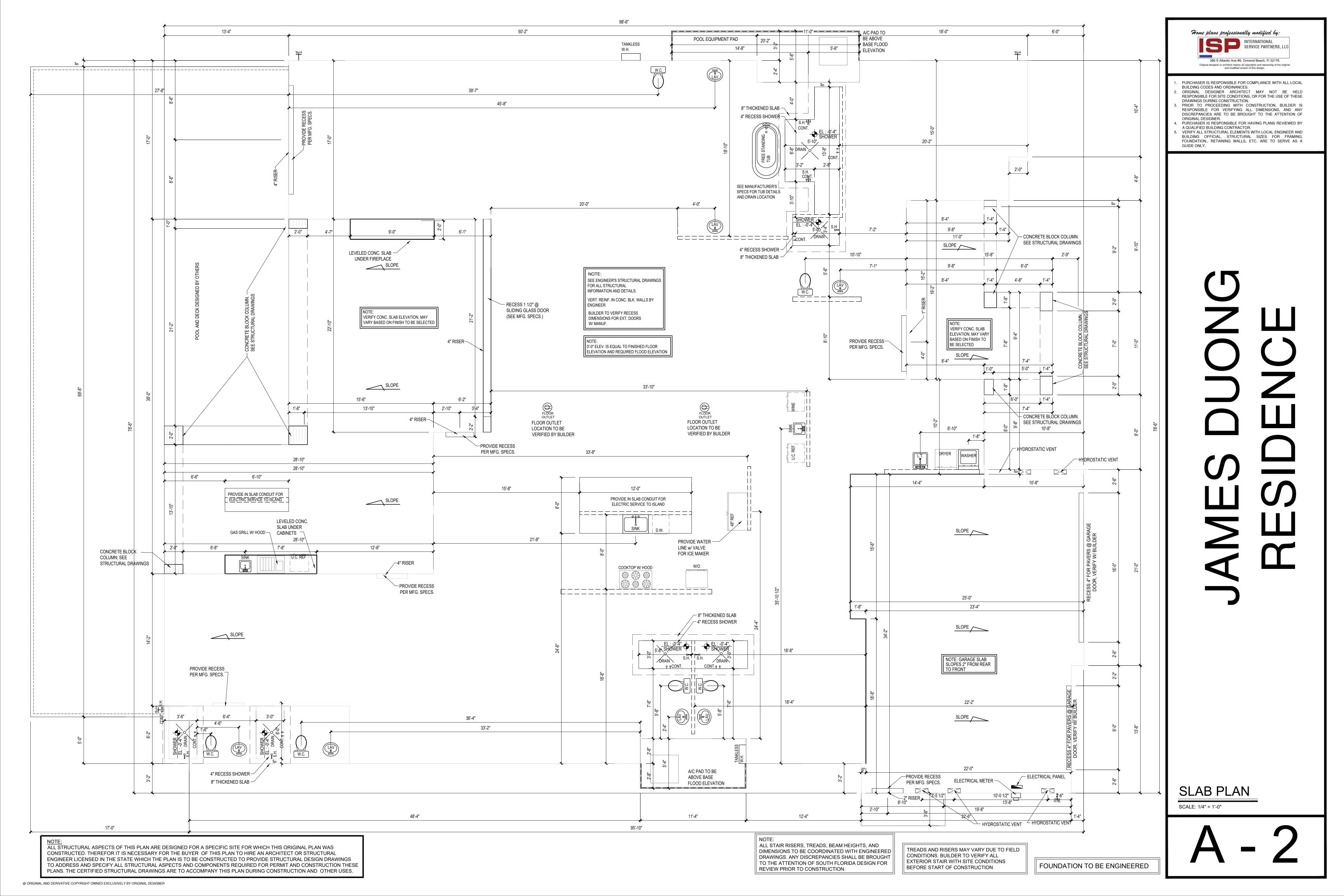
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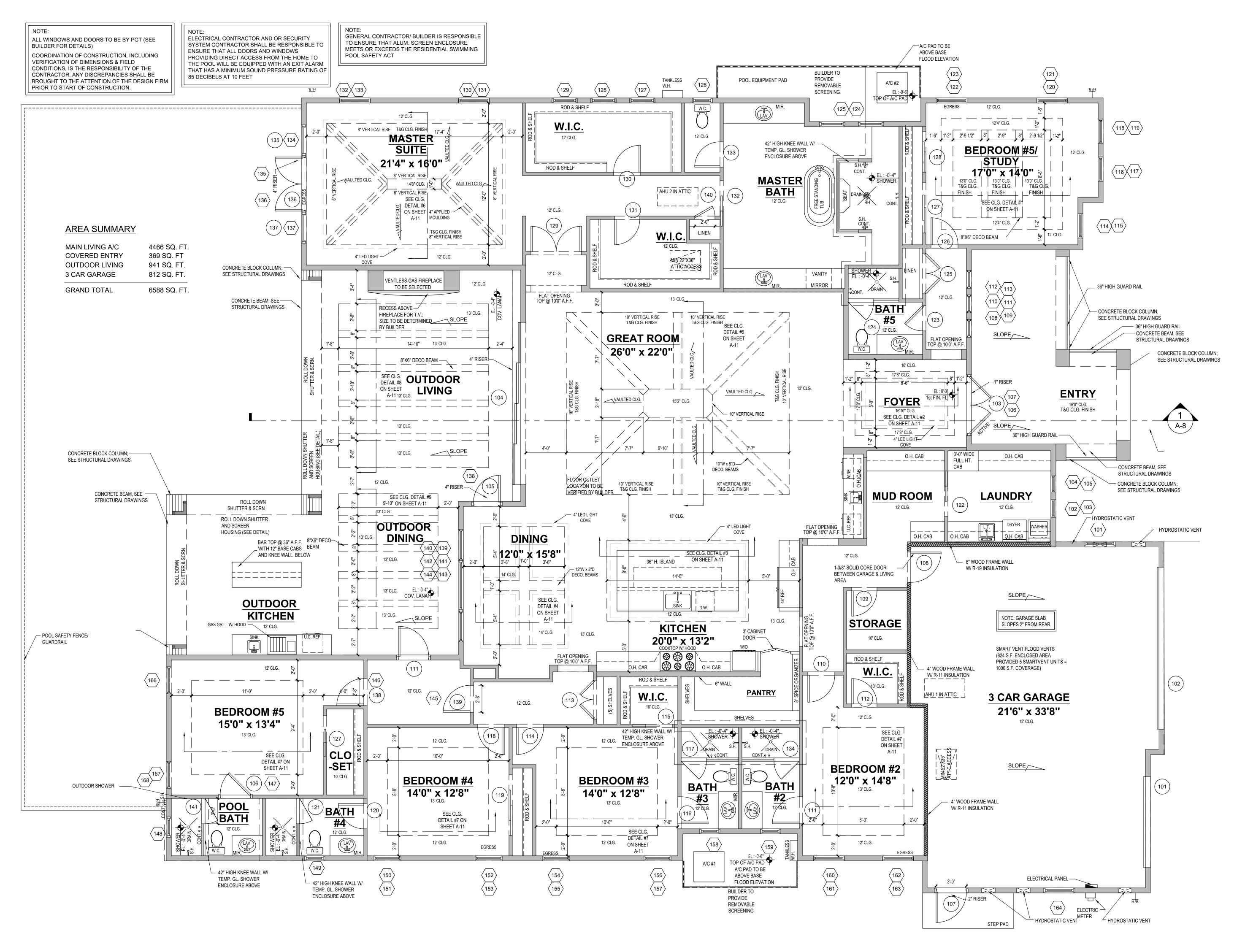
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JAMES DUONG RESIDENCE

COVER SHEET







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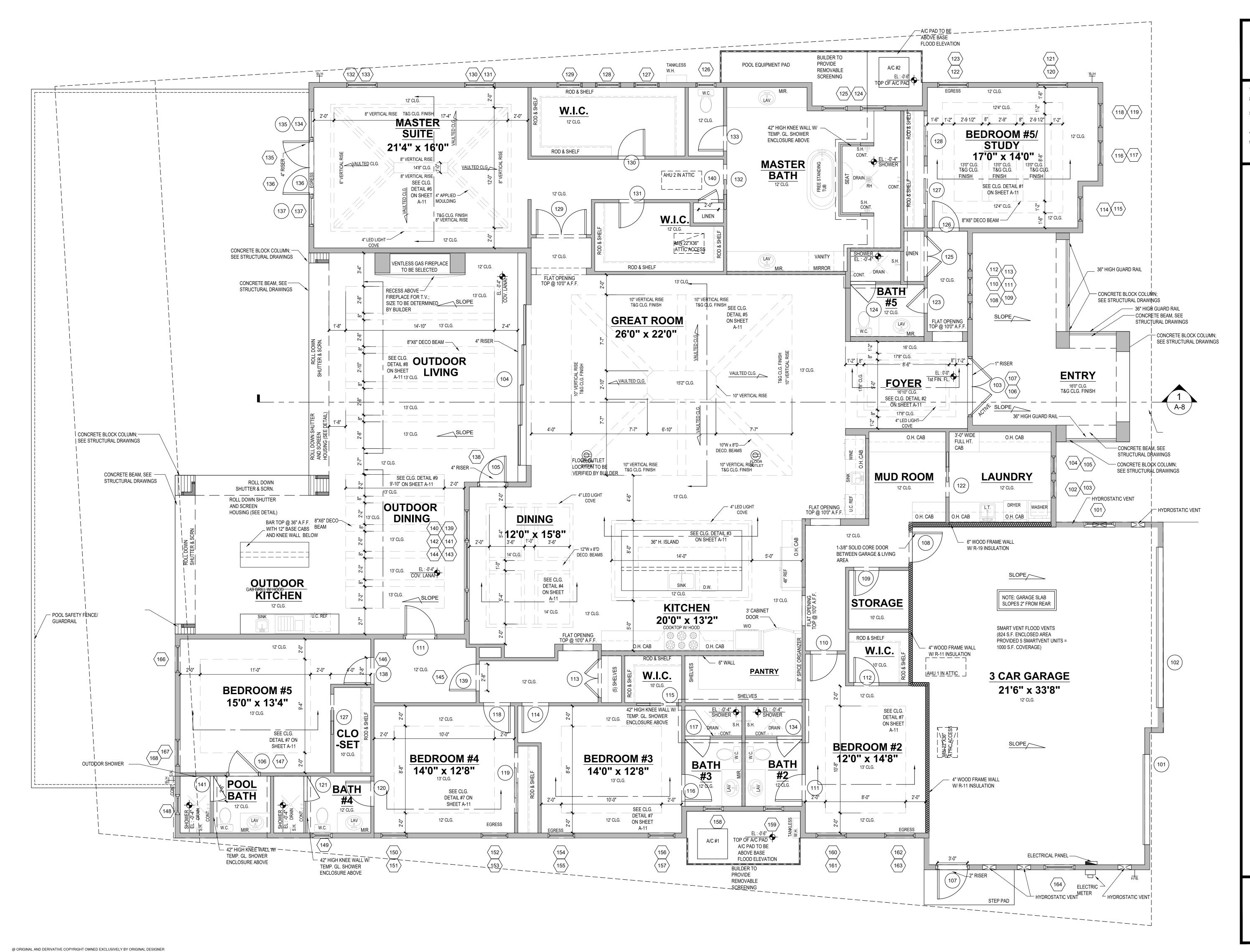
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JAMES DUONG RESIDENCE

NOTES PLAN

SCALE: 1/4" = 1'-0"



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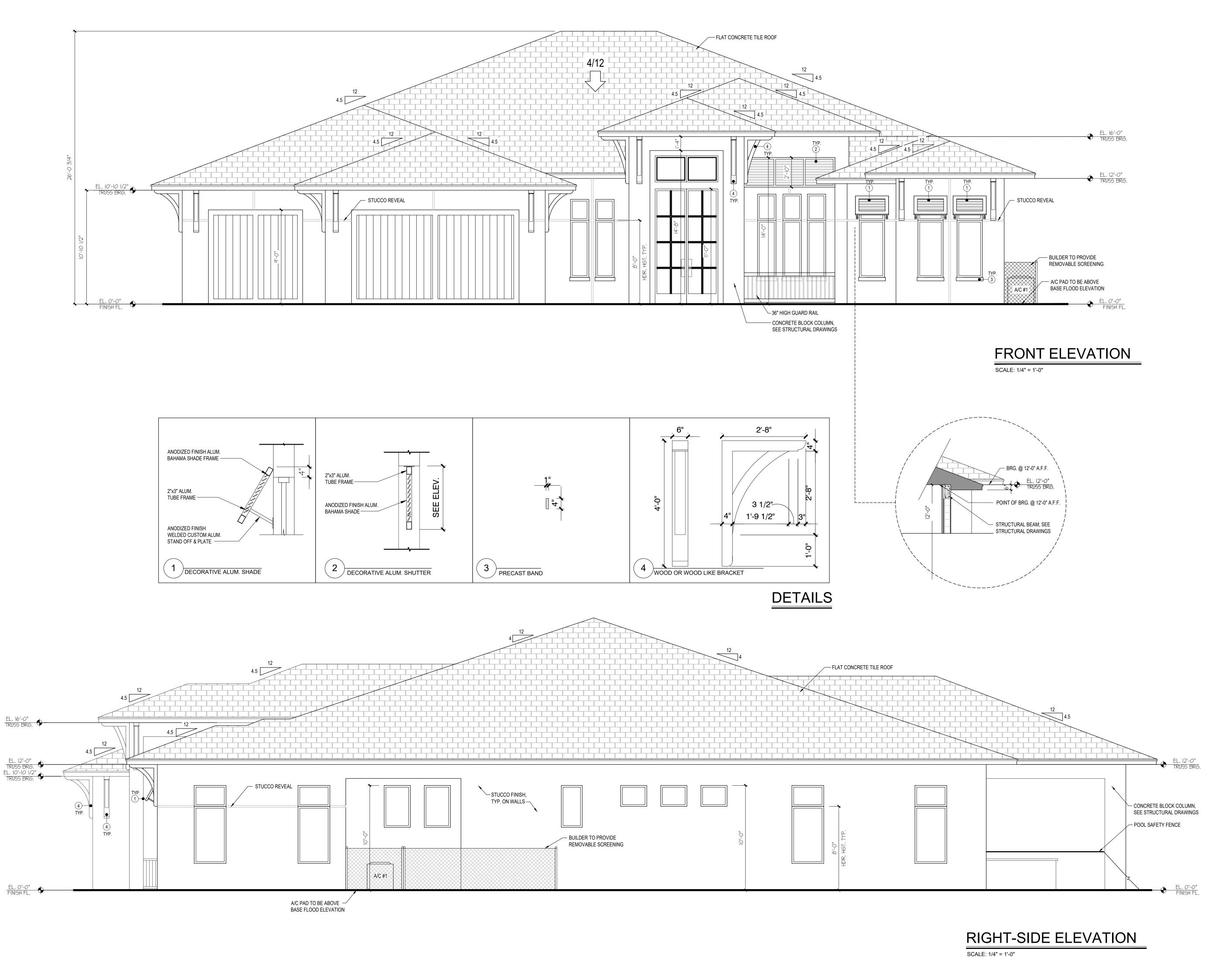
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DIMENSION PLAN

SCALE: 1/4" = 1'-0"



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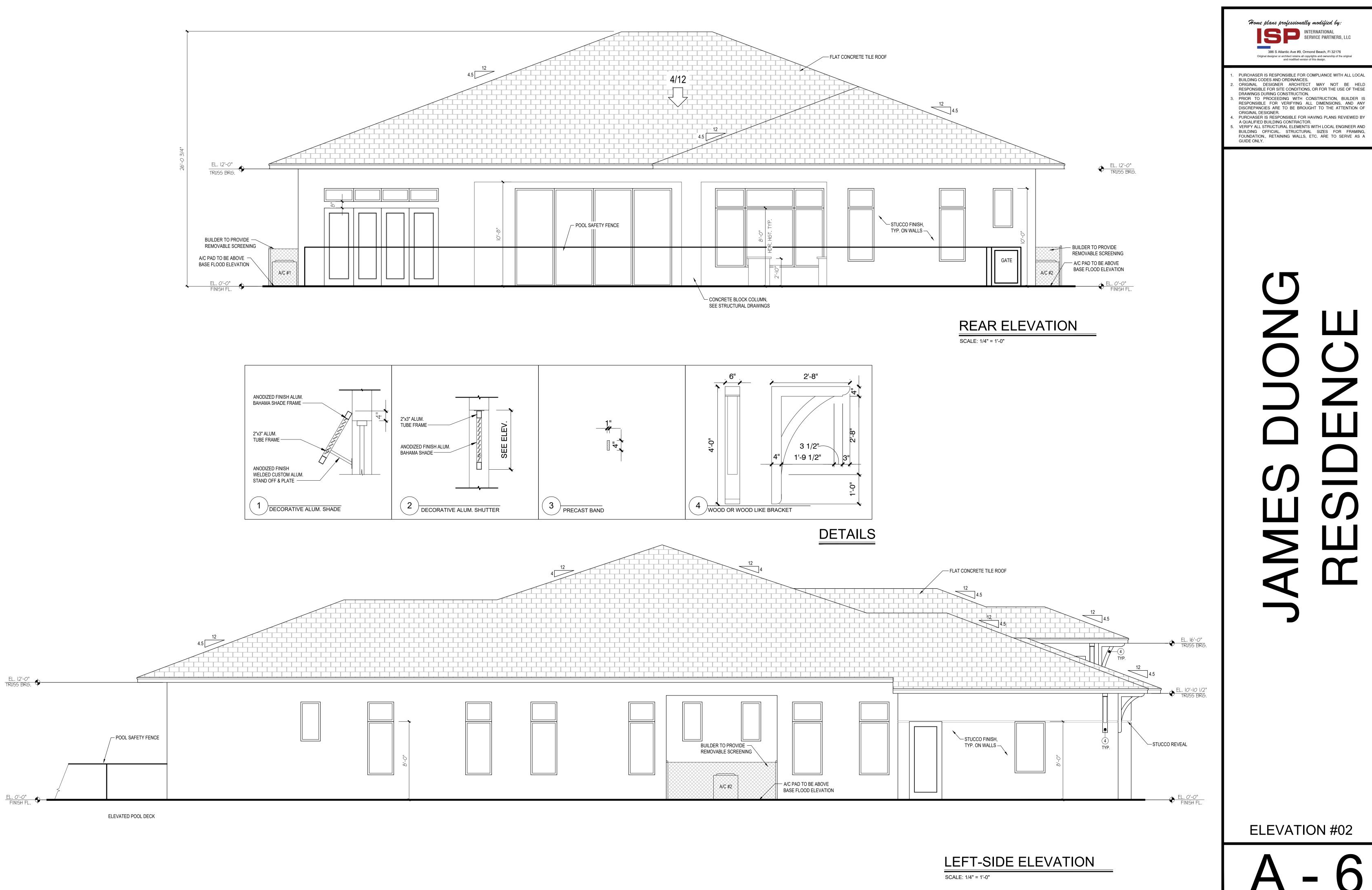
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ELEVATION #01

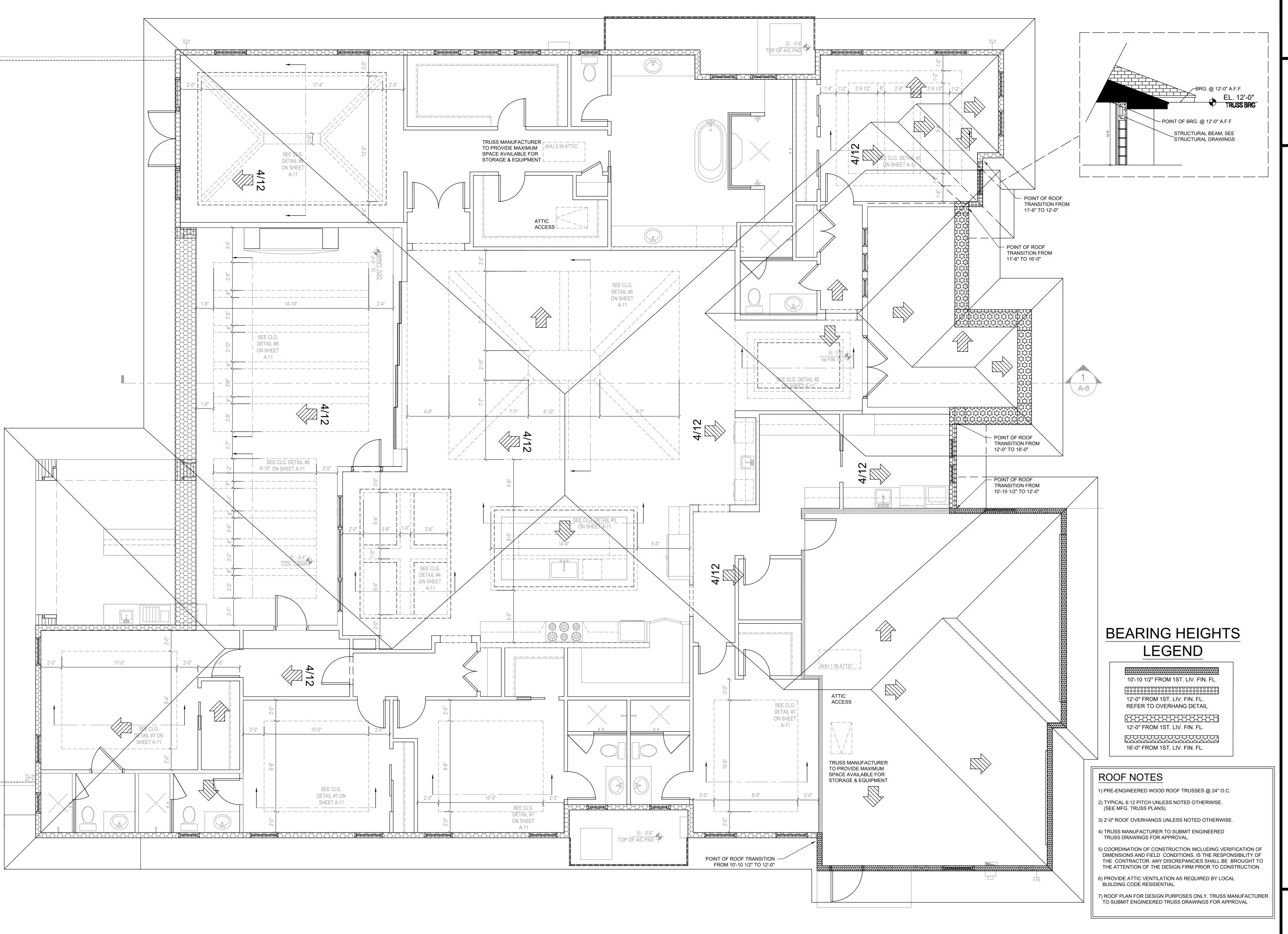


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ELEVATION #02



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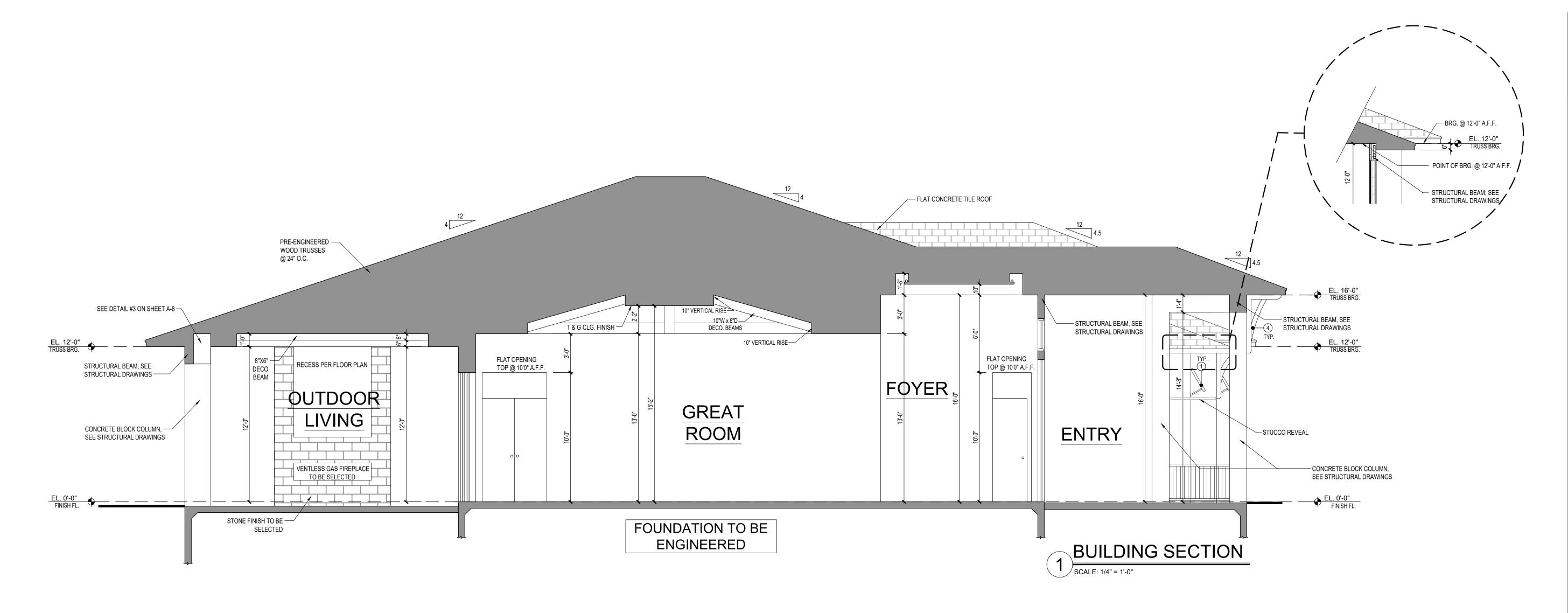
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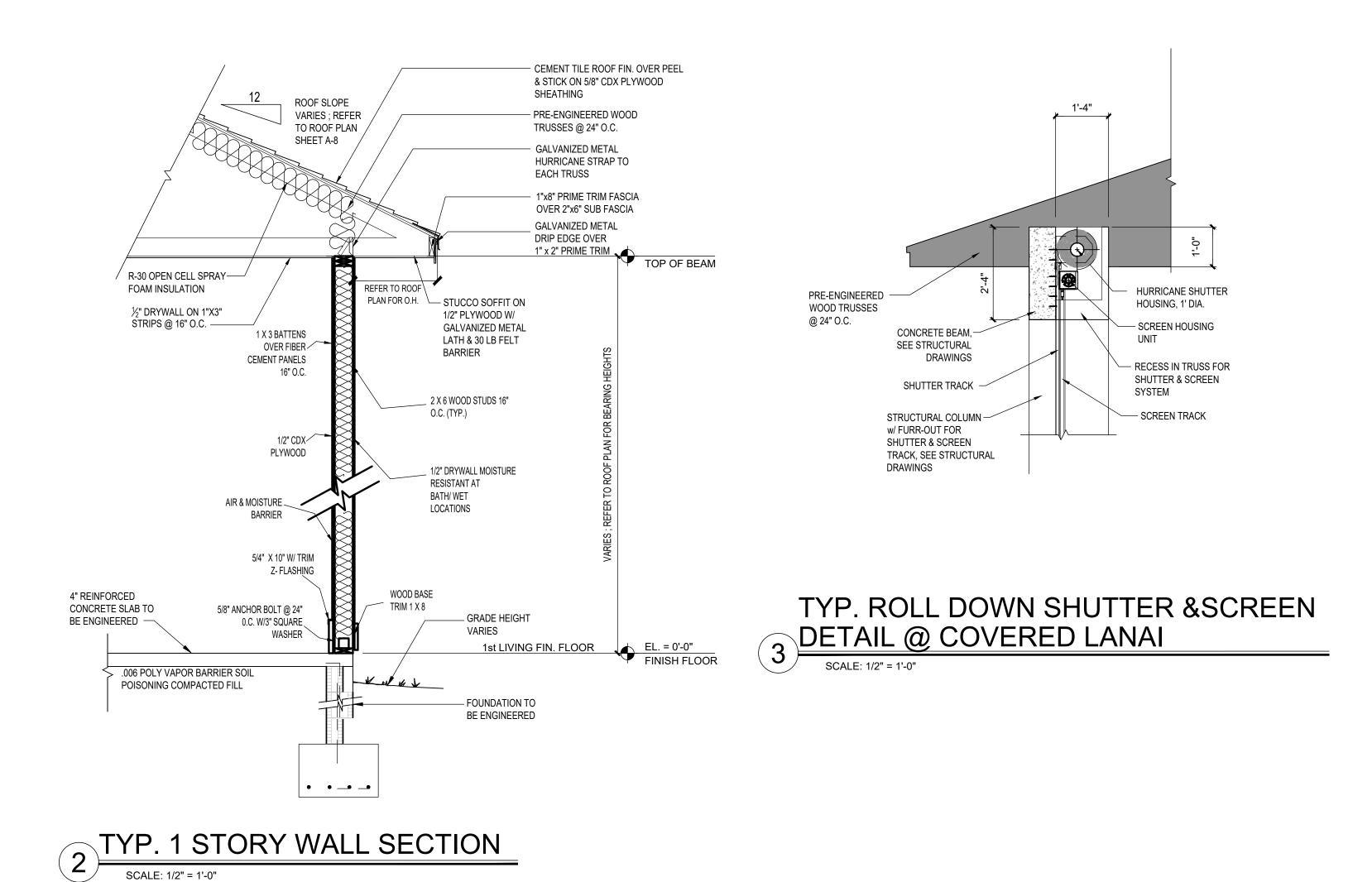
JAMES DUONG RESIDENCE

ROOF PLAN

SCALE: 1/4" = 1'-0"



SCALE: 1/2" = 1'-0"



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SECTION

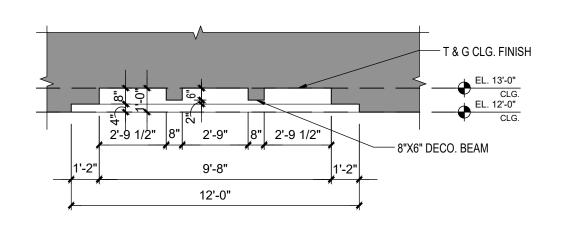
		SIZ	PROTECTION					
NO.	STYLE	WIDTH	HEIGHT	SHUTTER	IMPACT	MATERIAL	MANUFACTURER	REMARKS
101	OVERHEAD DOOR	9'-0"	9'-0"		YES	METAL	CLOPAY	
102	OVERHEAD DOOR	16'-0"	9'-0"		YES	METAL	CLOPAY	
103	SWING-DBL-EXT	PR 3'-0"	11'-0"		YES	STEEL	SUNCOST IRON DOORS	
104	SLIDER 4 PANEL	16'-0"	10'-0"		YES	ALUM		
105	SWING-EXT	2'-8"	8'-0"		YES	FIBERGLASS		
106 I	EXTERIOR FRENCH	3'-0"	8'-0"		YES	FIBERGLASS		
107	SWING-EXT	3'-0"	8'-0"		YES	FIBERGLASS		
108	SWING GARAGE	3'-0"	8'-0"			METAL		FIRE RATED W/ SELF CLOSING DEVICE
109	SWING	2'-6"	8'-0"			WOOD		
110	SWING	2'-8"	8'-0"			WOOD		
111	SWING	2'-8"	8'-0"			WOOD		
112	SWING	2'-6"	8'-0"			WOOD		
113	SWING-DBL	PR 1'-11"	8'-0"			WOOD		
114	SWING	2'-8"	8'-0"			WOOD		
115	POCKET	2'-8"	8'-0"			WOOD		
116	SWING	2'-8"	8'-0"			WOOD		
117	SHOWER SWING	2'-6"	7'-0"			GLASS		TEMP. GLASS
118	SWING	2'-8"	8'-0"			WOOD		
119	BYPASS-DBL	PR 3'-0"	8'-0"			WOOD		
120	SWING	2'-6"	8'-0"			WOOD		
121	SHOWER SWING	2'-6"	7'-0"			GLASS		TEMP. GLASS
122	POCKET	3'-0"	8'-0"			WOOD		
123	SWING	2'-6"	8'-0"			WOOD		
124	SHOWER SWING	2'-6"	8'-0"			GLASS		TEMP. GLASS
125	SWING-DBL	PR 2'-0"	8'-0"			WOOD		
126	SWING	2'-8"	8'-0"			WOOD		
127	BYPASS-DBL	PR 2'-6"	8'-0"			WOOD		
128	BYPASS-DBL	PR 2'-0"	8'-0"			WOOD		
129	SWING-DBL	PR 2'-6"	8'-0"			WOOD		
130	SWING	2'-8"	8'-0"			WOOD		
131	SWING	2'-6"	8'-0"			WOOD		
132	POCKET	3'-0"	8'-0"			WOOD		
133	SWING	2'-6"	8'-0"			WOOD		
134	SHOWER SWING	2'-6"	7'-0"			GLASS		TEMP. GLASS
135	SWING-EXT	2'-8"	8'-0"		YES	FIBERGLASS		FIXED PANEL, FRENCH DOOR
136	SWING-DBL-EXT	PR 2'-8"	8'-0"		YES	STEEL	SUNCOST IRON DOORS	
137	SWING-EXT	2'-8"	8'-0"		YES	FIBERGLASS		FIXED PANEL, FRENCH DOOR
138	SWING-EXT	2'-8"	8'-0"		YES	FIBERGLASS		,
139	SWING-EXT	3'-0"	8'-0"		YES	FIBERGLASS		
140	SWING	2'-0"	8'-0"			WOOD		
141	SHOWER SWING	2'-6"	7'-0"			GLASS		

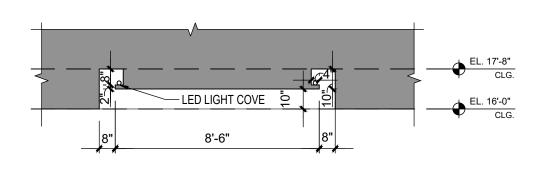
	FIRST FLOOR WINDOW SCHEDULE							
NO.	STYLE	SIZ	ZE HEIGHT	PROTECTIO SHUTTER IN	N MPACT	MATERIAL	MANUFACTURER	REMARKS
101	FIXED GLASS	3'-1"	5'-3"	SHOTTER	YES	WOOD	ANDERSEN	TOP @ 6'4" A.F.F.
102	CASEMENT	1'-9"	5'-5 1/2"		YES	WOOD	ANDERSEN	TOP @ 8'-0" A.F.F.
103	FIXED GLASS	1'-9"	2'-0"		YES	WOOD	ANDERSEN	TRANSOM
104	CASEMENT	1'-9"	5'-5 1/2"		YES	WOOD	ANDERSEN	TOP @ 8'-0" A.F.F.
105	FIXED GLASS	1'-9"	2'-0"		YES	WOOD	ANDERSEN	TRANSOM
106	FIXED GLASS	3'-0"	2'-6"		YES	WOOD	ANDERSEN	TRANSOM ABOVE ENTRY DOOR
107	FIXED GLASS	3'-0"	2'-6"		YES	WOOD	ANDERSEN	TRANSOM ABOVE ENTRY DOOR
108	CASEMENT	1'-9"	5'-5 1/2"		YES	WOOD	ANDERSEN	TOP @ 8'-0" A.F.F.
109	FIXED GLASS	1'-9"	2'-6"		YES	WOOD	ANDERSEN	TRANSOM
110	CASEMENT FIXED GLASS	1'-9" 1'-9"	5'-5 1/2" 2'-6"		YES YES	WOOD	ANDERSEN ANDERSEN	TOP @ 8'-0" A.F.F. TRANSOM
111	CASEMENT	1'-9"	5'-5 1/2"		YES	WOOD	ANDERSEN	TOP @ 8'-0" A.F.F.
113	FIXED GLASS	1'-9"	2'-6"		YES	WOOD	ANDERSEN	TRANSOM
114	CASEMENT	2'-5"	5'-5 1/2"		YES	WOOD	ANDERSEN	TOP @ 8' A.F.F.
115	FIXED GLASS	2'-5"	2'-0"		YES	WOOD	ANDERSEN	TRANSOM
116	CASEMENT	2'-5"	5'-5 1/2"		YES	WOOD	ANDERSEN	TOP @ 8' A.F.F.
117	FIXED GLASS	2'-5"	2'-0"		YES	WOOD	ANDERSEN	TRANSOM
118	CASEMENT	2'-5"	5'-5 1/2"		YES	WOOD	ANDERSEN	TOP @ 8' A.F.F.
119	FIXED GLASS	2'-5"	2'-0"		YES	WOOD	ANDERSEN	TRANSOM
120	CASEMENT	3'-0 1/2"	5'-5 1/2"		YES	WOOD	ANDERSEN	TOP @ 8' A.F.F.
121	FIXED GLASS	3'-0 1/2"	2'-0"		YES	WOOD	ANDERSEN	TRANSOM
122	CASEMENT FIXED GLASS	3'-0 1/2" 3'-0 1/2"	5'-5 1/2" 2'-0"		YES YES	WOOD	ANDERSEN ANDERSEN	TOP @ 8' A.F.F.; EGRESS TRANSOM
123 124	FIXED GLASS	2'-6"	4'-0"		YES	WOOD	ANDERSEN	TOP @ 10'-0" A.F.F.
125	FIXED GLASS	2'-6"	4'-0"		YES	WOOD	ANDERSEN	TOP @ 10'-0" A.F.F.
126	FIXED GLASS	2'-0"	4'-0"		YES	WOOD	ANDERSEN	TOP @ 10' A.F.F.
127	FIXED GLASS	2'-6"	2'-0"		YES	WOOD	ANDERSEN	TOP @ 10' A.F.F.
128	FIXED GLASS	2'-6"	2'-0"		YES	WOOD	ANDERSEN	TOP @ 10' A.F.F.
129	FIXED GLASS	2'-6"	2'-0"		YES	WOOD	ANDERSEN	TOP @ 10' A.F.F.
130	CASEMENT	3'-0 1/2"	5'-5 1/2"		YES	WOOD	ANDERSEN	TOP @ 8' A.F.F.
131	FIXED GLASS	3'-0 1/2"	2'-0"		YES	WOOD	ANDERSEN	TRANSOM
132	CASEMENT	3'-0 1/2"	5'-5 1/2"		YES	WOOD	ANDERSEN	TOP @ 8' A.F.F.
133	FIXED GLASS	3'-0 1/2"	2'-0"		YES	WOOD	ANDERSEN	TRANSOM
134 135	FIXED GLASS FIXED GLASS	2'-8" 2'-8"	1'-4" 1'-4"		YES YES	WOOD	ANDERSEN ANDERSEN	TRANSOM TRANSOM
136	FIXED GLASS	2'-8"	1'-4"		YES	WOOD	ANDERSEN	TRANSOM
137	FIXED GLASS	2'-8"	1'-4"		YES	WOOD	ANDERSEN	TRANSOM
138	FIXED GLASS	2'-8"	1'-4"		YES	WOOD	ANDERSEN	TRANSOM
139	CASEMENT	3'-0 1/2"	6'-0 1/2"		YES	WOOD	ANDERSEN	TOP @ 8' A.F.F.
140	FIXED GLASS	3'-0 1/2"	2'-0"		YES	WOOD	ANDERSEN	TRANSOM
141	FIXED GLASS	5'-0"	6'-0 1/2"		YES	WOOD	ANDERSEN	TOP @ 8' A.F.F.
142	FIXED GLASS	5'-0"	2'-0"		YES	WOOD	ANDERSEN	TRANSOM
143	CASEMENT	3'-0 1/2"	6'-0 1/2"		YES	WOOD	ANDERSEN	TOP @ 8' A.F.F.
144	FIXED GLASS	3'-0 1/2"	2'-0"		YES	WOOD	ANDERSEN	TRANSOM
145	FIXED GLASS FIXED GLASS	2'-8" 3'-0"	1'-4" 1'-4"		YES YES	WOOD	ANDERSEN ANDERSEN	TRANSOM TRANSOM
146	FIXED GLASS	3'-0"	1'-4"		YES	WOOD	ANDERSEN	TRANSOM ABOVE DOOR
148	FIXED GLASS	2'-0"	4'-0"		YES	WOOD	ANDERSEN	TOP @ 10' A.F.F.
149	FIXED GLASS	2'-0"	4'-0"		YES	WOOD	ANDERSEN	TOP @ 10' A.F.F.
150	CASEMENT	2'-8"	5'-5 1/2"		YES	WOOD	ANDERSEN	TOP @ 8' A.F.F.
151	FIXED GLASS	2'-8"	2'-0"		YES	WOOD	ANDERSEN	TRANSOM
152	CASEMENT	2'-8"	5'-5 1/2"		YES	WOOD	ANDERSEN	TOP @ 8' A.F.F. ; EGRESS
153	FIXED GLASS	2'-8"	2'-0"		YES	WOOD	ANDERSEN	TRANSOM
154	CASEMENT	2'-8"	5'-3"		YES	WOOD	ANDERSEN	TOP @ 8' A.F.F. ; EGRESS
155	FIXED GLASS	2'-8" 2'-8"	2'-0" 5'-3"		YES YES	WOOD	ANDERSEN	TRANSOM
156 157	CASEMENT FIXED GLASS	2'-8"	2'-0"		YES	WOOD	ANDERSEN ANDERSEN	TOP @ 8' A.F.F. TRANSOM
158	FIXED GLASS	2'-0"	4'-0"		YES	WOOD	ANDERSEN	TOP @ 10' A.F.F.
159	FIXED GLASS	2'-0"	4'-0"		YES	WOOD	ANDERSEN	TOP @ 10' A.F.F.
160	CASEMENT	3'-0 1/2"	5'-5 1/2"		YES	WOOD	ANDERSEN	TOP @ 8' A.F.F. ; EGRESS
161	FIXED GLASS	3'-0 1/2"	2'-0"		YES	WOOD	ANDERSEN	TRANSOM
162	CASEMENT	3'-0 1/2"	5'-5 1/2"		YES	WOOD	ANDERSEN	TOP @ 8' A.F.F. ; EGRESS
163	FIXED GLASS	3'-0 1/2"	2'-0"		YES	WOOD	ANDERSEN	TRANSOM
164	FIXED GLASS	3'-1"	5'-3"		YES	WOOD	ANDERSEN	TOP @ 6'4" A.F.F.
165	CASEMENT	2'-8"	5'-5 1/2"		YES	WOOD	ANDERSEN	TOP @ 8' A.F.F.
166	FIXED GLASS	2'-8"	2'-0"		YES	WOOD	ANDERSEN	TRANSOM
167 168	CASEMENT FIXED GLASS	2'-8" 2'-8"	5'-5 1/2" 2'-0"		YES YES	WOOD	ANDERSEN ANDERSEN	TOP @ 8' A.F.F. TRANSOM
100	I IVED GEWOO	2-0	<u> </u>		1 LO	VVOOD	ANDLINEN	TIMINOON

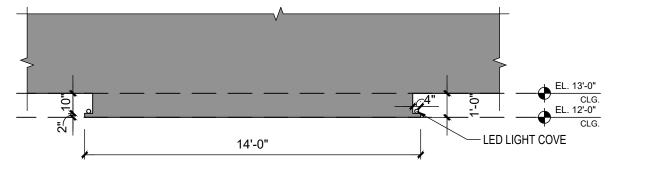


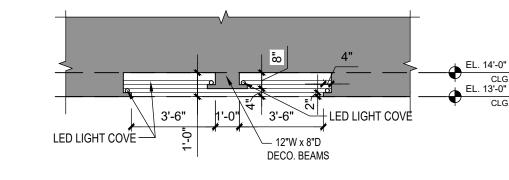
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DOOR & WINDOW SCHEDULE







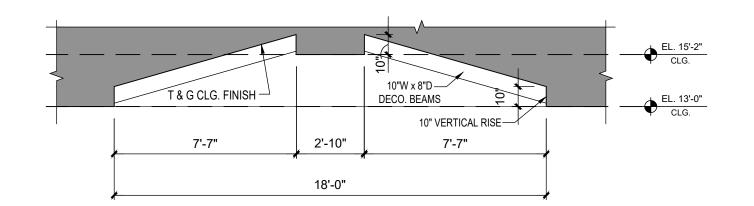


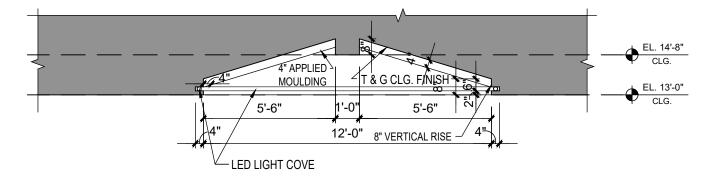


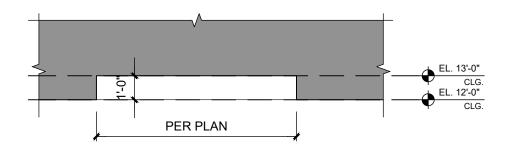








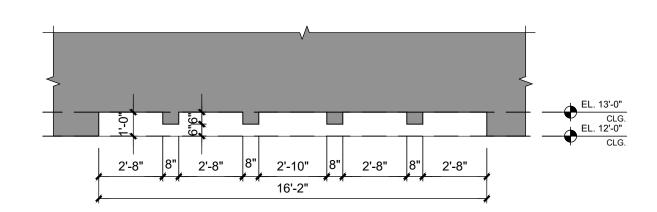




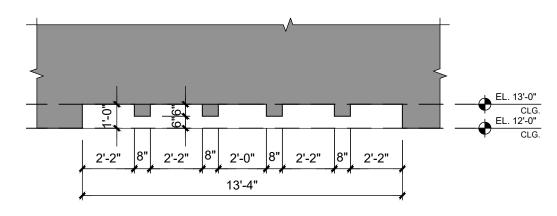




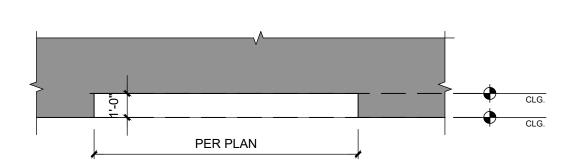












CEILING DETAIL AT BEDROOM #5

SCALE: 1/4" = 1'-0"

CEILING DETAILS

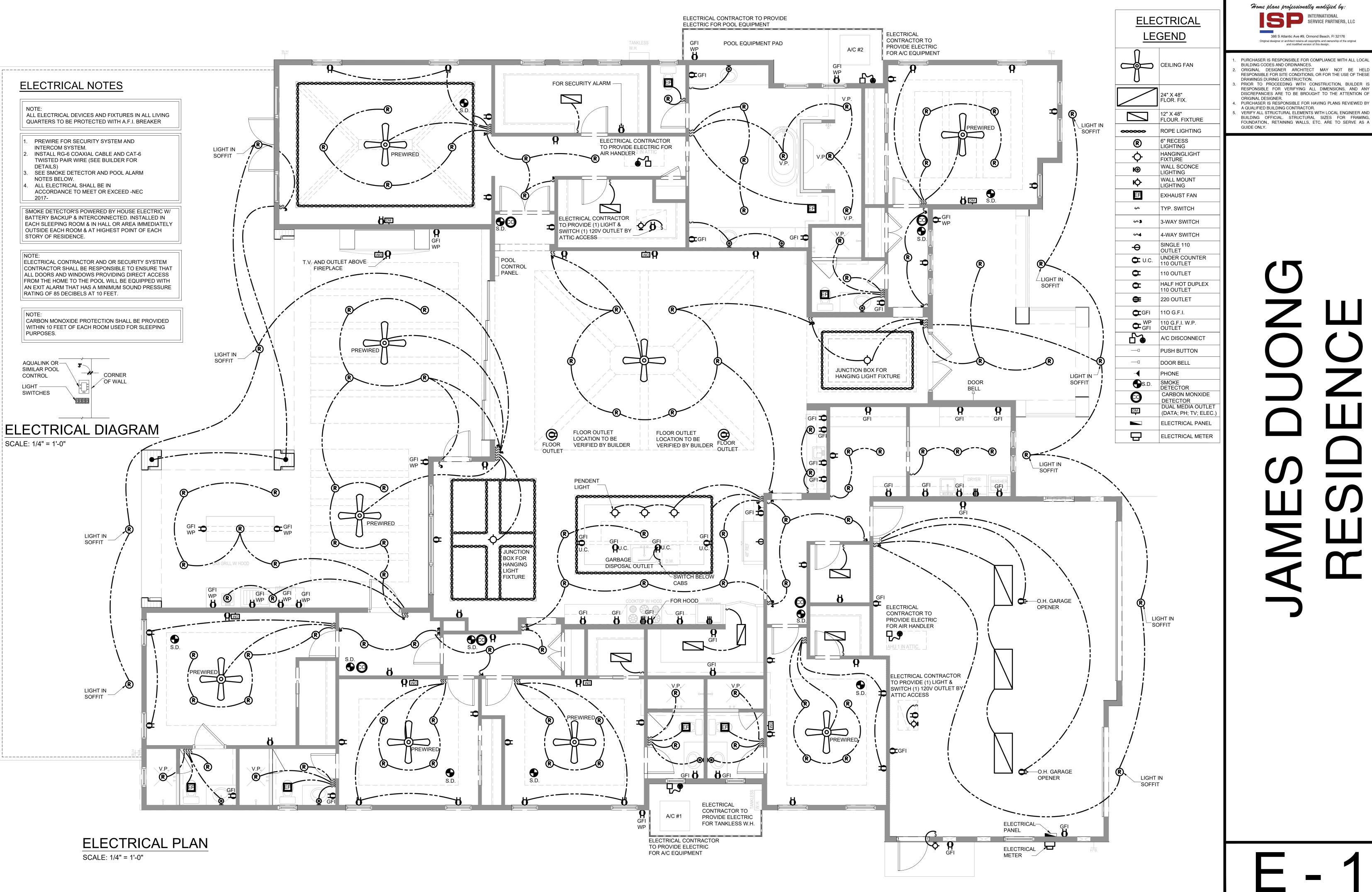
A - 10



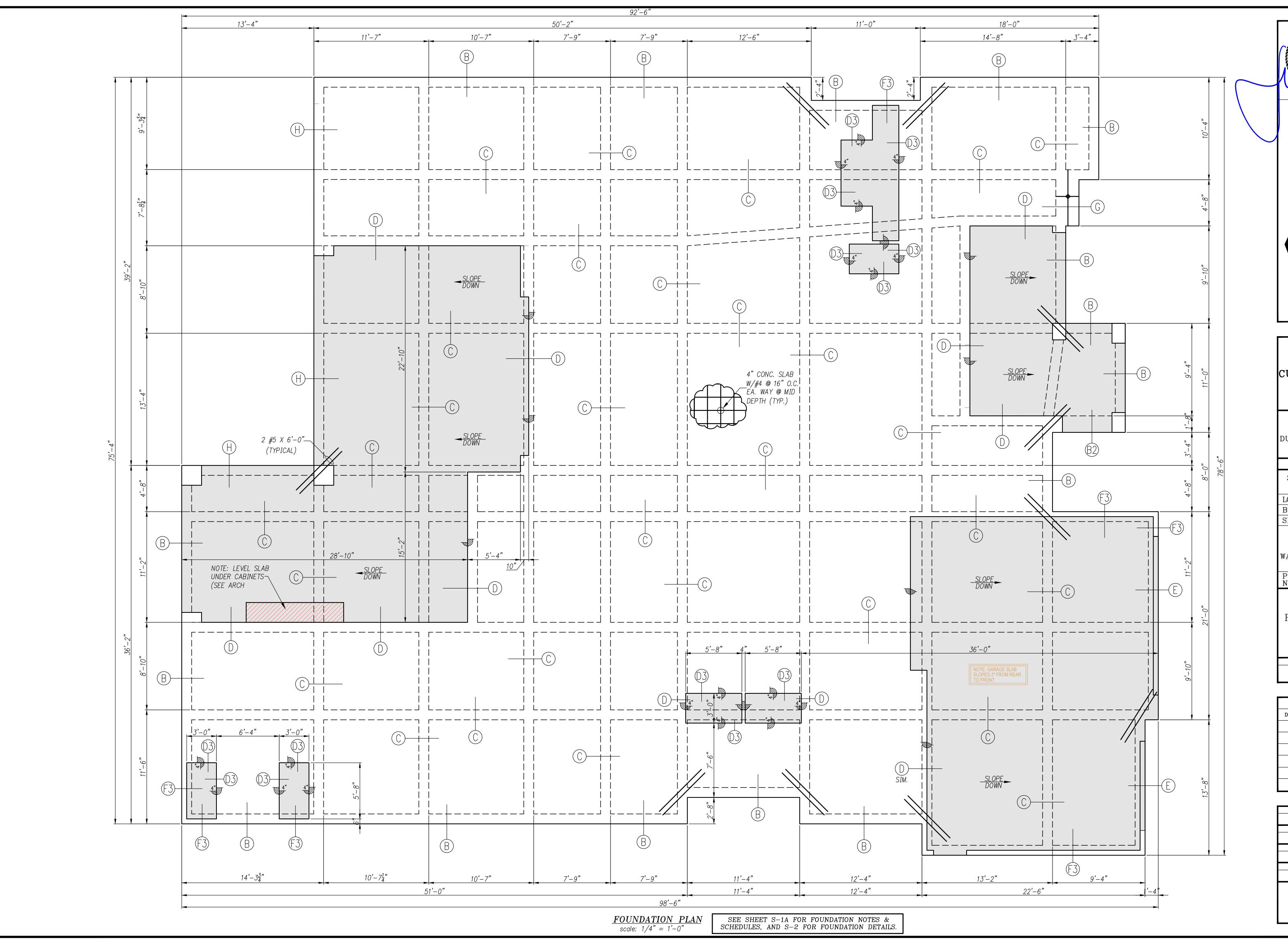
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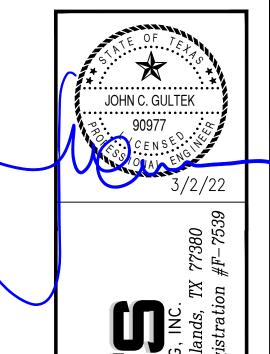
GUIDE ONLY.

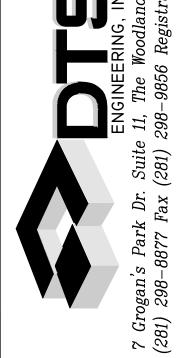
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CUSTOM HOME

DUONG RESIDENCE

PROJECT INFO.

SADDLE CREEK
FOREST

LOT. 14
BLK. 1
SECT. 6

27900 E. STALLION LN., WALLER, TX 77484

PLAN NO.

FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

EVISIONS
REASON

CHECKED BY:
JG/BW
DRAWN BY:
YP
DATE:
3/2/22
JOB #
22104
S1

BEARING WALL ANCHOR SCHEDULE						
		LOCAT				
ATTACHMENT ANCHOR TYPE	EMBEDMENT	EXTERIOR WALLS	INTERIOR WALLS	NON LOAD BEARING WALLS	NOTES	
1/2" DIAM. ANCHOR BOLTS	7"	48"O.C.	72"O.C.	N/A	2 TO 4	
1/2" DIAM. EXPANSION ANCHORS	2 1/4"	N/A	12"0.C.	N/A	1 & 3	
0.177" DIA. POWER ACTUATED FASTENERS	1 1/2"	N/A	24"O.C.	48"O.C.	3	
0.099" DIA. POWER 1" ACTUATED FASTENERS		N/A	12"0.C.	12"O.C.	3	

NOTE

- EXPANSION ANCHORS SHALL NOT BE ALLOWED WITHIN 10" OF SLAB EDGE.
 REFER TO SHEAR WALL PLAN AND DETAILS FOR SHEAR WALL ANCHORS.
 REF: PLANS FOR ADDITIONAL NOTES.
- 4. ALL HARDWARE IN CONTACT WITH ACQ TREATED LUMBER CLASS G185 MUST BE SIMPSON 2MAX PRODUCTS THAT MEET ASTM A653.

ALL TIMBER POST SHALL BE 4X4 (MINIMUM) UNLESS NOTED OTHERWISE AND SHALL BE OF #2 S.Y.P.

SITE PREPARATION

- REMOVE A MINIMUM OF 12" OF THE NATURAL SOIL WITHIN THE AREA OF THE FOUNDATION PAD AND 5'-0" BEYOND.
- 2) PROOF ROLL AREA TO RECEIVE FOUNDATION PAD.
- 3) IF 95% COMPACTION ON EXISTING SOIL CANNOT BE OBTAINED, EITHER CONTINUE REMOVING ADDITIONAL SOIL UNTIL COMPACTABLE CLAYEY SOIL IS OBSERVED OR TREAT THE SURFACE WITH RECOMMENDED LIME AND/OR FLYASH CEMENT MIX. SEE SOILS REPORT FOR SPECIFIC RECOMMENDATIONS.
- 4) PLACE A MIN. OF 2'-0" OF NEW SELECT FILL IN 6" LIFTS AND COMPACT TO 95% OF THE MAXIMUM DRY DENSITY TO REQUIRED ELEVATION TO RECEIVE FOUNDATION SLAB.
- 5) FOUNDATION CONTRACTOR TO CONTACT LONE STAR AT 281-441-1462 OR A TESTING COMPANY OF YOUR CHOICE 48 HOURS PRIOR TO THE FOUNDATION EXCAVATION FOR SCHEDULING OF SOIL COMPACTION TESTS; THIS COMPANY MUST HAVE PROOF OF EXPERIENCE AT SOILS TESTING.
- 6) SUBMIT TO DTS ENGINEERING ALL SITE TESTING RESULTS INCLUDING COMPACTION TESTING, CONCRETE COMPRESSIVE STRENGTH TESTING AND ANY OTHER FIELD OR LAB RELATED TESTING PERTAINING TO THIS PROJECT.

SLAB SCHEDULE			
THICKNESS	REINF	ORCING	
't'	SIZE	SPACING	
4"	#4	16"	

NOTES:

- 1 REINFORCING SHALL BE PLACED AT MID—DEPTH OF SLAB.
 2 SEE FOUNDATION PLAN FOR OTHER REINFORCING IN SLAB.
- 3 THE SLAB AND BEAMS SHALL BE PLACED ON A 10 MIL VAPOR BARRIER.

SUBDIVISION OR ADDRESS	BEAM SCHEDULE BEAM SIZE (*)		<u>P. I.</u>	SOILS REPORT INFORMATION
SADDLE CREEK FOREST S/D WALLER, TX 77484	<u>"W"</u> 12"	<u>"D"</u> 30"**	30	LONE STAR REPORT # 2111024-1 DATED: DEC 23, 2021
* BOTTOM OF BEAM TO BE A MIN.	IMUM OF <u>18"</u> BELC	OW <u>FINAL</u> GRAD	Е.	

**THIS DIMENSION IS THE MINIMUM BEAM DEPTH REQUIRED. WHEN VARIATIONS IN THE GRADE ELEVATIONS OR DROPS IN THE SLAB OR THE BEAMS OCCUR, THE BEAM DEPTH WILL INCREASE ACCORDINGLY.

MIN. 2'-0" OF SELECT FILL (SEE SITE PREPARATION NOTE ON THIS SHEET) SLAB AREA = 6,587 S.F.

NOTES:

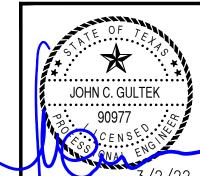
- 1 THE CONTRACTOR SHALL PROVIDE TO DTS ENGINEERING ALL SOILS TEST DATA TAKEN AT THE PROJECT SITE DURING CONSTRUCTION.
 2 SEE THE FOUNDATION PLAN ON THIS SHEET AND ASSOCIATED DETAILS AND SECTIONS FOR
- 2 SEE THE FOUNDATION PLAN ON THIS SHEET AND ASSOCIATED DETAILS AND SECTIONS FOR REINFORCING ON SHEET S—2.
- 3 SEE SOIL REPORT FOR DETAILED INFORMATION ON SITE—PREP, SELECT FILL REQUIREMENTS, FOUNDATION MAINTENANCE, E.T.C.

REINFORCING NOTES:

- **1.** SEE SHEET S-2 FOR DETAILS, NOTES, AND SPECIFICATIONS FOR THIS FOUNDATION SLAB.
- 2. SEE THE "BEAM SCHEDULE" ON THIS SHEET FOR THE BEAM DIMENSIONS "W" AND "D".

FOUNDATION SLAB NOTES

- 1. THIS DRAWING IS STRICTLY DRAWN TO SHOW STRUCTURAL DETAILS OF THE SLAB SURFACE AND LAYOUT. SEE THE ARCHITECTURAL DRAWINGS TO VERIFY ALL SLAB EDGE DIMENSIONS, BRICK LEDGES, DROPS AND SLOPE LOCATIONS AND ALL OTHER CHANGES IN THE SLAB SURFACE OR LAYOUT PRIOR TO CONSTRUCTION.
- 2. FOR THE LOCATION OF NON-STRUCTURAL ITEMS TO BE EMBEDED IN THE SLAB; SEE THE ARCHITECTURAL DRAWINGS OR THE DRAWING PROVIDED BY OTHER TRADES FOR THE APPROPRIATE DETAILS AND LOCATIONS AS REQUIRED FOR THEIR INSTALLATION. ALL PIPES, CONDUITS, OR OTHER SUCH ITEMS MUST BE PLACED UNDER THE SLAB.
- **3.** THE BOTTOM OF ALL BEAMS SHALL BE A MINIMUM OF 18—INCHES BELOW FINISHED GRADE UNLESS OTHERWISE NOTED IN THE BEAM SCHEDULE SHOWN ON THIS SHEET.
- 4. THE DEPTH OF THE BEAMS SHOWN IN THE "BEAM SCHEDULE" ON THIS DRAWING IS A MINIMUM DEPTH; IF THE BEAMS BECOME DEEPER SEE THE DETAILS ON DRAWING S-2 FOR THE ADDITIONAL REINFORCING, IF REQUIRED.
- **5.** REMOVE ALL TREES IN THE AREA OR ADJACENT TO THE AREA IN WHICH THE FOUNDATION SHALL BE PLACED. UPON REMOVAL THE TREES; THE REMAINING HOLES SHALL BE FILLED WITH SELECT FILL (P.I. = 12 TO 20 AND LIQUID LIMIT = 35 OR LESS) IN 6-INCH LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST (ASTM D-698).
- 6. DURING THE INITIAL PROOF ROLLING IF SOME LOCALIZED SOIL PROBLEMS ARE DISCOVERED; REMOVE THE EXISTING SOIL IN THOSE LOCATIONS AND PLACE SELECT FILL IN THE HOLES AND COMPACT AS STATED ABOVE.
- 7. DO NOT PLACE THE FOUNDATION SLAB ON WET OR SATURATED SOILS. IF WET CONDITIONS PERSIST THE WET AREA SHALL BE TREATED WITH AN APPROVED LIME/FLYASH MIX AND RECOMPACTED BEFORE PLACING ANY FURTHER FILL ON THIS LOCATION
- 8. POSITIVE DRAINAGE SHALL BE PROVIDED ON ALL SIDES OF THE FOUNDATION SLAB. SHOULD THE FOUNDATION SLAB BE HIGHER THAN ANY OTHER POINT IN THE LOT NO ADDITIONAL WORK IS REQUIRED. HOWEVER, IF ANY POINT ON THE FOUNDATION SLAB IS LOWER THAN THE ADJACENT LOT; A SWALE SHALL BE CREATED NO LESS THAN 5-FEET FROM THE FOUNDATION SLAB TO DIRECT THE FLOW OF WATER AWAY AND OR AROUND THE FOUNDATION SLAB.
- **9.** IF DURING CONSTRUCTION, IT IS DISCOVERED THAT THERE IS A DISCREPANCY BETWEEN THE ARCHITECTURAL AND THE STRUCTURAL PLANS; NOTIFY THE ENGINEER AT ONCE (DTS ENGINEERING 281–298–8877).
- 10. IT IS IMPERATIVE THAT DTS ENGINEERING IS NOTIFIED DURING THE STRUCTURAL DESIGN PHASE FOR ANY FUTURE STRUCTURES THAT ARE PLANNED TO BE BUILT AROUND THE FOUNDATION INCLUDING SWIMMING POOLS, JACUZZI, OR ANY OTHER STRUCTURE THAT HAS A FOUNDATION. PLEASE CLARIFY THE LOCATION OF SUCH STRUCTURE(S) ON THE SITE PLAN INCLUDING THE DIMENSIONS, DISTANCES TO THE HOUSE FOUNDATION, AND DESIGN SPECIFICATIONS OF THE STRUCTURE, E.T.C.
- 11. THE DESIGN OF THE FOUNDATION SHOWN ON THIS DRAWING IS BASED ON ESTIMATED LOADS FROM THE STRUCTURAL FRAMING ABOVE. THIS FIRM DID NOT DESIGN THE STRUCTURAL FRAMING; ALL LOADS ARE ESTIMATED FROM THE ARCHITECTURAL DRAWINGS PROVIDED BY THE CLIENT.





CUSTOM HOME

DUONG RESIDENCE

PROJECT INFO.

SADDLE CREEK FOREST

LOT. 14

BLK.

SECT. 6
27900 E.

STALLION LN., WALLER, TX 77484

PLAN NO.

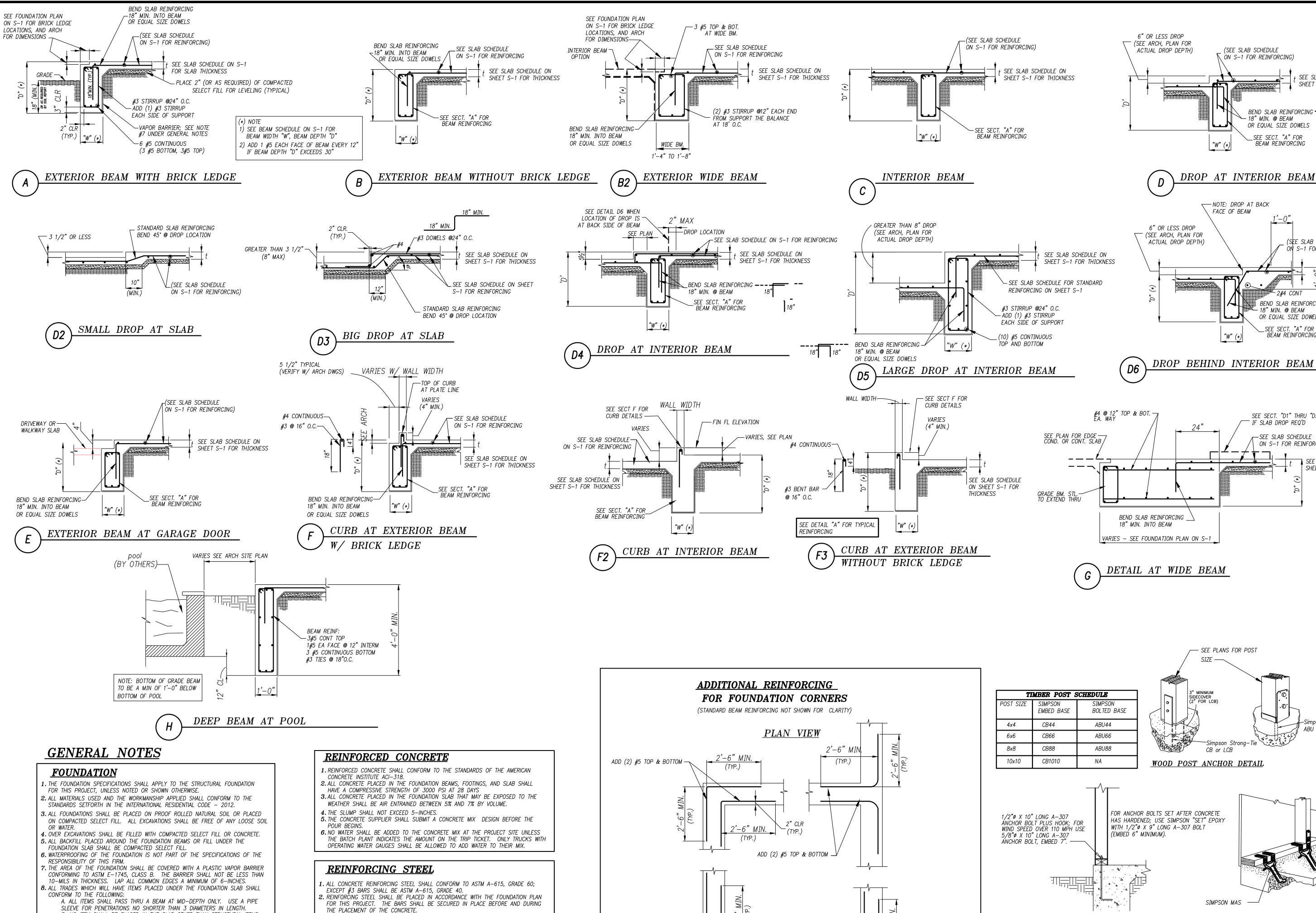
FOUNDATION NOTES & SCHEDULES

SCALE: 1/4" = 1'-0"

REVISIONS			
REASON			

	-
CHECKED BY:	
JG/BW	
DRAWN BY:	
YP	
DATE:	
3/2/22	
JOB #	
22104	

S-1A



3. FABRICATION AND INSTALLATION OF THE REINFORCING SHALL CONFORM TO THE

4. REINFORCING BAR LAP SPLICES ARE AS FOLLOWS, UNLESS OTHERWISE NOTED:

5. PROVIDÉ THE MINIMUM CONCRETE COVER OVER THE REINFORCING STEEL AS

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.......

CONCRETE NOT EXPOSED TO WEATHER OR NOT IN CONTACT WITH

AMERICAN CONCRETE INSTITUTE MANUAL OF STANDARD PRACTICE.

BAR SIZE SPLICE LENGTH

A) SLICE TOP BARS AT MID-SPAN

CONCRETE EXPOSED TO WEATHER.....

FOLLOWS:

B) SLICE BOTTOM BARS OVER SUPPORT

B. NO ITEM SHALL BE PLACED IN THE SLAB OTHER THAN STRUCTURAL ITEMS

CALLED FOR IN THESE STRUCTURAL PLANS, DETAILS, OR SECTIONS.

THE SELECT FILL (P.I. = 10 TO 20, LIQUID LIMIT = 35 OR LESS, 3-INCH

MAXIMUM PARTICLE SIZE, AND FREE OF ALL FORMS OF DEBRIS) SHALL BE

PLACED IN 6-INCH LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 95% OF THE

MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST

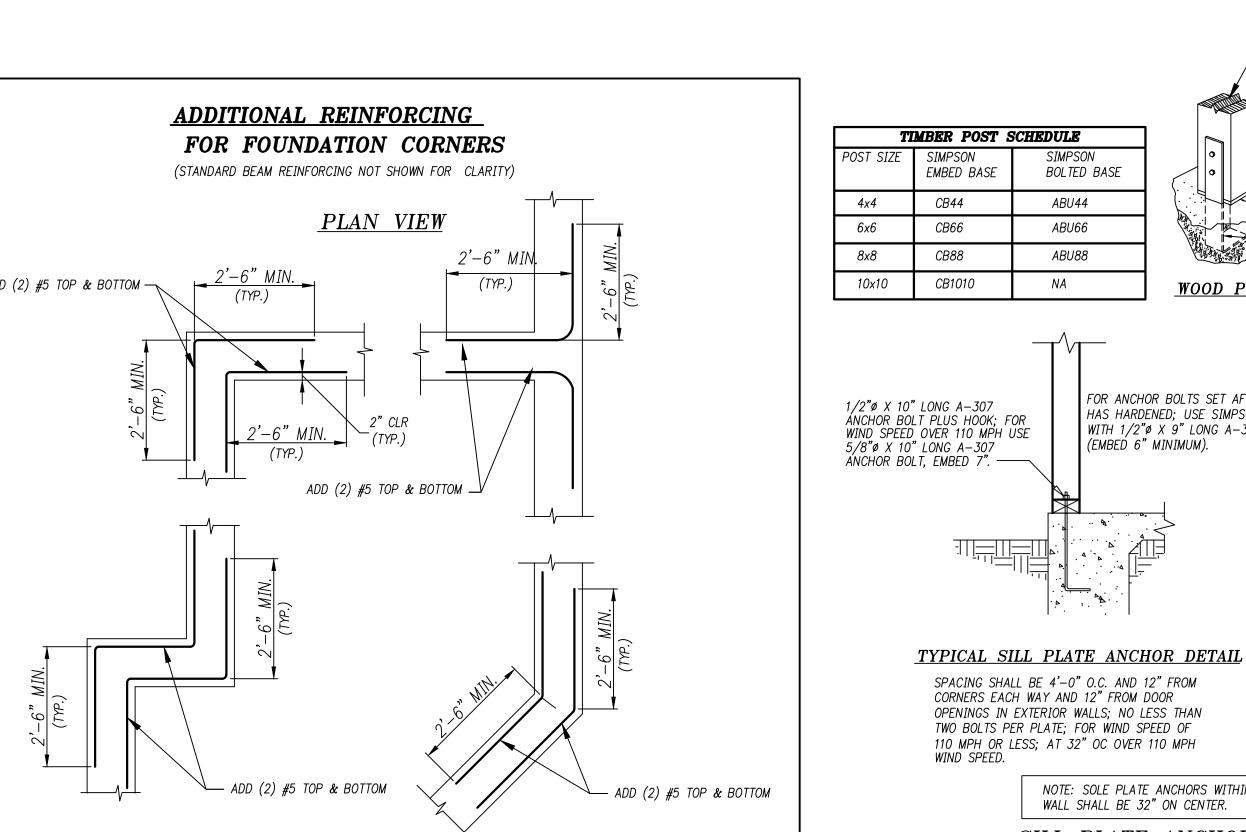
(ASTM D-698). THE FINISH AREA OF THE COMPACTED SELECT FILL SHALL EXTEND

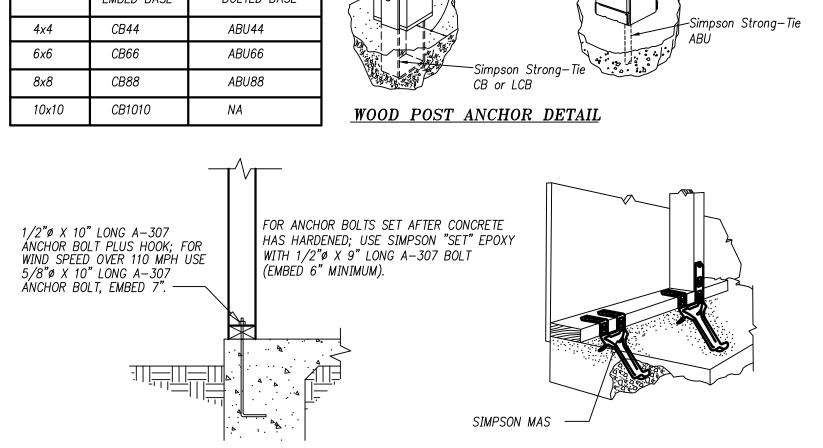
A MINIMUM OF 5-FEET FROM THE FOUNDATION OUTLINE AND SHALL HAVE A SLOPE

OF NOT MORE THAN 3:1. A MATERIAL TESTING FIRM SHALL BE EMPLOYED TO

DETERMINE THE AMOUNT OF COMPACTION OF EACH LIFT.

SELECT FILL





— SEE PLANS FOR POST

SIZE -

SIDECOVER (2" FOR LCB)

ALTERNATE SILL PLATE ANCHOR DETAIL SPACING SHALL BE 3'-0" O.C. AND 12" FROM CORNERS EACH WAY AND 12" FROM DOOR OPENINGS IN EXTERIOR WALLS

(SEE SLAB SCHEDULE

DROP AT INTERIOR BEAM

NOTE: DROP AT BACK FACE OF BEAM

、ON S−1 FOR REINFORCING)

— 18" MIN. @ BEAM

OR EQUAL SIZE DOWELS

BEAM REINFORCING

+ SEE SLAB SCHEDULE ON

BEND SLAB REINFORCING ---

(SEE SLAB SCHEDULE ON S-1 FOR REINFORCING)

BEND SLAB REINFORCING ---

·18" MIN. @ BEAM

OR EQUAL SIZE DOWELS

_SEE SECT. "A" FOR

SEE SECT. "D1" THRU "D5"

IF SLAB DROP REQ'D

—SEE SLAB SCHEDULE

ON S-1 FOR REINFORCING

SEE SLAB SCHEDULE ON

BEAM REINFORCING

SHEET S-1 FOR THICKNESS

NOTE: SOLE PLATE ANCHORS WITHIN THE LENGTH OF A SHEAR WALL SHALL BE 32" ON CENTER.

SILL PLATE ANCHORING DETAIL

CUSTOM HOME SHEET S-1 FOR THICKNESS DUONG RESIDENCE PROJECT INFO SADDLE CREEK FOREST LOT. 14

SECT.

PLAN |

JOHN C. GULTEK

90977

NO. FOUNDATION DETAILS &

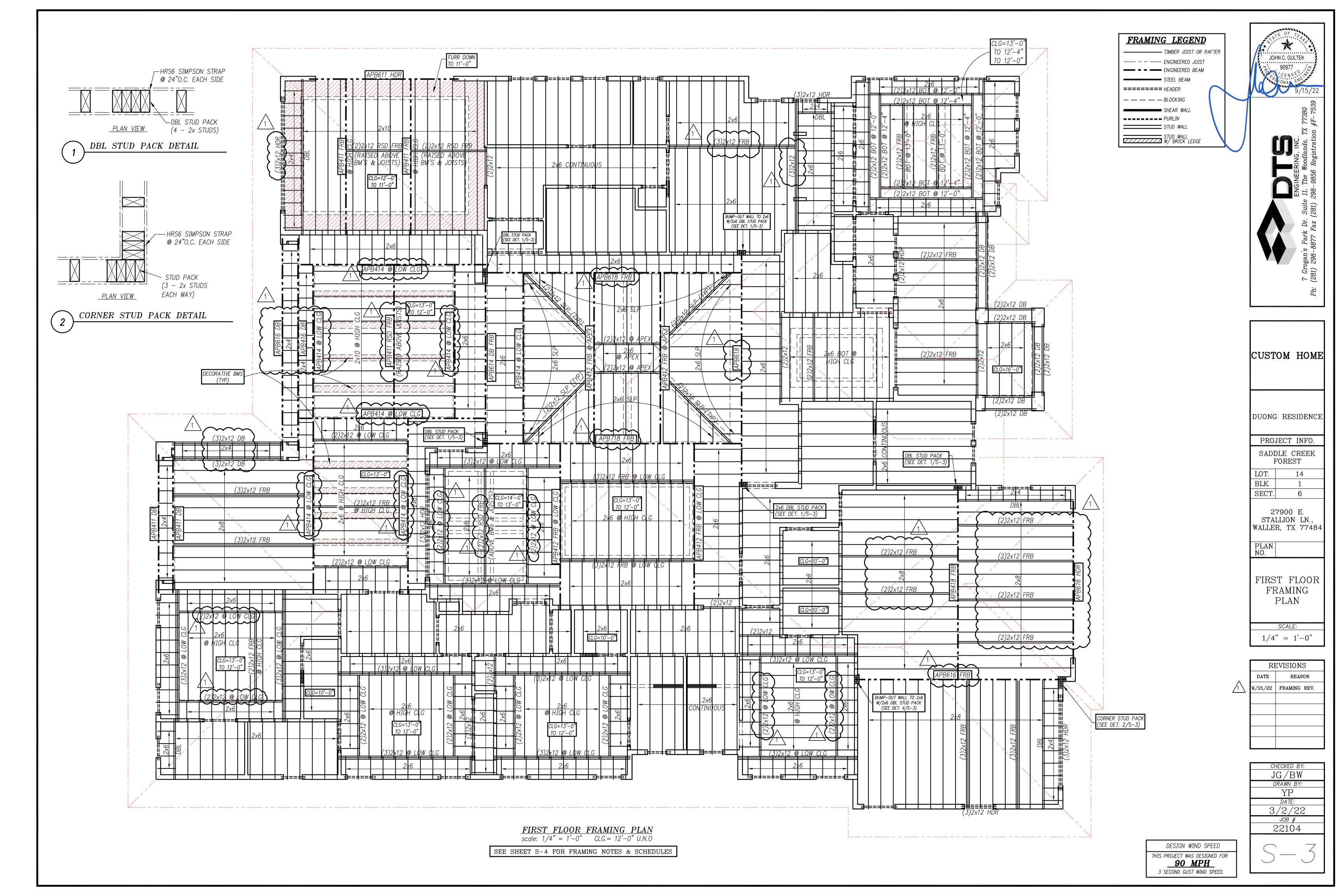
27900 E. STALLION LN. WALLER, TX 77484

SCALE: NOT TO SCALE

NOTES

R	EVISIONS
DATE	REASON

CHECKED B1.
JG/BW
DRAWN BY:
BW
DATE:
3/2/22
JOB #
22104
<u>S</u>

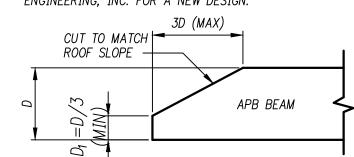


TIMBER BEAM SCHEDULE

SAWN TIN	MBER BEAMS (SOUTHER	RN YELLOW PINE)
BEAM MARK	ACTUAL BEAM SIZE	SIMPSON HANGER (WHERE REQ'D)
(2) 2X6	(2) 1-1/2" X 5-1/2"	HU26-2
(2) 2X8	(2) 1-1/2" X 7-1/4"	HU28-2
(2) 2X10	(2) 1-1/2" X 9-1/4"	HU210-2
(2) 2X12	(2) 1-1/2" X 11-1/4"	HU212-2
(3) 2X6	(3) 1-1/2" X 5-1/2"	HU26-3
(3) 2X8	(3 1-1/2" X 7-1/4"	HU28-3
(3) 2X10	(3) 1-1/2" X 9-1/4"	HU210-3
(3) 2X12	(3) 1-1/2" X 11-1/4"	HU212-3

ENGINEERED BEAMS (ANTHONY POWER BEAMS)					
BEAM MARK	ACTUAL BEAM SIZE	SIMPSON HANGER (WHERE REQ'D)			
APB411	APB 3-1/2" X 11-1/4"	HGUS412			
APB412	APB 3-1/2" X 11-7/8"	HGUS412			
APB414	APB 3-1/2" X 14"	HGUS414			
APB416	APB 3-1/2" X 16"	HGUS414			
APB418	APB 3-1/2" X 18"	HGUS414			
APB611	APB 5-1/2" X 11-1/4"	HGUS5.50/12			
APB612	APB 5-1/2" X 11-7/8"	HGUS5.50/12			
APB614	APB 5-1/2" X 14"	HGUS5.50/14			
APB616	APB 5-1/2" X 16"	HGUS5.50/14			
APB618	APB 5-1/2" X 18"	HGUS5.50/14			
APB711	APB 7" X 11-1/4"	HGUS7.25/12			
APB712	APB 7" X 11-7/8"	HGUS7.25/12			
APB714	APB 7" X 14"	HGUS7.25/14			
APB716	APB 7" X 16"	HGUS7.25/14			
APB718	APB 7" X 18"	HGUS7.25/14			
APB719	APB 7" X 19"	HGUS7.25/14			
NOTEC:					

- 1 SAWN TIMBER SOUTHERN YELLOW PINE SHALL BE THE GRADE SPECIFIED ON THE FRAMING DRAWINGS AND SHALL HAVE A
- MOISTURE CONTENT OF 15% MAXIMUM. 2 - SAWN TIMBER BEAMS USED AS HEADERS SHALL HAVE A 1/2-INCH
- PLYWOOD OR OSB PANEL PLACED BETWEEN THE TWO MEMBERS. 3 — APB — LAMINATED BEAMS SHALL BE AS MANUFACTURED BY
- ANTHONY FOREST PRODUCTS CO., EL DORADO, ARKANSAS 4 — PROVIDE 3" BEARING AT EACH END OF ANY TIMBER BEAM LISTED
- ABOVE, MINIMUM. 5 - HANGERS SHALL BE INSTALLED PER MANUFACTURER'S MOST RECENTLY
- PRINTED LITERATURE. 6 - SEE DETAIL ON THIS SHEET FOR TAPERED END CUTS.
- 7 NO SUBSTITUTION SHALL BE ALLOWED FOR THE APB BEAMS SHOWN ON THIS DRAWING; IF SUBSTITUTIONS ARE TO BE MADE PLEASE NOTIFY DTS ENGINEERING, INC. FOR A NEW DESIGN.



<u>APB - TAPERED END CUT</u>

NOTE: SEE STRUCTURAL FRAMING PLAN FOR VALUE OF "D₁" FOR A SPECIFIC BEAM IF REQUIRED.

FLOOR AND CEILING FRAMING NOTES

SIZE

N/A

2x**'**s

(2)2x12

(2)2x12

(2)2x8

SIZE

N/A

2x4

NOTE: ALL SAWN TIMBER ITEMS ABOVE SHALL

NOTE: ALL SAWN TIMBER ITEMS ABOVE SHALL

MIN. EXTERIOR WALL FRAMING (U.N.O.)

MATERIAL TABLE

TIMBER

GRADE

N/A

TIMBER GRADE

N/A

SPACINO (0.C.)

N/A

N/A

FLOOR AND CEILING

FRAMING MATERIALS TABLE

MEMBER

FLOOR JOIST (U.N.O.

CEILING JOIST (U.N.O.)

HEADER SUPPORTING A FLOOR AND ROOF

HEADER SUPPORTING 2 FLOORS AND ROOF

HEADER SUPPORTING A ROOF

SAWN TIMBER BEAM

MEMBER

2ND FLOOR WALL STUDS

1ST FLOOR WALL STUDS

BE S.Y.P.

- 1. SEE SHEAR WALL AND FRAMING DETAIL SHEETS FOR FRAMING NOTES, DETAILS, AND SECTIONS.
- 2. ALL ARCHITECTURAL FURR DOWNS OR OTHER CEILING TREATMENTS SHALL BE FRAMED WITH 2X4 #3 S.Y.P. AND THE SPACING SHALL BE AS REQUIRED ON THE ARCHITECTURAL DRAWINGS.
- **3.** HVAC EQUIPMENT, WATER HEATERS, OR OTHER ITEMS PLACED IN THE ATTIC SHALL BE SUPPORTED ON DOUBLE CEILING JOISTS.

4. WALLS WHERE THE PLF LOAD IS NOT GIVEN ON THE

- FRAMING DRAWINGS SHALL BE ASSUMED TO HAVE A MIN. LOAD OF 100 POUNDS PER LINEAR FOOT.
- 5. ALL ENGINEERED TIMBER BEAMS USED IN THIS PROJEC SHALL BE APB BEAMS WITH fb= 3000 PSI (SEE TIMBER BEAM SCHEDULE.)
- 6. ALL STRUCTURAL STEEL BEAMS AND COLUMNS USED ON THIS PROJECT SHALL CONFORM TO ASTM A-36 OR A-992; TUBULAR SECTIONS SHALL CONFORM TO ASTM A501. 7. ALL ENGINEERED BEAMS PARALLEL TO THE FLOOR JOIST

CAN BE REPLACED BY AN ENGINEERED JOIST; THE NEW

- MEMBER MUST CARRY ANY LOADING SUPPORTED BY THE ENGINEERED BEAM BEING REPLACED. 8. ALL HEADERS SUPPORTING A FLOOR ABOVE SHALL BE # S.Y.P. (2)2x12; ALL OTHERS SHALL BE (2)2x8 UNLESS NOTED OTHERWISE. SPACER BETWEEN 2x's SHALL BE
- 9. IF DURING CONSTRUCTION, IT IS DISCOVERED THAT THERE IS A DISCREPANCY BETWEEN THE ARCHITECTURAL AND STRUCTURAL PLANS NOTIFY THE ENGINEER AT ONCE (DTS ENGINEERING 281–298–8877).

CONTINUOUS STRUCTURAL PANEL. (OSB OR PLYWOOD)

10.ABBREVIATIONS USED IN THIS DRAWING:

- ALT = ADDITIONALLY LOADED TRUSSBLK = BLOCKING
- BRNG = BEARING
- CANT = CANTILEVERCONT = CONTINUOUS
- CLG = CEILING HEIGHT
- DB = DROP BEAM
- DBL = DOUBLE
- FB = FLUSH BEAM
- FRB = FOR ROOF BRACE OWB = OVER WALL BELOW
- OWT = OPEN WEB TRUSSES BY OTHERS #PL = POINT LOAD
- PLF = POUNDS PER LINEAR FOOT
- RSD = RAISED BEAM
- TJI = TRUSS JOIST BY OTHERS
- TPL = TRIPLE
- UNO = UNLESS NOTED OTHERWISE
- UPL = UNDER POINT LOAD UWA = UNDER WALL ABOVE

WALL FRAMING NOTES

- 1. SEE STRUCTURAL FRAMING DETAIL SHEETS FOR FRAMING NOTES, DETAILS, AND SECTIONS (SF-1 THRU SF-5).
- **2.** ALL WOOD SOLE PLATES SHALL: A) MATCH THE SIZE OF THE STUDS WHICH BEAR ON THE SOLE PLATE. B) BE TREATED WITH AN APPROVED CHEMICAL TO RESIST DECAY AND INSECT ATTACK.
- **3.** ANCHORAGE OF ALL EXTERIOR SOLE PLATES: A) PROVIDE A 1/2" Ø STEEL "J' ANCHOR BOLT OR EQUAL STRAP. USE 5/8" Ø IN WIND AREA WITH WIND SPEEDS GREATER THAN 110 MPH. B) PROVIDE 7" EMBEDMENT (MINIMUM). C) PLACE AT 12" FROM ENDS OF SOLE PLATE AND NOT MORE THAN 6'-0" ON CENTER; BUT NOT LESS THAN TWO (2) ANCHOR BOLTS PER SOLE PLATE.
- 4. ALL EXTERIOR WALLS AND INTERIOR LOADBEARING WALLS SHALL: A) BE #2 OR STUD GRADE STUDS. SEE SHEET SF-2 FOR "ALLOWABLE LENGTH OF EXTERIOR WALL STUDS". B) HAVE A DOUBLE TOP PLATE MATCHING THE STUD SIZE. C) NOT BE NOTCH MORE THAN 25% OF ITS WIDTH. D) NOT BE DRILLED MORE THAN 40% OF ITS WIDTH.
- **5.** INTERIOR NON-BEARING WALLS SHALL NOT BE NOTCHED MORE THAN 40% OF ITS WIDTH, AND NOT BE DRILLED MORE THAN 60% OF ITS WIDTH.
- **6.** FINGER JOINTED STUDS SHALL <u>NOT</u> BE USED AS PART OF SHEAR WALL END POST.
- 7. BALLOON WALL FRAMING SHALL BE CONSTRUCTED OF CONTINUOUS STUDS FROM THE SOLE PLATE TO THE TOP PLATE OF THE CEILING OR ROOF; USE 2X6 STUDS (MINIMUM); NO FINGER JOINTED STUDS; UNLESS NOTED OTHERWISE ON THE FRAMING DRAWINGS.

BEARING WALL ANCHOR SCHEDULE							
		LOCAT	ION AND SPA	CING			
ATTACHMENT ANCHOR TYPE	EMBEDMENT	EXTERIOR WALLS	INTERIOR WALLS	NON LOAD BEARING WALLS	NOTES		
1/2" DIAM. ANCHOR BOLTS	7"	48"O.C.	72"O.C.	N/A	2 TO 4		
1/2" DIAM. EXPANSION ANCHORS	2 1/4"	N/A	12"O.C.	N/A	1 & 3		
0.177" DIA. POWER ACTUATED FASTENERS	1 1/2"	N/A	24"O.C.	48"O.C.	3		
0.099" DIA. POWER ACTUATED FASTENERS	1"	N/A	12"0.C.	12"O.C.	3		

- 1. EXPANSION ANCHORS SHALL NOT BE ALLOWED WITHIN 10" OF SLAB EDGE. 2. REFER TO SHEAR WALL PLAN AND DETAILS FOR SHEAR WALL ANCHORS.
- 3. REF: PLANS FOR ADDITIONAL NOTES.
- 4. ALL HARDWARE IN CONTACT WITH ACQ TREATED LUMBER CLASS G185 MUST BE SIMPSON 2MAX PRODUCTS THAT MEET ASTM A653.

ALL TIMBER POST SHALL BE 4X4 (MINIMUM) UNLESS NOTED OTHERWISE AND SHALL BE OF #2 S.Y.P.

T1	MBER POST S	SCHEDULE
POST SIZE	SIMPSON EMBED BASE	SIMPSON BOLTED BASE
4x4	CB44	ABU44
6x6	CB66	ABU66
8x8	CB88	ABU88
10x10	CB1010	NA

FRAMING LEGEND

—— — — ENGINEERED JOIST

ENGINEERED BEAM

STEEL BEAM

====== *HEADER*

====== *PURLIN*

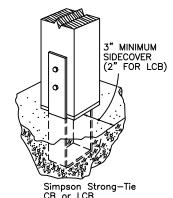
— — — — BLOCKING

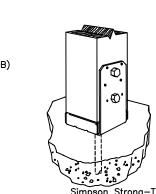
SHEAR WALL

STUD WALL

///////// W/ BRICK LEDGE

TIMBER JOIST OR RAFTER





ROOF FRAMING NOTES

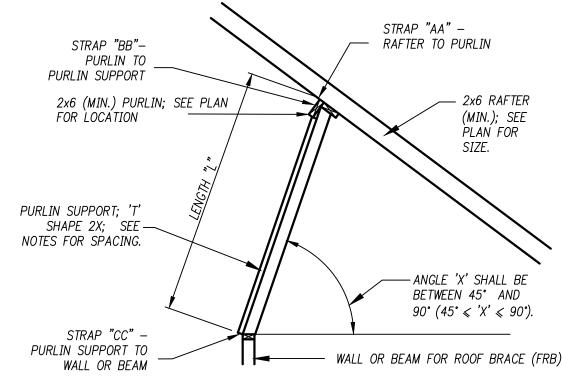
- 1. RIDGES, HIPS, AND VALLEYS SHALL BE ONE SIZE LARGER THAN THE RAFTERS; 2x8 MINIMUM.
- 2. COLLAR TIES SHALL BE INSTALLED AT 48" ON CENTER AT
- THE UPPER THIRD ON THE ATTIC HEIGHT.
- 3. SUPPORT RIDGES, VALLEYS, HIPS ON WALLS OR DESIGNATED BEAMS (FRB) BELOW. SEE FRAMING PLAN FOR LOWER LEVELS.
- 4. SUPPORT RIDGES AT 4'-0" ON CENTER WHEN ROOF PITCH IS LESS THAN 12/12; SUPPORT HIPS AND VALLEY AT 8'-0" ON CENTER.
- 5. FRAMED CHIMNEY DO NOT SUPPORT ON THE RAFTERS; EXTEND CHIMNEY WALLS THROUGH ROOF AND SUPPORT ON FOUNDATION OR LOAD BEARING WALLS.
- 6. INDICATES PURLINS
- 7. SEE TYPICAL DETAIL SHEET FOR FRAMING NOTES, DETAILS, AND SECTIONS.
- 8. RAFTER SANDWICH WHERE BEAM IS SUPPORTED BY THE ROOF RAFTERS; PLACE A RAFTER ON BOTH SIDES OF BEAM AND NAIL WITH (9) 16d NAILS (EACH SIDE). ADD SOLID BLOCKING BETWEEN RAFTERS BELOW BEAM TO TOP OF WALL BELOW.
- 9. IF DURING CONSTRUCTION, IT IS DISCOVERED THAT THERE IS A DISCREPANCY BETWEEN THE ARCHITECTURAL AND STRUCTURAL PLAN NOTIFY THE ENGINEER AT ONCE (DTS ENGINEERING 281-298-8877).

^		ROOF F	RAMING	MATERIA	L TABLE	(* COMPOS	SITION SHI	NGLES) 🕻
1	\	RAFTER SIZE	TIMBER GRADE	SPACING (O.C.)	SPAN (MAX.)			\$
	(2x6**	#2	16"	11'-1"			•
	`		L SAWN HALL BE S		OF FRAMIN	G MATERIAL		<
((,	31	IALL DL S). I.F.				<
		IS PLAN	INED TO E	BE USED F	OR ROOF C	AN COMPOSI COVERING, NO SIGN CHANG	OTIFY	GLES <
		$\overline{}$	<u> </u>			~~~	$\overline{\mathcal{A}}$	フ
		** TYPI(CAL UNLE	SS NOTED	OTHERWISE	ON PLAN		

ROOF DIAPHRAGM SCHEDULE

~~	MARK ~~~	SHEATHING THICKNESS		NAIL SPACING ON ALL EDGES (ON CENTER)		NAIL PENETRATION (MINIMUM)
	RD-1		8d	6"	12"	1-3/8"
\sim	RD-2	15/32"	8d	4"	8"	1-3/8"
	RD-3		8d	2 1/2"	6"	1-3/8"
	RD-4		10d	6"	12"	1-1/2"
	RD-5	15/32"	10d	4"	8"	1-1/2"
	RD-6		10d	2 1/2"	6"	1-1/2"
	RD-7		10d	6"	12"	1-1/2"
	RD-8	19/32"	10d	4"	8"	1-1/2"
	RD-9		10d	2 1/2"	6"	1-1/2"
		·		_		

1 - USE 15/32" OR 19/32" APA RATED SHEATHING EXPOSURE 1 2 - EDGES OF SHEATHING NOT SUPPORTED ON RAFTER OR OTHER ROOF MEMBERS SHALL BE SUPPORTED BY 2X4 BLOCKING.



PURLIN BRACING DETAIL

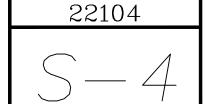
_	<u> 1 0111</u>	<u> </u>	DIVACING	DETAIL
	PURLIN SUPP	ORTS		
	LENGTH 'L'	TIMBER SIZE	П	SMALLER MEMBER
	UP TO 8'-0"	1 – 2X4		— LARGER MEMBER
	8'-1" TO 12'-0"	2 – 2X4		
	12'-1" TO 20'-0"	1 – 2X4 1 – 2x6		
	20'-1" TO 25'-0"	1 – 2x6 1 – 2x8		

NOTE: FOR PURLIN SUPPORTS OVER 8'-0" IN LENGTH; INSTALL 2X4 'X' BRACING BETWEEN PURLIN SUPPORTS ALONG THE SAME PURLIN SO THAT THE UNBRACED LENGTH SHALL BE 8'-0" OR LESS; NO 'X' BRACING SHALL BE TALLER THAN 6'-0".

PU	J RLIN ,	STRAPIN	G SCHEL	OULE	
LOCATION	STRAP	90 MPH	100 MPH	110 MPH (INLAND II)	120 MPH (INLAND I)
RAFTER TO PURLIN	'AA'	H2.5A @ 48"	H6 @ 48"	H6 @ 32"	Н6 @ 16"
PURLIN TO PURLIN SUPPORT	'BB'	MTS12	MTS12	(2) MTS12	(2) HTS20
PURLIN SUPPORT TO WALL/BEAM	'CC'	MTS12	MTS12	(2) MTS12	(2) HTS20

- 1) ALL STRAP DESIGNATIONS ARE TAKEN FROM SIMPSON STRONG-TIE OR USP STRUCTURAL
- CONNECTOR. 2) STRAPS SHALL BE INSTALLED IN A VERTICAL ALIGNMENT SO TO PROVIDE A STRAIGHT
- LOAD PATH DOWN THE SIDE OF THE WALL. 3) FOR USE IN T.D.I. AREAS, SEE "TDI CORROSION RESISTANCE REQUIREMENTS FOR METAL CONNECTORS AND FASTENERS" ON THE FRAMING NOTES SHEET.

4) THE ABOVE CHART SHALL BE USED FOR THE ANCHORAGE OF HIP, VALLEY AND RIDGE



JOHN C. GULTEK 90977

CUSTOM HOME

DUONG RESIDENCE

PROJECT INFO. SADDLE CREEK FOREST

LOT. 14 SECT. 6

> 27900 E. STALLION LN., WALLER, TX 77484

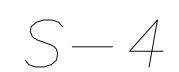
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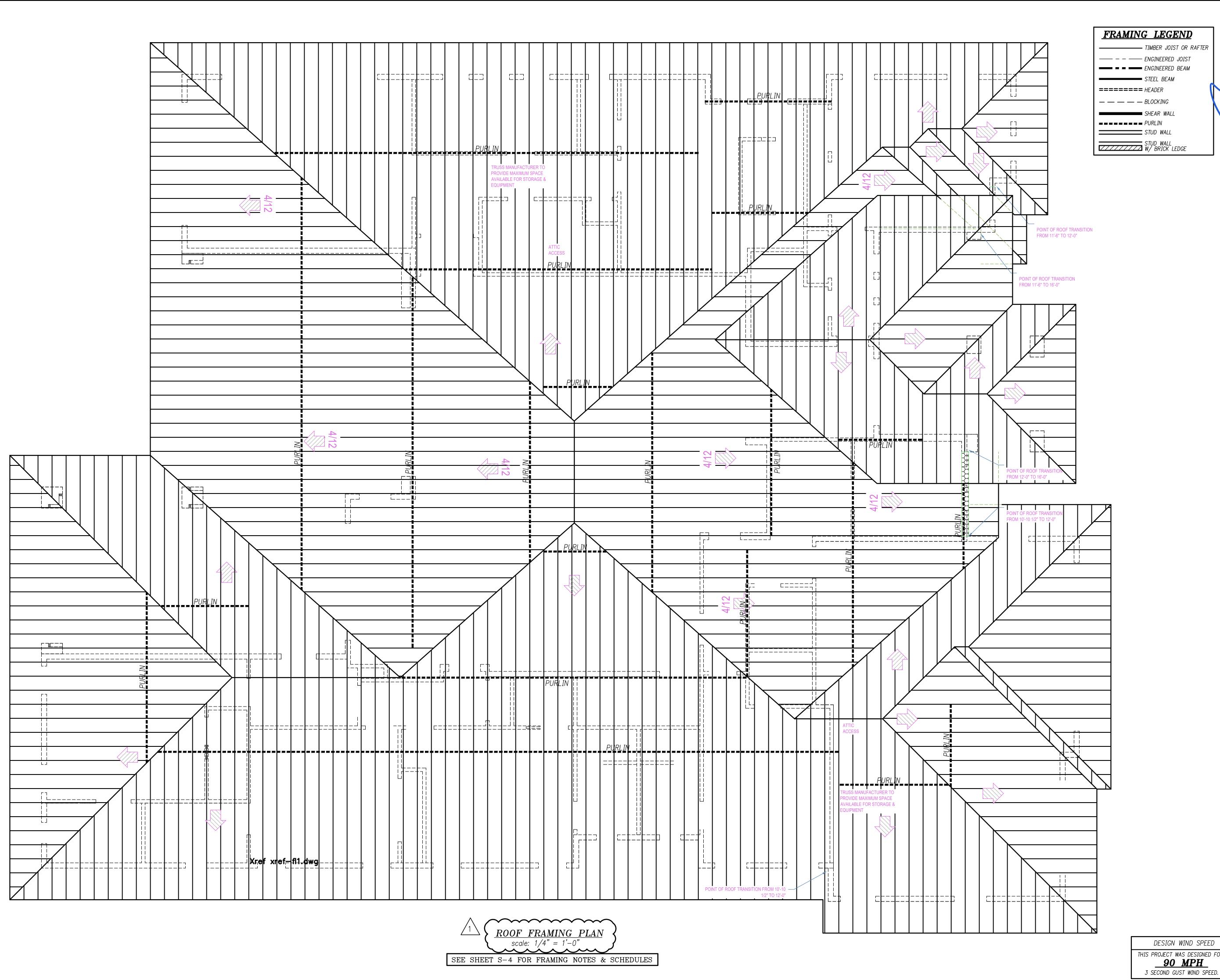
FRAMING NOTES & SCHEDULES

SCALE: 1/4" = 1'-0"

,		
	RI	EVISIONS
•	DATE	REASON
$\sqrt{1}$	9/15/22	FRAMING REV.

CHECKED BY:
${ m JG/BW}$
DRAWN BY:
YP
DATE:
3/2/22
JOB #
22104





FRAMING LEGEND TIMBER JOIST OR RAFTER

JOHN C. GULTEK 90977

CUSTOM HOME

DUONG RESIDENCE

PROJECT INFO. SADDLE CREEK FOREST

LOT. 14 BLK. SECT.

27900 E. STALLION LN., WALLER, TX 77484

PLAN NO.

ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"

	RI	EVISIONS
	DATE	REASON
$1 \setminus $	9/15/22	FRAMING REV.

CHECKED BY:
${ m JG/BW}$
DRAWN BY:
YP
DATE:
3/2/22
JOB #
22104

DESIGN WIND SPEED THIS PROJECT WAS DESIGNED FOR <u>90 MPH</u>

(A) ALL NAILS ARE SMOOTH-COMMON, BOX OR DEFORMED SHANKS EXCEPT WHERE OTHERWISE STATED. (B) STAPLES ARE 16 GAGE WIRE AND HAVE A MINIMUM 7/16-INCH ON DIAMETER CROWN WIDTH.

6D DEFORMED NAIL OR

8D COMMON NAIL

8D COMMON NAIL OR

10D COMMON NAIL OR

8D DEFORMED NAIL

8D DEFORMED NAIL

(C) NAILS SHALL BE SPACED AT NOT MORE THAN 6 INCHES ON CENTER AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES OR GREATER.

(E) SPACING OF FASTNERS NOT INCLUDED IN THIS TABLE SHALL BE BASED ON TABLE R602.3(1).

3/4" AND LESS

1 1/8" - 1 1/4"

(D) 4-FOOT-BY-8-FOOT OR 4-FOOT-BY-9-FOOT PANELS SHALL BE APPLIED VERTICALLY.

F) FOR REGIONS HAVING BASIC WIND SPEED OF 110 MPH OR GREATER. 8D DEFORMED NAILS SHALL BE USED FOR ATTACHING PLYWOOD AND WOOD STRUCTURAL PANEL ROOF SHEATHING TO FRAMING WITHIN MINIMUM 48-INCH DISTANCE FROM GABLE END WALLS, IF MEAN ROOF HEIGHT IS MORE THAN 25 FEET, UP TO 35 FEET MAXIMUM. (G) FOR REGIONS HAVING A BASIC WIND SPEED OF 100 MPH OR LESS, NAILS FOR ATTACHING WOOD STRUCTURAL PANEL ROOF SHEATHING TO GABLE END WALL FRAMING SHALL BE SPACED 6 INCHES ON CENTER. WHEN BASIC WIND SPEED IS GREATER THAN 80 MPH, NAILS FOR ATTACHING PANEL ROOF SHEATHING TO INTERMEDIATE SUPPORTS SHALL BE SPACED 6 INCHES ON CENTER FOR MINIMUM 48-INCH DISTANCE FROM RIDGES, EAVES AND GABLE END WALLS; 4 INCH ON CENTER TO GABLE END

WALL FRAMING. (H) GYPSUM SHEATHING SHALL CONFORM TO ASTM C-79 AND SHALL BE INSTALLED IN ACCORDANCE WITH GA 253. FIBERBOARD SHEATHING SHALL CONFORM TO EITHER

(I) SPACING OF FASTENERS ON FLOOR SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND AT ALL FLOOR PERIMETERS ONLY. SPACING OF FASTENERS ON ROOF SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND AT ALL ROOF PLANE PERIMETERS. BLOCKING OF ROOF OR FLOOR SHEATHING PANEL EDGES PERPENDICULAR TO THE FRAMING MEMBERS SHALL NOT BE REQUIRED EXCEPT AT INTERSECTION OF ADJACENT ROOF PLANES. FLOOR AND ROOF PERIMETER SHALL BE SUPPORTED BY FRAMING MEMBERS OR SOLID BLOCKING.

LINTEL SCHEDULE

BRICK (FOR EACH 4"	<u>WYTHE)</u>
SPAN	LINTEL
0'-0" TO 1'-0" 1'-0" TO 4'-0" 4'-0" TO 6'-0" 6'-0" TO 8'-0" 8'-0" TO 10'-0" 10'-0" TO 12'-0"	FB 3-1/2 X 1/4 L 3-1/2 X 3-1/2 X 1/4 L 4 X 3-1/2 X 5/16 L 5 X 3-1/2 X 3/8 L 6 X 3-1/2 X 3/8 L 7 X 4 X 3/8

2 - #9 T & 2 - #10 B

(ONE COURSE

(TWO COURSES

DEEP **)

CONCRETE MASONRY UNIT (CMU)

1 - #4 T & 1 - #5 B 1 – #5 T & 1 – #6 B 2 - #6 T & 2 - #7 B 2 - #8 T & 2 - #9 B 7'-0" TO 11'-0"

> ** KNOCK OUT BLOCK ON TOP COURSE WITH #3 TIES AT 16" ON CENTER

LINTEL NOTES:

11'-0" TO 14'-0"

1 - LINTEL SCHEDULE ABOVE SHALL BE USED UNLESS SHOWN

OR NOTED OTHERWISE. 2 – LINTELS SHALL HAVE ONE (1) INCH OF BEARING AT EACH

END; FOR EACH 1'-0" OF SPAN, BUT NOT LESS THAN SIX (6) INCHES BEARING EACH END. 3 - CONCRETE BLOCK LINTELS SHALL BE MADE WITH FILLED "U" BLOCKS. UNLESS NOTED OTHERWISE FILL SHALL BE

MADE WITH COURSE GROUT CONFORMING TO ASTM C-476.

3/8 INCH MAXIMUM STONE SIZE. SHORE POURED LINTELS, SEVEN (7) DAYS, MINIMUM. 4 - WHERE LINTEL SPAN EXCEEDS SIX (6) FEET, FILL CELLS AT BEARING FOR 16 INCH LENGTH FROM FOOTING TO

5 - FOR LINTELS L'S SUPPORTED BY THE WOOD BEAM; EITHER SAWN OR ENGINEERED, USE 1/2" X 3" LAG BOLTS AT

16' ON CENTER. 6 - FOR ARCHED LINTEL, USE L6X4X3/8 CONTINUOUS; ROLLED TO REQUIRED ARCH. USE L3X3X3/16 (VERTICAL) AT 16" ON CENTER TO STEEL LINTEL ABOVE; WELD EACH L3X3 TO LINTEL WITH 3/16" FILLET WELD. USE 5/8" DIAMETER LAG BOLTS TO ATTACH ARCHED LINTEL TO TIMBER BEAM ABOVE.

NAIL SIZES

NOMENCLATURE	DIAMETER (INCH)	LENGTH (INCH)
6d	0.113	2
8d	0.131	2 1/2
10d	0.148	3
16d	0.162	3 1/2

CORROSION RESISTANCE REQUIREMENTS FOR METAL CONNECTORS AND FASTENERS

UNCOATED AND PAINTED FASTENERS AND METAL PRODUCTS SHALL NOT BE USED

WITH TREATED WOOD.

USE ONLY HOT-DIP GALVANIZED (G-185) OR STAINLESS STEEL FASTENERS AND

METAL PRODUCTS.

TDI CORROSION RESISTANCE REQUIREMENTS FOR METAL CONNECTORS AND FASTENERS

TDI CATESTROPHE AREA	LOCATION IN BUILDING	REQUIRED COATING
SEAWARD	OPEN AREA	STAINLESS STEEL (ASTM A-167) HOT-DIP GALVANIZED (ASTM A-123) HOT-DIP GALVANIZED (ASTM A-153) HOT-DIP GALVANIZED (ASTM A-653
	VENTED OR ENCLOSED AREA	SAME AS SEAWARD OPEN AREA HOT-DIP GALVANIZED (ASTM A-641) MECHANICALLY DEPOSITED ZINC COATING (ASTM B-695) ELECTRODEPOSITED ZINC COATING (ASTM B-633)
	CONDITIONED AREA	NO COATING REQUIRED
INLAND 1 AND INLAND 2	OPEN AREA	STAINLESS STEEL (ASTM A-167) HOT-DIP GALVANIZED (ASTM A-123) HOT-DIP GALVANIZED (ASTM A-153) HOT-DIP GALVANIZED (ASTM A-653 HOT-DIP GALVANIZED (ASTM A-641) MECHANICALLY DEPOSITED ZINC COATING (ASTM B-695) ELECTRODEPOSITED ZINC COATING (ASTM B-633)
	VENTED OR ENCLOSED AREA	SAME AS INLAND 1 OR INLAND 2 OPEN AREA EPOXY COATING (ASTM A-899)
	CONDITIONED AREA	NO COATING REQUIRED

1 - OPEN AREA - PORCHES, EXTERIOR COVERING, ROOF COVERING, AND UNDERSIDE OF ELEVATED STRUCTURES.

2 - VENTED OR ENCLOSED AREA - ATTICS, EXTERIOR WALL STUD CAVITIES, AND CRAWL

3 - CONDITIONED AREA - HEATED AND COOLED LIVING AREA.

GENERAL NOTES

1. THE FOLLOWING CODES WERE EMPLOYED WHERE APPLICABLE IN THE DESIGN OF THE VARIOUS COMPONENTS OF THIS PROJECT AND THE PREPARATION OF THE CONTRACT DOCUMENTS:

- INTERNATIONAL RESIDENTIAL CODE 2012 (IRC 2012)
- NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, 1997 EDITION (NDS 1997)
- WOOD FRAMED CONSTRUCTION MANUAL FOR ONE AND TWO FAMILY DWELLINGS, 2001 EDITION
- AMERICAN SOCIETY OF CIVIL ENGINEERS MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE 7-02)
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION 13TH EDITION
- AMERICAN INSTITUTE OF CONCRETE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318)

LOADS

AREAS	DEAD LOAD	LIVE LOAD
ROOF	10	20
ROOF (SLATE OR TILE)	20	30
CEILING	10	20
FLOOR	10	40
EXTERIOR BALCONY	10	60

TABLE 4-1 (ASCE 7-05)

1. THE CONSTRUCTION OF FLOORS, WALLS, CEILINGS, AND ROOFS SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL RESIDENTIAL CODE 2012 (IRC).

2. LOAD-BEARING DIMENSION LUMBER FOR JOISTS. BEAMS. GIRDERS. STUDS. PLATES. HEADERS, RAFTERS, TRUSSES, AND CEILING JOISTS SHALL BE IDENTIFIED BY A GRADE MARK OF A LUMBER GRADING OR INSPECTION AGENCY THAT HAS BEEN APPROVED BY AN ACCREDITATION BODY THAT COMPLIES WITH DOC PS 20.

FLOOR FRAMING

A. SPANS FOR FLOOR JOIST SHALL BE INDICATED ON THE FRAMING PLAN IN THE "FLOOR AND CEILING FRAMING MATERIALS TABLE". THE GRADE OF LUMBER USED FOR THE PROJECT SHALL BE NOTED ON THE FRAMING DRAWINGS.

A. THE ENDS OF EACH JOIST, BEAM OR GIRDER SHALL HAVE NOT LESS THAN 1.5—INCHES OF BEARING ON WOOD OR METAL AND NOT LESS THAN 3-INCHES ON MASONRY OR CONCRETE EXCEPT WHERE SUPPORTED BY THE USE OF APPROVED JOIST HANGERS.

B. JOIST FRAMING FROM OPPOSITE SIDE OVER A BEARING SUPPORT SHALL LAP A MINIMUM

C. JOIST FRAMING INTO THE SIDE OF A WOOD GIRDER SHALL BE SUPPORTED BY APPROVED FRAMING OR ON LEDGER STRIPS NOT LESS THAN NOMINAL 2—INCH BY 2—INCH.

3. LATERAL RESTRAINT A. JOIST SHALL BE SUPPORTED LATERALLY AT THE ENDS BY FULL—DEPTH SOLID BLOCKING NOT LESS THAN 2-INCHES NOMINAL IN THICKNESS: OR BY ATTACHMENT TO A HEADER, BAND. OR RIM JOIST, OR TO AN ADJOINING STUD; OR SHALL BE OTHERWISE PROVIDED WITH LATERAL

4. DRILLING AND NOTCHING

SUPPORT TO PREVENT ROTATION.

A. STRUCTURAL FLOOR MEMBERS SHALL NOT BE CUT, BORED, OR NOTCHED IN EXCESS OF THE LIMITATIONS SPECIFICED IN THIS SECTION:

DEPTH OF MEMBER D

D/6 (TOP OR BOTTOM; ON THE END 1/3 OF LENGTH) END NOTCH D/4 (TOP OR BOTTOM; MAXIMUM D FROM END) DRILLED HOLES D/3 (2-INCHES FOR TOP OR BOTTOM)

B. CUTS, NOTCHES AND HOLES BORED IN TRUSSES, LAMINATED VENEER LUMBER, GLUE-LAMINATED MEMBERS OF I-JOIST ARE NOT PERMITTED UNLESS THE EFFECTS OF SUCH PENETRATIONS ARE SPECIFICALLY CONSIDERED IN THE DESIGN OF THE MEMBER.

A. FLOOR FRAMING SHALL BE NAILED IN ACCORDANCE WITH IRC SECTION 2304.8.3.2 WHERE POSTS AND BEAM OR GIRDER CONSTRUCTION IS USED TO SUPPORT FLOOR FRAMING, POSITIVE CONNECTIONS SHALL BE PROVIDED TO ENSURE AGAINST UPLIFT AND LATERAL DISPLACEMENT.

6. FRAMING OF OPENINGS

A. OPENINGS IN FLOOR FRAMING SHALL BE FRAMED WITH A HEADER AND TRIMMER JOISTS. WHEN THE HEADER JOIST SPAN DOES NOT EXCEED 4-FEET, THE HEADER MAY BE A SINGLE MEMBER THE SAME SIZE AS THE FLOOR JOIST. A SINGLE TRIMMER JOIST MAY BE USED TO CARRY A SINGLE HEADER JOIST THAT IS LOCATED WITHIN 3-FEET OF THE TRIMMER JOIST BEARING. WHEN THE HEADER JOIST SPAN EXCEEDS 4-FEET. THE TRIMMER JOIST AND THE HEADERJOIST SHALL BE DOUBLED AND OF SUFFICIENT CROSS SECTION TO SUPPORT THE FLOOR JOIST FRAMING INTO THE HEADER.

7. WOOD TRUSSES

A. THE DESIGN AND MANUFACTURE OF METAL PLATE CONNECTED WOOD TRUSSES SHALL COMPLY WITH ANSI/TPI 1. THE TRUSS DESIGN SHALL BE PREPARED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS.

B. THE ERECTION PLANS WILL INDICATE ALL TRUSS BRACING FOR CONSTRUCTION AND FINAL BRACING AS WELL AS THE REQUIRED END BEARING FOR THE TRUSSES. ALL SPECIAL CONNECTIONS, HANGERS, AND DOUBLE TRUSSES SHALL ALSO BE INDICATED.

8. ENGINEERED WOOD JOIST A. THE DESIGN AND MANUFACTURE OF ENGINEERED WOOD JOIST SHALL COMPLY WITH GOOD ENGINEERING PRACTICE. THE JOIST DESIGN SHALL BE PREPARED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS.

B. THE ERECTION PLANS WILL INDICATE ALL TRUSS BRACING FOR CONSTRUCTION AND FINAL BRACING AS WELL AS THE REQUIRED END BEARING FOR THE TRUSSES. ALL SPECIAL CONNECTIONS, HANGERS, AND DOUBLE TRUSSES SHALL ALSO BE INDICATED.

FLOOR SHEATHING

A. MAXIMUM ALLOWABLE SPAN FOR LUMBER USED AS FLOOR SHEATHING SHALL CONFORM TO IRC TABLES 2304.7(1), 2304.7(2), 2304.7(3), 2304.7(4) & 2304.7(5)

B. THE MAXIMUM ALLOWABLE SPAN FOR WOOD STRUCTURAL PANELS USED AS SUBFLOOR OR COMBINATION SUBFLOOR UNDERLAYMENT SHALL BE AS SET FORTH IN IRC TABLE 2304.7(4) THE MAXIMUM SPAN FOR SANDED PLYWOOD COMBINATION SUBFLOOR UNDERLAYMENT SHALL BE AS SET FORTH IN IRC TABLE 2304.7(4)

2. END JOINTS

A. END JOINTS IN LUMBER USED AS SUBFLOORING SHALL OCCUR OVER SUPPORTS UNLESS END-MATCHED LUMBER IS USED, IN WHICH CASE EACH PIECE SHALL BEAR ON AT LEAST TWO JOIST. SUBFLOORING MAY BE OMITTED WHEN JOIST SPACING DOES NOT EXCEED 16—INCHES AND A 1-INCH NOMINAL TONGUE-AND-GROOVE WOOD STRIP FLOORING IS APPLIED PERPENDICULAR TO THE JOIST.

WALL CONSTRUCTION

1. GRADE (SEC 2308) A. STUDS SHALL BE A MINIMUM NO. 2, STUD GRADE LUMBER.

B. NON-BEARING STUDS MAY BE UTILITY GRADE LUMBER, PROVIDE THE STUDS ARE SPACED IN

ACCORDANCE WITH IRC TABLE 2308.9.1 2. EXTERIOR BEARING WALLS

A. COMPONENTS OF EXTERIOR WALLS SHALL BE FASTENED IN ACCORDANCE WITH IRC TABLES 2308.9.3(1) TO 2308.9.3(4) B. LOAD BEARING STUDS SHALL BE LIMITED TO 10-FEET. SEE "ALLOWABLE LENGTH OF EXTERIOF

WALL STUDS" ON SF-2 FOR LOAD BEARING STUDS USED IN BUILDINGS THAT ARE FULLY SHEATHED OR EMPLOY THE PROVISIONS OF THE BRACED WALL. C. WOOD STUD WALLS SHALL BE CAPPED WITH A DOUBLE TOP PLATE INSTALLED TO PROVIDE OVER-

LAPPING AT CORNERS AND INTERSECTIONS WITH BEARING PARTITIONS. EACH JOINT IN TOP PLATE SHALL BE OFFSET AT LEAST 24-INCHES.

D. STUDS SHALL HAVE FULL BEARING ON NOMINAL 2 BY OR LARGER PLATE OF SILL HAVING A WIDTH AT LEAST EQUAL TO THE WIDTH OF THE STUD.

3. INTERIOR LOAD—BEARING WALLS A. INTERIOR LOAD-BEARING WALLS SHALL BE CONSTRUCTED, FRAMED, AND FIREBLOCKED AS SPECIFIED FOR EXTERIOR WALLS.

A. INTERIOR NONBEARING WALLS SHALL BE PERMITTED TO BE CONSTRUCTED WITH 2-INCH BY 3-INCH STUDS SPACED 24-INCHES ON CENTER OR, WHEN NOT PART OF A BRACED WALL LINE, 2-INCH BY 4-INCH FLAT STUDS SPACED AT 16-INCHES ON CENTER. INTERIOR NONBEARING WALLS SHALL BE CAPPED WITH AT LEAST A SINGLE TOP PLATE. INTERIOR NONBEARING WALLS SHALL BE FIREBLOCKED IN ACCORDANCE WITH IRC SECTION 2308.9.3

5. DRILLING AND NOTCHING OF STUDS

A. ANY STUD IN AN EXTERIOR WALL OR BEARING PARTITION MAY BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25 PERCENT OF ITS WIDTH. STUDS IN NONBEARING PARTITIONS MAY BE NOTCHED TO A DEPTH NOT TO EXCEED 40 PERCENT OF A SINGLE STUD WIDTH. ANY STUD MAY BE BORED OR DRILLED, PROVIDED THAT THE DIAMETER OF THE RESULTING HOLE IS NO GREATER THAN 40 PERCENT OF THE STUD WIDTH, THE EDGE OF THE HOLE IS NO CLOSER THAN 5/8-INCH TO THE EDGE OF THE STUD, AND THE HOLE IS NOT LOCATED IN THE SAME SECTION ÁS A CUT OR NOTCH. SEE IRC FIGURES 2308.9.10 AND 2308.9.11.

B. WHEN PIPING OR DUCTWORK IS PLACED IN OR PARTLY IN AN EXTERIOR WALL OR INTERIOR, BRACED OR LOAD-BEARING WALL, NECESSITATING A CUTTING OF THE TOP PLATE BY MORE THAN 50 PERCENT OF ITS WIDTH, A GALVANIZED METAL TIE NOT LESS THAN 0.054-INCH THICK (16 GAGE) AND 1.5-INCHES WIDE SHALL BE FASTENED TO EACH PLATE ACROSS AND TO EACH SIDE OF THE OPENING WITH NOT LESS THAN SIX 16D NAILS. SEE IRC FIGURE 2309.9

A. WOOD STRUCTURAL PANEL BOX HEADERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH IRC TABLE 2308.9.5 AND IRBC TABLE 2308.9.6

B. LOAD—BEARING HEADERS ARE NOT REQUIRED IN INTERIOR OR EXTERIOR NONBEARING WALLS.

7. FIREBLOCKING

A. FIREBLOCKING SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND TO FORM AN EFFECTIVE FIRE BARRIER BETWEEN STORIES, AND BETWEEN A TOP STORY AND THE ROOF SPACE.

ROOF - CEILING CONSTRUCTION 1. ROOF FRAMING

A. RAFTERS SHALL BE FRAMED TO RIDGE BOARD OR TO EACH OTHER WITH A GUSSET PLATE AS A TIE. RIDGE BOARD SHALL BE AT LEAST 1—INCH NOMINAL THICKNESS AND NOT LESS IN DEPTH THAN THE CUT END OF THE RAFTER. AT ALL VALLEYS AND HIPS THERE SHALL BE A VALLEY OR HIP RAFTER NOT LESS THAN 2-INCHES NOMINAL THICKNESS AND NOT LESS IN DEPTH THAN THE CUT END OF THE RAFTER. HIP AND VALLEY RAFTERS SHALL BE SUPPORTED AT THE RIDGE BY A BRACE TO A BEARING PARTITION.

A. SPANS FOR CEILING JOIST SHALL BE INDICATED ON THE FRAMING PLAN IN THE "FLOOR AND CEILING FRAMING MATERIALS TABLE". THE GRADE OF LUMBER USED FOR THE PROJECT SHALL BE NOTED ON THE FRAMING DRAWINGS.

B. SPANS FOR RAFTERS SHALL BE INDICATED ON THE FRAMING PLAN IN THE "ROOF FRAMING MATERIALS TABLE". THE GRADE OF LUMBER USED FOR THE PROJECT SHALL BE NOTED ON THE ROOF FRAMING DRAWINGS.

3. BEARING

A. THE ENDS OF EACH RAFTER OR CEILING JOIST SHALL HAVE NOT LESS THAN 1-1/2-INCHES OF BEARING ON WOOD OR METAL AND NOT LESS THAN 3-INCHES ON MASONRY OR CONCRETE.

4. CUTTING AND NOTCHING

A. NOTCHES IN SOLID LUMBER JOISTS, RAFTERS AND BEAMS SHALL NOT EXCEED ONE—SIXTH OF THE DEPTH OF THE MEMBER. SHALL NOT BE LONGER THAN ONE—THIRD OF THE DEPTH OF THE MEMBER AND SHALL NOT BE LOCATED IN THE MIDDLE ONE-THIRD OF THE SPAN. NOTCHES AT THE ENDS OF THE MEMBER SHALL NOT EXCEED ONE—FOURTH THE DEPTH OF THE MEMBER. THE TENSION SIDE OF MEMBER 4-INCHES OR GREATER IN NOMINAL THICKNESS SHALL NOT BE NOTCHED EXCEPT AT THE ENDS OF THE MEMBERS.

B. THE DIAMETER OF THE HOLES BORED OR CUT INTO MEMBERS SHALL NOT EXCEED ONE-THIRD THE DEPTH OF THE MEMBER. HOLES SHALL NOT BE CLOSER THAN 2—INCHES TO THE TOP OR BOTTOM OF THE MEMBER, OR TO ANY OTHER HOLE LOCATED IN THE MEMBER. WHERE THE MEMBER IS ALSO NOTCHED, THE HOLE SHALL NOT BE CLOSER THAN 2-INCHES TO THE NOTCH.

C. CUTS, NOTCHES AND HOLES BORED IN LAMINATED VENEER LUMBER, GLUE-LAMINATED MEMBERS, OR I-JOISTS ARE NOT PERMITTED UNLESS THE EFFECT OF SUCH PENETRATIONS ARE SPECIFICALLY CONSIDERED IN THE DESIGN OF THE MEMBER.

5. LATERAL SUPPORT

A. RAFTERS AND CEILING JOISTS HAVING A DEPTH-TO-THICKNESS RATIO EXCEEDING 5 TO 1 BASED ON NOMINAL DIMENSIONS SHALL BE PROVIDED WITH LATERAL SUPPORT AT POINTS OF BEARING TO PREVENT ROTATION.

B. RAFTERS AND CEILING JOISTS HAVING A DEPTH-TO-THICKNESS RATIO EXCEEDING 6 TO 1 BASED ON NOMINAL DIMENSIONS SHALL BE SUPPORTED LATERALLY BY SOLID BLOCKING, DIAGONAL BRIDGING OR CONTINUOUS 1-INCH BY 3-INCH WOOD STRIP NAILED ACROSS THE RAFTERS OR CEILING JOISTS AT INTERVAL NOT EXCEEDING 8-FEET.

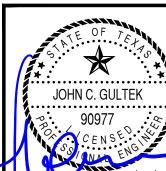
6. FRAMING OF OPENINGS

A. OPENINGS IN FLOOR FRAMING SHALL BE FRAMED WITH A HEADER AND TRIMMER JOISTS. WHEN THE HEADER JOIST SPAN DOES NOT EXCEED 4-FEET, THE HEADER MAY BE A SINGLE MEMBER THE SAME SIZE AS THE FLOOR JOIST. A SINGLE TRIMMER JOIST MAY BE USED TO CARRY A SINGLE HEADER JOIST THAT IS LOCATED WITHIN 3-FEET OF THE TRIMMER JOIST BEARING. WHEN THE HEADER JOIST SPAN EXCEEDS 4-FEET, THE TRIMMER JOIST AND THE HEADERJOIST SHALL BE DOUBLED AND OF SUFFICIENT CROSS SECTION TO SUPPORT THE FLOOR JOIST FRAMING INTO THE HEADER.

ROOF SHEATHING 1. LUMBER SHEATHING

2. WOOD STRUCTURAL PANEL SHEATHING (2304.6.1) A. THE MAXIMUM ALLOWABLE SPANS FOR WOOD STRUCTURAL PANEL SHEATHING SHALL NOT EXCEED THE VALUES SET FORTH IN IRC TABLE 2304.7(1)

B. WOOD STRUCTURAL PANEL USED AS ROOF SHEATHING SHALL BE INSTALLED WITH JOINTS STAGGERED OR NONSTAGGERED IN ACCORDANCE WITH IRC TABLE 2304.7(4)



CUSTOM HOME

DUONG RESIDENCE

PROJECT INFO. SADDLE CREEK FOREST

14

BLK. SECT.

27900 E. STALLION LN. WALLER, TX 77484

PLAN NO.

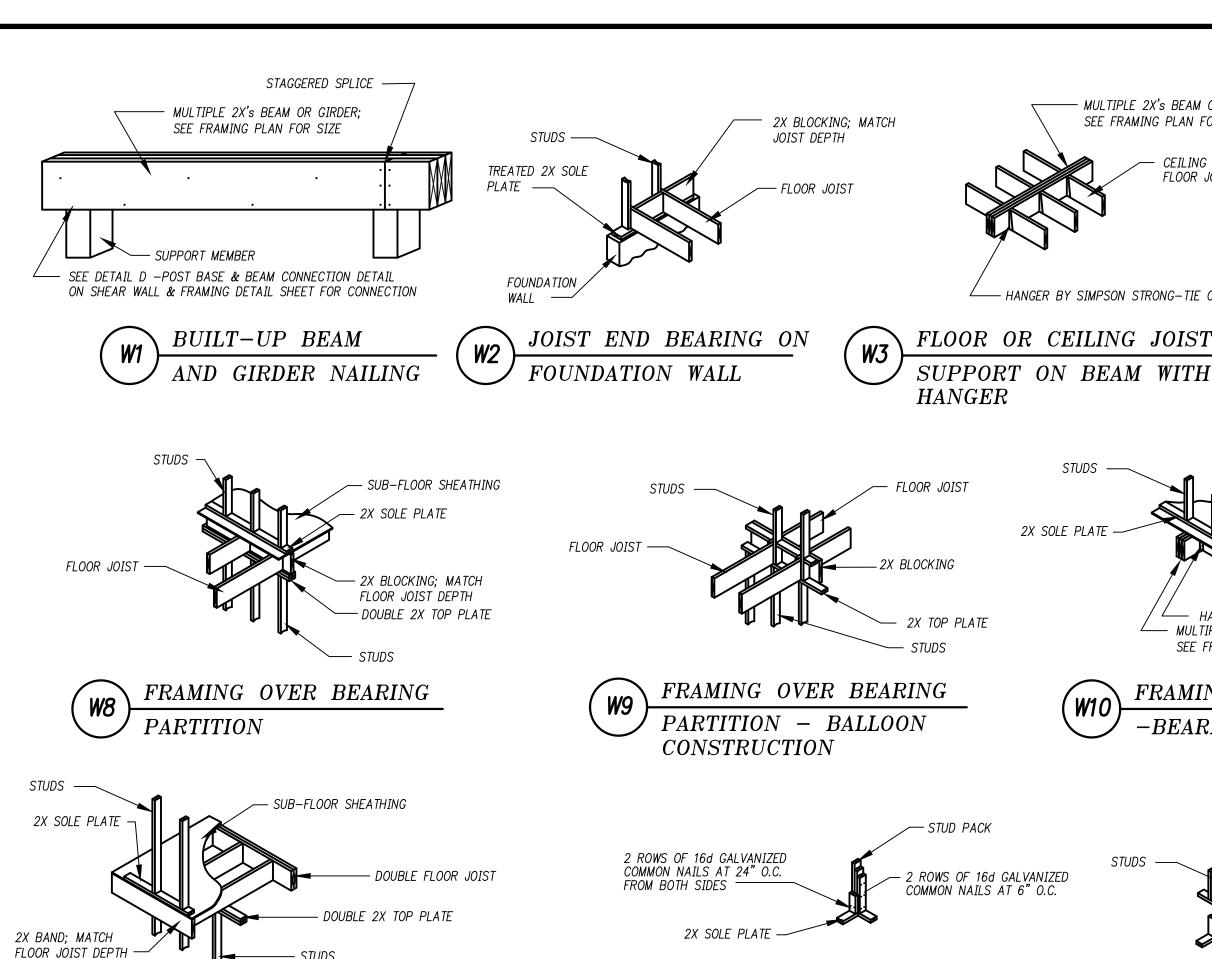
LOT.

STANDARD FRAMING NOTES @ SCHEDULES

SCALE: NOT TO SCALE

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CHECKED BY:
JG/BW
DRAWN BY:
BW
DATE:
3/2/22
JOB #
22104



LOOKOUT JOIST; ATTACH TO DOUBLE

— HEADER; SEE DETAIL 17 ON

THIS SHEET FOR FRAMING.

NOTE: BLOCKING BETWEEN CANTILEVERED JOINT

CANTILEVERED MEMBER.

2) SPLICES IN TOP PLATE MEMBER SHALL BE SPACES 6 FEET MINIMUM.

SEE DETAIL WS11 - WALL FRAMING DETAIL FOR REQUIRED STRAPS AROUND THE OPENING ON SHEAR WALL & FRAMING DETAIL SHEET. NOTE: 1) ROOF NOT SHOWN OVER BAY WINDOW FOR CLARITY: SEE ARCHITECTURAL DRAWINGS FOR ROOF.

AND SUBFLOOR HAVE BEEN OMITTED FOR CLARITY; PROVIDE BLOCKING OF SIMILAR DEPTH AS

STUDS: SEE STRUCTURAL FRAMING PLAN FOR ANY ADDITIONAL STUDS OR POSTS.

— NAIL TOP WITH 16d NAILS AT 6" O.C.

—STUD WALL

DOUBLE 2X TOP PLATE

FLOOR JOIST; SEE

FLOOR JOIST WITH HANGER.

SECOND FLOOR OVERHANG

OF EXTERIOR WALL

HEADER OVER OPENING -

CRIPPLES BELOW OPENING; SEE

COLUMN PLINTH OR BASE—

DETAIL 17 ON THIS

SHEET FOR FRAMING

MULTIPLE FLOOR JOIST;

CANTILEVERED FLOOR JOIST—

BAY WINDOW

2X SOLE PLATE

BUILT-UP COLUMN BASE

PLACED ON THE FOUNDATION SLAB.

1) BUILT-UP COLUMN SHALL BEAR ON COLUMN PLINTH FORMED AND

2) TOP OF PLINTH SHALL MATCH FINISHED FLOOR ELEVATION UNLESS

3) SEE ARCHITECTURAL DRAWINGS FOR SIZE AND SHAPE OF PLINTH.

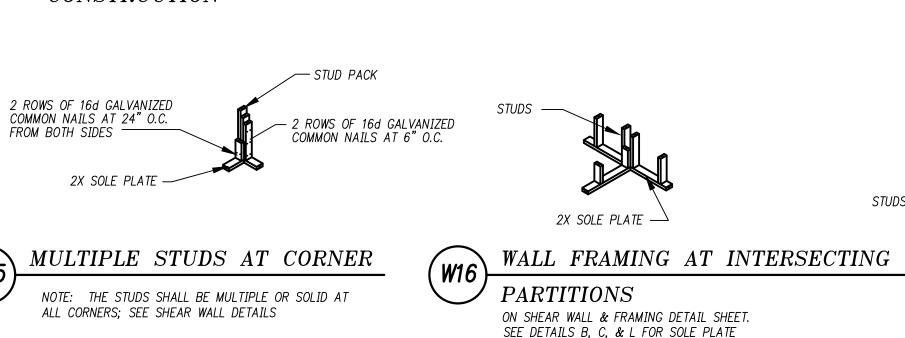
4) USE TYPICAL SOLE PLATE ANCHOR BOLTS AND CLIPS AND STRAPS

NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.

AS REQUIRED FOR TYPICAL WALL FRAMING.

CANTILEVERED AT ENDS OF-

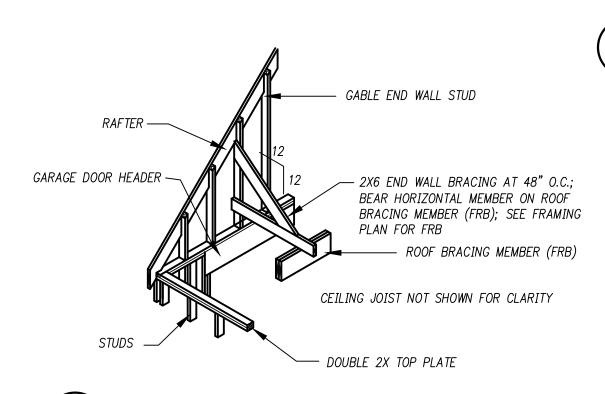
BAY WINDOW; FRAMING PLAN



MULTIPLE 2X'S BEAM OR GIRDER;

SEE FRAMING PLAN FOR SIZE

- HANGER BY SIMPSON STRONG-TIE OR EQUAL.



GABLE END WALL FRAMING -

SPLICE NOTE:

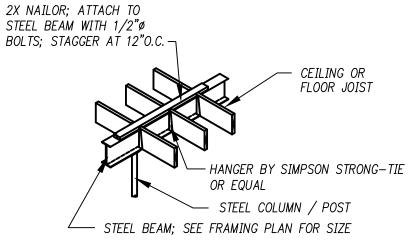
ANCHORAGE AS REQUIRED

) FLOOR JOISTS SHALL NOT BE SPLICED. 2) CEILING JOISTS, RAFTER, RIDGE BEAM, HIP, AND VALLEY BEAM MAY BE SPLICED; USE SIMILAR SIZE MATERIAL ON BOTH SIDES OF THE SPLICE AND FASTEN WITH A MINIMUM OF 21 — 10d NAILS ON BOTH END OF SPLICE PLACE.

ALLOWABLE LENGTH OF EXTERIOR WALL STUDS *

	WIND SPE 100 MPH	ED =	:		110	MPH		120	MPH		130	MPH			
	STUD SIZE	2x4	2X6	2X8	2x4	2X6	2X8	2x4	2X6	2X8	2x4	2X6	2X8	STUD SIZE	
	STUD SPACING													STUD SPACING	
NON-LOADBEARING	12" OC	13'-6	19'-9	19'-9	12'-8	19'–9	19'-9	11'–11	19'–1	19'-9	11'-3	18'-1	19'-9	12" OC	NON-LOADBEARING
STUDS	16" OC	12'-3	19'–8	19'-9	11'-5	13'-6	19'-9	10'-9	17'-4	19'-9	10'-2	16'-2	19'-9	16" OC	STUDS
	24" OC	10'-7	17'-1	19'-9	9'–11	13'-6	19'-9	9'-4	14'-2	18'-3	8'-8	13'-0	16'-9	24" OC	
LOADBEARING STUDS	12" OC	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	12" OC	LOADBEARING STUDS
SUPPORTING ROOF & CEILING ONLY	16" OC	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	16" OC	SUPPORTING ROOF & CEILING ONLY
	24" OC	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	10'-8	11'-9	11'-9	24" OC	
LOADBEARING STUDS	12" OC	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	12" OC	LOADBEARING STUDS
SUPPORTING ROOF, CEILING & 1 FLOOR	16" OC	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	11'-9	16" OC	SUPPORTING ROOF, CEILING & 1 FLOOR
ONLY	24" OC	X	11'-9	11'-9		11'-9	11'-9	\times	11'-9	11'-9	\times	11'-9	11'-9	24" OC	ONLY
LOADBEARING STUDS	12" OC	X	11'-9	11'-9		11'-9	11'-9	\times	11'-9	11'-9	\times	11'-9	11'-9	12" OC	LOADBEARING STUDS
SUPPORTING ROOF, CEILING & 2 FLOORS	16" OC	\times	11'-9	11'-9	\geq	11'-9	11'-9	\geq	11'-9	11'-9	\times	11'-9	11'-9	16" OC	SUPPORTING ROOF, CEILING & 2 FLOORS
ONLY	24" OC	\geq	11'-9	11'-9		11'-9	11'-9		11'-9	11'-9		11'-9	11'-9	24" OC	ONLY

- 1. THE USE OF THIS TABLE FOR EXTERIOR LOADBEARING STUDS SHALL BE VALID ONLY IF THE PROVISIONS OF THE BRACED WALL DETAILS ARE USED.
- 2. AN ENGINEERED DESIGN FOR A GIVEN LOCATION MAY INCREASE THE LENGTH OF SPECIFIC EXTERIOR STUDS. SEE THE FRAMING PLAN FOR THE LOCATION OF THE SPECIFIC STUDS.
- **3.** WALL STUDS OF #2 GRADE LUMBER (INCLUDING DOUGLAS FIR-LARCH, HEM FIR, SOUTHERN PINE AND SPRUCE-PINE-FIR) SHALL NOT EXCEED THE MAXIMUM LENGTH SPECIFICED IN THE TABLE ABOVE.



MAXIMUM

TO FRAMING

— 2X TOP PLATE

- DOUBLE 2X TOP PLATE

NAIL TOP WITH 16d NAILS AT 6" O.C.

NOTE: NAILER SHALL BE PLACED AT 48" O.C.

ATTACHMENT OF NON-

-BEARING PARTITION

2X SOLE PLATE →

OPENING IN WALL - HEADER DETAIL

SEE DETAIL WS11 - WALL FRAMING DETAIL FOR REQUIRED STRAPS

AROUND THE OPENING ON SHEAR WALL & FRAMING DETAIL SHEET

3) SPLICES IN TOP PLATE MEMBER SHALL BE SPACES 6 FEET MINIMUM.

NOTE: 1) ONE JACK STUD UNDER HEADER FOR EACH 4'-0" INCREMENT OF

SHALL BE REQUIRED ON EACH SIDE OF OPENING.

HEADER SPAN OR AS NOTED ON STRUCTURAL FRAMING PLAN

2) FOR OPENING 12'-0" AND GREATER; TWO FULL HEIGHT STUDS

FLOOR OR CEILING JOIST SUPPORT ON STEEL BEAM

- SUB-FLOOR SHEATHING

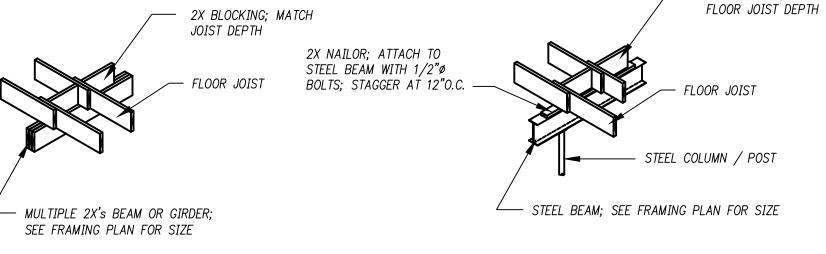
_DOUBLE FLOOR JOIST OR BLOCKING

— HANGER BY SIMPSON STRONG—TIE OR EQUAL.

- MULTIPLE 2X's BEAM OR GIRDER; SEE FRAMING PLAN FOR SIZE

FRAMING UNDER NON-

-BEARING PARTITION



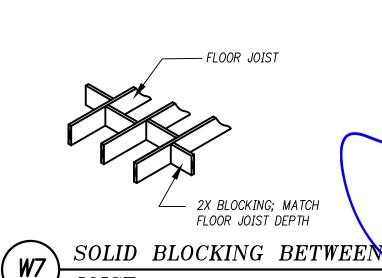
FLOOR OR CEILING JOIST SUPPORT OVER BEAM OR

STUDS

BLOCKING

SUPPORT OVER STEEL BEAM

FLOOR JOIST



2X BAND; MATCH FLOOR JOIST DEPTH

- DOUBLE 2X TOP PLATE

2X BLOCKING; MATCH

SECOND FLOOR FRAMING AT EXTERIOR WALL

TOP WITH 16d NAILS AT 6" O.C. GABLE END WALL STUD 2x6 MIN. STUD (BALLOON FRAMING) FRAMING PLAN 4X FULL HEIGHT KING STUD; TYPICAL --TOP STRAP, WHERE REQ'D SEE DETAIL WS12 CEILING FRAMING NOT SHOWN 4X4 BLOCKING-- DBL 2X (SEE END MEMBER ON SHEAR WALL SHEET) AT CORNER OR END OF - DOUBLE 2X TOP PLATE SHEAR WALL. -BOTTOM STRAP, WHERE REQ'D 2X CRIPPLE-

SEE DETAIL WS12

FRAMED WALL WITH HORIZONTAL

-MOISTURE — RESISTANT DRYWALL

FRAMING SUPPORTING

WIND STRAPPING NOTE: 1) SEE SHEAR WALL PLAN FOR LOCATION OF THIS DETAIL

2) THIS WALL SHALL BE FULLY SHEATHED WITH STRUCTURAL WOOD PANELS. 3) SEE THE SHEAR WALL PLAN AND DETAILWS12 FOR THE STRAP AND NAILING TO BE USED ABOVE AND BELOW THE OPENING. 4) FOR DOOR OPENINGS OMIT BOTTOM STRAP.

5) SPLICES IN TOP PLATE MEMBER SHALL BE SPACES 6 FEET MINIMUM.

ABLE END WALL FRAMING

NOTE: 1) BALLOON FRAMING SHALL EXTEND FROM FLOOR BELOW TO ROOF. 2) THIS DETAIL OF END WALL SHALL BE USED AT ANY AREA WITHOUT 3) BALLOON WALL FRAMING SHALL BE CONSTRUCTED OF CONTINUOUS

STUDS FROM THE SOLE PLATE TO THE TOP PLATE OF THE ROOF; USE 2X6 STUDS (MINIMUM); FOR HEIGHT NOT INDICATED ON THE "WALL STUDS ALLOWABLE HEIGHT" CHART USE 2X8 STUDS; NO FINGER JOINTED STUDS.

JOIST HANGER SCHEDULE

	FACE M	OUNTED	TOP F	LANGE
JOIST SIZE	FLOOR JOIST	CEILING JOIST	FLOOR JOIST	CEILING JOIST
2X6	LUS26	LUS26	JB26	JB26
2X8	LUS26	LUS26	JB28	JB28
2X10	LUS28	LUS28	JB210	JB210
2X12	LUS210	LUS210	JB212	JB212
ENG'D JOIST	NOTE 3	$\left\langle \right\rangle$	NOTE 3	$\bigg / \bigg /$
 	·			

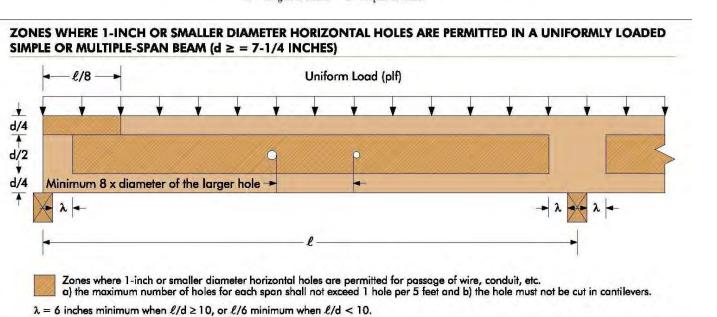
1 - HANGER NOMEMCLATURE IS THAT OF SIMPSON STRONG-TIE. OTHER MANUFACTURER'S HANGERS OF EQUAL CAPACITY MAY BE USED. 2 - HANGERS SHALL BE INSTALLED PER MANUFACTURER'S MOST RECENTLY PRINTED LITERATURE.

3 - THE SUPPLIER OF THE ENGINEERED JOIST SHALL FURNISH HANGERS WITH THE CAPACITY REQUIRED TO SUPPORT THE JOIST

NOTES:

- 1. SEE FRAMING PLANS FOR LOCATION, SIZE, SPACING, AND GRADE OF THE VARIOUS COMPONENTS SHOWN ON THIS SHEET.
- 2. FOR CONNECTION OF THE VARIOUS MEMBERS SEE THE NAILING SCHEDULE.
- **3.** SEE SHEAR WALL DETAIL SHEET FOR REQUIRED STRAPS.

	l/8-	*	- <i>l</i> /8-	-		Unifo	— ℓ/2 rm Loa	d (plf)		-	- l/8-	-	<i>−ℓ/</i> 8−
	+				+		+	-				v	-
					1	Noment	critical	zone					
	Shea	r critica	l zone								Shea	r critic	al zone
>				- 100000	1	Noment	critical	zone	-				
1	D-		ritical zo	alan						D	aring cri	e a l	



REVISIONS

REASON

DATE

JG/BW DRAWN BY: DATE 3/2/22JOB # 22104

CHECKED BY:

ALLOWABLE LOCATIONS OF SMALL HOLES IN ENGINEERED WOOD BEAMS

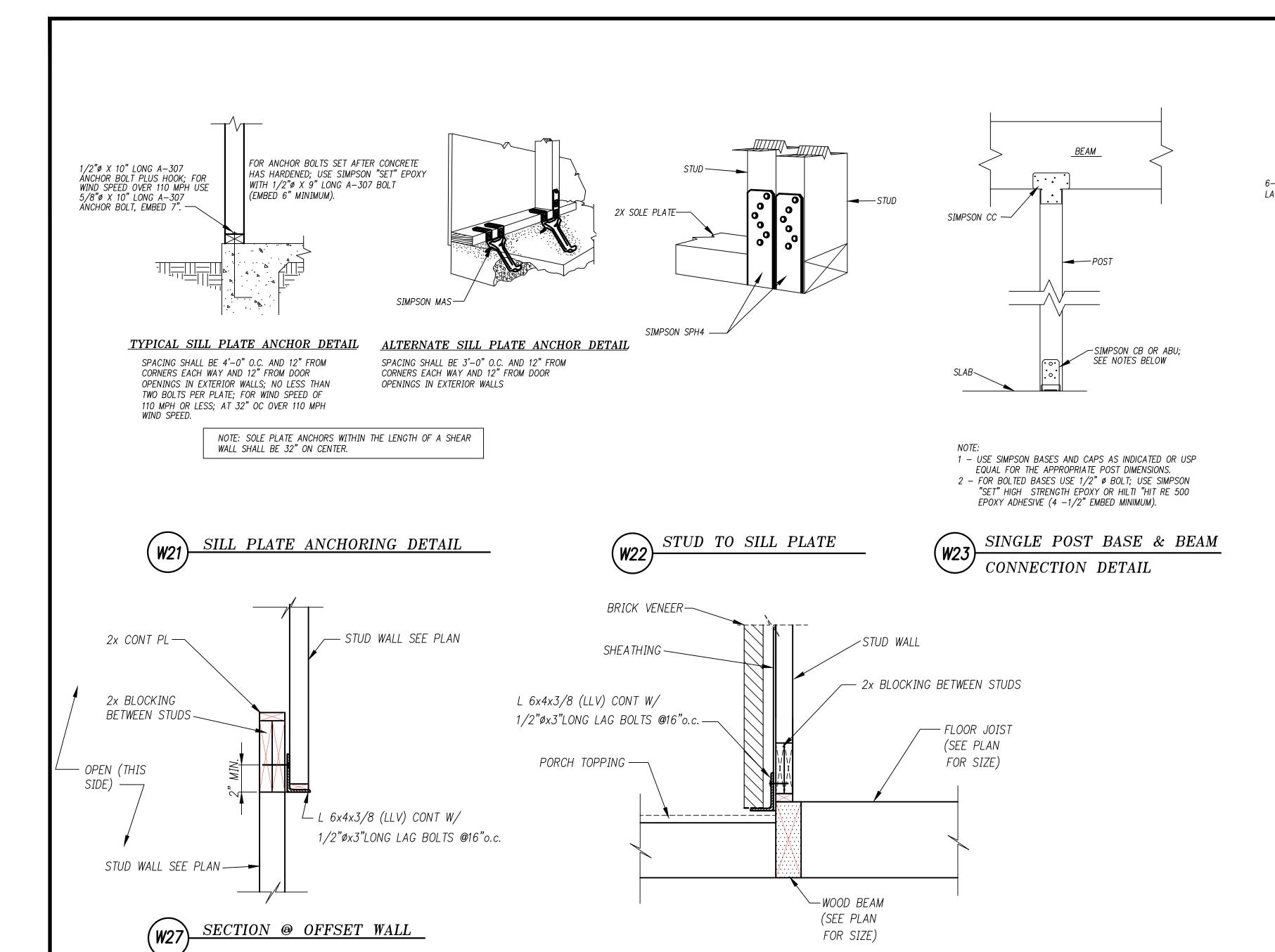
SADDLE CREEK FOREST LOT. 14 BLK. SECT. 27900 E. STALLION LN. WALLER, TX 77484 PLAN | STANDARD ROOF & WALI FRAMING DETAILS SCALE: NOT TO SCALE

CUSTOM HOME

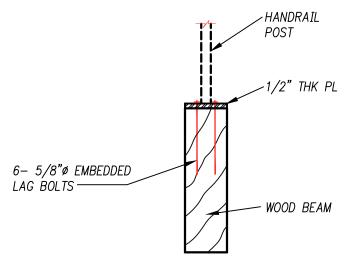
DUONG RESIDENCE

PROJECT INFO

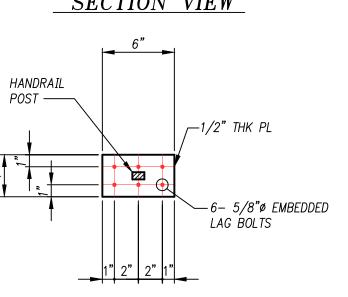
JOHN C. GULTEK







SECTION VIEW



HANDRAIL /GUARDRAIL DETAIL

NOTE: DESIGNED FOR 50 PLF AND A CONCENTRATED LOAD OF 200 POUNDS PER SECTION 4.5.1 OF ASCE 7.

PLAN VIEW

STUD WALL ~ - BRICK VENEER WOOD BEAM (SEE PLAN FOR SIZE) - L 6x4x3/8 (LLV) CONT W/ 1/2"øx3"LONG LAG BOLTS @16"o.c.

SUPPORT BY WOOD BEAM

WOOD BEAM— (SEE PLAN FOR SIZE) L 6x4x3/8 (LLV) CONT W/ 1/2"øx3"LONG LAG BOLTS @16"o.c.

SUPPORT BOTH SIDES BY WOOD BEAM

CUSTOM HOME

JOHN C. GULTEK

DUONG RESIDENCE

PROJECT INFO. SADDLE CREEK FOREST

LOT. 14 BLK. SECT.

27900 E. STALLION LN., WALLER, TX 77484

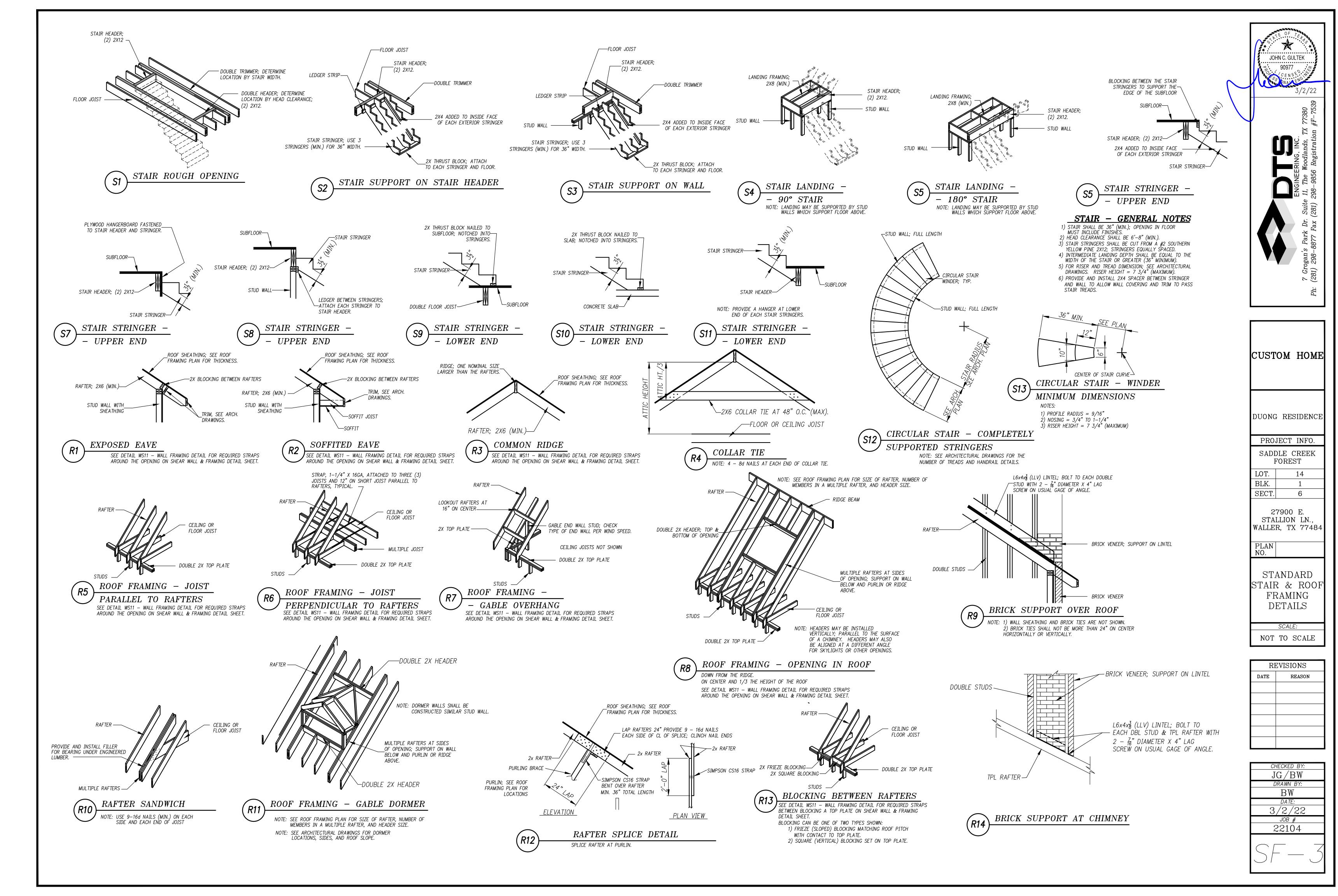
PLAN NO.

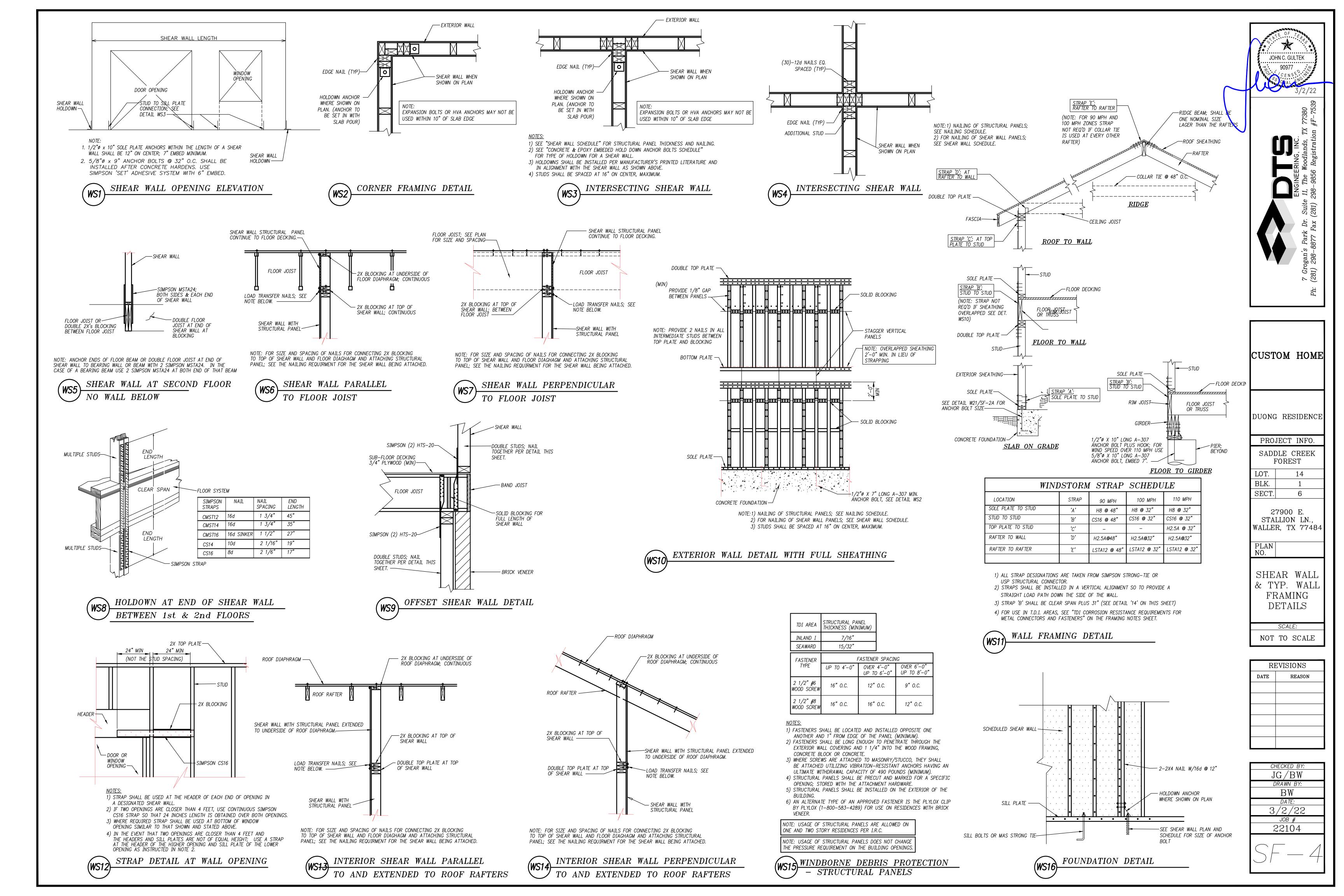
STANDARD WALL & FLOOR FRAMING DETAILS

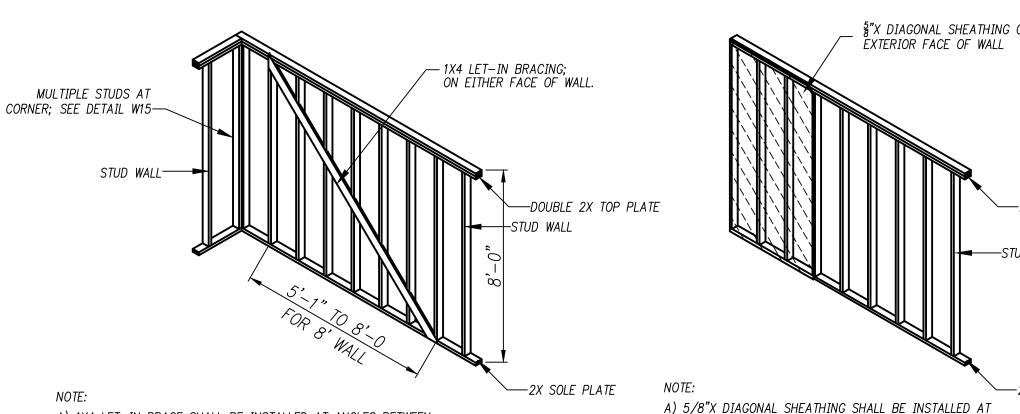
SCALE: NOT TO SCALE

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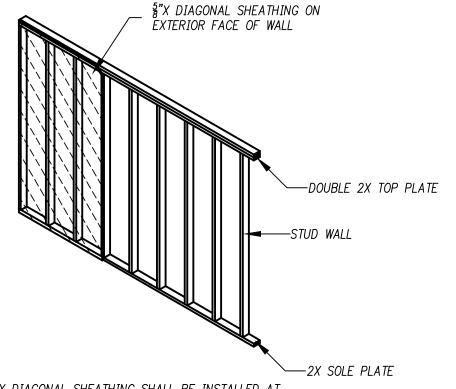
-DOUBLE 2X TOP PLATE

_STUDS AT 16"

ON CENTER MAXIMUM.

- A) 1X4 LET-IN BRACE SHALL BE INSTALLED AT ANGLES BETWEEN
- 45 DEGREES AND 60 DEGREES FROM THE HORIZONTAL. B) NAIL 1X4 TO TOP PLATE, EACH STUD AND BOTTOM PLATE WITH
- C) LET-IN BRACING OF STEEL MAY BE USED; SEE SIMPSON "TWB" OR "RCWB"; INSTALL ACCORDING TO MANUFACTURER'S PRINTED LITERATURE.

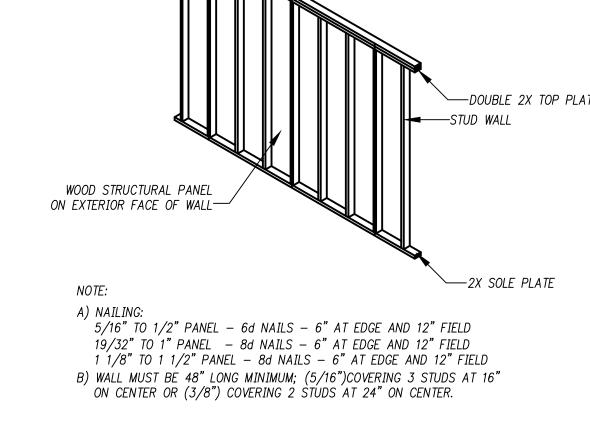


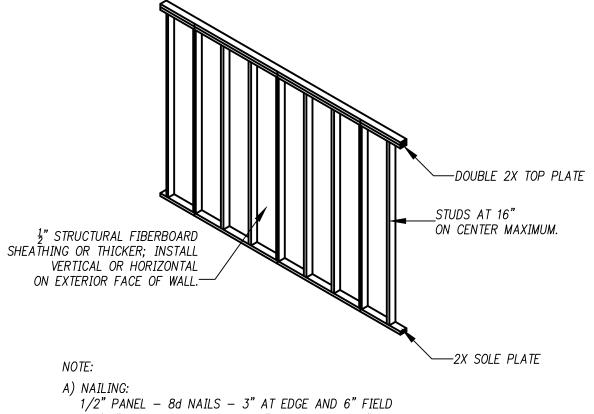


A) 5/8"X DIAGONAL SHEATHING SHALL BE INSTALLED AT

- 45 DEGREES (12":12"). B) NAIL 5/8"X TO TOP PLATE, EACH STUD AND BOTTOM PLATE WITH 2 - 8d NAILS.
- C) WALL MUST BE 48" LONG MINIMUM; COVERING 3 STUDS AT 16" ON CENTER OR COVERING 2 STUDS AT 24" ON CENTER.

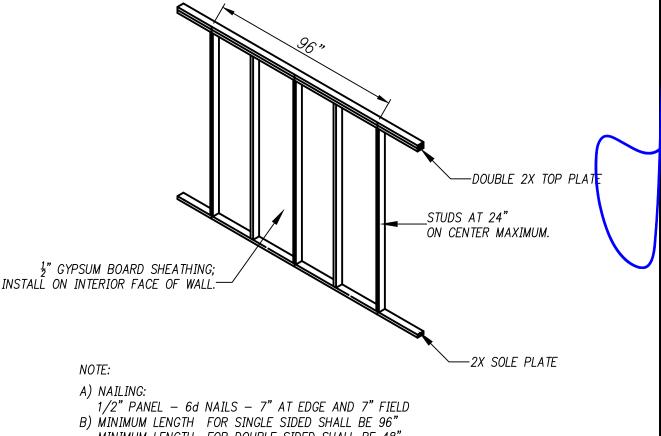




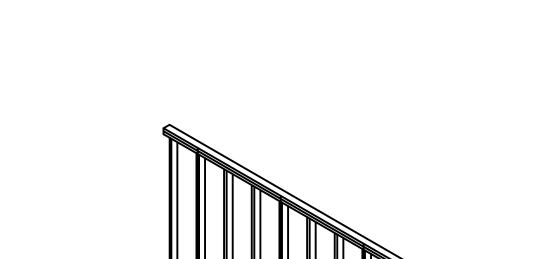


25/32" PANEL - 8d NAILS - 3" AT EDGE AND 6" FIELD

B) WALL MUST BE 48" LONG MINIMUM; COVERING 3 STUDS AT 16" ON CENTER.



MINIMUM LENGTH FOR DOUBLE SIDED SHALL BE 48"

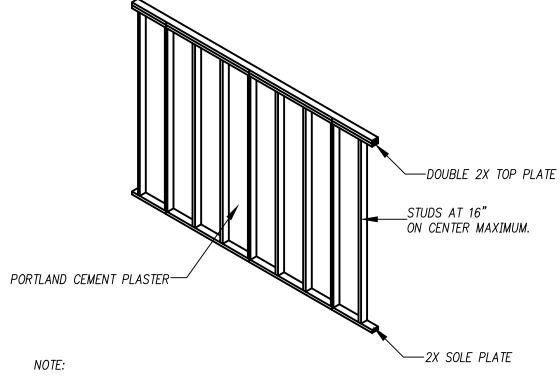


SHEATHING; INSTALL VERTICAL ON EXTERIOR FACE OF WALL. -2X SOLE PLATE NOTE:

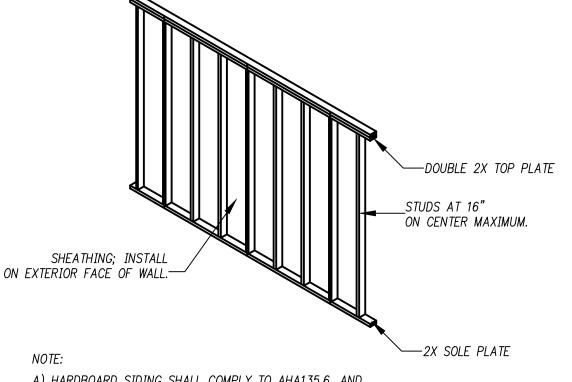
A) NAILING: 1/2" PANEL - 6d NAILS - 3" AT EDGE AND 6" FIELD B) WALL MUST BE 48" LONG MINIMUM; COVERING 3 STUDS AT 16" ON CENTER.

1" REGULAR FIBERBOARD





A) EXPANDED CORROSION RESISTANT LATH ATTACHED TO STUDS WITH 1 1/2" LONG 11 GAGE NAILS WITH 7/16" HEAD. B) PLASTER SHALL BE PORTLAND CEMENT APPLIED IN THREE COATS. C) WALL MUST BE 48" LONG MINIMUM: COVERING 3 STUDS AT 16" ON CENTER.



A) HARDBOARD SIDING SHALL COMPLY TO AHA135.6. AND SHALL BE 7/16" NOMINAL THICKNESS (MINIMUM). B) ATTACH HARDBOARD TO STUDS WITH 0.092 DIAMETER NAIL

WITH 0.225 HEAD AND 1.5" OF PENETRATION. C) WALL MUST BE 48" LONG MINIMUM; COVERING 3 STUDS AT 16" ON CENTER.

WALL BRACING (IRC- TABLE R602.10.1)

WIND SPEED	CONDITION	TYPE OF BRACE	AMOUNT OF BRACING
	ONE STORY TOP OF TWO OR THREE STORY	METHODS 1, 2, 3, 4, 5, 6, 7, OR 8	LOCATED AT EACH END AND AT LEAST EVERY 25—FEET ON CENTER BUT NOT LESS THAN 16% OF BRACED WALL LINE.
100 MPH OR LESS	FIRST STORY OF TWO STORY SECOND STORY OF THREE STORY	METHODS 1, 2, 3, 4, 5, 6, 7, OR 8	LOCATED AT EACH END AND AT LEAST EVERY 25-FEET ON CENTER BUT NOT LESS THAN 16% OF BRACED WALL LINE FOR METHOD 3 AND 25% OF BRACED WALL LINE FOR METHODS 2, 4, 5, 6, 7, OR 8.
	FIRST STORY OF THREE STORY	METHODS 2, 3, 4, 5, 6, 7, OR 8	MINIMUM 48—INCH WIDE PANELS LOCATED AT EACH END AND AT LEAST 25—FEET ON CENTER BUT NOT LESS THAN 25% OF BRACED WALL LINE FOR METHOD 3 AND 35% OF BRACED WALL LINE FOR METHODS 4, 5, 6, 7, OR 8.
	ONE STORY TOP OF TWO OR THREE STORY	METHODS 1, 2, 3, 4, 5, 6, 7, OR 8	LOCATED AT EACH END AND AT LEAST EVERY 25-FEET ON CENTER BUT NOT LESS THAN 16% OF BRACED WALL LINE FOR METHOD 3 AND 25% OF BRACED WALL LINE FOR METHODS 2, 4, 5, 6, 7, OR 8.
LESS THAN 110 MPH	FIRST STORY OF TWO STORY SECOND STORY OF THREE STORY	METHODS 2, 3, 4, 5, 6, 7, OR 8	LOCATED AT EACH END AND AT LEAST EVERY 25—FEET ON CENTER BUT NOT LESS THAN 30% OF BRACED WALL LINE FOR METHOD 3 AND 45% OF BRACED WALL LINE FOR METHODS 2, 4, 5, 6, 7, OR 8.
	FIRST STORY OF THREE STORY	METHODS 2, 3, 4, 5, 6, 7, OR 8	LOCATED AT EACH END AND AT LEAST EVERY 25-FEET ON CENTER BUT NOT LESS THAN 45% OF BRACED WALL LINE FOR METHOD 3 AND 60% OF BRACED WALL LINE FOR METHODS 2, 4, 5, 6, 7, OR 8.

nath Requirements for Braced Wall Panels in a Continuously Sheathed Wall

<i>J</i> ,			,
Minimum Lengti	h of Braced Wall	Panel	Maximum Opening Height next to the Braced Wall Panel
	(Inches)		(% of wall height)
8–foot wall	9-foot wall	10-foot wall	
48	54	60	100%
<i>32</i>	36	40	85%
24	<i>2</i> 7	.30	65%

Table R602.10.5

Longth Requirements for Bracea main rancis in a continuously sheathea main										
Minimum Length	Maximum	Opening Heigh	nt next	to	the	Braced	Wall	Panel		
(Inches)			(% of	wall height)						
8-foot wall	9-foot wall	10-foot wall								
48	54	60	100%							
<i>32</i>	36	40	85%							
24	27	30	65%							

Braced Wall Construction

Walls shall be braced in accordance with this section. In addition, interior braced wall lines shall be provided in accordance with Section R602.10.1.1. Exception: Alternate braced wall panels constructed in accordance with Section R602.10.6 shall be permitted to replace any of the above methods of bracing wall panels.

R602.10.1 Braced wall lines shall consist of braced wall panels construction methods in accordance with Section R602.10.3. The amount and location of bracing shall be in accordance with Table R602.10.1. Braced wall panel shall begin no more than 12.5—feet from each end of a braced wall line. Braced wall panels that are counted as part of a braced wall line shall be in line, except that offsets out-of-plane of up to 4-feet shall be permitted provided that the total out-to-out offset dimension in any braced wall in not more than 8-feet.

Spacing of braced wall lines shall not exceed 35-feet on center in both the longitudinal and transverse directions in each story. Exception: Spacing of braced wall lines not exceeding 50-feet shall be permitted where:

1. The wall bracing provided equals or exceeds the amount of bracing required by Table R602.10.1 multiplied by a factor equal to the braced wall line spacing divided by 35-feet and on center in both the longitudinal and transvers directions in each story. 2. The length—to—width ratio for the floor/wall diaphragm does not exceed 3:1.

Cripple walls shall be braced with an amount and type of bracing are required for the wall above in accordance with Table 602.10.1 with the following modifications for the cripple wall bracing:

1. The percent bracing amount as determined from Table R602.10.1 shall be increased by 15 percent.

2. The wall panel spacing shall be decreased to 18—feet instead of 25—feet.

The construction of braced wall panels shall be in accord with one of the following methods:

1. Nominal 1-inch by 4-inch continuous diagonal braces let in to the top and bottom plates and the intervening studs or approved metal strap devices installed in accordance with the manufacturer's specifications. The let-in bracing shall be placed at an angle not more than 60-degrees or less than 45-degrees from the horizontal.

2. Wood boards of 5/8-inch net minimum thickness applied diagonally on studs spaced a maximum of 24-inches. Diagonal

boards shall be attached to studs in a accord with Table R602.3(1). 3. Wood structural panel sheathing with a thickness not less than 5/16-inch for 16-inch stud spacing and not less than

3/8—inch for 24—inch stud spacing. Wood structural panels shall be installed in accordance with Table R602.3(1). 4. One half inch or 25/32—inch thick structural fiberboard sheathing applied vertically on studs spaced a maximum of 16—inch

on center. Structural fiberboard sheathing shall be installed in accordance with Table R602.3(1).

5. Gypsum board with minimum ?—inch thickness placed on studs spaced a maximum of 24—inches on center and fastened at 7-inches on center with nails in accordance with Table R602.3(1).

6. Particleboard wall sheathing panels installed in accordance with Table R602.3(1).

7. Portland cement plaster on studs spaced a maximum of 16-inches on center and installed in accordance with

Section R703.6 [Exterior plaster]. 8. Hardboard panel siding when installed in accordance with Table R703.4

Exception: Alternate braced wall panels constructed in accordance with Section R602.10.6 shall be permitted to replace any of the above methods of bracing wall panels.

For Methods 2, 3, 4, 6, 7 and 8 above, each braced wall panel shall be at least 48—inch in length, covering a minimum of three 24-inches of center. For Method 5 above, each braced wall panel shall be at least 96-inch in length where applied to one face of the braced wall panel and at least 48-inches where applied to both faces. least 48—inches where applied to both faces.

1. Length of braced wall panels for continuous wood structural panels sheathing shall be in accordance with Section R60210.5. 2. Length of alternate braced wall panels shall be in accordance with Section R602.10.6.

Exceptions:

When continuous wood structural panel sheathing is provided in accordance with Method 3 of Section R602.10.3, including areas above and below openings, braced wall panel lengths shall be in accordance with Table R602.10.5. Wood structural panel sheathing at corners shall be installed in accordance with Figure R602.10.5. The bracing amounts in Table R602.10.1 for Method 3 shall be permitted to be multiplied by a factor of 0.9 for walls with maximum opening height that does not exceed 85 percent of the wall height or a factor of 0.8 for walls with maximum opening height that does not exceed 67 percent of the wall height.

Alternate braced wall lines constructed in accordance with one of the following provisions shall be permitted to replace each 4—feet of braced wall panel as required by Section R602.10.4:

1. In one-story buildings, each panel shall have a length of not less than 2-feet 8-inch and a height not more than 10-feet. Each panel shall be sheathed on one face with 3/8—inch minimum thickness wood structural panel sheathing nailed with 8d common or galvanized box nails in accordance with Table R602.3(1) and blocked at all wood structural panel sheathing edges. Two anchor bolts installed in accordance with Figure R403.1(1) shall be provide in each panel. Anchor bolts shall be placed at panel quarter points. Each panel end stud shall have a tie-down device fastened to the foundation, capable of providing an uplift capacity of at least 1800 pounds. The tie-down device shall be installed in accordance with the manufacturer's

recommendations. The panels shall be supported directly on a foundation or a floor framing support directly on a foundation which is continuous across the entire length of the braced wall line. The foundation shall be reinforced with not less than one-#4 top and bottom. This reinforcement shall be lapped 15inches with the reinforcement required in the continuous foundation located directly under the braced wall line.

2. In the first story of two-story buildings, each braced wall panel shall be in accordance with Item 1 above, except that the wood structural panel sheathing shall be provided on both faces, at least three anchor bolts shall be placed at one-fifth point, and tie down device uplift capacity shall not be less than 3000 pounds.

All vertical joints of panel sheathing shall occur over studs. Horizontal joints in braced wall panels shall occur over blocking of a minimum of 1?—inch thickness. Exception: Blocking is not required behind horizontal joints where permitted by the manufacturer's installation requirements for

the specific sheathing material.

Braced wall panel sole plates shall be fastened to the floor framing and top plates shall be connected to the framing above in accordance with Table R602.3(1). Sills shall be fastened to the foundation or slab in accordance with Section R403.1.6 and R602.11. Where joists are perpendicular to the braced wall line above, blocking shall be provided under and in line with the braced wall panels.

Where a building, or portion thereof, does not comply with one or more of the bracing requirements in this section, those portions shall be designed and constructed in accordance with accepted engineering practice.

CUSTOM HOME

JOHN C. GULTEK

DUONG RESIDENCE

PROJECT INFO SADDLE CREEK

6

FOREST LOT. 14 BLK.

SECT.

NO.

27900 E. STALLION LN., WALLER, TX 77484

PLAN |

WALL BRACING

DETAILS

SCALE:

NOT TO SCALE

REVISIONS						
DATE	REASON					

CHECKED BY:
JG/BW
DRAWN BY:
BW
DATE:
3/2/22
JOB #
22104

1) NONE OF THE METHODS SHOWN ON THIS SHEET ARE APPROVED FOR USE IN TEXAS DEPARTMENT OF INSURANCE AREAS ALONG THE COAST OF TEXAS OR IN AREAS WITH WIND SPEEDS EQUAL TO OR GREATER THAN 110 MPH.

GENERAL NOTES