APPLICABLE CODES:

INTERNATIONAL BUILDING CODE (IBC 2021):

2018 VIRGINIA CONSTRUCTION CODE (VCC 2018) 2018 VIRGINIA RESIDENTIAL CODE (VCC2018) 2018 VIRGINIA EXISTING BUILDING CODE 2018 VIRGINIA MECHANICAL CODE 2018 VIRGINIA PLUMBING CODE 2018 VIRGINIA FUEL GAS CODE 2018 VIRGINIA MAINTENANCE CODE 2018 VIRGINIA ENERGY CONSERVATION CODE 2018 VIRGINIA FIRE CODE 2018 INTERNATIONAL SWIMMING POOL AND SPA CODE 2017 VIRGINIA ELECTRIC CODE 2012 NFPA 101-LIFE SAFETY CODE

APPLICABLE STANDARDS:

ASCE 7-16: MIN. DESIGN LOADS ON BUILDINGS AND OTHER STRUCTURES ACI 318-14: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AISC STEEL CONSTRUCTION MANUAL (LATEST EDITION)

TMS 402/602-16: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES

AWC 2018 NATIONAL DESIGN SPECIFICATION FOR WOOD W/ ALL SUPPLEMENTS AWC 2018 SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC W/ COMMENTARY AWS D1.1 STRUCTURAL WELDING CODE FOR STEEL (2011) **ALUMINUM DESIGN MANUAL 2015**

DESIGN DATA IBC-2021 (130- EXPOSURE D) WINDBORNE DEBRIS AREA V(ult) ULTIMATE DESIGN WIND SPEED 130 MPH V(ASD) NOMINAL DESIGN WIND SPEED 101 MPH RISK CATEGORY SURFACE ROUGHNESS DESIGN **ENCLOSED** INTERNAL PRESSURE COEFFICIENT (+/-) HEIGHT & EXPOSURE COEFFICIENT ADJUSTMENT FACTOR = 1.66 COMPONENTS AND CLADDING DESIGN PRESSURE PSF ROOF SLOPE (21-27 DEGREES) 4.4/12 - 6/12 ZONE 1 22.6 -40.5 ZONE 2e, 2r, 3 22.6 -56.0 ZONE 4 30.2 -32.9 ZONE 5 30.2 -40.5 GARAGE DOOR: 26.7 -30.2 16X7 25.7 -28.6 SOFFIT PRESSURES TO BE SAME AS WALL PRESSURES h = 30 FTa= 4 FT LOADING LIVE PSF LIVE LOAD (FLOOR) 40 LIVE LOAD (ROOF) PSF

SOIL BEARING CAPACITY

2,000 PSF ASSUMED

001 BUILDING CODES & LOADINGS:

THE STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2018 VIRGINIA CONSTRUCTION CODE AND/ OR MORE RESTRICTIVE REQUIREMENTS FOR LOADS GIVEN BELOW UNLESS DIFFERENT LOADING CRITERIA IS CALLED ON FOLLOWING SHEETS. REFER TO DRAWINGS FOR LOAD SCHEDULE.

GRAVITY LOADING	UNIFORM LIVE LOAD	UNIFORM DEAD LOAD	CONC. LOAD
FLOOR	40PSF	20PSF	-
BALCONIES (U.N.O)	60PSF	-	-
BALCONIES/DECK (SINGLE FAMILY	') 40PSF (U.N.O)	-	-
ROOFS	20PSF	20PSF	-
ATTIC (NO STORAGE/LIVING)	10PSF	-	-
GUARDS AND HANDRAILS	50PLF	-	200LBF
GUARD IN-FILL COMPONENTS	-	-	50LBF
STAIRS	40PSF	-	-
CARACES	40DSE	_	

002 DRAWING & DIMENSION COORDINATION

- 1. THESE DRAWINGS COMPLY WITH THE MORE RESTRICTIVE REQUIREMENT OF THE 2018 VIRGINIA CONSTRUCTION CODE AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- 2. THE CONTRACTOR SHALL MAINTAIN IN THE FIELD OFFICE COPIES OF ALL THE STANDARDS AND SPECIFICATIONS REFERENCED BY THE CONTRACT DOCUMENTS.
- 3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK
- 4. THE ENGINEER WILL CLOUD OR OTHERWISE INDICATE REVISIONS TO THESE DOCUMENTS ONLY AFTER THEY HAVE BEEN ISSUED FOR CONSTRUCTION. CHANGES PRIOR TO THAT DATE WILL NOT BE CLOUDED. CHANGES AND/OR REVISIONS, AFTER THE CONSTRUCTION SET IS ISSUED WILL BE CLOUDED IN AN ATTEMPT TO BRING TO THE CONTRACTOR'S ATTENTION ANY MAJOR ITEMS. HOWEVER, IT SHALL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE PRICING AND CONSTRUCTION OF ALL REQUIREMENTS OF THESE DOCUMENTS, INCLUDING REVISIONS (FLAGGED OR UN-FLAGGED) WITH ALL OF HIS SUPPLIERS AND SUBCONTRACTORS.

F'C = 300	00 PSI	LAP SPLICE	TABLE F	-'Y = 60 KSI	F'C = 400	00 PSI	LAP SPLIC	E TABLE	F'Y = 60 KSI
BAR SIZE	COMP	TENSION BARS		ED BAR LOPMENT	BAR SIZE	COMP	TENSION BARS		ED BAR LOPMENT
SIZE	LAP	DANS	90 DEG.	180 DEG.	SIZE	LAP	DANO	90 DEG.	180 DEG.
#3	12"	32.5"	14.5"	15.5"	#3	12"	28"	14.5"	15.5"
#4	15"	43"	19"	19.5"	#4	15"	37"	17.5"	18"
#5	19"	53.5"	24"	24"	#5	19"	46.5"	22"	22"
#6	23"	64.5"	28.5"	28.5"	#6	23"	55.5"	26.5"	26.5"
#7	27"	93.5"	33.5"	33.5"	#7	27"	81"	31"	31"

003 CAST-IN-PLACE CONCRETE

- CIP CONCRETE TO BE MIXED AND PLACED IN ACCORDANCE WITH THE FOLLOWING STANDARDS:
- ACI 301-16 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" ACI 318-14 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND COMMENTARY"
- ALL REINFORCED CONCRETE TO HAVE 28 DAY COMPRESSIVE STRENGTHS AS FOLLOWS: ALL STRUCTURAL ELEMENTS
- (BEAMS, COLUMNS, AND LINTELS) F'C = 4,000 PSI IF NOT STATED ON PLAN. ALL CONCRETE TO BE USED IN FOUNDATION AND SLABS TO BE MIN. F'C=4000 PSI AND REINFORCING STEEL TO BE MIN.

004 CONCRETE MASONRY UNIT:

ALL MASONRY CONSTRUCTION TO BE IN ACCORDANCE WITH TMS 402/602-16 BUILDING CODE REQUIREMENTS AND SPECS FOR MASONRY STRUCTURES AND ALL APPLICABLE LOCAL BUILDING CODE PROVISIONS. ALL MASONRY WALLS TO BE CONSTRUCTED ENTIRELY OF UNITS CONFORMING TO ASTM C 90, AND MASONRY REINFORCED WITH #9 GAGE LADDER TYPE HORIZONTAL REINFORCING LOCATED AT 16" O.C. ALL MASONRY TO BE LAID IN TYPE "S" MORTAR (1800 PSI ON THE JOB) WITH FULL HEAD AND BED JOINTS.

MASONRY UNITS SHALL HAVE A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 1,900PSI (F'M = 1500 PSI). CERTIFICATION OF BLOCK STRENGTH SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW.

005 STRUCTURAL STEEL:

ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS". STRUCTURAL STEEL TO CONFORM TO:

ASTM A36	PLATES, ANGLES, AND CHANNELS
ASTM A53 GR B	PIPES
ASTM A500 GR B	HSS
ASTM A307	ANCHOR BOLTS
ASTM A992	W-SHAPES

ALL SHOP AND FIELD CONNECTIONS SHALL BE MADE WITH ASTM A325-94 HIGH STRENGTH BOLTS OR WELDING, ANY CONNECTION NOT SPECIFICALLY DETAILED SHALL BE DESIGNED BY THE SPECIALTY ENGINEER FOR THE FORCES SHOWN ON THE STRUCTURAL CONSTRUCTION DOCUMENTS. WHERE FORCES ARE NOT PROVIDED DESIGN SHALL BE BASED ON THE MAXIMUM LOAD CAPACITIES OF THE CONNECTING MEMBERS. ALL STRUCTURAL SUBMITTALS REQUIRING ENGINEERING INPUT SHALL BE ACCOMPANIED BY DESIGN CALCULATIONS AND BE SIGNED AND SEALED BY THE SPECIALTY ENGINEER. ALL STEEL AT AND BELOW FINISHED GRADE TO BE FIELD PAINTED AND COVERED WITH CONCRETE PER ACI 318-14 TABLE 20.6.1.3.1

006.SITE PREPARATION NOTES

- 1. THE BUILDING SHALL BE PREPARED AND TESTED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
- 2. IF THE SITE PREPARATION REQUIREMENTS ARE NOT SPECIFIED BY A GEOTECHNICAL REPORT THE FOLLOWING PROCEDURES SHOULD BE A. WITHIN AN AREA A MINIMUM OF 5 FEET BEYOND THE BUILDING LIMITS EXCAVATE A MINIMUM OF 4" OF EXISTING SOIL REMOVE ALL
- ORGANICS, PAVEMENT, ROOTS, DEBRIS AND OTHERWISE UNSUITABLE MATERIAL B. THE SURFACE OF THE EXPOSED SUBGRADE SHALL BE INSPECTED FOR POCKETS OF SOFT OR UNSUITABLE MATERIAL EXCAVATE
- UNSUITABLE SOIL AS DIRECTED BY THE GEOTECHNICAL ENGINEER/TESTING AGENCY
- C. FILL ALL EXCAVATED AREAS WITH APPROVED CONTROLLED FILL PLACE IN 8-INCH LIFTS AND COMPACT TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY BASED ON THE MODIFIED PROCTOR TEST

D. ALL CONTROLLED FILL MATERIAL SHALL BE A SELECT GRANULAR MATERIAL FREE FROM ALL ORGANICS OR OTHERWISE DELETERIOUS

E. PROVIDE FILED DENSITY TESTS FOR EACH 1,500 S F OF BUILDING AREA FOR EACH LIFT OF CONTROLLED FILL

007 GENERAL NOTES.

- 1. THE CONTRACTOR/OWNER IS TO VERIFY ALL SITE CONDITIONS, PROPERTY DIMENSIONS, AND PRODUCT AVAILABILITY. OPENINGS FOR WINDOWS AND DOORS AND ATTACHMENT REQUIREMENTS. DIMENSIONS OF PRODUCTS, INCLUDING APPLIANCES ARE THE RESPONSIBILITY OF THE CONTRACTOR/OWNER.
- 2. ALL STRUCTURAL DESIGN HAS BEEN CARRIED OUT PER THE PROVISIONS OF CHAPTER 16 OF THE BUILDING CODE, AS
- 3. ENGINEERING DESIGNS PROVIDED IN THESE DETAIL SPECIFICATIONS REPRESENT THE MINIMUM DESIGN CRITERIA FOR CONSTRUCTION TO THE CODES IDENTIFIED ABOVE.
- ANY PRODUCT OR MATERIAL SUBSTITUTION IS PERMITTED AS LONG AS THE SUBSTITUTION IS EQUAL TO OR GREATER THAN THE ORIGINAL SPECIFIED PRODUCT ALL TESTING DATA OR PRODUCT VERIFICATION IS THE RESPONSIBILITY OF THE CONTRACTOR THE ENGINEER HAS NOT PROVIDED REVIEW OF SUCH MATERIAL UNLESS OTHERWISE SPECIFIED.
- 5. THE PRESUMPTIVE LOAD-BEARING VALUES OF THE FOUNDATION SOIL IS TO BE 2000PSF BASED ON THE TABLE R401.4.1, 2018 VIRGINIA RESIDENTIAL CODES.
- 6. ENGINEER HAS NOT PROVIDED ANY JOB SITE INSPECTIONS UNLESS SPECIFICALLY ARRANGED.
- 7. CLADDING PRODUCTS ARE TO BE INSTALLED TO THE MANUFACTURES SPECIFICATIONS, AND TO COMPLY WITH THE 2018 VIRGINIA CONSTRUCTION CODES, AND ASCE7-16 THE CONTRACTOR IS TO PROVIDE ANY INSTALLATION GUIDELINES OR PRODUCT TESTING REQUIRED BY THE BUILDING OFFICIAL IF REQUESTED.
- 8. ALL CONSTRUCTION WORK AND DESIGN IS SUBJECT TO THE REVIEW AND INTERPRETATION OF THE BUILDING OFFICIALS CONTRACTOR ACKNOWLEDGES THAT ADDITIONAL ENGINEERING DETAILS. AND/OR REQUIREMENTS MAY BE REQUESTED/REQUIRED BY THE PERMITTING AUTHORITY HAVING JURISDICTION, AND SUCH REQUIREMENTS MAY ALTER THE ORIGINAL PROPOSED DESIGN THESE ADJUSTMENTS COULD SUBJECT THE CONTRACTOR TO ADDITIONAL EXPENSES AND ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- HOMEOWNER ASSOCIATION, DEED RESTRICTIONS AND ZONING REQUIREMENTS, ETC ARE THE RESPONSIBILITY OF THE CONTRACTOR AND NO VERIFICATION OR COMPLIANCE IS EXPRESSED OR IMPLIED BY THE ENGINEER
- 10. THE STRUCTURE HAS BEEN DESIGNED TO BE SELF-SUPPORTING AND STABLE WHEN CONSTRUCTION IS COMPLETE THE CONTRACTOR IS RESPONSIBLE FOR ERECTION PROCEDURES AND SEQUENCE OF SUCH TO PROVIDE SAFETY OF WORKERS, THE BUILDING AND ALL COMPONENTS OF THE BUILDING ALL TEMPORARY BRACING IS THE RESPONSIBILITY OF THE CONTRACTOR
- 11. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE POSITIVE DRAINAGE FROM THE STRUCTURE OR BUILDING TO ALL APPLICABLE CODES AND ORDINANCES SITE DRAINAGE IS ALSO THE CONTRACTORS RESPONSIBILITY THE ENGINEER HAS ACKNOWLEDGED NO REVIEW, COMMENT OR COMPLIANCE.
- 12. NO ENVIRONMENTAL STUDIES HAVE BEEN PERFORMED BY THE ENGINEER, AND IF REQUIRED ARE THE RESPONSIBILITY OF THE CONTRACT.
- 13. THE DESIGN OF ALL PRE-ENGINEERED ROOF TRUSSES INCLUDING GIRDERS FLOOR TRUSSES, AND ALL BEAMS ARE TO BE DESIGNED TO MEET THE 2015 IBC (w/ STATE AMENDMENTS) AND ASCE 7-16 THE DESIGN IS TO INDICATE THE ENGINEER OF RECORD WHO DESIGNED THEM AND BEAR THE SEAL OF SUCH ENGINEER. ALL LATERAL AND CROSS BRACING REQUIRED IS TO BE SPECIFIED BY THE DESIGNER THE TRUSS OR FLOOR SYSTEM DESIGN SHALL NOT EXERT LATERAL LOADS ON ANY WALL SYSTEM, INTERIOR OR EXTERIOR THE DESIGN IS TO ALSO INDICATE THE MAGNITUDE OF THE LOADS AND ANY PROVISIONS REQUIRED THE CONTRACTOR ASSUMES THE RESPONSIBILITY OF REVIEW OF THE PRE-ENGINEERED SYSTEMS AND ANY COMPLIANCE NECESSARY ANY DEVIATION FROM THE PROPOSED DESIGNS MAY REQUIRE ADDITIONAL REVIEW AND MODIFICATION.
- 14. ALL PERMANENT TRUSS BRACING, IN ADDITION TO TRUSS BRACING SPECIFIED BY THE TRUSS ENGINEER SHALL BE INSTALLED PER THE DETAIL IN THESE SHEETS, AND IN ACCORDANCE TO BWT-76 AND HIB-91
- 15. ALL MATERIAL INSTALLATIONS ARE TO BE PER THE CODES AND STANDARDS REFERENCED

008.FASCIA & SOFFIT VENTING

- 1. MINIMUM 2"x4" SUB FASCIA NAILED TO TRUSS TAILS w/(2) 16d NAILS AT EACH TRUSS (EACH PLY WHEN MULTIBLE
- 2. TYPICAL DRIP EDGE & SOFFIT/FASCIA INSTALLED TO MFG SPECIFICATIONS.
- 3. SEE ALUMINUM ENGINEERING SPECIFICATIONS SUPPLIED BY OTHERS FOR FASCIA OR OVERHANG REQUIREMENTS WHEN SCREEN ENCLOSURES OR STRUCTURAL GUTTERS ARE DESIGNED TO BE ATTACHED TO FASCIA NO VENTING IF USING SPRAY FOAM INSULATION.

009.GENERAL STRUCTURAL NOTES

- THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND THE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES. CHASES, HANGERS. INSERTS, ANCHORS, HOLES, AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING WORK. THE ENGINEER WILL NOT ADVISE ON NOR ISSUE DIRECTION AS TO SAFETY PRECAUTIONS AND PROGRAMS.
- 3. THE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHODS OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED SHORING, TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 4. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE METHODS, TECHNIQUES AND SEQUENCES OR PROCEDURES TO PERFORM THE WORK. THE SUPERVISION OF THE WORK IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- DRAWING INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION, WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, THE STANDARD DETAILS CONTAINED IN THE E.O.R. DETAIL SHEETS ATTACHED SHALL BE USED.
- LOADING APPLIES TO THE STRUCTURE DURING THE PROCESS OF CONSTRUCTION SHALL BE EXCEED THE SAFE FRAMING IS PROPERLY

010.GENERAL FOUNDATION NOTES

R403.1.4 MINIMUM DEPTH EXTERIOR FOOTINGS SHALL BE PLACED NOT LESS THAN 12 INCHES (305 MM) BELOW THE UNDISTURBED GROUND SURFACE. WHERE APPLICABLE, THE DEPTH OF FOOTINGS SHALL ALSO CONFORM TO SECTION R403.1.4.1.

R403.1.4.1 FROST PROTECTION

EXCEPT WHERE OTHERWISE PROTECTED FROM FROST, FOUNDATION WALLS, PIERS AND OTHER PERMANENT SUPPORTS OF BUILDINGS AND STRUCTURES SHALL BE PROTECTED FROM FROST BY ONE OR MORE OF THE FOLLOWING METHODS:

EXTENDED BELOW THE FROST LINE SPECIFIED IN TABLE R301.2.(1). CONSTRUCTED IN ACCORDANCE WITH SECTION R403.3.

CONNECTED TOGETHER AND UNTIL ALL TEMPORARY BRACING IS IN PLACE.

- 2.2. 2.3. CONSTRUCTED IN ACCORDANCE WITH ASCE 32.
- 2.4. ERECTED ON SOLID ROCK.
- FOOTINGS SHALL NOT BEAR ON FROZEN SOIL UNLESS THE FROZEN CONDITION IS PERMANENT

- PROTECTION OF FREE-STANDING ACCESSORY STRUCTURES WITH AN AREA OF 600 SQUARE FEET (56 M2) OR LESS, OF LIGHT-FRAME CONSTRUCTION, WITH AN EAVE HEIGHT OF 10 FEET (3048 MM) OR LESS SHALL NOT BE REQUIRED. PROTECTION OF FREE-STANDING ACCESSORY STRUCTURES WITH AN AREA OF 400 SQUARE FEET (37 M2) OR LESS, OF OTHER
- THAN LIGHT-FRAME CONSTRUCTION, WITH AN EAVE HEIGHT OF 10 FEET (3048 MM) OR LESS SHALL NOT BE REQUIRED. DECKS NOT SUPPORTED BY A DWELLING NEED NOT BE PROVIDED WITH FOOTINGS THAT EXTEND BELOW THE FROST LINE.

4. R403.3 FROST-PROTECTED SHALLOW FOUNDATIONS

FOR BUILDINGS WHERE THE MONTHLY MEAN TEMPERATURE OF THE BUILDING IS MAINTAINED AT NOT LESS THAN 64°F (18°C), FOOTINGS ARE NOT REQUIRED TO EXTEND BELOW THE FROST LINE WHERE PROTECTED FROM FROST BY INSULATION IN ACCORDANCE WITH FIGURE R403.3(1) AND TABLE R403.3(1). FOUNDATIONS PROTECTED FROM FROST IN ACCORDANCE WITH FIGURE R403.3(1) AND TABLE R403.3(1) SHALL NOT BE USED FOR UNHEATED SPACES SUCH AS PORCHES, UTILITY ROOMS, GARAGES AND CARPORTS, AND SHALL NOT BE ATTACHED TO BASEMENTS OR CRAWL SPACES THAT ARE NOT MAINTAINED AT A MINIMUM MONTHLY MEAN TEMPERATURE OF 64°F (18°C). MATERIALS USED BELOW GRADE FOR THE PURPOSE OF INSULATING FOOTINGS AGAINST FROST SHALL BE LABELED AS COMPLYING WITH

ABBREVIATIONS

ADD'L			EA.	=	EACH	
ARCH.	. =		E.E.	=	EACH E	
BAL.	=	-,	E.F.	=	EACH F	
B.L.	=	2	E.J.	=		SION JOINT
BOT.	=		EL.	=	ELEVA	
C.J.	=			=	ELECTI	
С	=	*	E.W.	=	EACH V	
CA	=		E.O.S.	=		OF STRUCTURAL SLAB
CB	=	**-************************************	E.O.D.	=		OF DECK
C.C.	=	0=:::=:: 0 0=:::=:		=	EQUIVA	ALENT
CL.	=	CLEAR	FIN.	=	FINISHI	
COL.	=	• • • • • • • • • • • • • • • • • • • •	FL.	=	FLOOR	
CONC	;. =	CONCRETE	FTG.	=	FOOTIN	
CONN]. =	•••••	HORIZ.	=	HORIZO	
CONS	TR. =	CONSTRUCTION	H.D.G.	=	HOT DI	P GALVANIZED
CONT	_ =		H.P.	=	HIGH P	OINT
DET.	=		JT.	=	JOINT	
DIA.	=	DIAMETER	JS.	=		SUBSTITUTES
DWG.	=	DRAWING	L.L.H.	=		LEG HORIZONTAL
DWLS	=	DOWELS	L.L.V.	=	LONG L	LEG VERTICAL
L.P.	=	LOW POINT		SIM.	=	SIMILAR
LT.	=	LIGHT		S.J.	=	SOFT JOINT
L.W.	=	LIGHT WEIGHT		S.O.G.	=	SLAB ON GRADE
MAX.	=	MAXIMUM		SQ.	=	SQUARE
M.C.	=	MOMENT CONNECT	ION	S.S.	=	STAINLESS STEEL
MFR.	=	MANUFACTURER		ST.	=	STEEL
MIN.	=	MINIMUM		STD.	=	STANDARD
N.F.	=	NEAR FACE		STIFF.	=	STIFFENER
N0.	=	NUMBER		S.W.	=	SHORT WAY
NTS	=	NOT TO SCALE		SYM.	=	SYMMETRICAL
O.C.	=	ON CENTER		T&B	=	TOP & BOTTOM
OPNG	. =	OPENING		T.O.F.	=	TOP OF FOOTING
P.A.F.	=	POWDER ACTUATED	FASTENERS	T.O.ST.	=	TOP OF STEEL
P.C.	=	PRECAST CONCRET	Έ	TYP.	=	TYPICAL
PL	=	PLATE		U.O.N.	=	UNLESS OTHERWISE NOTED
P.T.	=	PRESSURE TREATE	D	VERT.	=	VERTICAL
REINF.	. =	REINFORCEMENT		V.I.F.	=	VERIFY IN FIELD
REQD.	. =	REQUIRED		W.P.	=	WORKING POINT
SCHE	D. =	SCHEDULE		WT.	=	WEIGHT
SECT.	. =	SECTION		W.W.F.	=	WELDED WIRE FABRIC
B.O.B	=	BOTTOM OF BEAM		A.F.F.	=	ABOVE FINISHED FLOOR
B.O.L	=	BOTTOM OF LINTEL		A.G.F.	=	ABOVE GRADE FINISH
R.C.C.	. =	REINFORCED CEME	NT CONCRETE	A.O.I .	-	VPOAT OLVUNT LIMINIT

REV 4: REV 5: REV 2: REV 3: REV 6: DRAWN BY: VS

CHECKED BY: SP PROJECT #: 2324201

SCALE: AS PER PLAN

SHEET TITLE:

& NOTES

SHEET NUMBER:

R318.1 SUBTERRANEAN TERMITE CONTROL METHODS

IN AREAS SUBJECT TO DAMAGE FROM TERMITES AS INDICATED BY TABLE R301.2(1), PROTECTION SHALL BE BY ONE, OR A COMBINATION. OF THE FOLLOWING METHODS:

- 1. CHEMICAL TERMITICIDE TREATMENT IN ACCORDANCE WITH SECTION R318.2.
- 2. TERMITE-BAITING SYSTEM INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE LABEL
- 3. PRESSURE-PRESERVATIVE-TREATED WOOD IN ACCORDANCE WITH THE PROVISIONS OF SECTION R317.1
- 4. NATURALLY DURABLE TERMITE-RESISTANT WOOD.
- 5. PHYSICAL BARRIERS IN ACCORDANCE WITH SECTION R318.3 AND USED IN LOCATIONS AS SPECIFIED IN SECTION R317.1.
- 6. COLD-FORMED STEEL FRAMING IN ACCORDANCE WITH SECTIONS R505.2.1 AND R603.2.1.

R318.1.1 QUALITY MARK

LUMBER AND PLYWOOD REQUIRED TO BE PRESSURE-PRESERVATIVE TREATED IN ACCORDANCE WITH SECTION R318.1 SHALL BEAR THE QUALITY MARK OF AN APPROVED INSPECTION AGENCY THAT MAINTAINS CONTINUING SUPERVISION, TESTING AND INSPECTION OVER THE QUALITY OF THE PRODUCT AND THAT HAS BEEN APPROVED BY AN ACCREDITATION BODY THAT COMPLIES WITH THE REQUIREMENTS OF THE AMERICAN LUMBER STANDARD COMMITTEE TREATED WOOD PROGRAM.

R318.1.2 FIELD TREATMENT

FIELD-CUT ENDS, NOTCHES AND DRILLED HOLES OF PRESSURE-PRESERVATIVE-TREATED WOOD SHALL BE RETREATED IN THE FIELD IN ACCORDANCE WITH AWPA M4.

R318.2 CHEMICAL TERMITICIDE TREATMENT

CHEMICAL TERMITICIDE TREATMENT SHALL INCLUDE SOIL TREATMENT OR FIELD-APPLIED WOOD TREATMENT. THE CONCENTRATION, RATE OF APPLICATION AND METHOD OF TREATMENT OF THE CHEMICAL TERMITICIDE SHALL BE IN STRICT ACCORDANCE WITH THE TERMITICIDE LABEL.

R318.3 BARRIERS

APPROVED PHYSICAL BARRIERS, SUCH AS METAL OR PLASTIC SHEETING OR COLLARS SPECIFICALLY DESIGNED FOR TERMITE PREVENTION, SHALL BE INSTALLED IN A MANNER TO PREVENT TERMITES FROM ENTERING THE STRUCTURE. SHIELDS PLACED ON TOP OF AN EXTERIOR FOUNDATION WALL SHALL BE USED ONLY IF IN COMBINATION WITH ANOTHER METHOD OF PROTECTION.

R318.4 FOAM PLASTIC PROTECTION

IN AREAS WHERE THE PROBABILITY OF TERMITE INFESTATION IS "VERY HEAVY" AS INDICATED IN FIGURE R301.2(7), EXTRUDED AND EXPANDED POLYSTYRENE, POLYISOCYANURATE AND OTHER FOAM PLASTICS SHALL NOT BE INSTALLED ON THE EXTERIOR FACE OR UNDER INTERIOR OR EXTERIOR FOUNDATION WALLS OR SLAB FOUNDATIONS LOCATED BELOW GRADE. THE CLEARANCE BETWEEN FOAM PLASTICS INSTALLED ABOVE GRADE AND EXPOSED EARTH SHALL BE NOT LESS THAN 6 INCHES (152 MM).

EXCEPTIONS:

- 1. BUILDINGS WHERE THE STRUCTURAL MEMBERS OF WALLS, FLOORS, CEILINGS AND ROOFS ARE ENTIRELY OF NONCOMBUSTIBLE MATERIALS OR PRESSURE-PRESERVATIVE-TREATED WOOD.
- 2. WHERE IN ADDITION TO THE REQUIREMENTS OF SECTION R318.1, AN APPROVED METHOD OF PROTECTING THE FOAM PLASTIC AND STRUCTURE FROM SUBTERRANEAN TERMITE DAMAGE IS USED.
- 3. ON THE INTERIOR SIDE OF BASEMENT WALLS.

CONCRETE / MASONRY NOTES

- 1. ALL CONCRETE SHALL BE F'c = 4000 PSI. U.N.O. IN CONCRETE NOTES AND FOLLOWING SHEETS
- 2. MASONRY SHALL USE TYPE S MORTAR, F'm = 1900 PSI, U.N.O IN 004 ON SHEET G-1
- 3. REINFORCING STEEL SHALL SATISFY ASTM A615, GRADE 60.
- 4. WHERE INDICATED ON FLOOR PLANS, PROVIDE CONCRETE FILLED CELL WITH REINFORCING STEEL FROM FOOTING TO TIE BEAM HOOKED & TIED BEFORE INSPECTION. IF GROUT LIFT EXCEEDS 4'-0", AN INSPECTION HOLE TO VERIFY GROUTING SHALL BE PROVIDED AT THE BOTTOM CELL.
- 5. PROVIDE (1) #5 VERTICAL REINFORCING STEEL ELECTRICAL GROUND TO FOUNDATION STEEL.
- 6. FOUNDATION DOWELS AND VERTICAL REINFORCING SPACES AS SHOWN ON FLOOR PLANS. IN THE EVENT OF CONFLICTS, THE FLOOR PLANS SHALL TAKE PRECEDENCE OVER THE FOUNDATION PLAN. ALL FOOTINGS TO BE SMOOTH AND LEVEL.
- 7. LAP LENGTH OF INDIVIDUAL BARS WITHIN A BUNDLE SHALL BE THAT FOR THE INDIVIDUAL BAR, INCREASED 20% FOR THREE-BAR BUNDLE, AND 33% FOR FOUR-BAR BUNDLE.
- 8. INDIVIDUAL BARS WITHIN A BUNDLE TERMINATED WITHIN THE SPAN OF THE BEAM SHALL TERMINATE AT DIFFERENT POINTS WITH AT LEAST 40Db STAGGER.
- 9. A FILLED CELL WITH (1) #5 VERTICAL SHALL BE LOCATED AT GIRDER TRUSSES.

10. MINIMUM COVER FOR CAST IN PLACE CONCRETE AS BELOW:	
10.1. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3 IN.
10.2. CONCRETE EXPOSED TO EARTH OR WEATHER:	
10.2.1. #6 THROUGH #18 REBAR:	2 IN.
10.2.2. #5 REBAR, W31 OR D31 WIRE AND SMALLER:	1 ½ IN.
10.3. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUN	ID:
10.3.1. SLABS, WALLS, JOISTS:	
10.3.1.1. #14 AND #18 REBARS:	1 ½ IN.
10.3.1.2. #11 REBAR AND SMALLER:	³ / ₄ IN.
10.3.2. BEAMS, COLUMNS:	4
10.3.2.1. PRIMARY TIES, REINFORCEMENTS, STIRRUPS, SPIRALS:	1 ½ IN.
	_

- 11. EMBEDDED TRUSS ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
- 12. EMBEDDED ANCHORS/TIEDOWNS SHALL MIN 3" COVER.
- 13. MASONRY WALLS SHALL BE BRACED IN ACCORDANCE WITH "STANDARD PRACTICE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION" MASON CONTRACTORS ASSOCIATION OF AMERICA, JULY 2001.
- 14. THE CONCRETE TIE BEAM AT THE TOP OF ALL WALLS SHALL BE AN 8" X 16" WITH (1) #5 CONTINUOUS TOP AND BOTTOM. (U.N.O.)
- 15. BEAM SIZES SHOWN ON DRAWINGS ARE MINIMUM NOMINAL DIMENSIONS. BEAMS SIZES MAY BE INCREASED BY UP TO 12" TO ACCOMMODATE ON-SITE BEAM REQUIREMENTS PROVIDED THAT THE DISTANCE BETWEEN THE TOP AND BOTTOM REINFORCING STEEL REMAINS THE SAME OR IS INCREASED.
- 16. REINFORCING STEEL LAP LENGTH IN CONCRETE AND/OR MASONRY SHALL BE:

#5 REBAR: 27" #6 REBAR: 32" #7 REBAR: 36"

- 17. CMU WALL SECTIONS 4 FOOT OR GREATER IN LENGTH w/ VERTICAL REBAR IN IN A FILLED CELL @ EACH END SHALL BE CONSIDERED A SHEAR WALL. A FILLED CELL w/ VERTICAL REBAR SHALL BE @ EACH SIDE OF ALL OPENINGS, WINDOWS & DOORS & UNDER ALL GIRDER TRUSSES
- 18. MISSING DOWEL:

PRE-DRILL HOLE TO MIN. 8" DEPTH, CLEAN HOLE w/ AIR COMPRESSER, FILL HOLE $\frac{1}{2}$ TO $\frac{2}{3}$ RDS FULL STARTING FROM BOTTOM OF HOLE TO PREVENT AIR POCKETS, DOWEL MUST BE CLEAN & OIL FREE, SLOWLY TURN UNTIL DOWEL CONTACTS THE BOTTOM OF THE HOLE AT FOOTING. ALLOW 24 HOUR CURE TIME. USE ONLY HIGH STRENGTH EPOXY (HILTI HY-150)

19. WHEN CLAY OR OTHER UNSUITABLE SOILS ARE ENCOUNTERED IN FOOTING EXCAVATIONS, CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD. EOR SHALL DETERMINE THE NEED FOR SOILS INVESTIGATION & ANY MODIFICATIONS TO THE FOUNDATION DESIGN AS NECESSARY.

FLOOD VENTING (IF APPLICABLE):

A MINIMUM OF TWO (2) FEMA APPROVED VENTS PER ENCLOSED AREA & EACH MUST BE ON AT LEAST TWO (2) DIFFERENT SIDES OF THE EXTERIOR WALLS. THE BOTTOM OF THE FLOOD VENT OPENING MUST BE NOT HIGHER THAN 12 INCHES ABOVE THE ADJACENT GRADE & THE TOP OF THE OPENING MUST BE BELOW THE BASE FLOOD ELEVATION (B.F.E.). THE AMOUNT OF VENTS REQUIRED SHALL BE CALCULATED BY THE FOLLOWING; (1) SQ. INCH OF VENT FOR EVERY (1) SQ. FOOT OF ENCLOSED SPACE BELOW THE BASE FLOOD ELEVATION.

REV 1:	REV 4:	
REV 2:	REV 5:	
REV 3:	REV 6:	
DRAWN BY: VS		
CHECKED	BY: SP	

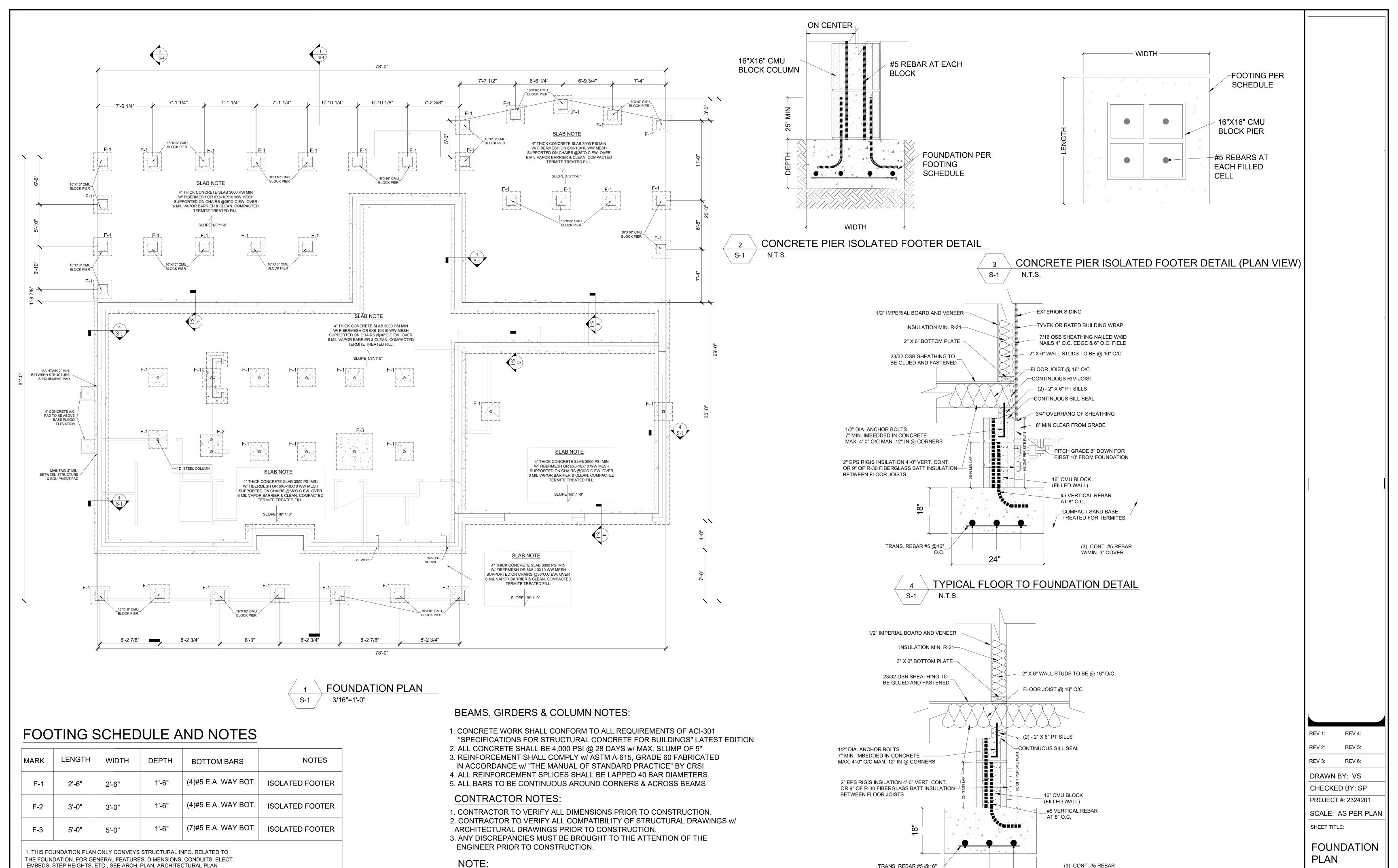
SCALE: AS PER PLAN

PROJECT #: 2324201

COVER
SHEETS
& NOTES

SHEET NUMBER:

G-2



IT IS ACCEPTABLE TO USE SIMILAR SIZE SPF IN LUE OF SYP #2 FOR

ALL BEAMS, POSTS AND STUDS PROVIDED ON THIS PLAN SET.

SHOWN HERE IN FOR REFERENCE ONLY.

2. FTGS. & FND. SHALL BE IN ACCORDANCE w/ LOCAL BUILDING CODES.

MODIFIED PROCTOR IN ACCORDANCE WITH ASTM D 1557.

3. SOIL COMPACTION AND FILL SHALL BE COMPACTED TO A MIN. OF 95%

TRANS. REBAR #5 @16"

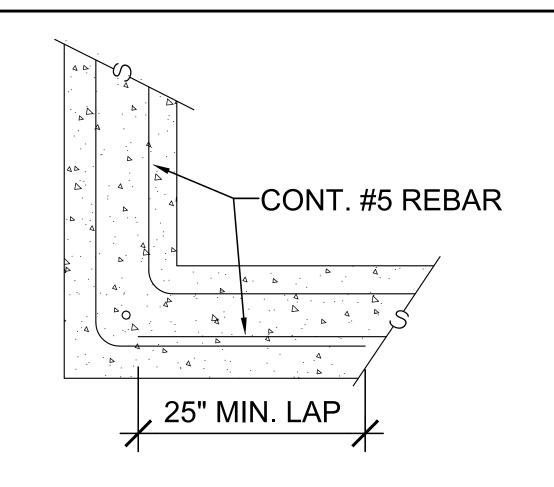
N.T.S.

S-1

W/MIN. 3" COVER

TYPICAL FLOOR TO FOUNDATION DETAIL

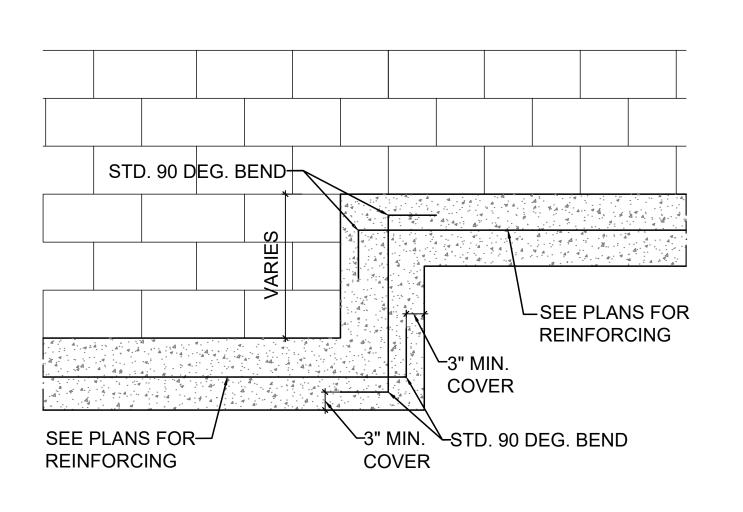
SHEET NUMBER:



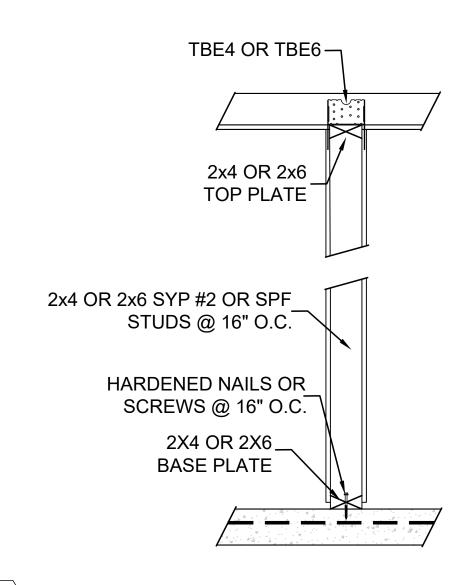


CONTRACTION(CONTROL) JOINT

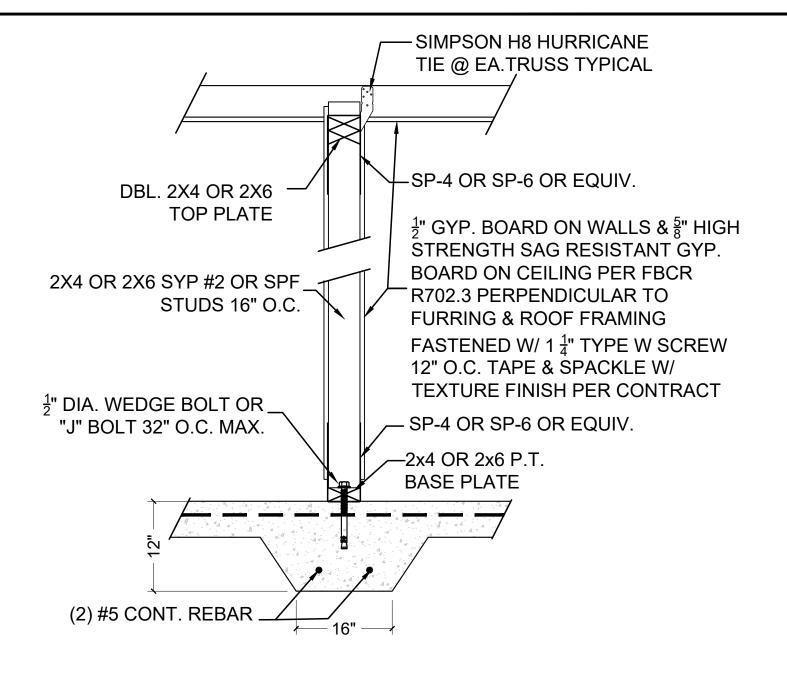
N.T.S.



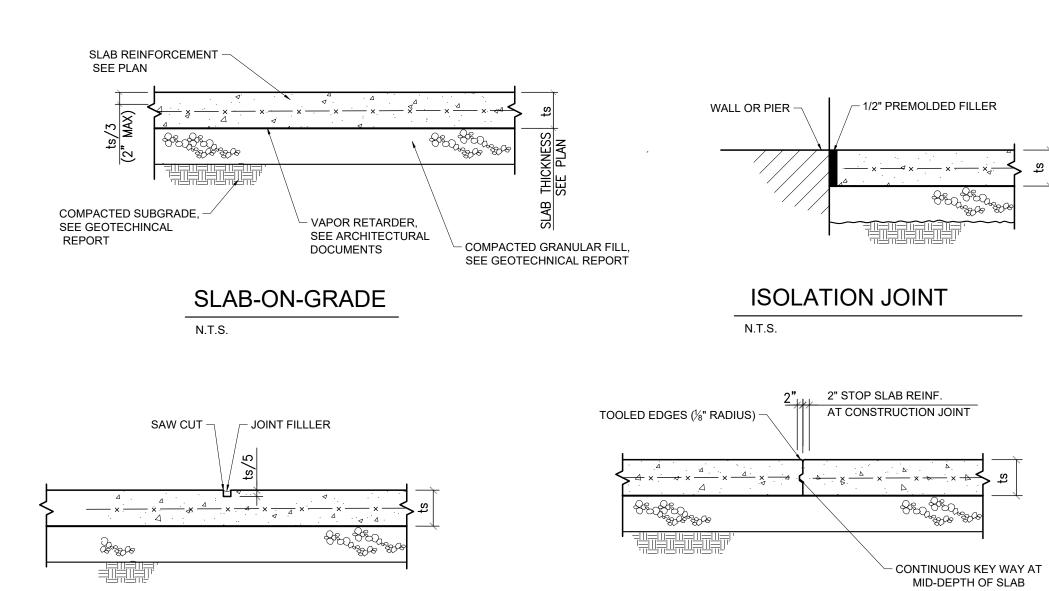
STEP FOOTER DETAIL (TYP)
S-1.1 NTS



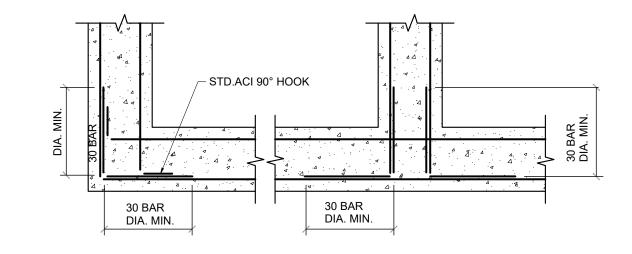
3 NON LOAD BEARING INTERIOR WOOD FRAMED WALL DETAIL N.T.S.



4 LOAD BEARING INTERIOR FRAMED WALL N.T.S.



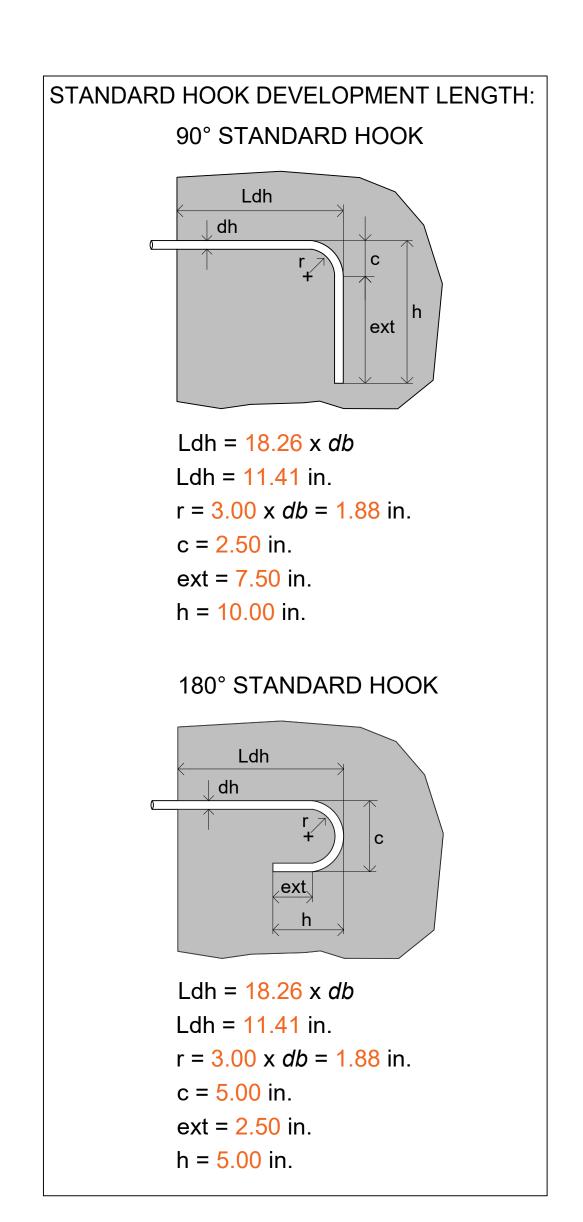
CONSTRUCTION JOINT



CONC. INTERSECTION DOWELS

N.T.S.





REV 1: REV 4:
REV 2: REV 5:
REV 3: REV 6:
DRAWN BY: VS
CHECKED BY: SP
PROJECT #: 2324201
SCALE: AS PER PLAN

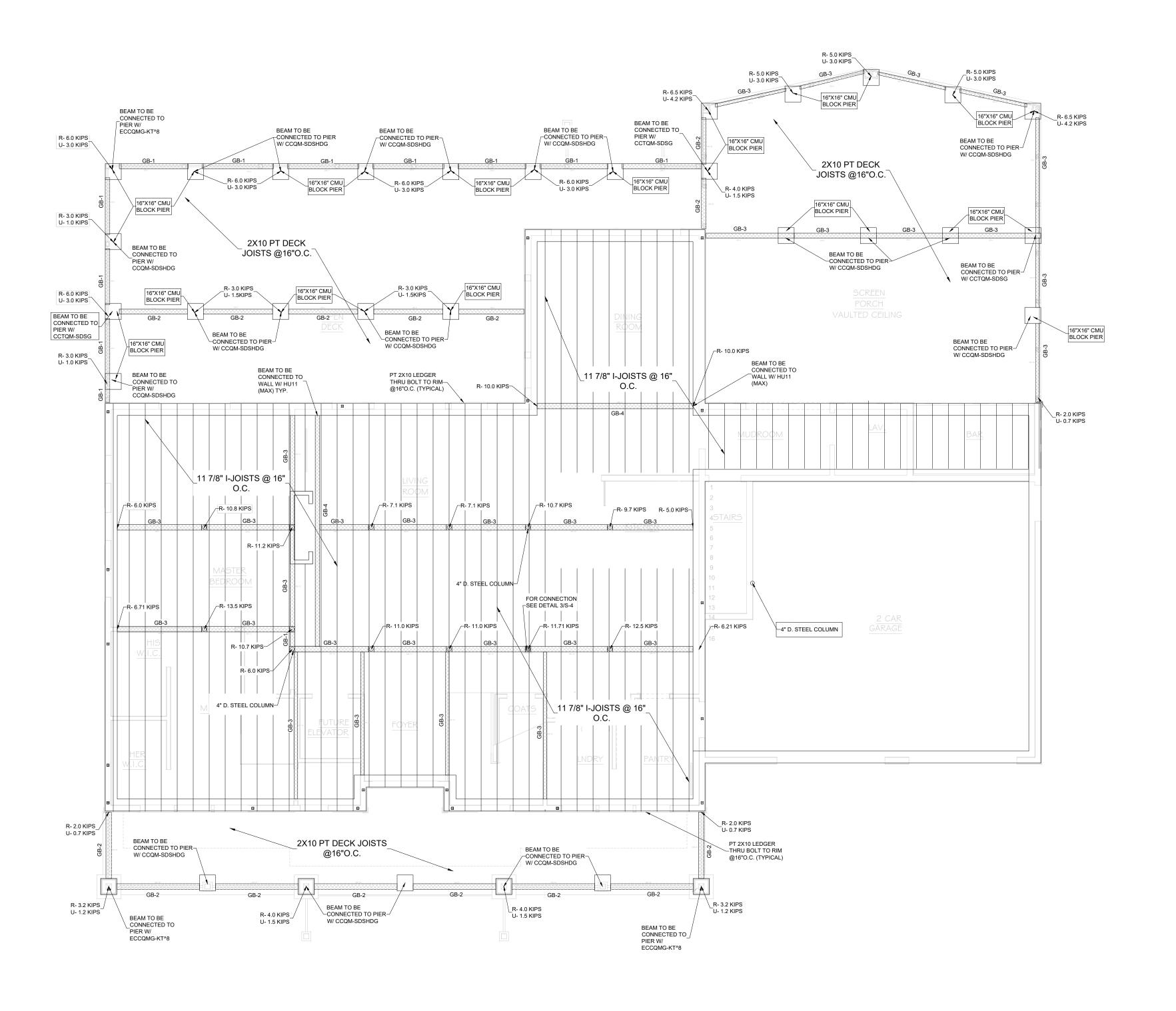
DETAILS &

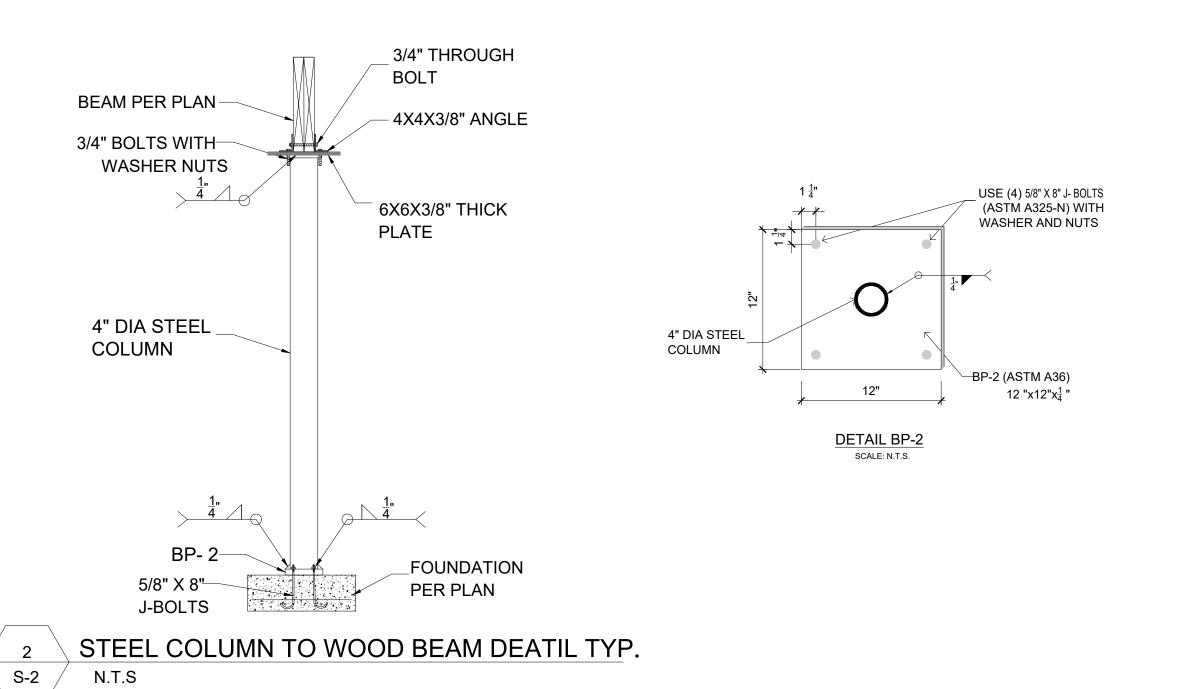
NOTES

SHEET TITLE:

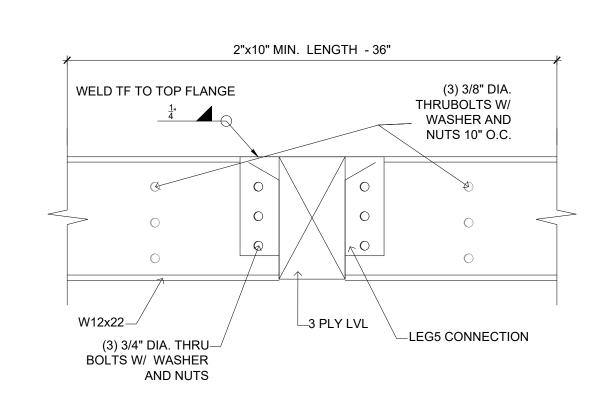
SHEET NUMBER:

S-1.1





 $\frac{1}{4}$ WELD TF TO TOP FLANGE 3 PLY LVL-FILL WITH 2"x10"— & PLYWOOD CON. TO STEEL BEAM WEB W/ (3) 3/8" DIA. THRU BOLTS W/ WASHER AND NUTS 10" O.C. W12x22-LEG5 CONNECTION-



FRONT VIEW

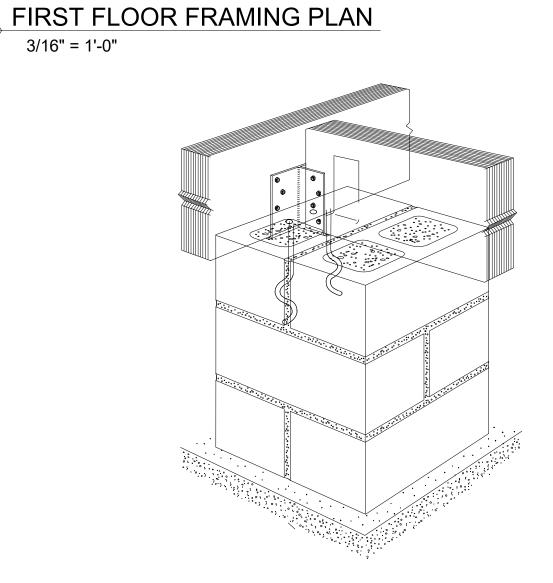
SIDE VIEW

(3) PLY LVL BEAM TO W-STEEL BEAM NTS S-2

_			
M SCHEDULE			
	BEAM SIZE		
_			

BEAM SCHEDULE		
SECTION	BEAM SIZE	
GB-1	(3) 2X10 SYP #2	
GB-2	(3) 2X12 SYP #2	
GB-3	(2) 1 3/4"X 11 7/8" 2.0E LVL	
GB-4	(3) 1 3/4"X 11 7/8" 2.0E LVL	
GB-4	(3) 1 3/4"X 11 7/8" 2.0E LV	

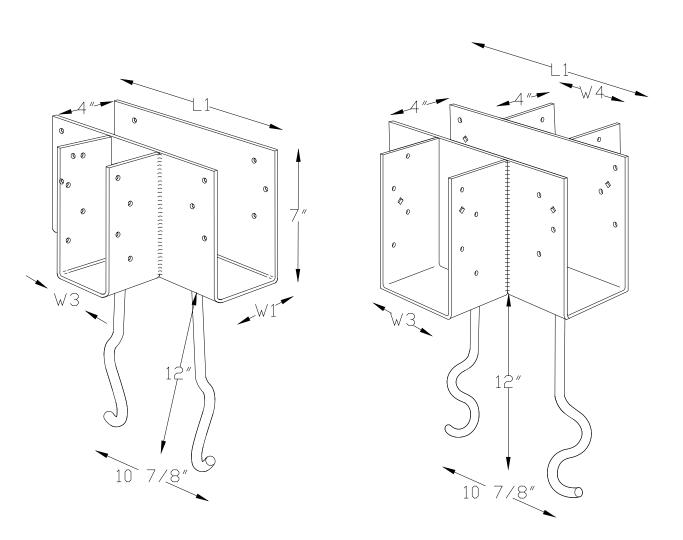
NOTE: PROVIDE 2X4 SYP #2 WITH TAPCON TO INCREASE THE BEARING LENGTH OF THE BEAM



3/16" = 1'-0"

S-2

TYPICAL CCTQM INSTALLATION



TYPICAL CCTQM, CCCQM

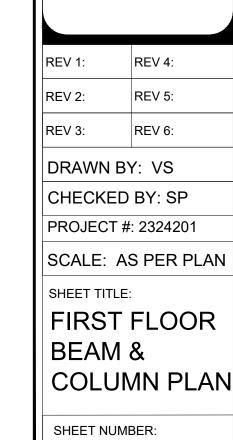
	REV 1:	REV 4:		
	REV 2:	REV 5:		
	REV 3:	REV 6:		
	DRAWN BY: VS			
	CHECKED BY: SP			
۱	PROJECT #: 2324201			

SCALE: AS PER PLAN SHEET TITLE: FIRST FLOOR

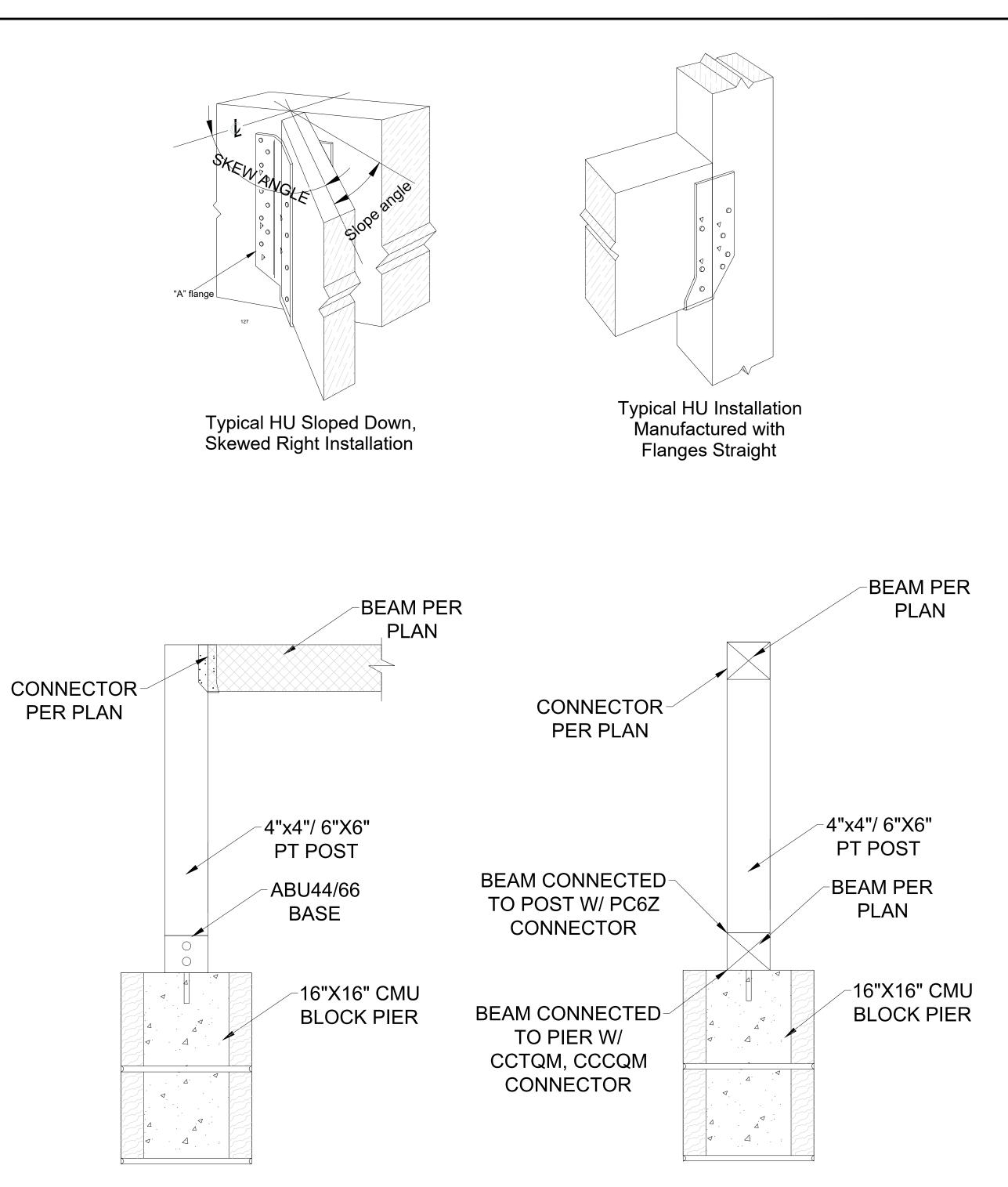
FRAMING PLAN

SHEET NUMBER:





S-3



TYPICAL PT POST CONNECTION DETAILS

78'-0" 35'-0 1/2" 28'-3 1/2" 14'-8" 7'-5 3/4" 7'-2 1/4" 14'-1 3/4" 14'-1 3/4" R- 3.5 KIPS / U- 1.4 KIPS R- 3.5 KIPS U- 1.4 KIPS R- 3.5 KIPS U- 1.4 KIPS R- 5.5 KIPS U- 2.2 KIPS R- 4.16 KIPS U- 2.3 KIPS R- 6.0 KIPS U- 3.0 KIPS R- 4.16 KIPS R- 2.1 KIPS U- 2.3 KIPS U- 1.2 KIPS R- 4.16 KIPS_ U- 2.3 KIPS R- 4.16 KIPS_ U- 2.3 KIPS R- 4.0 KIPS U- 1.5 KIPS R- 2.0 KIPS_ U- 1.0 KIPS_ R- 4.0 KIPS B-1 U- 1.5 KIPS R- 6.0 KIPS U- 3.0 KIPS R- 4.0 KIPS U- 1.5 KIPS 6X6 P.T POST TYP. R- 4.0 KIPS U- 1.5 KIPS R- 1.0 KIPS U- 0.5 KIPS R- 5.6 KIPS U- 2.3 KIPS R- 2.0 KIPS U- 0.7 KIPS R- 9.2 KIPS-R- 12.88 KIPS~ R- 5.0 KIPS R- 4.47 KIPS-SEE 3/ S-2 DETAIL FOR CONNECTION _R- 12.5 KIPS /-R- 12.5 KIPS HSS 4"X4"X3/8"-FOR CONNECTION SEE DETAIL 3/S-4 _R- 21.2 KIPS R- 2.8 KIPS_ U- 2.3 KIPS B-2 R- 2.0 KIPS U- 0.7 KIPS R- 2.0 KIPS R- 2.5 KIPS_ U- 1.8 KIPS \ R- 4.0 KIPS_ U- 2.5 KIPS \ R- 2.5 KIPS_____ U- 1.8 KIPS R- 2.5 KIPS U- 1.8 KIPS R- 2.5 KIPS U- 1.8 KIPS R- 4.5 KIPS U- 4.0 KIPS R- 4.5 KIPS U- 4.0 KIPS R- 3.2 KIPS_ U- 1.2 KIPS 6'-6" 21'-9" 10'-6" 6'-6" 11'-0" 50'-0" 28'-0"

FIRST FLOOR BEAM & COLUMN PLAN S-3

-	HEADER

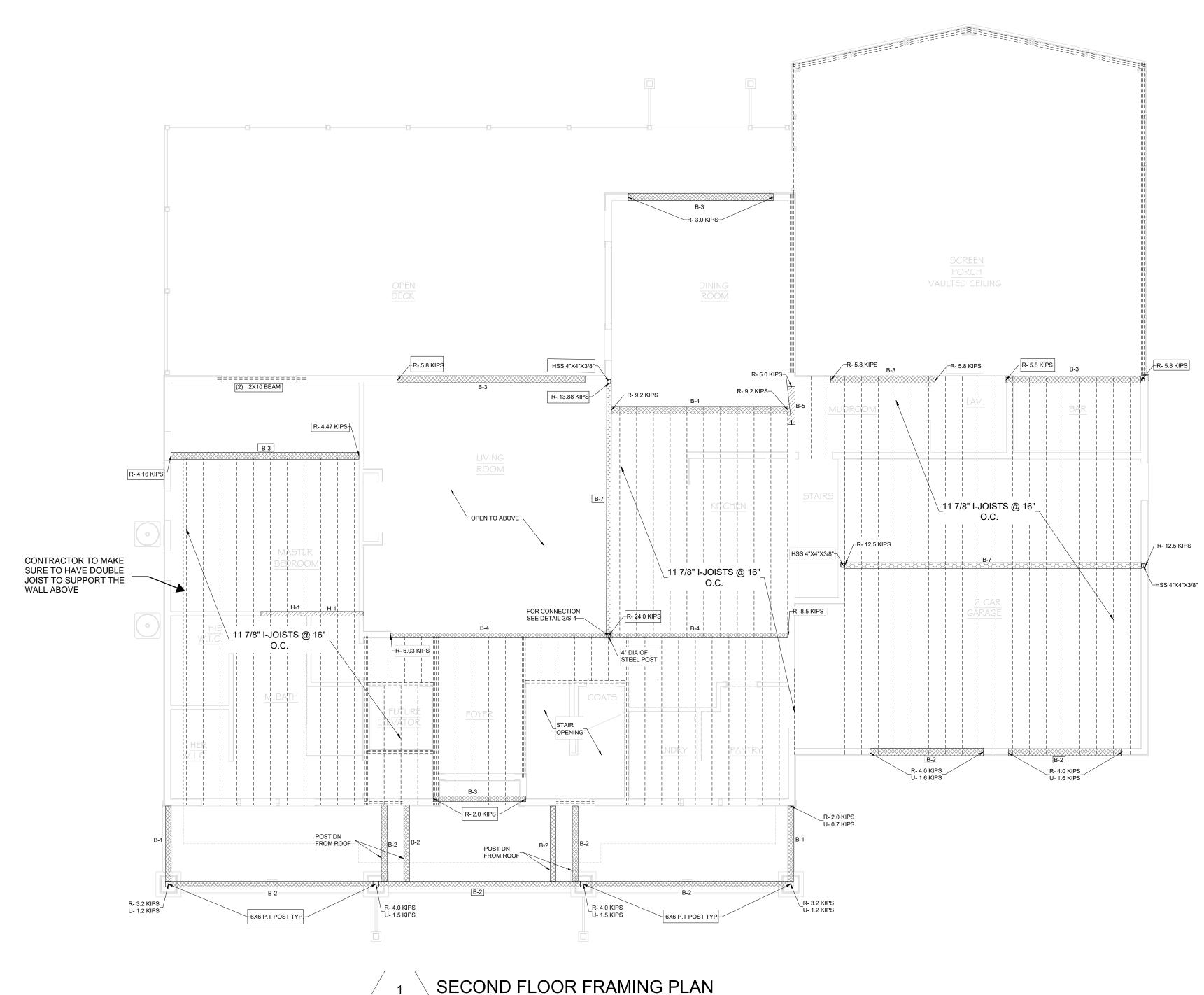
WOOD BEAM

STEEL BEAM

HEADER SCHEDULE		
SECTION	BEAM SIZE	
H-1	(2) 2X10 SYP #2	

CONNECTOR SCHEDULE			
MEMBER TO MEMBER		CONNECTOR	
B-1	4X4 POST,6X6 POST, WALL	HU210-2 , HUS210-2	
B-2	6X6 POST, WALL, BEAM	HU9	
B-3	6X6 POST, BEAM, WALL	HU11	
B-4	WALL	HU312-2	
B-6	BEAM	HU28-2	

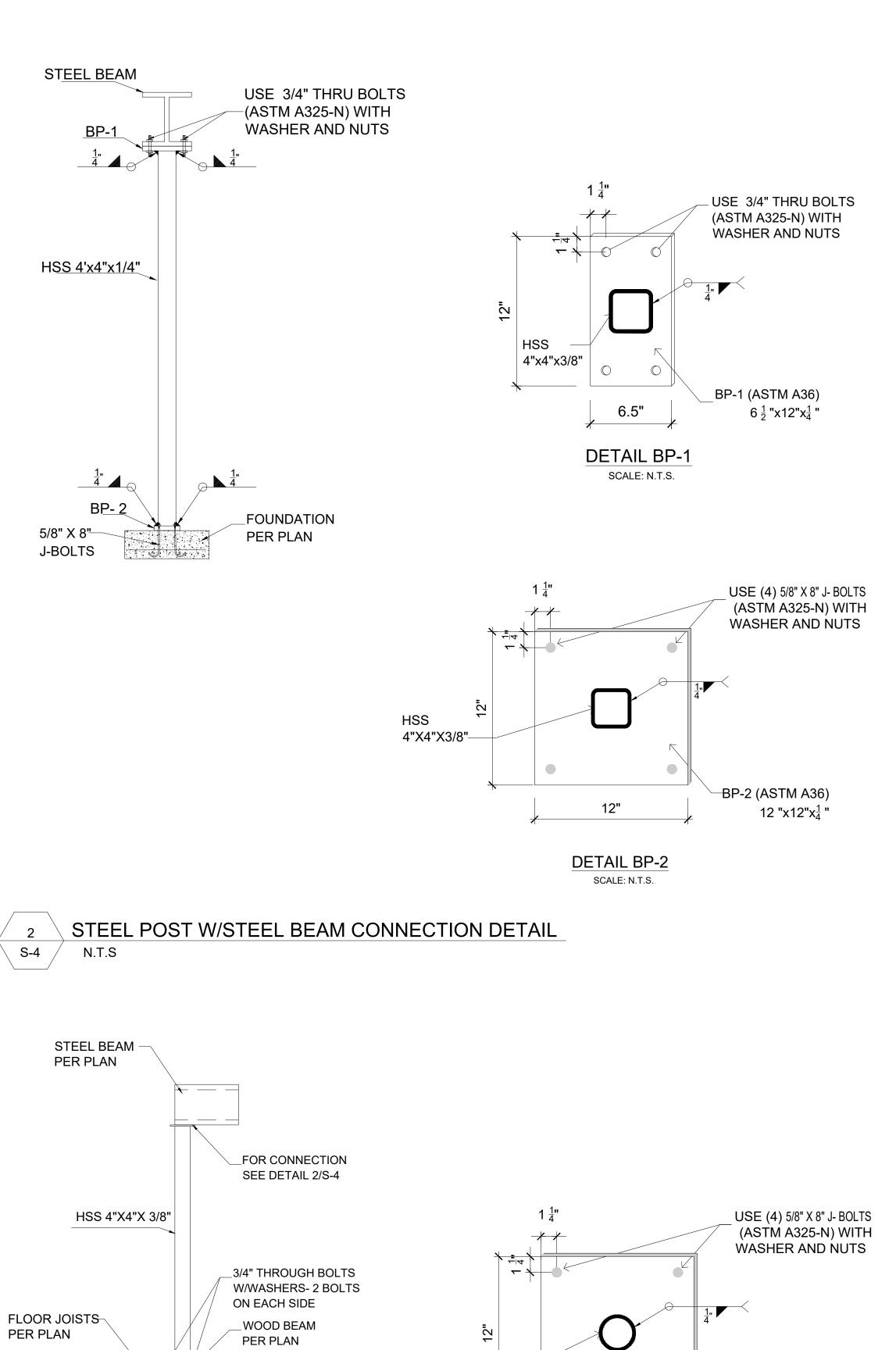
CONNECTOR S	CHEDULE	
TO MEMBER	CONNECTOR	
X4 POST,6X6 POST, WALL	HU210-2 , HUS210-2	
6 POST, WALL, BEAM	HU9	
OT OOT, WALL, DLAW	1109	
6 POST, BEAM, WALL	HU11	
WALL	HU312-2	
BEAM	HU28-2	
DEAIVI	Πυζο-ζ	

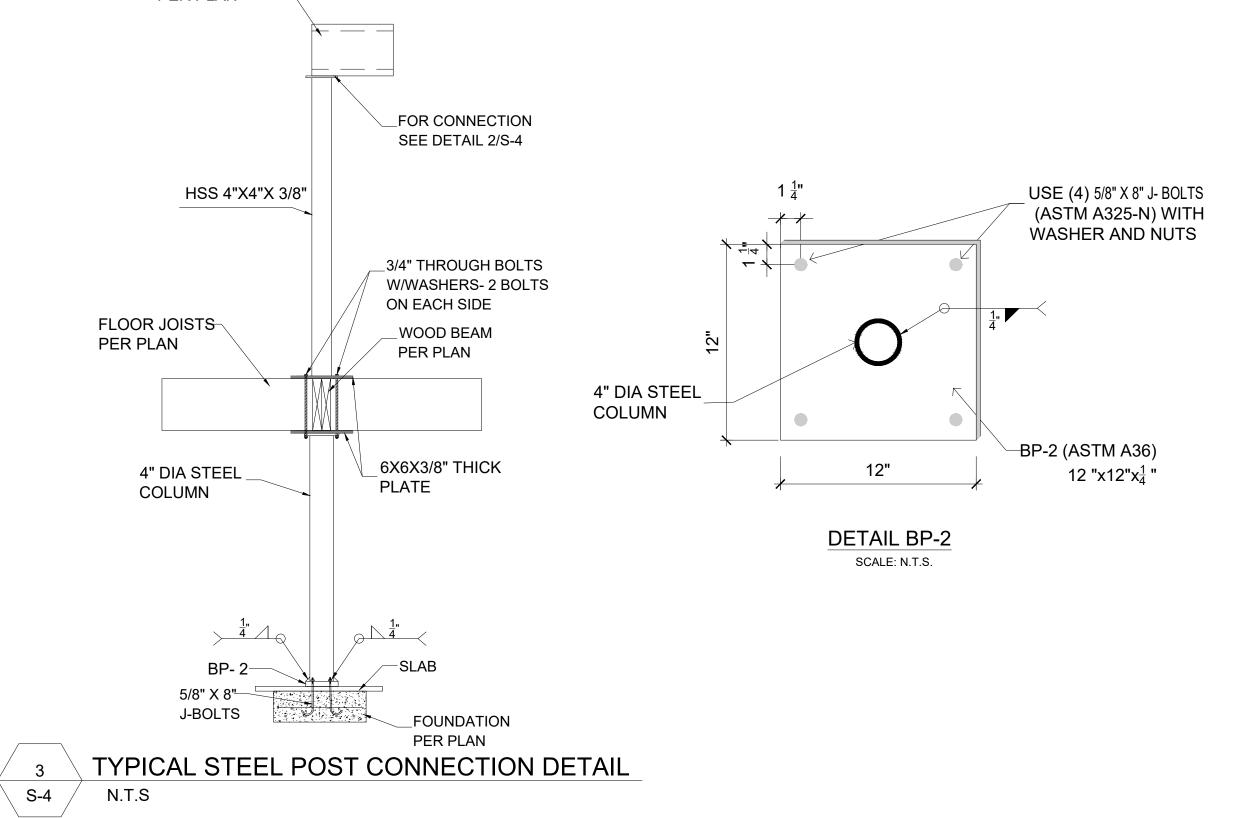


SECOND FLOOR FRAMING PLAN S-4 3/16" = 1'-0"

STEEL COLUMN SCHEDULE

SHAPE	SIZE	COLUMN BASE PLATE	J- BOLT	EMBEDMENT	TOP PLATE	WELD	
SC	HSS 4X4X ³ / ₈ "	PL 12X12X1/4"	(4) 5/8" X8"	8" MIN.	PL 6.5"X12"X3/8"	1/4" FILLET WELD	





SECOND **FLOOR** FRAMING PLAN

REV 1:

REV 2:

REV 3:

DRAWN BY: VS

SHEET TITLE:

CHECKED BY: SP

PROJECT #: 2324201

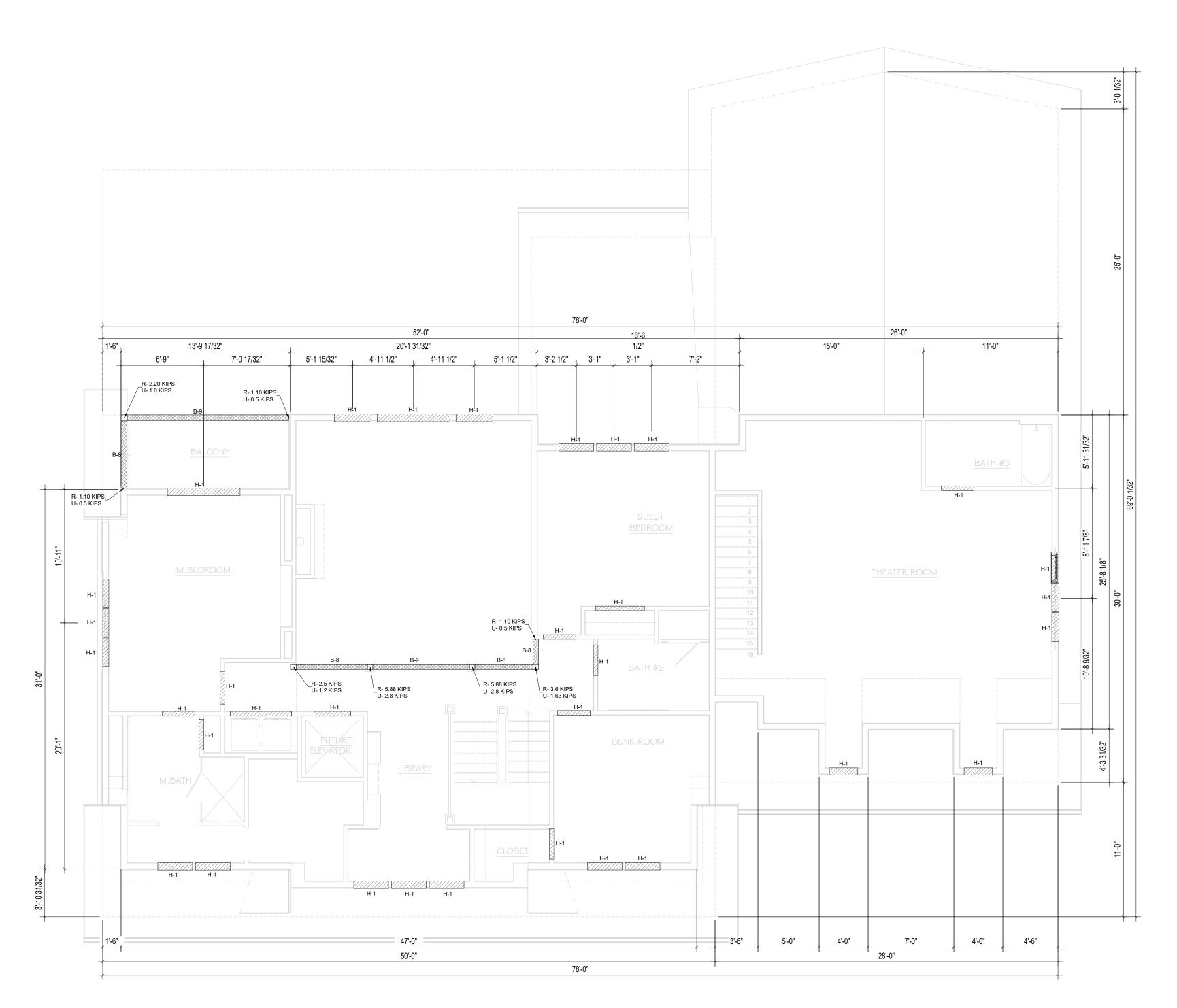
SCALE: AS PER PLAN

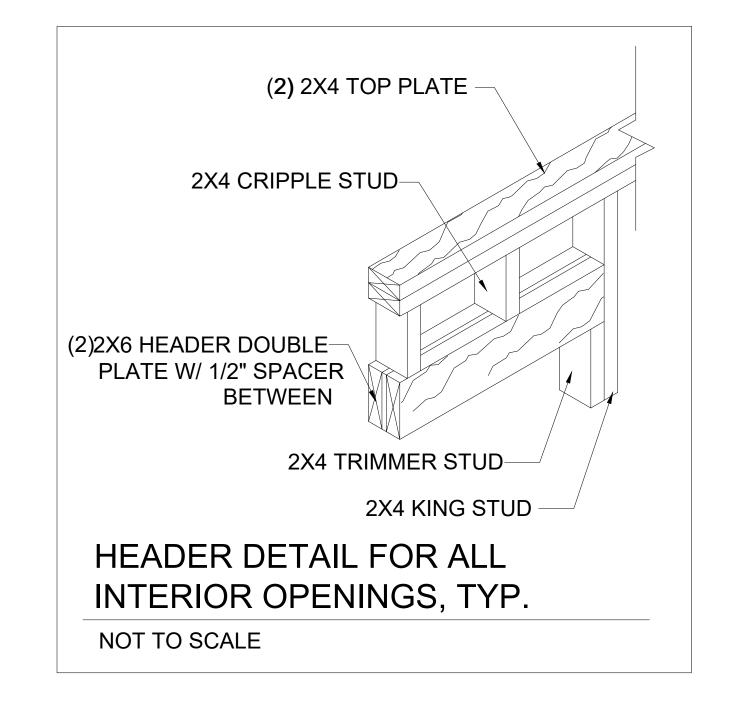
REV 4:

REV 5:

REV 6:

SHEET NUMBER:



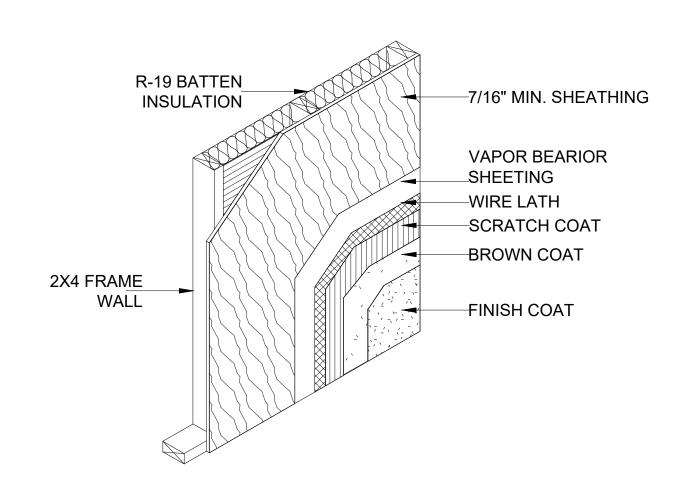




BEAM SCHEDULE								
SECTION	BEAM SIZE							
B-8	(2) 2X12 SYP #2							
B-9	(2) 1 3/4"X 9 1/4" 2.0E LVL							

HEADER SCHEDULE								
SECTION	BEAM SIZE							
H-1	(2) 2X10 SYP #2							

CONNECTOR SCHEDULE										
MEMBER	TO MEMBER CONNECTOR									
B-8	6X6 POST, WALL	HU212-2 , HUS212-2								
B-9	6X6 POST, WALL	HU9								



FRAME WALL STUCCO DETAIL

N.T.S

REV 1:	REV 4:						
REV 2:	REV 5:						
REV 3:	REV 6:						
DRAWN BY: VS							
CHECKED BY: SP							
PROJECT #: 2324201							
SCALE: AS PER PLAN							
SHEET TITLE:							

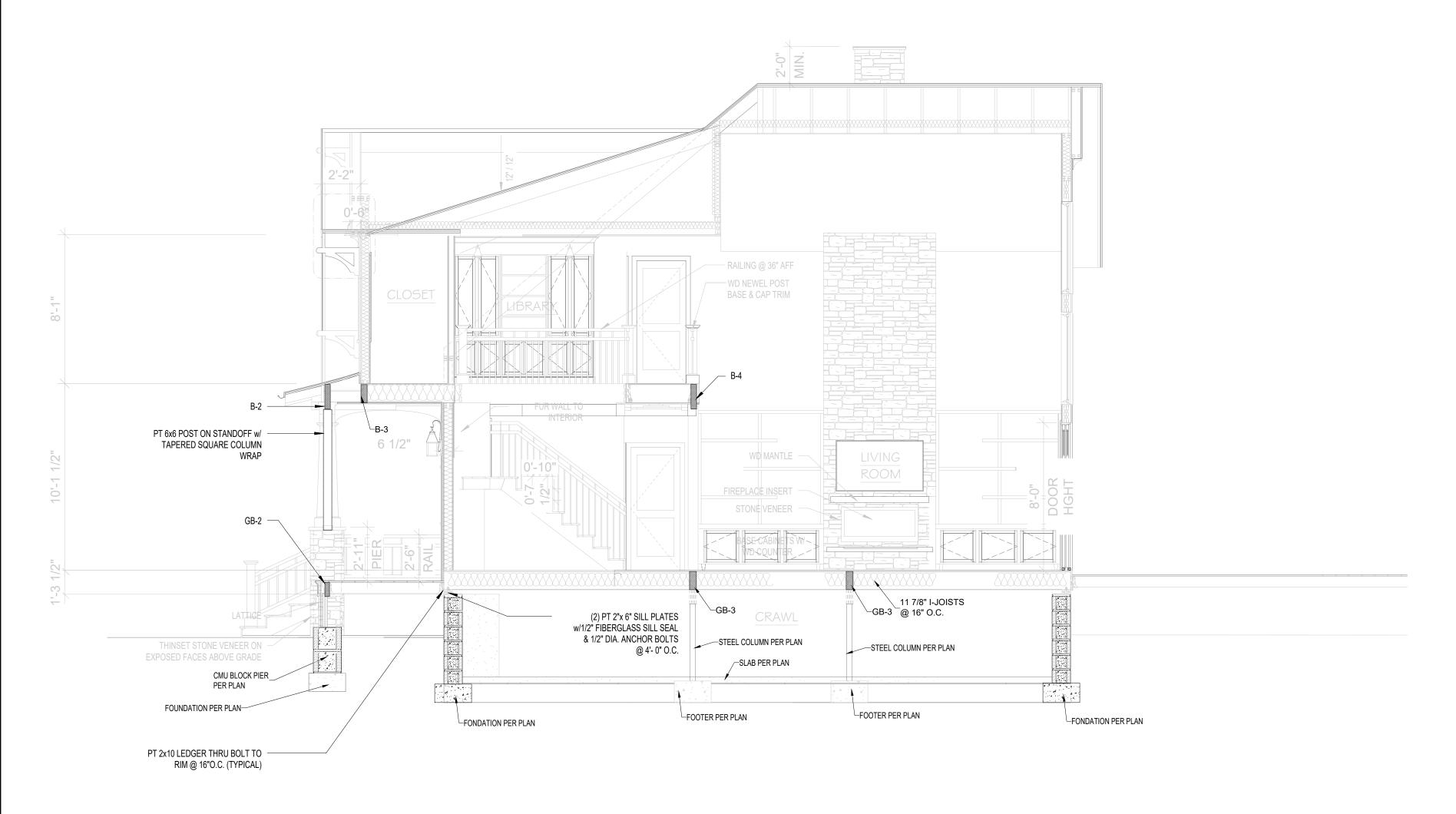
SHEET NUMBER:

SECOND

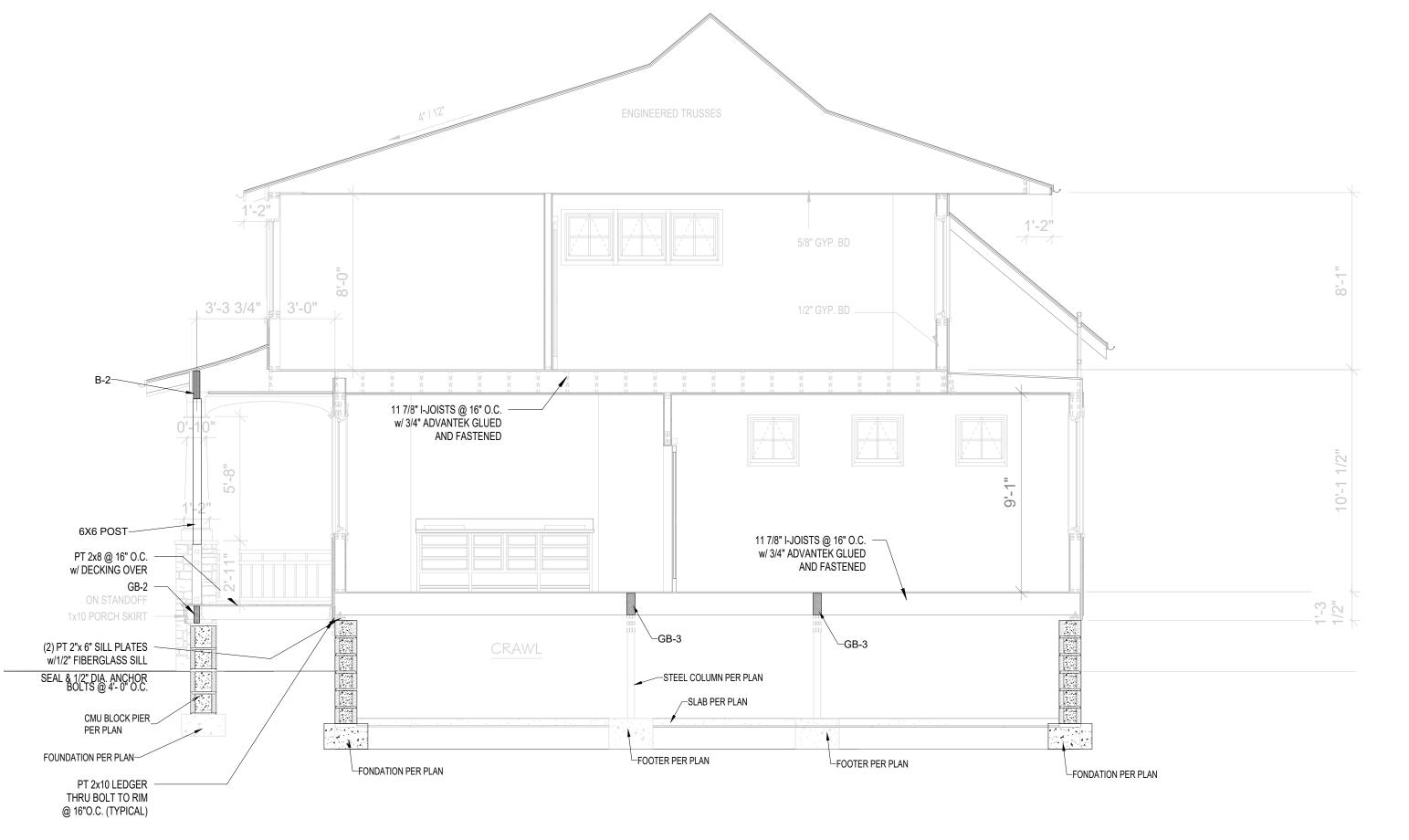
S-5

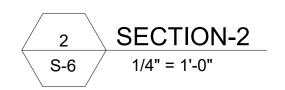
FLOOR BEAM &

COLUMN PLAN



1 SECTION-1 S-6 1/4" = 1'-0"



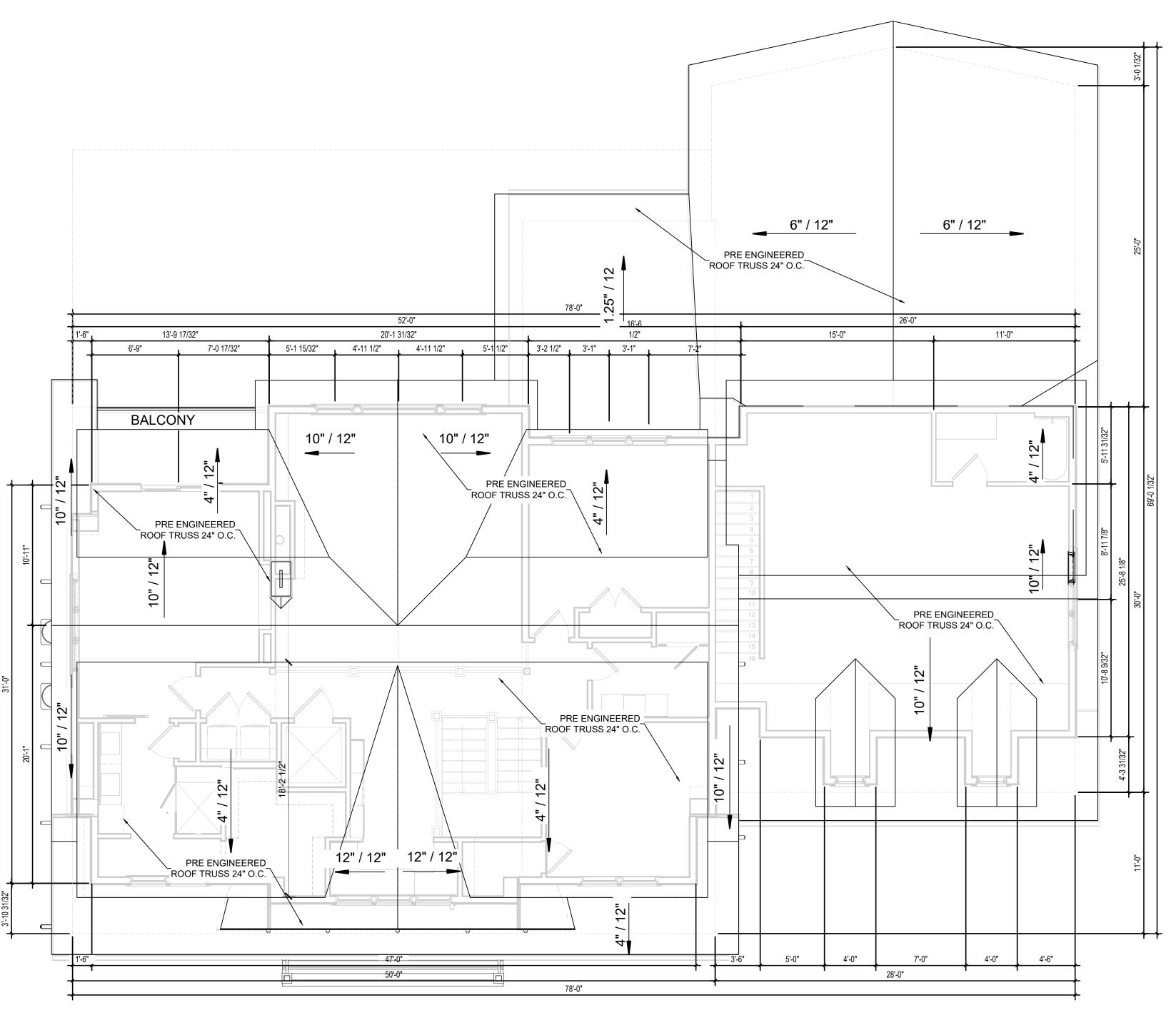


1								
	REV 1:	REV 4:						
	REV 2:	REV 5:						
	REV 3:	REV 6:						
	DRAWN BY: VS							
	CHECKED BY: SP							
	PROJECT #: 2324201							

SCALE: AS PER PLAN

SECTIONS

SHEET NUMBER:



1 ROOF PLAN S-7 3/16"=1'-0"

ATTIC VENT CALCULATION

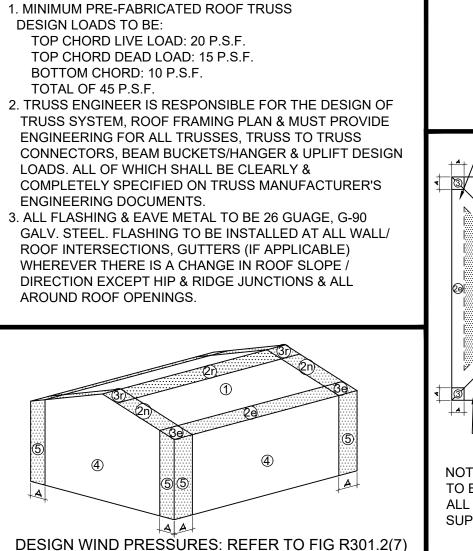
PROVIDE ATTIC VENTILATION IN COMPLIANCE W/IBC RESIDENTIAL CODE
THE REQUIRED NET FREE VENTILATING AREA OF NOT LESS THAN 1/150 OF
THE SPACE VENTILATED AREA MAY BE REDUCED TO 1/300 PROVIDED THAT
AT LEAST 40% AND NOT MORE THEN 50% OF THE REQUIRED VENTING AREA
IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE
ATTIC OR RAFTER SPACE. UPPER VENTILATORS SHALL BE LOCATED NOT
MORE THEN 3' BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE.
NOTE TYPICAL VENTILATION INCLUDES

1. SOFFIT VENTS (AREA:6.42 SQ.IN. PER FOOT-VERIFY W/ MANUFACTURER)

AREA 1 - AREA VENTIALATION REQUIRED - UPPER AND LOWER VENTS PROVIDED

4027 S.F. ATTIC AREA / 150 = 26.85 S.F. X 144 = 3865.92

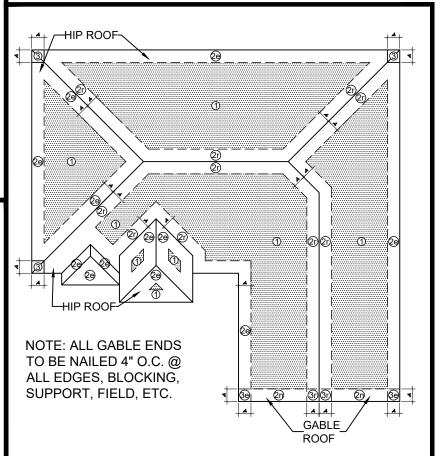
ALL FIRE PROTECTION SYSTEMS, FUEL, GAS, SIGNAGE AND OTHER BUILDING COMPONENTS REQUIRED BY LOCAL BUILDING AND FIRE AUTHORITIES TO BE INSTALLED OR MODIFIED VIA SEPARATE PERMIT, AND WHICH ARE AFFECTED BY THE WORK PROPOSED HEREIN, SHALL BE DULY INSTALLED OR MODIFIED ONLY THROUGH SEPARATE PERMIT AUTHORIZATION FROM THE AUTHORITY(S) HAVING JURISDICTION.

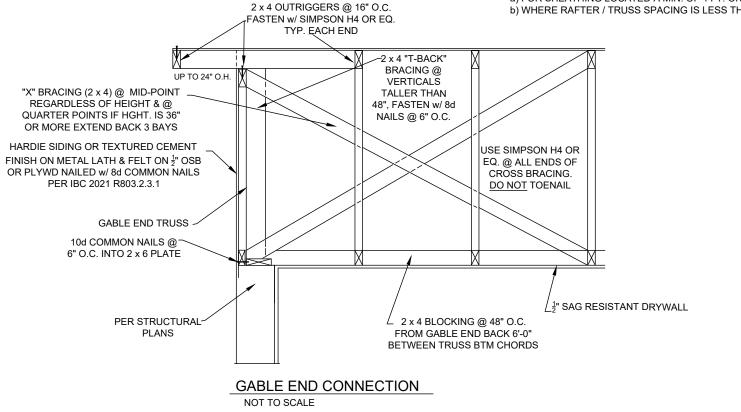


COMPONENT AND CLADDING PRESSURE ZONES

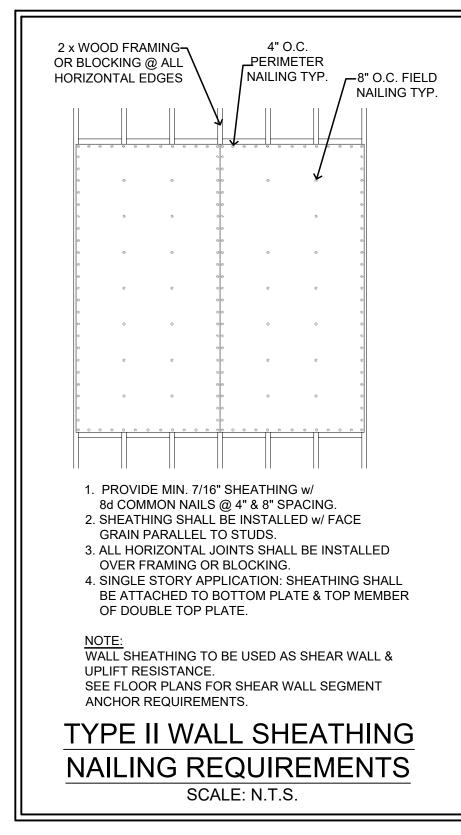
(2021 IBC-R)

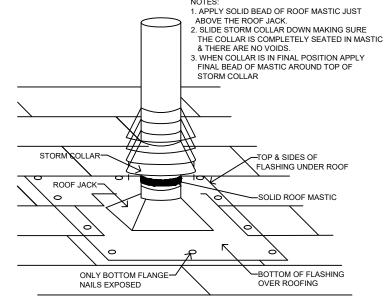
ROOF PLAN NOTES



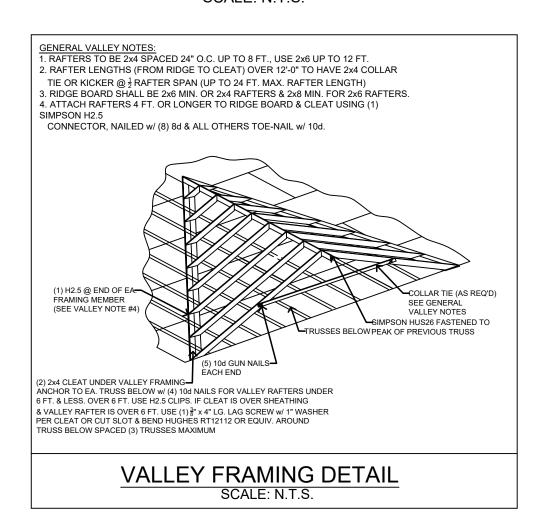


Temporary Non-Final Plans. These plans are temporary and are not to be used for construction, permitting or bidding. The Engineer of Record must review and approve the truss plans before any construction begins. Bearing walls, truss connectors, foundations, and all other structural elements of this project are subject to change based on a review of the truss plans. Only after a review of the truss plans can the Engineer of Records issue a final set of plans for construction, permitting or bidding.





VENT PIPE PENETRATION
SCALE: N.T.S.



ROOF UNDERLAYMENT APPLICATION

REFER TO INTERNATIONAL BUILDING CODE, RESIDENTIAL - 2021 SECTION 905.1.1 FOR ROOF UNDERLAYMENT. UNDERLAYMENT FOR ROOF SLOPES 2:12 AND GREATER SHALL CONFORM TO APPLICABLE STANDARDS LISTED IN THE CHAPTER

IBC 2021 TABLE R803.2.2 MIN. ROOF SHEATHING THICKNESS

IDO 2021 IN IDEE 1 (000).2.2 WINV. 1 (001 OF IE) (11 III (10 OF IE) (1												
RAFTER / TRUSS SPACING	WIND SPEED											
24" O.C.	115 mph	120 mph	130 mph	140 mph	150 mph	160 mph	170 mph	180 mph				
MIN. SHEATHING THICKNESS, INCHES (PANEL SPAN RATING) EXPOSURE B	7/16	7/16	7/16	7/16	15/32	19/32	19/32	19/32				
	(24/16)	(24/16)	(24/16)	(24/16)	(32/16)	(40/20)	(40/20)	(40/20)				
MIN. SHEATHING THICKNESS, INCHES	7/16	7/16	15/32	19/32	19/32	19/32	19/32	23/32				
(PANEL SPAN RATING) EXPOSURE C	(24/16)	(24/16)	(32/16)	(40/20)	(40/20)	(40/20)	(40/20)	(48/24)				
MIN. SHEATHING THICKNESS, INCHES (PANEL SPAN RATING) EXPOSURE D	15/32	19/32	19/32	19/32	19/32	19/32	23/32	23/32				
	(32/16)	(40/20)	(40/20)	(40/20)	(40/20)	(40/20)	(48/24)	(48/24)				

IBC 2021 TABLE R803.2.3.1 MIN. ROOF SHEATHING ATTACHMENT

	WIND SPEED															
RAFTER / TRUSS SPACING 24" O.C.	115 mph		120	120 mph		130 mph		140 mph		mph	160 mph		170 mph		180 mph	
24 0.0.	Е	F	Е	F	Е	F	Е	F	Е	F	Е	F	Е	F	Е	F
EXPOSURE B	•	•		•	•	•		•					•			
RAFTER / TRUSS SG = 0.42	6	6	6	6	6	6	6	6	6	6	4	4	4	4	4	4
RAFTER / TRUSS SG = 0.49	6	12	6	12	6	6	6	6	6	6	6	6	6	6	6	6
EXPOSURE C	•															
RAFTER / TRUSS SG = 0.42	6	6	6	6	6	6	4	4	4	4	4	4	3	3	3	3
RAFTER / TRUSS SG = 0.49	6	6	6	6	6	6	6	6	6	6	6	6	4	4	4	4
EXPOSURE D	·															
RAFTER / TRUSS SG = 0.42	6	6	6	6	4	4	4	4	4	4	3	3	3	3	3	3
RAFTER / TRUSS SG = 0.49	6	6	6	6	6	6	6	6	4	4	4	4	4	4	4	4

E = NAIL SPACING ALONG PANEL EDGES (INCHES)

F = NAIL SPACING ALONG INTERMEDIATE SUPPORTS IN THE PANEL FIELD (INCHES)

a) FOR SHEATHING LOCATED A MIN. OF 4 FT. ON EA. SIDE OF RIDGES & HIPS, NAIL SPACING IS PERMITTED TO BE 6" O.C. ALONG PANEL E

a) FOR SHEATHING LOCATED A MIN. OF 4 FT. ON EA. SIDE OF RIDGES & HIPS, NAIL SPACING IS PERMITTED TO BE 6" O.C. ALONG PANEL EDGES & 6" O.C. ALONG INTERMEDIATE SUPPORTS IN PANEL FIELD.
b) WHERE RAFTER / TRUSS SPACING IS LESS THAN 24 IN. O.C., ROOF SHEATHING FASTENING IS PERMITTED TO BE IN ACCORDANCE WITH THE AWC WFCM OR THE AWC NDS.

ROOF NOTES:

- 1. PRE-ENGINEERED WOOD ROOF TRUSSES @ 24" O.C.
- TYPICAL 6:12 PITCH UNLESS NOTED OTHERWISE. (SEE MFG. TRUSS PLANS).
- 2'-0" ROOF OVERHANGS UNLESS NOTED OTHERWISE.
 TRUSS MANUFACTURER TO SUBMIT ENGINEERED TRUSS DRAWINGS FOR APPROVAL.
- 5. COORDINATION OF CONSTRUCTION INCLUDING
 VERIFICATION OF DIMENSIONS & FIELD CONDITIONS, IS
 THE RESPONSIBILITY OF THE CONTRACTOR ANY
 DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION
 OF THE DESIGN FIRM PRIOR TO CONSTRUCTION.
- 6. PROVIDE ATTIC VENTILATION AS REQUIRED BBY LOCAL RESIDENTIAL BUILDING CODE.
- 7. ROOF PLAN FOR DESIGN PURPOSES ONLY. TRUSS MANUFACTURER TO SUBMIT ENGINEERED TRUSS DRAWINGS FOR APPROVAL.

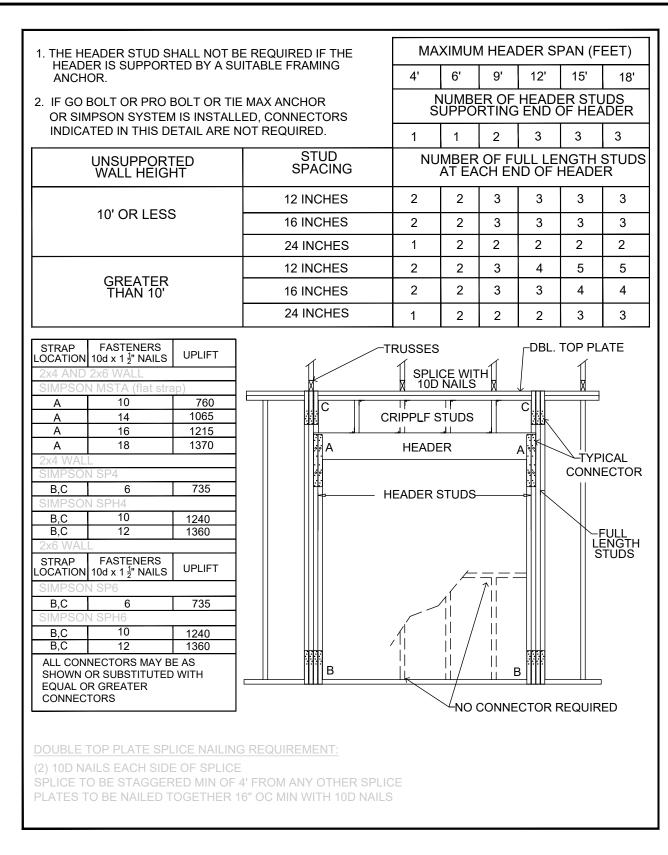
REV 1:	REV 4:				
REV 2:	REV 5:				
REV 3:	V 3: REV 6:				
DRAWN BY: VS					
CHECKED BY: SP					

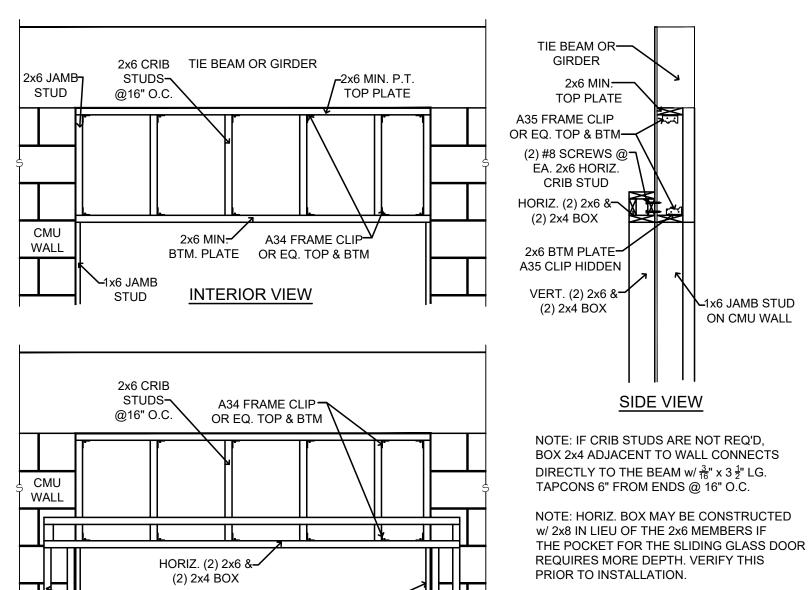
PROJECT #: 2324201 SCALE: AS PER PLAN

SHEET TITLE:

ROOF PLAN & DETAILS

SHEET NUMBER:





SLIDING GLASS DOOR **POCKET DETAIL**

EXTERIOR VIEW

NOTES: 1. ATTACH 2x6 TOP PLATE TO TIE BEAM OR GIRDER w/ $\frac{3}{16}$ " X 3 $\frac{1}{2}$ " MIN. TAPCONS STARTING 6" FROM ENDS

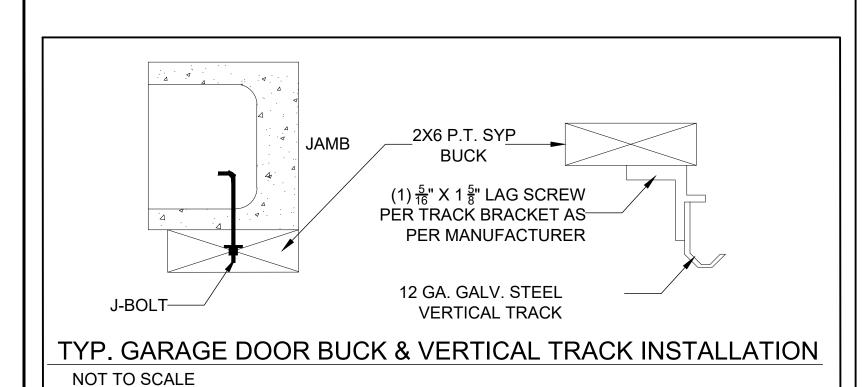
STUD

- @ 16" O.C. 2. ATTACH 2x6 BOTTOM PLATE TO CMU WALL EA. END w/ A35 CLIP w/ (4) 10d NAILS IN TOP PLATE & (3) 希"
- TAPCONS IN CMU WALL. (CLIP MAY BE ON TOP OR BOTTOM OF PLATE).
- 3.ATTACH 2x6 JAMB STUDS TO CMU WALL w/ 3/6" x 3 3/9" LG. TAPCONS
- STARTING 8" FROM TOP @ 16" O.C. 4.ATTACH 1x6 JAMB PLATES TO CMU w/ $\frac{3}{16}$ " x 2 $\frac{3}{4}$ " LG. TAPCONS

-VERT. (2) 2x6 &

(2) 2x4 BOX

- STARTING 8" FROM TOP 16" O.C. 5.ATTACH 2x6 CRIB STUDS TO TOP & BOTTOM PLATES w/ A34
- CLIPS w/ (2) 10d NAILS IN CRIB STUD & (2) 10d NAILS IN PLATE 6.ATTACH 2x4 SIDE PLATE OF BOX ADJACENT TO FACE OF WALL
- TO CRIB STUDS w/ (2) #8 x 4" LG. WOOD SCREWS PER STUD. 7.ATTACH 2x6PLATES TO 2x4 PLATES IN BOX w/ 16d NAILS STARTING 6" FROM ENDS 16" O.C.
- 8. VERTICAL BOX ONLY REQUIRED AT END WHERE JAMB STRIP IS
- ATTACHED. ALSO 2x4 BLOCKS IN VERTICAL BOX ARE NOT REQUIRED TO BE FULL LENGTH.
- 9.ALL STRUCTURAL LUMBER MUST BE S.Y.P. #2



SIMPSON SP4 (2x4 STUDS) OR SP6 (2x6 STUDS) SEE TRUSS LAYOUT DOUBLE 2x TOP PLATE PRE-ENG. TRUSS TYP. FOR UPLIFT CONNECTORS (SEE GENERAL NOTE #4) \A34\ SIMPSON SP2 OR EQUIV. MAY **HEADER** BE USED INSTEAD OF SP4 OR SP6 IMPSON LSTA24-WOOD WALL OR EQ. KING STUDS USE 2x WOOD BLOCKING @ MID-HEIGHTw/ (2) 16d NAILS EA. CONNECTION -(2) JACK STUDS-YFULL LENGTH WALL OR (1) ROW @ EA. PLYWOOD JOINT NAILED TOGETHER STUDS w/ 16d FOR WALLS OVER 8'-0" IN HEIGHT w/ 16d NAILS 8" O.C. NAILS 16" O.C. IF PLYWOOD IN 8 FT. WALLS IS RUNNING VERTICAL, BLOCKING NOT REQ'D. UNLESS NOTED ON PLANS, SEE **EXTERIOR WALL SHEETING NOTE** NO CONNECTOR SIMPSON HTT5 REQ'D @ WINDOW OR DOOR OPENINGS SIMPSON HTT5-CUT BACK P.T. OR EQUIV. MAY BTM PLATE 2" TYP BE USED INSTEAD → OF SP4 OR SP6 ATTACH w/ 2" WEDGE ANCHOR FRAMED BEARING WALL OR "J" BOLTS EMBEDDED **BOTTOM PLATE** (INTERIOR/EXTERIOR) SCALE: N.T.S.

> NOTE SCHEDULE #1 | 1/2" X 5" TITEN HD ANCHOR BOLT W/ 2" WASHER @ 6" FROM ALL CORNERS & OPENINGS, & 32" O.C. MAX #2 SIMPSON SP4 @ BOTTOM OF ALL FULL LENGTH & JACK STUDS @ ALL DOOR/ WINDOW OPENINGS #3 SIMPSON SP4 @ TOP & BOTTOM OF FULL LENGTH STUDS @ 32" O.C. #4 SIMPSON SP4 @ TOP OF ALL FULL LENGTH STUDS @ ALL DOOR/ WINDOW OPENINGS #5 CONNECT ALL JACK STUDS TO HEADER W/ SIMPSON LSTA12 @ ALL DOOR/ WINDOW OPENINGS #6 CONNECT DBL TOP PLATE TO HEADER W/ SIMPSON SP4 @ 16" FROM EACH END, & 32" O.C. MAX. FULL LENGTH/ JACK STUD SCHEDULE DBL 2 x12 HEADER (1) JACK STUD EACH END, (2) FULL LENGTH STUD EACH END (1) JACK STUD EACH END, (2) FULL LENGTH STUDS EACH END (2) JACK STUDS EACH END, (3) FULL LENGTH STUDS EACH END SHALL BE SPECIFIED 9'-1" TO 12'-0" (3) JACK STUDS EACH END, (3) FULL LENGTH STUDS EACH END Frame 2x4-Bearing Wall-Header Schedule

TYPICAL HANGER SCHEDULE <u>SOLID SAWN JOIST HANGERS:</u> -FACE MOUNT--TOP FLANGE-SIMPSON HU210TF SIMPSON LUS210-2 (2)2×10 -FACE MOUNT-(2)2×10 -TOP FLANGE-HUS210-2TF

1. CRIPPLE STUDS @ 16" O.C. MAX. (IF NECESSARY) FASTEN w/ (1) SIMPSON LSTA24 STRAP. ATTACH UP FACE, OVER TOP PLATE & NAIL, OR (1) STRAP TOP & BOTTOM FOR WALL HEIGHTS OVER 8 FT.

2. IF FULL SIZE HEADER IS USED IN LIEU OF CRIPPLE STUDS, NO STRAPPING REQ'D EXCEPT AT ENDS. NAIL BOTTOM PLATE TO HEADER w/ (2) ROWS OF 16d NAILS @ 8" O.C.

3. RUN TOP PLATE CONTINUOUS OVER STUDS @ WALL, BLOCK ALL SLICES BETWEEN STUDS.

4. EXTERIOR NON-BEARING WALL TO PROVIDE GAP BETWEEN TOP PLATE BOTTOM CORD OF TRUSS. SEE TRUSS MFG. TRUSS PROFILES FOR DEFLECTION SPECIFICATIONS.

5. UNLESS SPECIFIED OTHERWISE, ALL BEARING, SHEAR & EXTERIOR NON-BEARING WALLS, TRUSS WIND BRACING, BEAMS & HEADERS SHALL BE DOUGLAS FIR-LARCH, HEM FIR OR SPRUCE-PINE-FIR OR **EQUAL CONSTRUCTION GRADE OR BETTER**

(fB = 850 p.si., Ft = 375 psi, Fv = 70 psi, Fc = 335 psi, Fcll = 1200 psi, E = 1,000,000 psi) WHEN SPECIFIED SOUTHERN PINE SHALL BE #2 GRADE OR BETTER (fB = 975 p.si., Ft = 550 psi, Fv = 90 psi, Fc = 480 psi, FcII = 1350 psi, E = 1,400,000 psi)

-8" CONC. BLOCK

_8D @ 4" O.C.

MIXED CONST. DETAIL

NOT TO SCALE

1/2 GYPBD. ON

@ 24" O.C.

1X2 PT FURRING

CONCRETE FILLED CELL W/ (1) #5 REBAR UNO

1/2"x8" L BOLT OR 1/2"X6" TITEN

-HD W/ 3"X3 "X1/8" WASHER ON

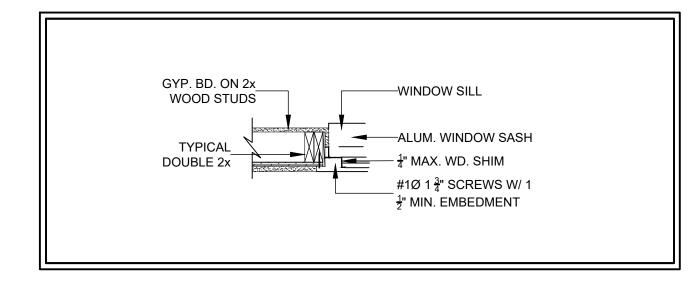
-2X WALL AS SPEC. IN PLAN

7/16 OSB SOLID SHEATING W/

2"XPT PLATE @ 24" O.C.

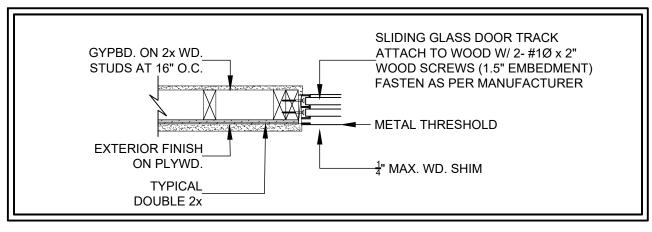
INSTALL SHEET OF MOISTURE BARRIER @ **BOTTOM OF OPENING** INSTALL BARRIER MEMBRANE ON SILL OF ROUGH OPENING & ON THE MOISTURE BARRIER, LAP UP THE JAMBS MIN. 4" STEP 2 COMPLETELY SEAL CORNER BY ALLPYING A 2" STRIP OF BARRIER MEMBRANE DIAGONALLY AS SHOWN WRAP MOISTURE BARRIER AROUND JAMBS OVERLAPPING BARRIER MEMBRANE 2" STEP 4 -SLIDE HEAD FLASHING UNDER TOP SHEET 1. PREPARE OPENING PRIOR TO THE INSTALLATION OF THE WINDOW OR MECHANICAL EQUIPMENT. COORDINATE INSTALLATION w/ OTHER SUBTRADES 2. PROVIDE MOISTURE BARRIER & OTHER ASSOCIATED TRIM & ACCESSORIES. 3. PROVIDE FLASHING @ SILL TO DRAIN WATER TO THE EXTERIOR

ROUGH OPENING PREPARATION SCALE: N.T.S.

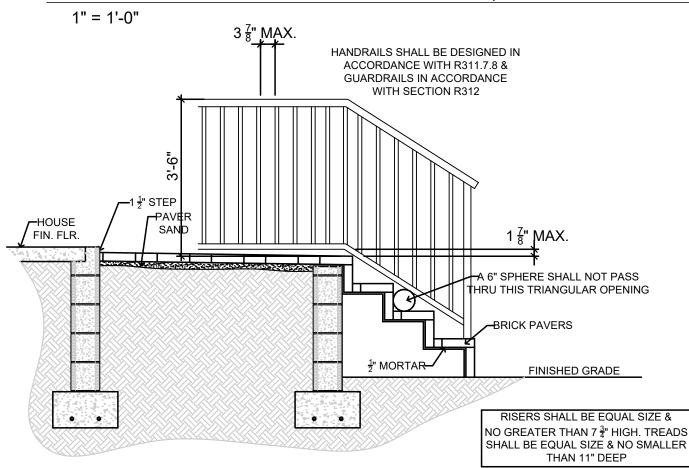


WINDOW JAMB TO WOOD FRAME, HEAD SIMILAR

1" = 1'-0"



SL. GL. DR. JAMB TO WOOD FRAME, HEAD SIMILAR

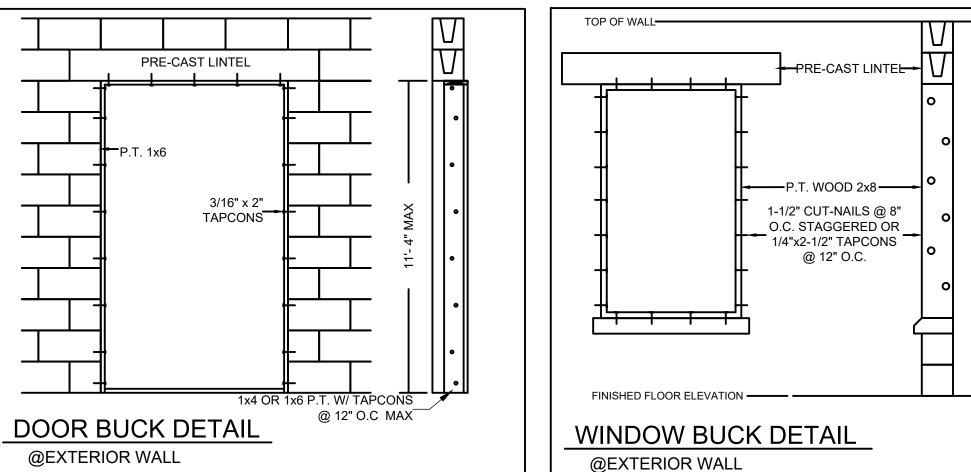


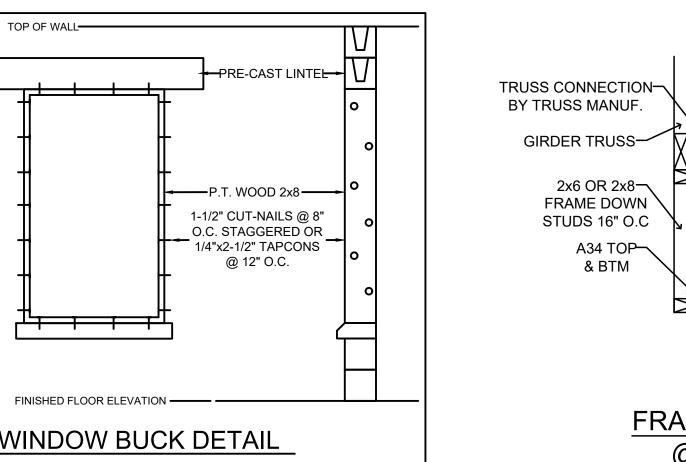
EXTERIOR STAIR DETAIL WITH STEM WALL LS70 CLIP TYP ALL JOIST & DBL 2X6 MIN HEADER 4X4 POST EA END OR DBL 2X4 W/10d AT 4"O.C AT CMU: TOP 2X8 2X8 PT W/ MAX. 4' SPACING BETWEEN POSTS _____ 1/2Ø OR LARGER WEDGE ANCHOR AT 16" O.C. BELOW STRINGER BEARING WALL BELOW. STUDS 12" O.C. MAX 2X8 AT 16" O.C. MAX NAIL 2X8 LEDGER TO SIDE OF STUDS W/ 6-10d EA. 2X12 BLOCKING FROM UPPER 2X8 TO LOWER 2X8 US26 EA JOIST TO WOOD BEAM (GRAIN MUST RUN VERTICAL: 11.25" W X 16"L) 2X12 STRINGER EA SIDE AND 16" O.C. (MIN. 5" D THROAT TO REMAIN AFTER CUT) LOWER 2X10 AT LOWER STAIR RUN AND SISTER EA. STRINGER W/ 2X4 W/ 10d AT 6" O.C ALTERNATE: USE SOLID (NON-NOTCHED) OPTION: 2X4 BEARING WALL IN LIEW OF POST & BEAM (STUDS 12" O.C.) AT 24" O.C. MAX. - 4X4 POST EA END AND AT CENTER OMIT HEADER AND USE DBL 2X4 STUDS BELOW EA. STRINGER OR DBL 2X4 W/ 10d AT 4" O.C. MAX. 4' SPACING BETWEEN POSTS BELOW HEADER NOTCH POST AT TOP 2X8 HEADER OR DBL 2X4 W/ 10d AT 4" O.C. MAX. 4' SPACING BETWEEN POSTS HGAM10 CLIP TYP

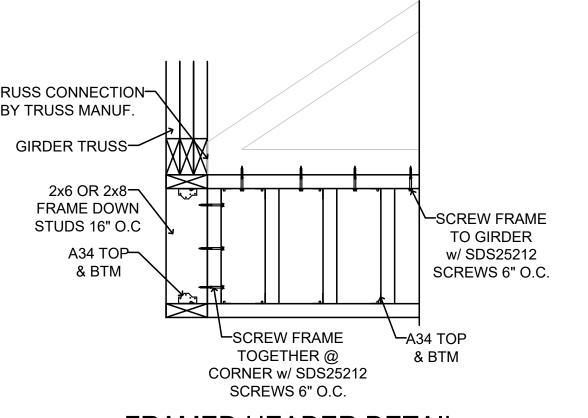
TYP. INTERIOR FRAMED STAIRCASE DETAIL

5' MAX SPAN BEWTEEN STRINGER SUPPORTS

SCALE: N.T.S.







FRAMED HEADER DETAIL @ CORNER SLIDER SCALE: N.T.S.

REV 4: REV 5: REV 2: REV 6: REV 3: DRAWN BY: VS CHECKED BY: SP PROJECT #: 2324201 SCALE: AS PER PLAN SHEET TITLE: **DETAILS & NOTES**

SHEET NUMBER: