

## TYPICAL ABBREVIATIONS

AFF. ABOVE FINISH FLOOR	FIN. FINISH FLOOR	P.C.B. PAINTED CONC. BLOCK
ADJ. ADJUSTABLE	FLR. FLOOR	PL. PLATE
ALT. ALTERNATE	F.F. FINISH FLOOR	LB. POUND
ALUM. ALUMINUM	F.F.E. FINISH FLOOR ELEVATION	PCF. POUNDS PER CUBIC FOOT
AB. ANCHOR BOLT	F.R. FIRE RATED	PLF. POUNDS PER LINEAL FOOT
ANGLE ANGLE	FT. FOOT, FEET	PSF. POUNDS PER SQUARE FOOT
ANOD. ANODIZED	FTG. FOOTING	P.E.J. PREFORMED EXPANSION JOINT
APPROX. APPROXIMATELY	FR. FRAME	PRESS. PRESSURE
	F.O. FRAMED OPENING	P.T. PRESSURE TREATED
	F.S. FAR SIDE	
BJ. BAR JOIST		QTY. QUANTITY
BFF. BELOW FINISHED FLOOR	GALV. GALVANIZED	
BS. BOTH SIDES	GA. GAUGE	RAD. RADIUS
BM. BEAM	GR. GRADE	REF./RE. REFERENCE
BLKG. BLOCK	H.V.A.C. HEATING, VENTILATION & AIR CONDITIONING	REINF. REINFORCED
BLK. BLOCKING	HT. HEIGHT	REQD. REQUIRED
BOT. BOTTOM	HOL. HOLLOW	R.D. ROOF DRAIN
BMO. BRICK MASONRY OPENING	H.M. HOLLOW METAL	R & S ROD AND SHELF
BLDG. BUILDING	HOR. HORIZONTAL	R.O. ROUGH OPENING
BN. BULLNOSE	I.C. IN CONTRACT	
BRG. BEARING	I.D. INSIDE DIAMETER	S.C.J. SAWED CONTROL JOINT
CLG. CEILING	JT. JOINT	SECT. SECTION
CMV. CONCRETE MASONRY UNIT	K.C.J. KEYED CONTROL JOINT	SH. SHEET
CTR. CENTER	LAM. LAMINATED	SIM. SIMILAR
CL. CENTERLINE	L.R. LEVEL RIDGE	S.R. SLOPING RIDGE
CLR. CLEAR	LIN. LINEAL	S.F. SQUARE FEET
CL. COLD ROLLED CHANNEL	L.F. LINEAL FCOT	S.S. STAINLESS STEEL
COL. COLUMN	MAX. MAXIMUM	SEL. STEEL
CONC. CONCRETE	M.B.M. METAL BUILDING MFG.	S. STEEL LINE
CBMO. CONCRETE BLOCK MASONRY OPG.	MANUF. MANUFACTURER	STD. STANDARD
CONT. CONTINUOUS	M.O. MASONRY OPENING	S.D. STORM DRAIN
CJ. CONTROL JOINT	MECH. MECHANICAL	STRUCT. STRUCTURE OR STRUCTURAL
CU. CUBIC	MET. METAL	S.V. SLOPING VALLEY
	MTL. METAL	
DK. DECK	MIN. MINIMUM	TK. THICK
DET/DTL. DETAIL	MISC. MISCELLANEOUS	T.O.B. TOP OF BEAM
DIA. DIAMETER, ROUND	NOM. NOMINAL	T.O.F. TOP OF FOOTING
DM. DIMENSION	N.I.C. NOT IN CONTRACT	T.O.S. TOP OF STEEL
DN. DOWN	N.T.S. NOT TO SCALE	T.O.M. TOP OF MASONRY
DBL. DOUBLE	N.S. NEAR SIDE	T.O.W. TOP OF WALL
DBN. DOUBLE BULLNOSE	O.C. ON CENTER	TYP. TYPICAL
DWG. DRAWING	OPG. OPENING	T.S. STRUCTURAL TUBE STEEL
	OPP. OPPOSITE	
EA. EACH	O.D. OUTSIDE DIAMETER	U.N.O. UNLESS NOTED OTHERWISE
EW. ELEVATION		VERT. VERTICAL
EQ. EQUAL		
EXIST. EXISTING		W.F. WALL FOOTING
EXP. EXPANSION		W. WIDE FLANGE SECTION
EJ. EXPANSION JOINT		WI. WITH
ES. EXPOSED STRUCTURE		WD. WOOD
ESP. EXPOSED STRUCTURE PAINTED		WP. WORK POINT
		W.W.M. WELDED WIRE MESH
		W.W.F. WELDED WIRE FABRIC

### GENERAL NOTES

THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THE COMPLETION OF THE PROJECT.

IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.

MECHANICAL FRAMING LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO MECHANICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL OBTAIN APPROVAL OF MECHANICAL AND OTHER TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN MECHANICAL REQUIREMENTS TO BE BORNE BY MECHANICAL CONTRACTOR.

SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THE GENERAL STRUCTURAL NOTES, THE SPECIFICATIONS OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE PLANS AND FOR COORDINATING ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH THOSE SHOWN ON THE ARCHITECTURAL AND MECHANICAL DRAWINGS. IF DISCREPANCIES IN THE DIMENSIONS OCCUR, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BRING THE DISCREPANCY TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

UNLESS NOTED OTHERWISE, REQUIREMENTS GIVEN FOR ONE OR MORE LOCATIONS ALSO APPLY AT OTHER LOCATIONS AT WHICH CONDITIONS ARE SIMILAR. THE REQUIREMENTS GIVEN SHALL BE ADAPTED TO CONDITIONS AT SUCH OTHER LOCATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE MOST CURRENT SET OF DRAWINGS, SPECIFICATIONS, ADDENDA, SUPPLEMENTAL INFORMATION, ETC., TO FABRICATORS AND SUPPLIERS.

ALL MEANS AND METHODS OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND NOT THE ENGINEER OF RECORD.

### CONCRETE NOTES

ALL CONCRETE WORK SHALL CONFORM TO THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-02) AND SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301-02) OF THE AMERICAN CONCRETE INSTITUTE.

PROVIDE AT LEAST ONE COPY OF THE ACI FIELD REFERENCE MANUAL, SP-15, IN THE FIELD OFFICE AT ALL TIMES.

ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.

C.I.P. CONCRETE CONSTRUCTION OR CONTROL JOINTS IN SLAB ON GRADE TO BE AS SHOWN ON PLANS. WHERE NOT SHOWN, LIMIT CONTROL JOINT SPACING TO NO GREATER THAN 15 FEET ON ANY SIDE FOR 5 INCH SLABS AND 12 FEET FOR 4 INCH SLABS ON GRADE. THE SECTIONS BOUNDED BY CONTROL OR CONSTRUCTION JOINTS SHALL BE APPROXIMATELY SQUARE, WITH THE LENGTH TO WIDTH RATIO LESS THAN 1.5.

COORDINATE CONCRETE WORK WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ARCHITECTURAL FINISHED CONCRETE, RECESSED AREAS, EMBEDDED ITEMS, AND SPECIAL CONTROL JOINTS.

PROVIDE DOWELS IN FOOTINGS TO MATCH VERTICAL WALL AND PIER REINFORCING. PROVIDE CORNER BARS AT WALL AND FOOTING CORNERS TO MATCH HORIZONTAL REINFORCING. SEE BAR SPLICE TABLE BELOW FOR MINIMUM LENGTH OF EACH LEG.

UNLESS OTHERWISE NOTED OR DETAILED, ALL REINFORCING BAR SPLICES SHALL BE IN ACCORDANCE WITH THE TABLE SHOWN BELOW:

BAR SIZE	CONCRETE SPLICES	
	TYPE A (NON TOP BAR)	TYPE B (TOP BAR)
#3	14	18
#4	19	24
#5	23	30
#6	30	40
#7	41	54
#8	55	71
#9	69	90
#10	88	114
#11	108	140

TOP BARS ARE HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12 IN. OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.

PROVIDE THE FOLLOWING MINIMUM CLEAR COVER FOR REINFORCING STEEL FROM SURFACE OF CONCRETE:

- FOR CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3" IN GENERAL
- 2" FOR FOUR INCH SLABS ON GRADE
- FOR CONCRETE SURFACE EXPOSED TO THE WEATHER OR AGAINST

1-1/2" FOR #5 BARS AND SMALLER EXCEPT AS NOTED FOR PRECAST

1-1/2" FOR COLUMN SPIRALS OR TIES, OR STIRRUPS (EXCEPT PAN JOISTS)

3/4" FOR SLABS AND FOR STIRRUPS IN PAN JOISTS  
TOLERANCES FOR BAR COVER ARE  $\pm 3/8$  INCH FOR CONCRETE HAVING A THICKNESS OF 8 INCHES OR LESS AND  $\pm 1/2$  INCH FOR CONCRETE HAVING A THICKNESS GREATER THAN 8 INCHES. TOLERANCE FOR LONGITUDINAL LOCATION OF BENDS AND ENDS OF REINFORCEMENT SHALL BE  $\pm 2$  INCHES EXCEPT AT DISCONTINUOUS ENDS OF MEMBERS WHERE THE TOLERANCE SHALL BE  $\pm 1/2$  INCH. TOLERANCE FOR BAR SPACING IS  $\pm 2$  INCHES. TOLERANCE FOR LENGTH OF LAP SPLICE IS -1 INCH, AND TOLERANCE FOR EMBEDDED LENGTH LENGTH IS  $\pm 1$  INCH.

### DESIGN DATA

BUILDING CODE: FBC (LATEST EDITION)

OCCUPANCY CATEGORY: II

LIVE LOAD:

ROOF LIVE LOAD: 20 (PSF)

COLLATERAL LOAD: 5 (PSF)

WIND LOAD:

BASIC WIND SPEED (3-SECOND GUST): 110 (MPH)

WIND IMPORTANCE FACTOR (I): 1.00

WIND EXPOSURE: B

ENCLOSURE CLASSIFICATION: ENCLOSED

INTERNAL PRESSURE COEFFICIENT: +/- 0.18

### FOOTING NOTES

ALLOWABLE NET SOIL BEARING PRESSURE ASSUMED FOR DESIGN.....1500 PSF

### MATERIAL SPECIFICATIONS

MINIMUM 28 DAY CONCRETE STRENGTHS:

FOOTINGS.....3000 PSI

SLABS ON GRADE.....3000 PSI

SEPARATE DRAWINGS SHOWING PARTS OF THE DESIGN INVOLVING SPECIALTY ENGINEERING SUCH AS: METAL BUILDING SYSTEMS, BAR JOISTS, TILT-WALL, LIGHT GAUGE STEEL, PRE-FABRICATED WOOD TRUSSES OR ANY OTHER PRE-FABRICATED COMPONENT SHALL BEAR THE DATE, SIGNATURE, AND SEAL OF A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE BUILDING IS LOCATED. ALL SUCH DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL (BEFORE FABRICATION PROCEEDS).

AT LEAST ONE COPY OF CALCULATIONS (LONG REPORT OPTION) SHALL ALSO BE SUBMITTED TO THE ARCHITECT FOR FILING PURPOSES ONLY.

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ENGINEER'S SEAL

STORAGE FACILITY FOR  
GRACE COVENANT CHURCH  
LAKE CITY, FL

#### DRAWING SUBMITTAL HISTORY

DRW	CHK	ISSUED FOR	DATE
BS	BS	Permit	10/23/07

#### REVISIONS AFTER PERMIT DWGS HAVE BEEN ISSUED

REVISION #	DRW	CHK	DATE
1			
2			
3			
4			
5			
6			

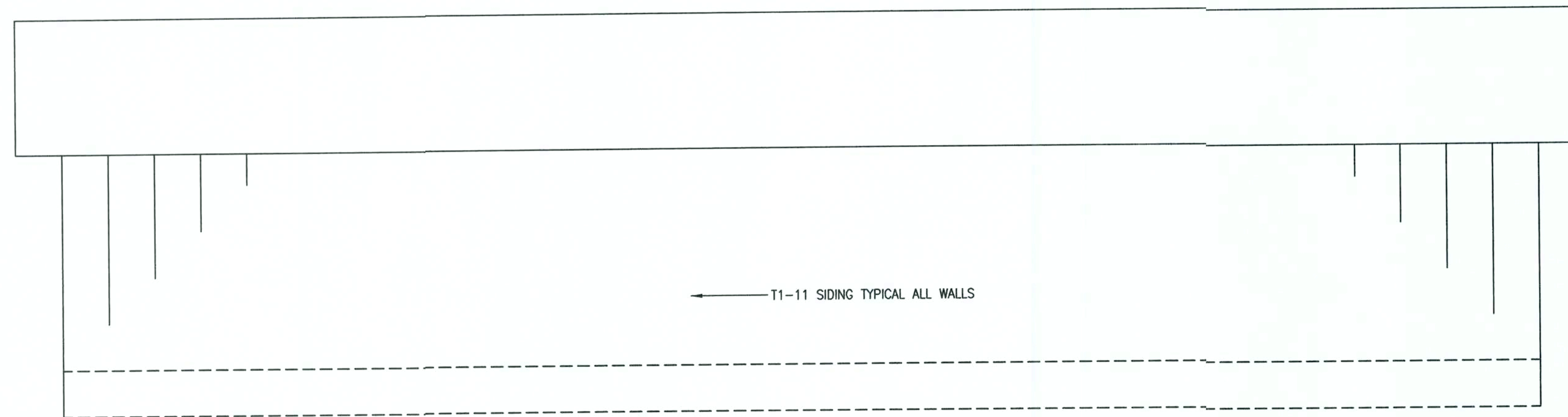
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SHEET 1 OF 4  
JOB # 615



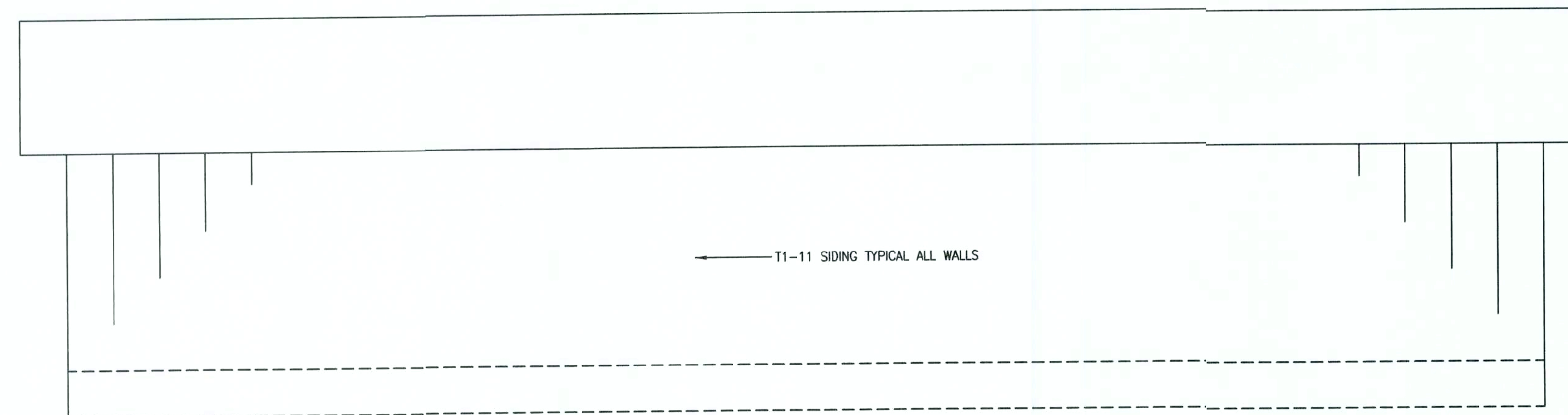






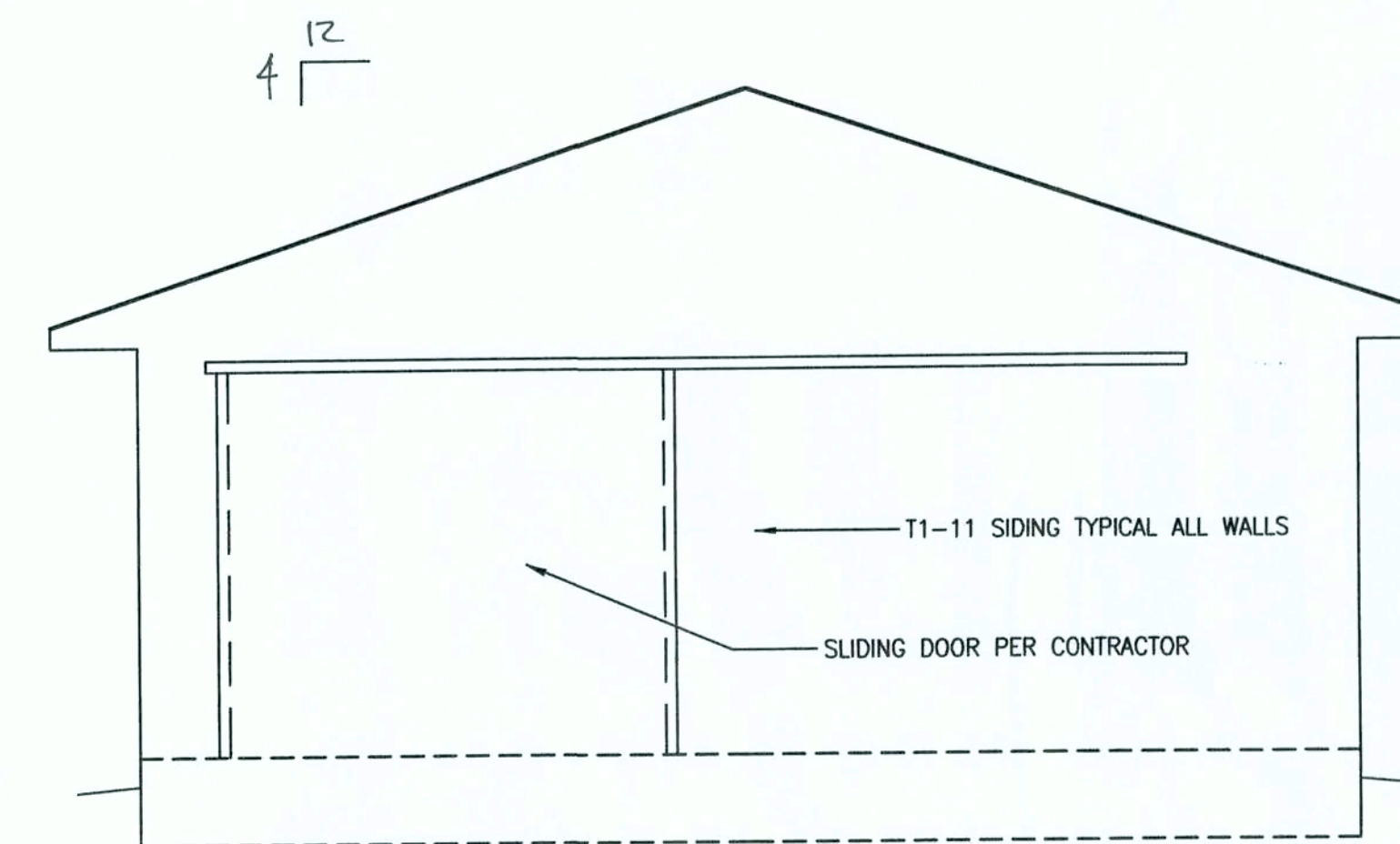
ALL DOORS, HARDWARE, ACCESSORIES, LOCKS, ETC SHALL BE FURNISHED BY CONTRACTOR.

ELEVATION A-A

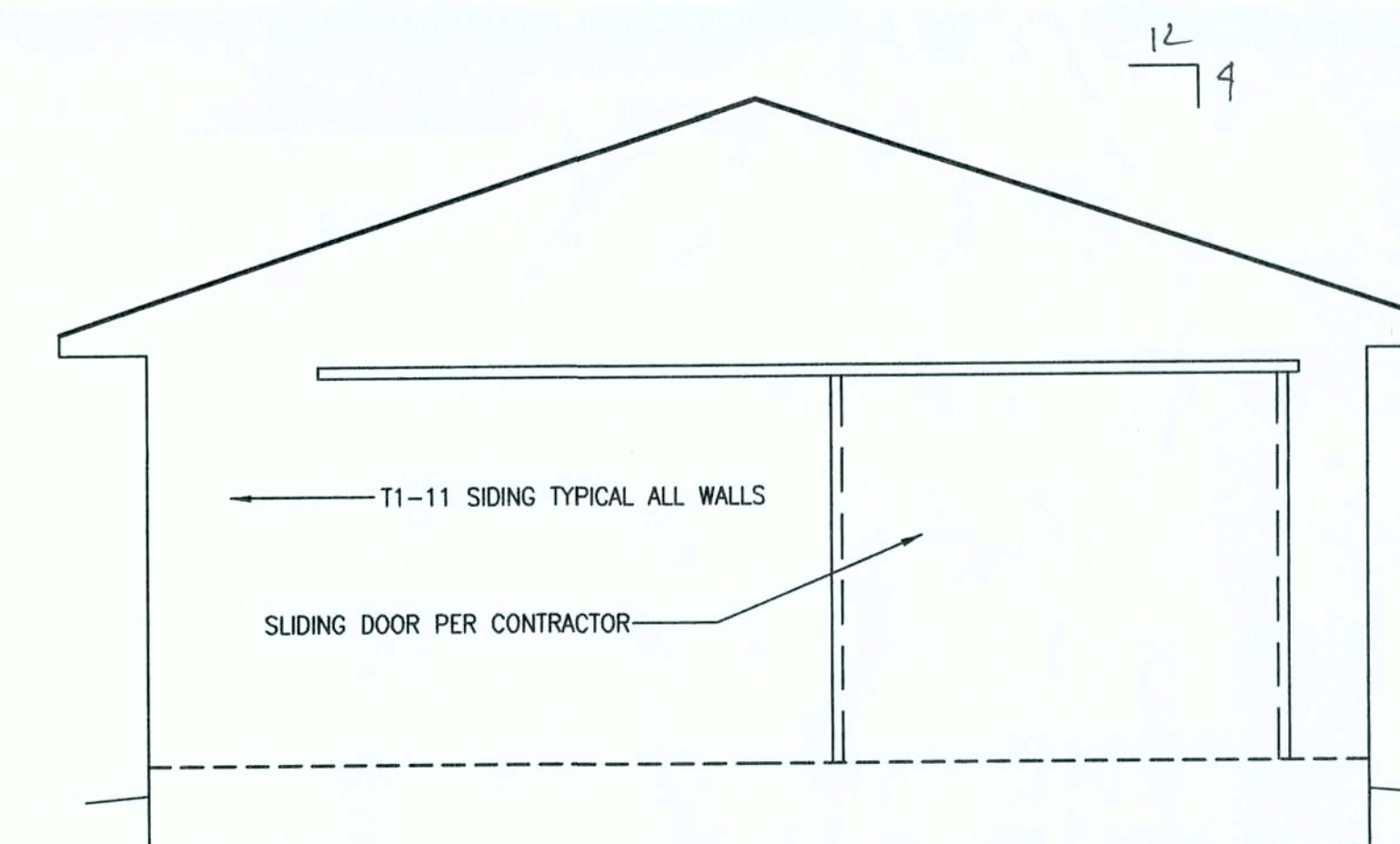


ALL DOORS, HARDWARE, ACCESSORIES, LOCKS, ETC SHALL BE FURNISHED BY CONTRACTOR.

ELEVATION B-B



ALL DOORS, HARDWARE, ACCESSORIES, LOCKS, ETC SHALL BE FURNISHED BY CONTRACTOR.

ELEVATION D-D

ALL DOORS, HARDWARE, ACCESSORIES, LOCKS, ETC SHALL BE FURNISHED BY CONTRACTOR.

ELEVATION C-C

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*[Signature]*  
10/23/07

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DRAWING SUBMITTAL HISTORY

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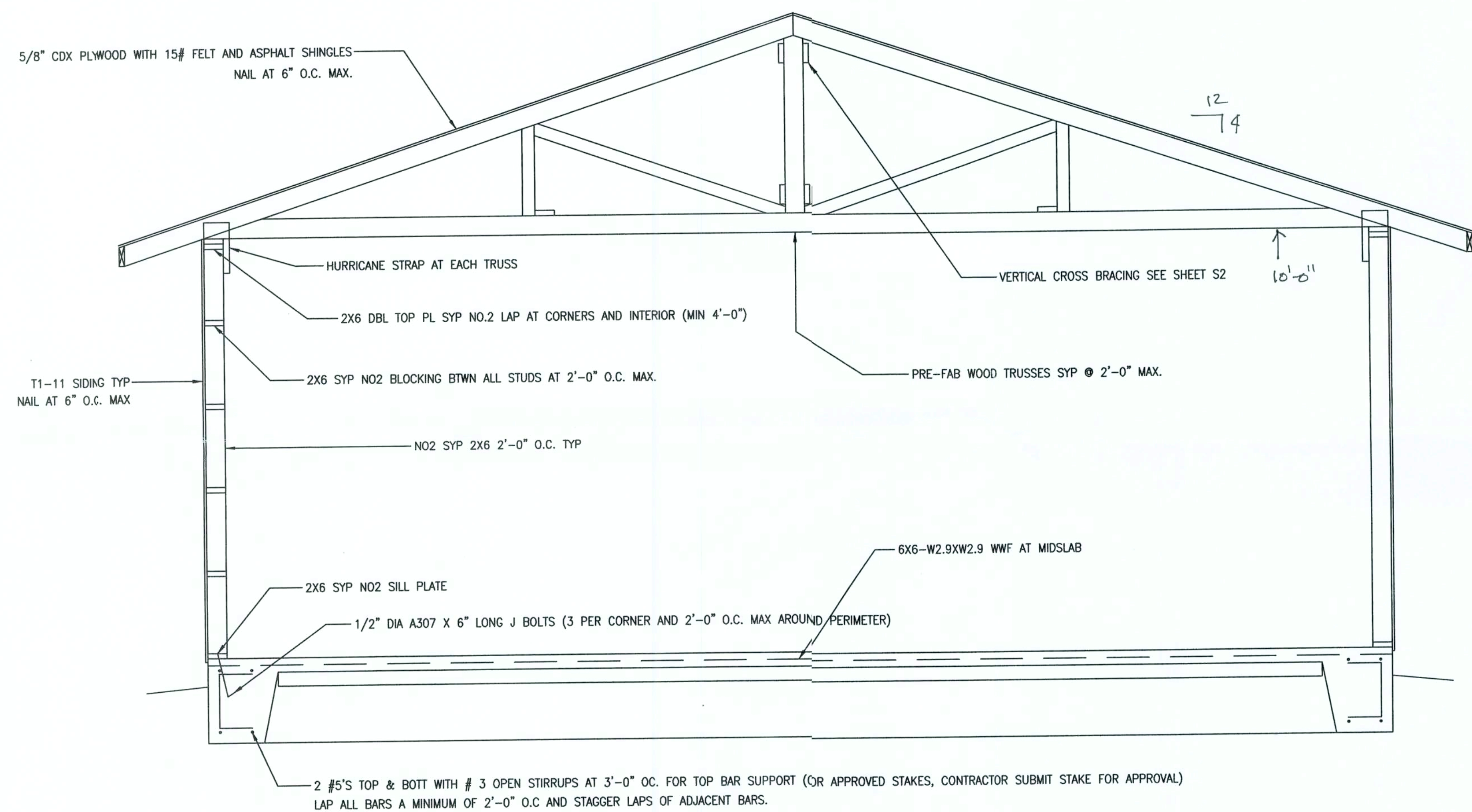
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JOB # 6CS



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NOTE:

ALL WOOD IS PRESSURE TREATED LUMBER

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*[Signature]*  
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