Front Elevation

Scale: 1/4"= 1'0"

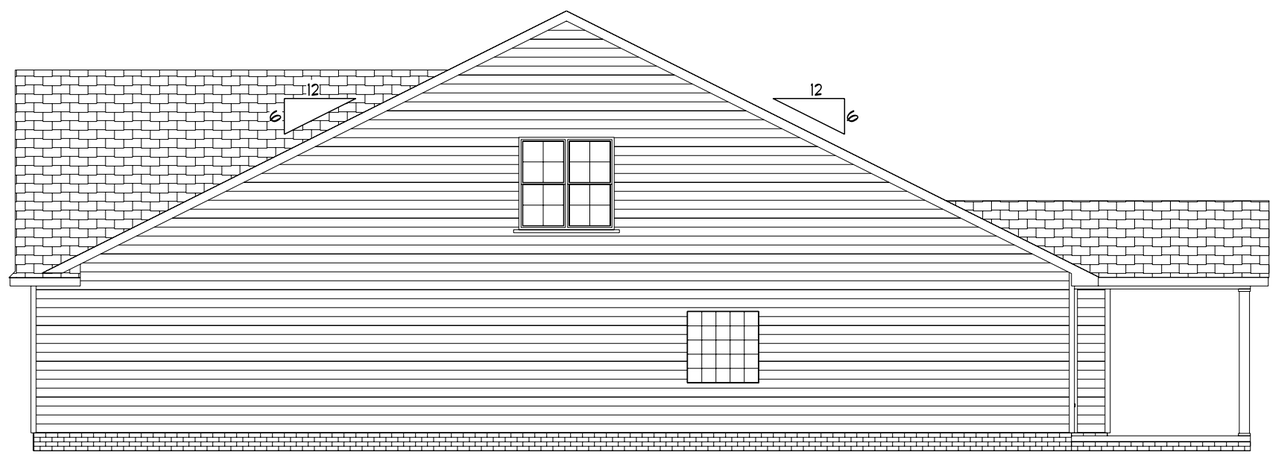
NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes and is subject to field inspection and verification.

APPROVED
Limited building only review
Permit holder responsible for full compliance with the code

07/28/2022

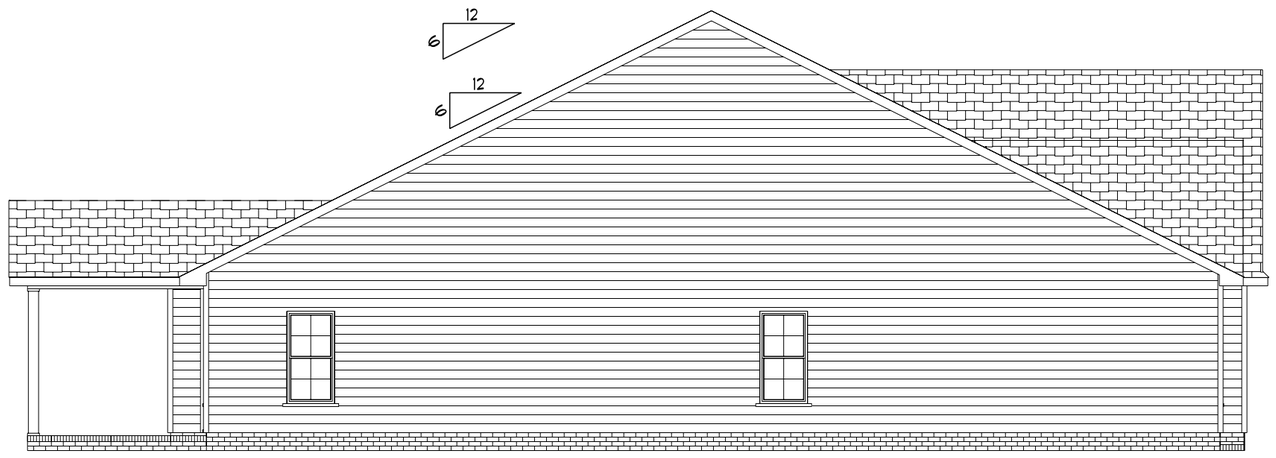
Harnett COUNTY NORTH CAROLINA

See notes on foundation page



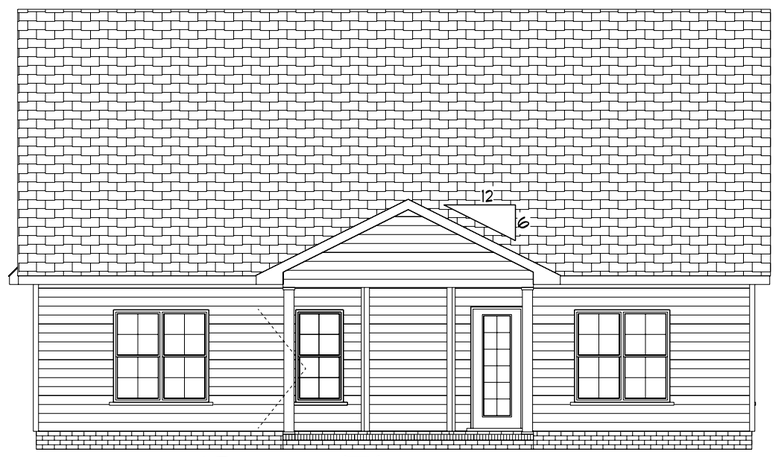
Right Elevation

Scale: 1/8"= 1'0"



Left Elevation

Scale: 1/8"= 1'0"



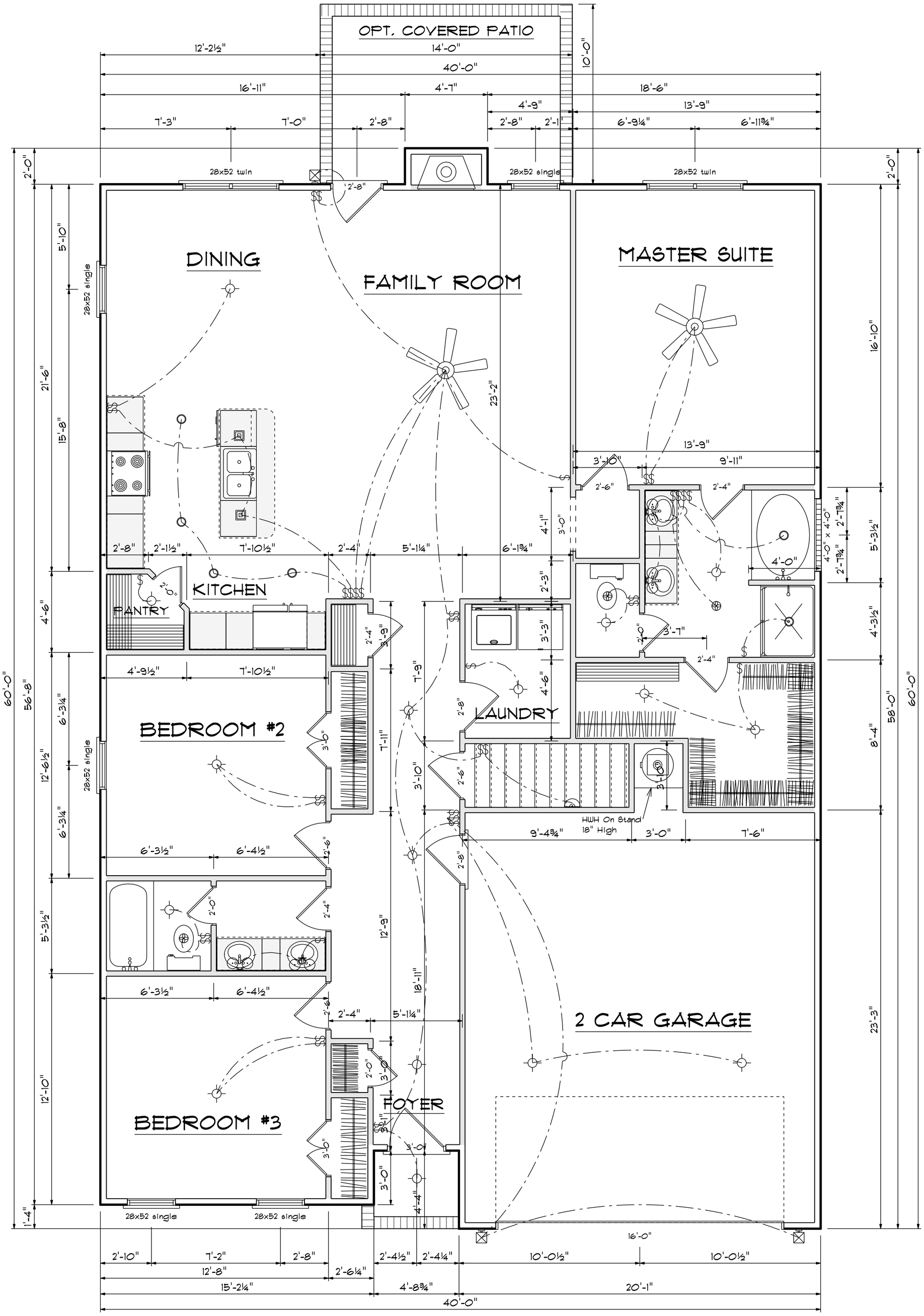
Rear Elevation

Scale: 1/8"= 1'0"

Wellco Contractors Inc.

Plan# 2

SCALE: 1/4"		DATE: 7/7/2022	
DRAWN BY		REVISED	
APPROVED		DRAWING#	



First Floor Plan

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

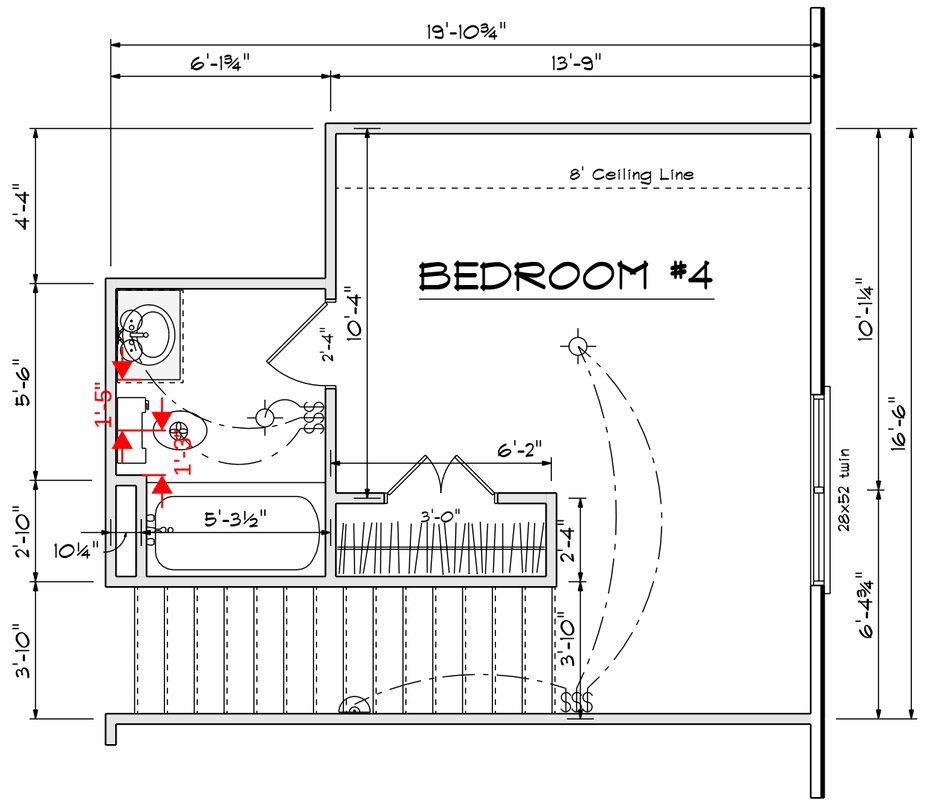
Areas

First Floor	1818
Second Floor	245
Total Heated	2063
Garage	486
Front Porch	26
Rear Opt. Porch	145

Wellco Contractors Inc.

Plan# 2

SCALE: 1/4"		DATE: 7/7/2022	
DRAWN BY		REVISED	
APPROVED		DRAWING#	



Second Floor Plan

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

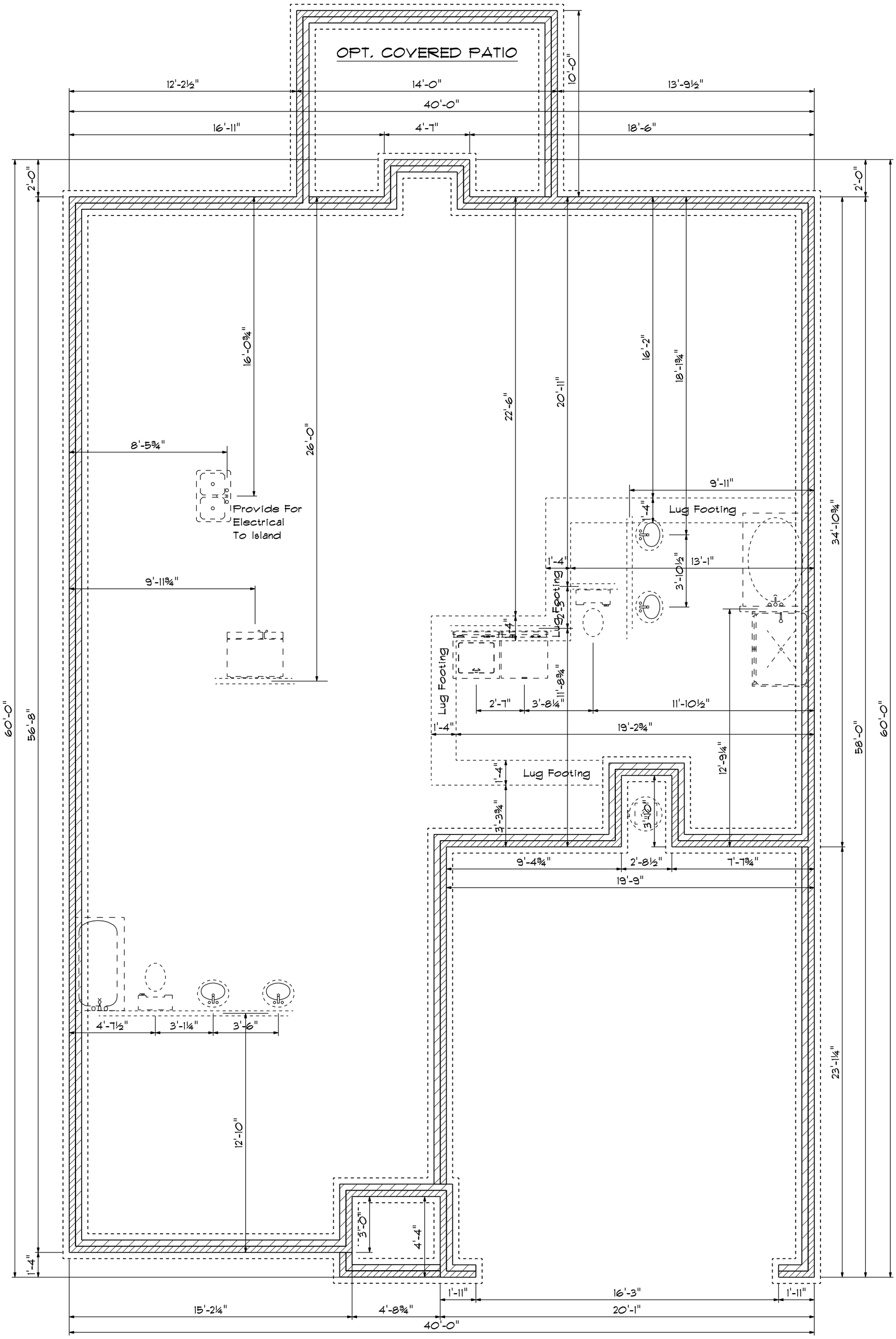
FIRST FLOOR OPENING SCHEDULE				
PRODUCT CODE	**SIZE**	**HINGE**	**REVERSED**	**COUNT**
36X80 COLONIAL A 1	3'-0"	L	NO	1
32X80 FRENCH A 1	2'-8"	R	NO	1
192X84 - 8 PANEL - GARAGE DOOR	16'-0"	U	NO	1
2-0 Door Unit	2'-0"	R	NO	1
2-0 Door Unit	2'-0"	L	NO	3
2-4 Door Unit	2'-4"	R	NO	1
2-4 Door Unit	2'-4"	L	NO	3
2-6 Door Unit	2'-6"	R	NO	3
2-6 Door Unit	2'-6"	L	NO	1
2-8 Door Unit	2'-8"	L	NO	1
2-8 Door Unit	2'-8"	R	NO	1
3-0 Doublehung Door Unit	3'-0"	LR	NO	1
3-0 Doublehung Door Unit	3'-0"	LR	NO	1
28x52 single	2'-8" x 5'-2"	N	NA	5
28x52 twin	5'-4" x 5'-2"	NN	NA	2
4X8 GLASS BLOCK	4'-0" x 4'-0"	N	NA	1

SECOND FLOOR OPENING SCHEDULE				
PRODUCT CODE	**SIZE**	**HINGE**	**REVERSED**	**COUNT**
2-4 Door Unit	2'-4"	L	NO	1
3-0 Doublehung Door Unit	3'-0"	LR	NO	1
28x52 twin	5'-4" x 5'-2"	NN	NA	1

Wellco Contractors Inc.

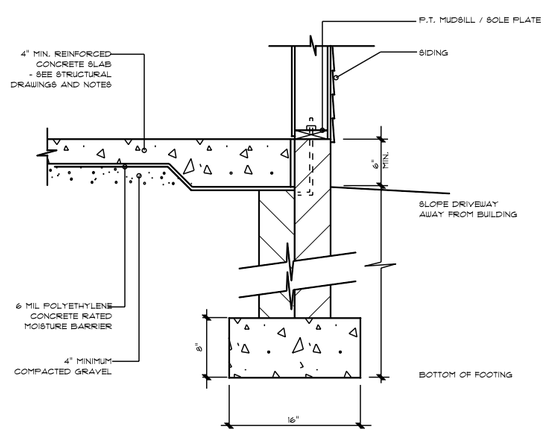
Plan# 2

SCALE: 1/4"		DATE: 7/7/2022	
DRAWN BY		REVISED	
APPROVED		DRAWING#	

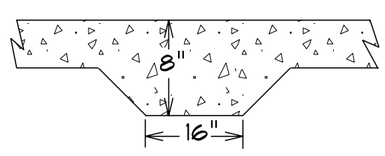


Foundation Plan

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



STEM WALL FOOTING DETAIL

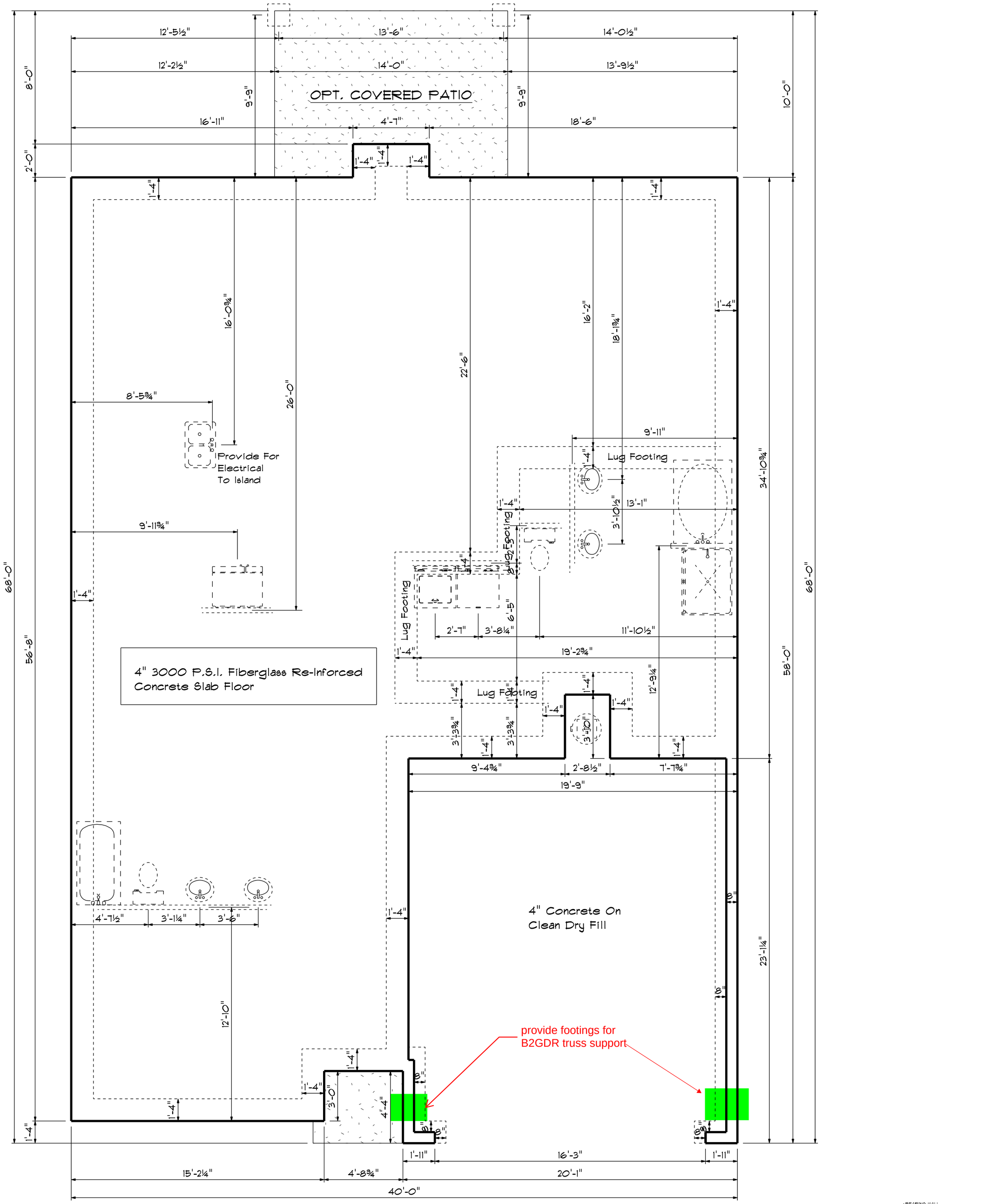


LUG FOOTING DETAIL

Welco Contractors Inc.

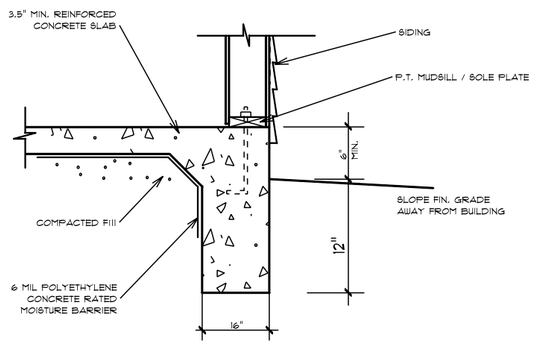
Plan# 2

SCALE: 1/4"		DATE: 7/7/2022	
DRAWN BY		REVISED	
APPROVED		DRAWING#	

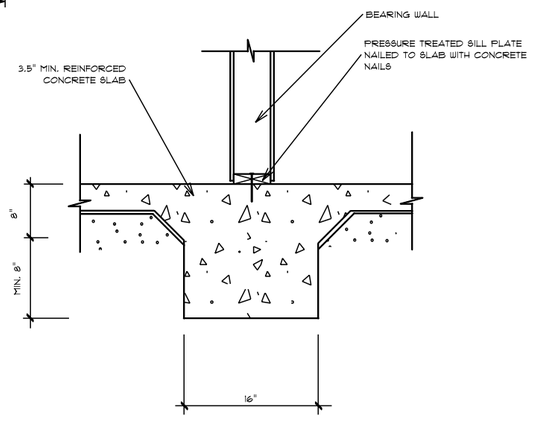


Foundation Plan

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



TURN-DOWN
FOOTING DETAIL

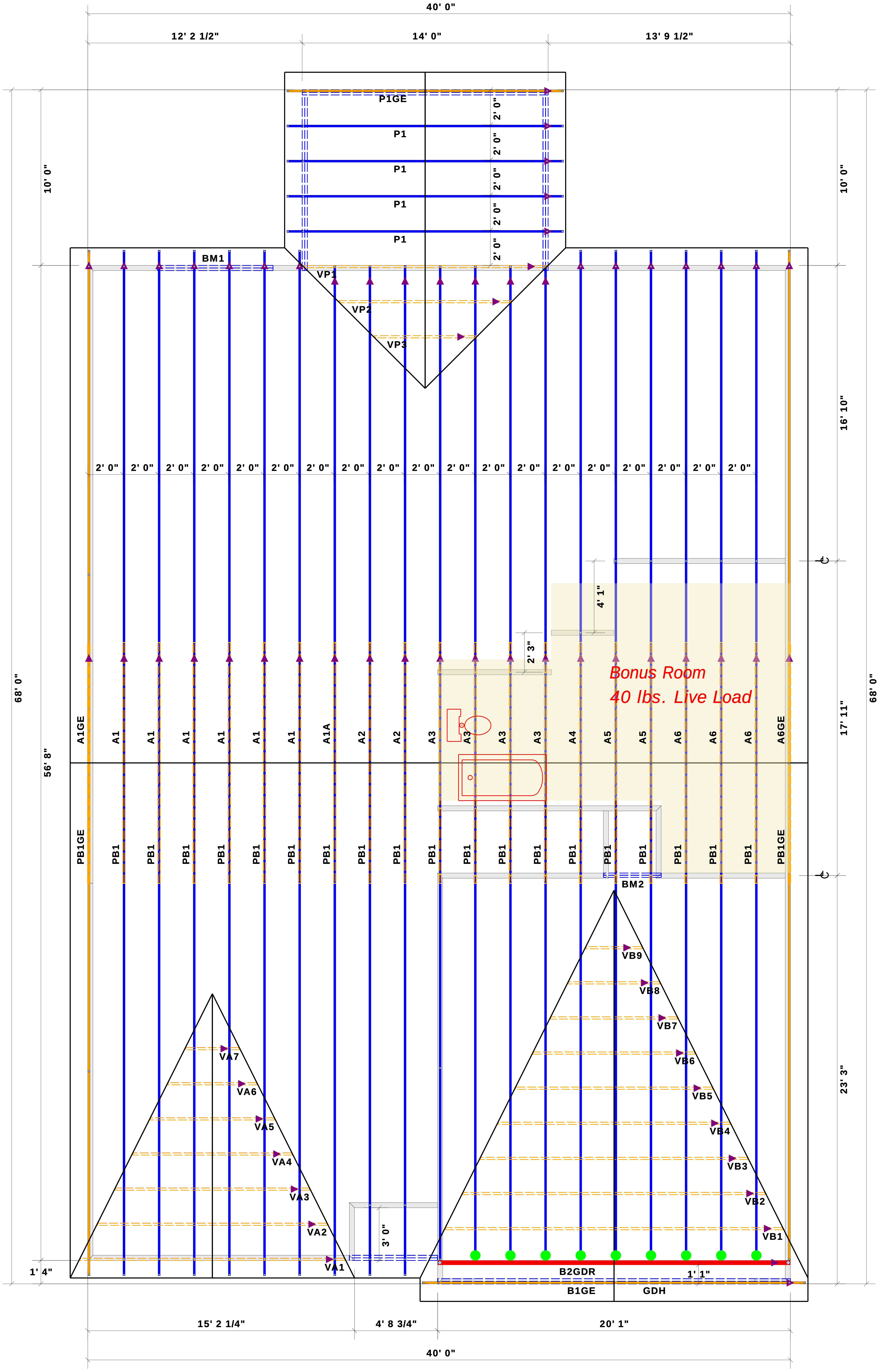


INTEGRAL SLAB FOOTING
DETAIL AT BEARING WALL

Welco Contractors Inc.

Plan# 2

SCALE: 1/4"		DATE: 7/7/2022	
DRAWN BY		REVISED	
APPROVED		DRAWING#	



Beam Legend					
PlotID	Length	Product	Plies	Net Qty	Fab Type
BM1	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF
GDH	21' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2	FF
BM2	4' 0"	2x8 SPF No.2	2	2	FF

▲ = Denotes Left End of Truss
(Reference Engineered Truss Drawing)
Do Not Erect Trusses Backwards

HANGER LEGEND

●	= *USP HUS26 / Single 2x Hanger*

Truss Placement Plan
SCALE: 1/4" = 1'

LOAD CHART FOR JACK STUDS
(BASED ON TABLES R502.5(1) & (b))
NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER

END REACTION (UP TO)	REQ'D STUDS FOR (1) PLY HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (2) PLY HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER
1700	1	2550	1	3400	1
3400	2	5100	2	6800	2
5100	3	7650	3	10200	3
6800	4	10200	4	13600	4
8500	5	12750	5	17000	5
10200	6	15300	6		
11900	7				
13600	8				
15300	9				

BUILDER	Wellco Contractors	CITY / CO.	Spring Lake / Harnett
JOB NAME	Lot 110 Hidden Lakes	ADDRESS	Site Address
PLAN	Plan 2	MODEL	Model
SEAL DATE	Seal Date	DATE REV.	07/14/22
QUOTE #	B0522-2881	DRAWN BY	Curtis Quick
JOB #	J0722-3667	SALES REP.	Lenny Norris

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.
These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature Curtis Quick
Curtis Quick

COMTECH
ROOF & FLOOR TRUSSES & BEAMS
Reilly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444

Reaction Summary of Order

ComTech ROOF & FLOOR TRUSSES & BEAMS
Reilly Road Industrial Park P.O. Box 40408
Fayetteville, N.C. 28309 (910) 864-TRUS

REQ. QUOTE DATE	/ /	**ORDER #**	J0722-3667
ORDER DATE	07/14/22	**QUOTE #**	
DELIVERY DATE	/ /	**CUSTOMER ACCT #**	0000006558
DATE OF INVOICE	/ /	**CUSTOMER PO #**	
ORDERED BY	Jason Wellons	**INVOICE #**	
COUNTY	Harnett	**TERMS**	
SUPERINTENDANT	Jason Wellons	**SALES REP**	Lenny Norris
JOBSITE PHONE #	(910) 263-0276	**SALES AREA**	Curtis Quick

SOLD TO
Wellco Contractors, Inc.
PO Box 766
Spring Lake, NC 28390
(910) 436-3131

SHIP TO
Wellco Contractors
Spring Lake, NC

JOB NAME: Lot 110 Hidden Lakes **LOT #** 110 **SUBDIV:** Hidden Lakes
MODEL: **TAG:** Plan 2 **JOB CATEGORY:** WCall - Will Call

DELIVERY INSTRUCTIONS:

SPECIAL INSTRUCTIONS:

PLAN SEAL DATE:

BUILDING DEPARTMENT
Roof Order

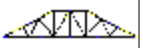
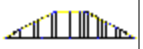
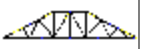
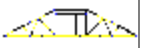
OVERHANG INFO		**HEEL HEIGHT**	00-04-05	**REQ. LAYOUTS**				**REQ. ENGINEERING**				**QUOTE**	**BY**	**DATE**
END CUT	**RETURN**													
PLUMB		**GABLE STUDS**	24 IN. OC			JOBSITE	1			JOBSITE	1	**LAYOUT**	CQ	07/14/22
												CUTTING	CQ	07/14/22

ROOF TRUSSES

LOADING INFORMATION

TCLL-TCDL-BCLL-BCDL	STRESS INCR.
20.0,10.0,0.0,10.0	1.15

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

PROFILE	QTY	PITCH		TYPE ID	BASE O/A	LUMBER		OVERHANG		REACTIONS				
	PLY	TOP	BOT			TOP	BOT	LEFT	RIGHT					
	6	6.00	0.00	PIGGYBACK A1	56-08-00 56-08-00	2 X 6	2 X 6	00-10-08	00-10-08	Joint 2 2420.0 lbs. -111.2 lbs.	Joint 12 2420.0 lbs. -111.2 lbs.			
	1	6.00	0.00	PIGGYBACK A1A	56-08-00 56-08-00	2 X 6	2 X 6		00-10-08	Joint 1 2376.5 lbs. -99.2 lbs.	Joint 11 2420.3 lbs. -111.2 lbs.			
	1	6.00	0.00	GABLE A1GE	56-08-00 56-08-00	2 X 6	2 X 6	00-10-08	00-10-08	Joint 2 155.2 lbs. -27.0 lbs.	Joint 34 136.3 lbs. 6.0 lbs.	Joint 36 189.1 lbs. -85.1 lbs.	Joint 37 151.9 lbs. -66.3 lbs.	Joint 38 161.7 lbs. -69.5 lbs.
	2	6.00	0.00	PIGGYBACK A2	56-08-00 56-08-00	2 X 6	2 X 6		00-10-08	Joint 1 2252.3 lbs. -100.9 lbs.	Joint 13 2547.5 lbs. -116.1 lbs.			
	4	6.00	0.00	GIRDER A3	56-08-00 56-08-00	2 X 6	2 X 8			Joint 1 763.4 lbs. -44.6 lbs.	Joint 11 707.3 lbs. -56.0 lbs.	Joint 14 1530.6 lbs. -101.7 lbs.	Joint 16 763.9 lbs. 87.1 lbs.	Joint 17 2237.9 lbs. 82.2 lbs.
	1	6.00	0.00	GIRDER A4	56-08-00 56-08-00	2 X	2 X 8	00-10-08		Joint 2 1065.2 lbs. -31.4 lbs.	Joint 13 1050.6 lbs. -29.3 lbs.	Joint 16 1168.8 lbs. -148.6 lbs.	Joint 18 1074.9 lbs. 116.7 lbs.	Joint 19 2064.5 lbs. 93.0 lbs.
	2	6.00	0.00	GIRDER A5	56-08-00 56-08-00	2 X	2 X 8	00-10-08		Joint 2 770.8 lbs. -16.8 lbs.	Joint 13 919.2 lbs. -36.1 lbs.	Joint 16 786.2 lbs. -218.9 lbs.	Joint 18 2048.8 lbs. 311.3 lbs.	Joint 20 1710.7 lbs. 48.2 lbs.
	3	6.00	0.00	GIRDER A6	56-08-00 56-08-00	2 X	2 X 8	00-10-08		Joint 2 1180.3 lbs. -9.2 lbs.	Joint 13 1350.8 lbs. -24.0 lbs.	Joint 16 2051.5 lbs. 153.1 lbs.	Joint 19 1906.0 lbs. 91.5 lbs.	
	1	6.00	0.00	GABLE A6GE	56-08-00 56-08-00	2 X	2 X 8	00-10-08		Joint 2 1180.3 lbs. -135.0 lbs.	Joint 13 1350.8 lbs. -171.1 lbs.	Joint 16 2028.7 lbs. -37.5 lbs.	Joint 19 1882.1 lbs. -136.8 lbs.	
	1	12.00	0.00	COMMON B1GE	20-01-00 20-01-00	2 X 6	2 X 6	00-10-08	00-10-08	Joint 2 305.5 lbs. -125.4 lbs.	Joint 12 269.6 lbs. -70.8 lbs.	Joint 14 222.6 lbs. -222.0 lbs.	Joint 15 186.4 lbs. -133.6 lbs.	Joint 16 195.3 lbs. -159.1 lbs.

Reaction Summary of Order

ComTech ROOF & FLOOR TRUSSES & BEAMS
Reilly Road Industrial Park P.O. Box 40408
Fayetteville, N.C. 28309 (910) 864-TRUS

REQ. QUOTE DATE	/ /	**ORDER #**	J0722-3667
ORDER DATE	07/14/22	**QUOTE #**	
DELIVERY DATE	/ /	**CUSTOMER ACCT #**	0000006558
DATE OF INVOICE	/ /	**CUSTOMER PO #**	
ORDERED BY	Jason Wellons	**INVOICE #**	
COUNTY	Harnett	**TERMS**	
SUPERINTENDANT	Jason Wellons	**SALES REP**	Lenny Norris
JOBSITE PHONE #	(910) 263-0276	**SALES AREA**	Curtis Quick

SOLD TO
Wellco Contractors, Inc.
PO Box 766
Spring Lake, NC 28390
(910) 436-3131

SHIP TO
Wellco Contractors
Spring Lake, NC

JOB NAME: Lot 110 Hidden Lakes **LOT #** 110 **SUBDIV:** Hidden Lakes
MODEL: **TAG:** Plan 2 **JOB CATEGORY:** WCall - Will Call

DELIVERY INSTRUCTIONS:

SPECIAL INSTRUCTIONS:

PLAN SEAL DATE:

BUILDING DEPARTMENT
Roof Order

OVERHANG INFO		**HEEL HEIGHT**	00-04-05	**REQ. LAYOUTS**				**REQ. ENGINEERING**					**BY**	**DATE**
END CUT	**RETURN**											**QUOTE**		/ /
PLUMB		**GABLE STUDS**	24 IN. OC			JOBSITE	1			JOBSITE	1	**LAYOUT**	CQ	07/14/22
												CUTTING	CQ	07/14/22

ROOF TRUSSES

LOADING INFORMATION

TCLL-TCDL-BCLL-BCDL	STRESS INCR.
20.0,10.0,0.0,10.0	1.15

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

PROFILE	QTY / PLY	PITCH TOP	PITCH BOT	TYPE ID	BASE O/A	LUMBER TOP	LUMBER BOT	OVERHANG LEFT	OVERHANG RIGHT	REACTIONS
	1 / 2 Ply	12.00	0.00	FINK B2GDR	20-01-00 20-01-00	2 X 6	2 X 10			Joint 1 6204.8 lbs. 63.0 lbs. Joint 5 6066.0 lbs. 864.7 lbs.
	4	6.00	0.00	COMMON P1	14-00-00 14-00-00	2 X 4	2 X 6	00-10-08	00-10-08	Joint 2 609.6 lbs. -125.1 lbs. Joint 4 609.6 lbs. -125.1 lbs.
	1	6.00	0.00	GABLE P1GE	14-00-00 14-00-00	2 X 4	2 X 6	00-10-08	00-10-08	Joint 2 609.6 lbs. -141.4 lbs. Joint 4 609.6 lbs. -141.4 lbs.
	19	6.00	0.00	PIGGYBACK PB1	11-09-06 11-09-06	2 X 4	2 X 4			Joint 2 258.0 lbs. -38.2 lbs. Joint 4 258.0 lbs. -45.6 lbs. Joint 6 507.6 lbs. 1.5 lbs.
	2	6.00	0.00	GABLE PB1GE	11-09-06 11-09-06	2 X 4	2 X 4			Joint 2 111.8 lbs. -20.1 lbs. Joint 8 111.9 lbs. -24.1 lbs. Joint 10 163.1 lbs. -69.9 lbs. Joint 11 168.3 lbs. -74.0 lbs. Joint 12 137.4 lbs. 27.7 lbs.
	1	12.00	0.00	GABLE VA1	15-00-08 15-00-08	2 X 4	2 X 4			Joint 1 195.0 lbs. -98.1 lbs. Joint 9 170.8 lbs. -62.1 lbs. Joint 10 170.6 lbs. -123.8 lbs. Joint 11 194.0 lbs. -144.7 lbs. Joint 12 198.0 lbs. -140.0 lbs.
	1	12.00	0.00	VALLEY VA2	13-00-08 13-00-08	2 X 4	2 X 4			Joint 1 123.9 lbs. -41.3 lbs. Joint 5 105.5 lbs. -16.9 lbs. Joint 6 375.7 lbs. -162.9 lbs. Joint 7 385.9 lbs. 57.1 lbs. Joint 8 376.0 lbs. -163.0 lbs.
	1	12.00	0.00	VALLEY VA3	11-00-08 11-00-08	2 X 4	2 X 4			Joint 1 117.4 lbs. -95.0 lbs. Joint 5 102.6 lbs. -74.5 lbs. Joint 6 347.0 lbs. -166.0 lbs. Joint 7 221.6 lbs. 53.0 lbs. Joint 8 347.1 lbs. -166.0 lbs.
	1	12.00	0.00	VALLEY VA4	09-00-08 09-00-08	2 X 4	2 X 4			Joint 1 190.5 lbs. -25.0 lbs. Joint 2 565.0 lbs. -159.4 lbs. Joint 3 190.5 lbs. -25.0 lbs. Joint 4 291.0 lbs. 11.7 lbs.
	1	12.00	0.00	VALLEY VA5	07-00-08 07-00-08	2 X 4	2 X 4			Joint 1 155.9 lbs. -27.8 lbs. Joint 3 155.9 lbs. -27.8 lbs. Joint 4 200.2 lbs. 26.4 lbs.

Reaction Summary of Order

ComTech ROOF & FLOOR TRUSSES & BEAMS
Reilly Road Industrial Park P.O. Box 40408
Fayetteville, N.C. 28309 (910) 864-TRUS

REQ. QUOTE DATE	/ /	**ORDER #**	J0722-3667
ORDER DATE	07/14/22	**QUOTE #**	
DELIVERY DATE	/ /	**CUSTOMER ACCT #**	0000006558
DATE OF INVOICE	/ /	**CUSTOMER PO #**	
ORDERED BY	Jason Wellons	**INVOICE #**	
COUNTY	Harnett	**TERMS**	
SUPERINTENDANT	Jason Wellons	**SALES REP**	Lenny Norris
JOBSITE PHONE #	(910) 263-0276	**SALES AREA**	Curtis Quick

SOLD TO
Wellco Contractors, Inc.
PO Box 766
Spring Lake, NC 28390
(910) 436-3131

SHIP TO
Wellco Contractors
Spring Lake, NC

JOB NAME: Lot 110 Hidden Lakes **LOT #** 110 **SUBDIV:** Hidden Lakes
MODEL: **TAG:** Plan 2 **JOB CATEGORY:** WCall - Will Call

DELIVERY INSTRUCTIONS:

SPECIAL INSTRUCTIONS:

PLAN SEAL DATE:

BUILDING DEPARTMENT
Roof Order

OVERHANG INFO		**HEEL HEIGHT**	00-04-05	**REQ. LAYOUTS**				**REQ. ENGINEERING**					**BY**	**DATE**
END CUT	**RETURN**											**QUOTE**		/ /
PLUMB		**GABLE STUDS**	24 IN. OC			JOBSITE	1			JOBSITE	1	**LAYOUT**	CQ	07/14/22
												CUTTING	CQ	07/14/22

ROOF TRUSSES

LOADING INFORMATION

TCLL-TCDL-BCLL-BCDL	STRESS INCR.
20.0,10.0,0.0,10.0	1.15

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

PROFILE	QTY PLY	PITCH TOP	PITCH BOT	TYPE ID	BASE O/A	LUMBER TOP	LUMBER BOT	OVERHANG LEFT	OVERHANG RIGHT	REACTIONS
	1	12.00	0.00	VALLEY VA6	05-00-08 05-00-08	2 X 4	2 X 4			Joint 1 107.2 lbs. -19.1 lbs. Joint 3 107.1 lbs. -19.1 lbs. Joint 4 137.7 lbs. 18.1 lbs.
	1	12.00	0.00	VALLEY VA7	03-00-08 03-00-08	2 X 4	2 X 4			Joint 1 58.5 lbs. -10.4 lbs. Joint 3 58.4 lbs. -10.4 lbs. Joint 4 75.1 lbs. 9.9 lbs.
	1	12.00	0.00	GABLE VB1	19-02-04 19-02-04	2 X 4	2 X 4			Joint 1 261.6 lbs. -133.4 lbs. Joint 2 1509.1 lbs. -219.3 lbs. Joint 10 1456.4 lbs. -198.9 lbs. Joint 11 230.2 lbs. -86.9 lbs. Joint 12 173.6 lbs. -127.1 lbs.
	1	12.00	0.00	VALLEY VB2	17-02-04 17-02-04	2 X 4	2 X 4			Joint 1 199.6 lbs. -24.1 lbs. Joint 5 175.1 lbs. 8.5 lbs. Joint 6 538.8 lbs. -208.2 lbs. Joint 8 415.1 lbs. 62.1 lbs. Joint 9 539.1 lbs. -208.3 lbs.
	1	12.00	0.00	VALLEY VB3	15-02-04 15-02-04	2 X 4	2 X 4			Joint 1 165.2 lbs. -30.5 lbs. Joint 5 143.6 lbs. -1.8 lbs. Joint 6 456.2 lbs. -182.1 lbs. Joint 7 413.8 lbs. 60.3 lbs. Joint 8 456.5 lbs. -182.3 lbs.
	1	12.00	0.00	VALLEY VB4	13-02-04 13-02-04	2 X 4	2 X 4			Joint 1 127.0 lbs. -39.7 lbs. Joint 5 108.4 lbs. -14.9 lbs. Joint 6 379.8 lbs. -163.8 lbs. Joint 7 388.8 lbs. 57.4 lbs. Joint 8 380.2 lbs. -163.9 lbs.
	1	12.00	0.00	VALLEY VB5	11-02-04 11-02-04	2 X 4	2 X 4			Joint 1 116.1 lbs. -88.8 lbs. Joint 5 99.4 lbs. -68.0 lbs. Joint 6 343.7 lbs. -164.2 lbs. Joint 7 222.0 lbs. 53.3 lbs. Joint 8 343.9 lbs. -164.2 lbs.
	1	12.00	0.00	VALLEY VB6	09-02-04 09-02-04	2 X 4	2 X 4			Joint 1 193.8 lbs. -25.4 lbs. Joint 3 193.8 lbs. -25.4 lbs. Joint 4 296.1 lbs. 11.9 lbs.
	1	12.00	0.00	VALLEY VB7	07-02-04 07-02-04	2 X 4	2 X 4			Joint 1 159.5 lbs. -28.4 lbs. Joint 3 159.4 lbs. -28.4 lbs. Joint 4 204.8 lbs. 27.0 lbs.
	1	12.00	0.00	VALLEY VB8	05-02-04 05-02-04	2 X 4	2 X 4			Joint 1 110.8 lbs. -19.7 lbs. Joint 3 110.7 lbs. -19.7 lbs. Joint 4 142.2 lbs. 18.7 lbs.

Reaction Summary of Order

ComTech ROOF & FLOOR TRUSSES & BEAMS
Reilly Road Industrial Park P.O. Box 40408
Fayetteville, N.C. 28309 (910) 864-TRUS

REQ. QUOTE DATE	/ /	**ORDER #**	J0722-3667
ORDER DATE	07/14/22	**QUOTE #**	
DELIVERY DATE	/ /	**CUSTOMER ACCT #**	0000006558
DATE OF INVOICE	/ /	**CUSTOMER PO #**	
ORDERED BY	Jason Wellons	**INVOICE #**	
COUNTY	Harnett	**TERMS**	
SUPERINTENDANT	Jason Wellons	**SALES REP**	Lenny Norris
JOBSITE PHONE #	(910) 263-0276	**SALES AREA**	Curtis Quick

SOLD TO
Wellco Contractors, Inc.
PO Box 766
Spring Lake, NC 28390
(910) 436-3131

SHIP TO
Wellco Contractors
Spring Lake, NC

JOB NAME: Lot 110 Hidden Lakes **LOT #** 110 **SUBDIV:** Hidden Lakes
MODEL: **TAG:** Plan 2 **JOB CATEGORY:** WCall - Will Call

DELIVERY INSTRUCTIONS:

SPECIAL INSTRUCTIONS:

PLAN SEAL DATE:

BUILDING DEPARTMENT
Roof Order

OVERHANG INFO		**HEEL HEIGHT**	00-04-05	**REQ. LAYOUTS**				**REQ. ENGINEERING**					**BY**	**DATE**
END CUT	**RETURN**											**QUOTE**		/ /
PLUMB		**GABLE STUDS**	24 IN. OC			JOBSITE	1			JOBSITE	1	**LAYOUT**	CQ	07/14/22
												CUTTING	CQ	07/14/22

ROOF TRUSSES

LOADING INFORMATION

TCLL-TCDL-BCLL-BCDL	STRESS INCR.
20.0,10.0,0.0,10.0	1.15

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

PROFILE	QTY PLY	PITCH TOP	PITCH BOT	TYPE ID	BASE O/A	LUMBER TOP	LUMBER BOT	OVERHANG LEFT	OVERHANG RIGHT	REACTIONS
	1	12.00	0.00	VALLEY VB9	03-02-04 03-02-04	2 X 4	2 X 4			Joint 1 101.8 lbs. -3.3 lbs. Joint 3 101.8 lbs. -3.3 lbs.
	1	6.00	0.00	VALLEY VP1	13-08-09 13-08-09	2 X 4	2 X 4			Joint 1 61.3 lbs. -3.1 lbs. Joint 5 61.4 lbs. 4.1 lbs. Joint 6 305.1 lbs. -70.4 lbs. Joint 7 284.3 lbs. 25.7 lbs. Joint 8 305.0 lbs. -70.6 lbs.
	1	6.00	0.00	VALLEY VP2	09-08-09 09-08-09	2 X 4	2 X 4			Joint 1 157.9 lbs. -20.9 lbs. Joint 3 158.0 lbs. -25.7 lbs. Joint 4 369.5 lbs. 0.5 lbs.
	1	6.00	0.00	VALLEY VP3	05-08-09 05-08-09	2 X 4	2 X 4			Joint 1 92.5 lbs. -14.8 lbs. Joint 3 92.5 lbs. -17.4 lbs. Joint 4 177.6 lbs. 7.7 lbs.

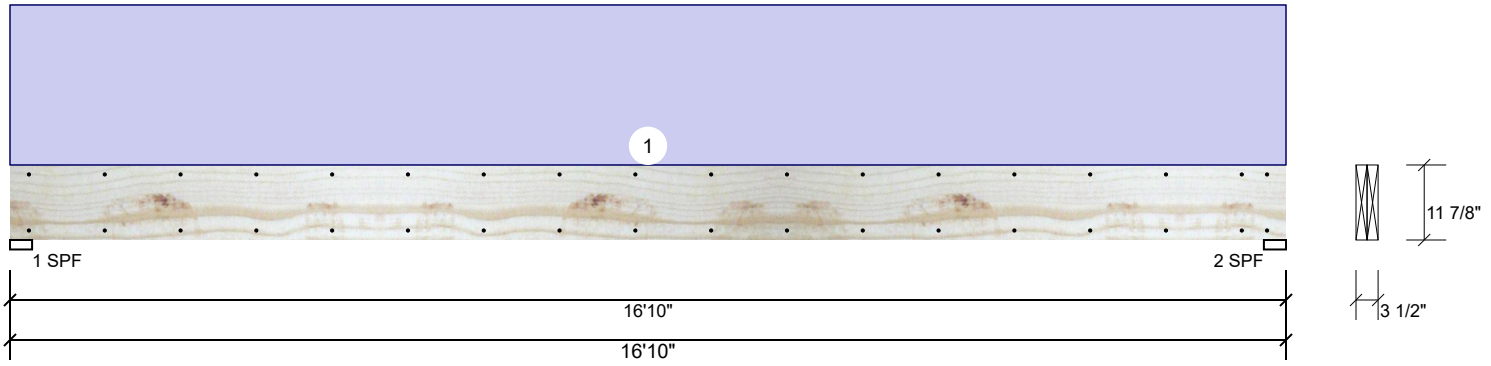
ITEMS

QTY	ITEM TYPE	SIZE	LENGTH FT-IN-16	PART NUMBER	NOTES
9	Hangers, USP	HUS 26			SIMPSON (HUS26)
2	LVL Beams (Sized)	LVL, 1-3/4" x 9-1/4" (S)	07-00-00		BM1
2	LVL Beams (Sized)	LVL, 1-3/4" x 11-7/8" (S)	21-00-00		GDH

Client:	Wellco Contractors	Date:	7/15/2022
Project:		Input by:	Curtis Quick
Address:		Job Name:	Plan 2 Beams
		Project #:	

GDH Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	2182	0	0	0
2	Vertical	0	2182	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	42%	2182 / 0	2182	Uniform	D
2 - SPF	3.500"	Vert	42%	2182 / 0	2182	Uniform	D

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	8689 ft-lb	8'5"	17919 ft-lb	0.485 (48%)	D	Uniform
Unbraced	8689 ft-lb	8'5"	8702 ft-lb	0.998 (100%)	D	Uniform
Shear	1859 lb	15'6 5/8"	7980 lb	0.233 (23%)	D	Uniform
LL Defl inch	0.000 (L/999)	0	999.000 (L/0)	0.000 (0%)		
TL Defl inch	0.453 (L/433)	8'5 1/16"	0.546 (L/360)	0.831 (83%)	D	Uniform

Design Notes

1. Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
2. Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
3. Refer to last page of calculations for fasteners required for specified loads.
4. Girders are designed to be supported on the bottom edge only.
5. Top loads must be supported equally by all plies.
6. Top must be laterally braced at a maximum of 10'8 15/16" o.c.
7. Bottom must be laterally braced at end bearings.
8. Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Top	250 PLF	0 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				9 PLF					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation
6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

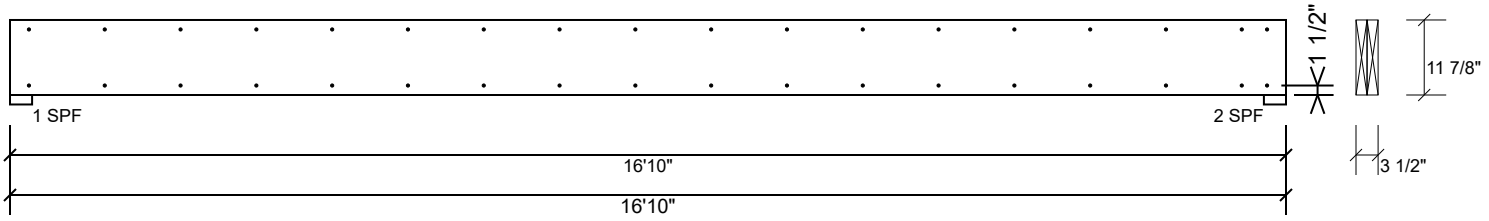
Metsä Wood
301 Merritt 7 Building, 2nd Floor
Norwalk, CT 06851
(800) 622-5850
www.metsawood.com/us

Comtech, Inc.
1001 S. Reilly Road, Suite #639
Fayetteville, NC
USA
28314
910-864-TRUS

Client:	Wellco Contractors	Date:	7/15/2022
Project:		Input by:	Curtis Quick
Address:		Job Name:	Plan 2 Beams
		Project #:	

GDH Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation
6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

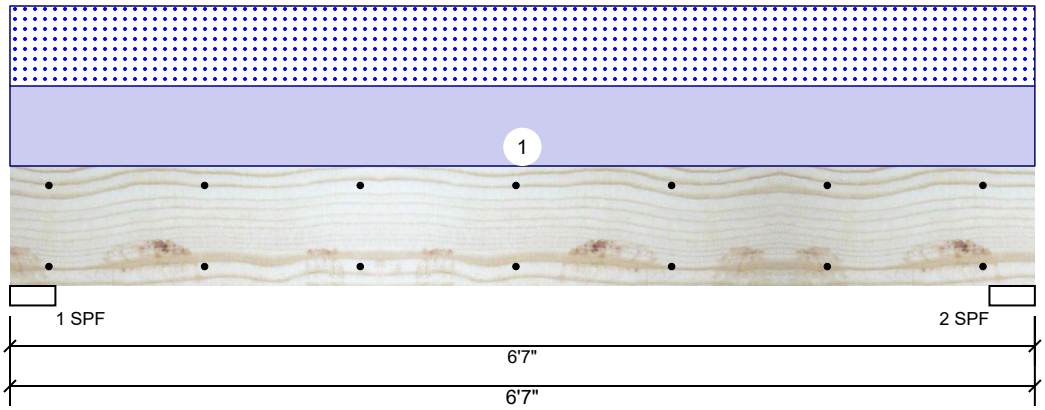
Metsä Wood
301 Merritt 7 Building, 2nd Floor
Norwalk, CT 06851
(800) 622-5850
www.metsawood.com/us

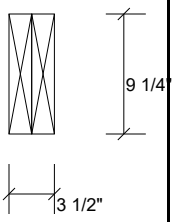
Comtech, Inc.
1001 S. Reilly Road, Suite #639
Fayetteville, NC
USA
28314
910-864-TRUS

Client:	Wellco Contractors	Date:	7/15/2022
Project:		Input by:	Curtis Quick
Address:		Job Name:	Plan 2 Beams
		Project #:	

BM1 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level





Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	2015	1991	0	0
2	Vertical	0	2015	1991	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	77%	2015 / 1991	4007	L	D+S
2 - SPF	3.500"	Vert	77%	2015 / 1991	4007	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5708 ft-lb	3'3 1/2"	14423 ft-lb	0.396 (40%)	D+S	L
Unbraced	5708 ft-lb	3'3 1/2"	10451 ft-lb	0.546 (55%)	D+S	L
Shear	2719 lb	1' 3/4"	7943 lb	0.342 (34%)	D+S	L
LL Defl inch	0.052 (L/1425)	3'3 1/2"	0.153 (L/480)	0.337 (34%)	S	L
TL Defl inch	0.104 (L/708)	3'3 1/2"	0.204 (L/360)	0.508 (51%)	D+S	L

Design Notes

1. Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
2. Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
3. Refer to last page of calculations for fasteners required for specified loads.
4. Girders are designed to be supported on the bottom edge only.
5. Top loads must be supported equally by all plies.
6. Top must be laterally braced at end bearings.
7. Bottom must be laterally braced at end bearings.
8. Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Top	605 PLF	0 PLF	605 PLF	0 PLF	0 PLF	A1
	Self Weight				7 PLF					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation
6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

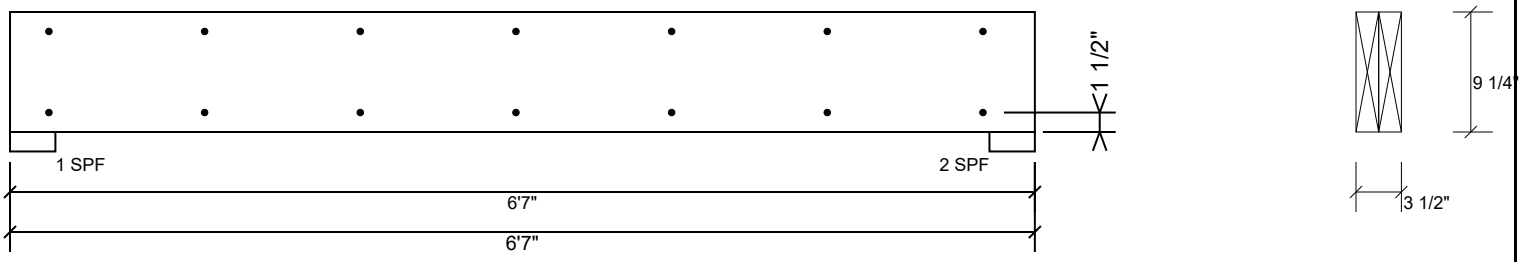
Metsä Wood
301 Merritt 7 Building, 2nd Floor
Norwalk, CT 06851
(800) 622-5850
www.metsawood.com/us

Comtech, Inc.
1001 S. Reilly Road, Suite #639
Fayetteville, NC
USA
28314
910-864-TRUS

Client:	Wellco Contractors	Date:	7/15/2022
Project:		Input by:	Curtis Quick
Address:		Job Name:	Plan 2 Beams
		Project #:	

BM1 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation
6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

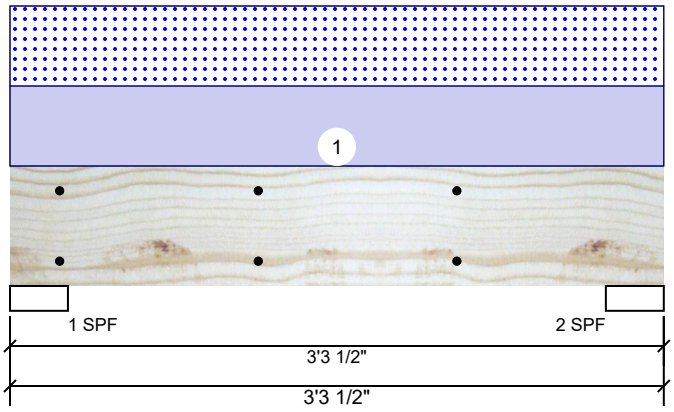
Manufacturer Info

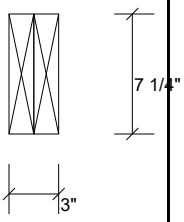
Metsä Wood
301 Merritt 7 Building, 2nd Floor
Norwalk, CT 06851
(800) 622-5850
www.metsawood.com/us

Comtech, Inc.
1001 S. Reilly Road, Suite #639
Fayetteville, NC
USA
28314
910-864-TRUS

BM2 S-P-F #2 2.000" X 8.000" 2-Ply - PASSED

Level: Level





Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	397	397	0	0
2	Vertical	0	397	397	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	18%	397 / 397	793	L	D+S
2 - SPF	3.500"	Vert	18%	397 / 397	793	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	484 ft-lb	1'7 3/4"	2645 ft-lb	0.183 (18%)	D+S	L
Unbraced	484 ft-lb	1'7 3/4"	2586 ft-lb	0.187 (19%)	D+S	L
Shear	362 lb	2'4 3/4"	2251 lb	0.161 (16%)	D+S	L
LL Defl inch	0.003 (L/12977)	1'7 3/4"	0.071 (L/480)	0.037 (4%)	S	L
TL Defl inch	0.005 (L/6488)	1'7 3/4"	0.094 (L/360)	0.055 (6%)	D+S	L

Design Notes

1. Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
2. Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
3. Refer to last page of calculations for fasteners required for specified loads.
4. Girders are designed to be supported on the bottom edge only.
5. Top loads must be supported equally by all plies.
6. Top must be laterally braced at end bearings.
7. Bottom must be laterally braced at end bearings.
8. Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Top	241 PLF	0 PLF	241 PLF	0 PLF	0 PLF	A5

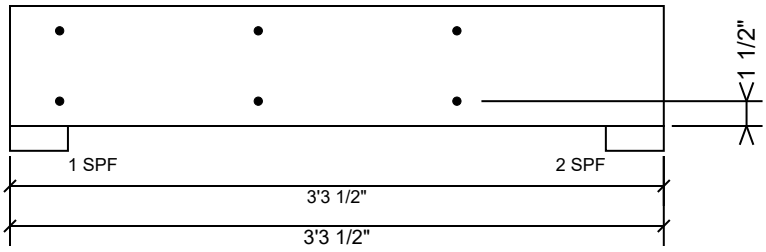
This design is valid until 11/3/2024

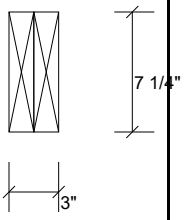
Manufacturer Info

Comtech, Inc.
1001 S. Reilly Road, Suite #639
Fayetteville, NC
USA
28314
910-864-TRUS

BM2 S-P-F #2 2.000" X 8.000" 2-Ply - PASSED

Level: Level





Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	157.4 PLF
Yield Limit per Fastener	78.7 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Manufacturer Info

Comtech, Inc.
1001 S. Reilly Road, Suite #639
Fayetteville, NC
USA
28314
910-864-TRUS

This design is valid until 11/3/2024