Filename 3D: Christ and Holy Trinity Episcopal 3D.3d
Output date 3D: 9/28/2010 Customer:
Actual date: 9/28/2010 Project number:
User name:

Project description:

No.	PL	Name	Material	Quantity	List width [inch]	List height [inch]	List length [inch]	Real length [inch]
20		Peg	Birch / 32	16	1 1/4"	1 1/4"	1'	1'
21		Log Hog	Steel / 6	348	1/4"	1/4"	7"	7"
22		Log Hog	Steel / 6	128	1/4"	1/4"	11"	11"
23		Lag	Steel	24	1/2"	1/2"	4"	4"
24		Lag	Steel	32	3/4"	3/4"	6"	6"
26		Bolt	Steel / 19	8	3/4"	3/4"	1'	1'
27	All Thread/Bolt		Steel	16	1"	1"	1' -6"	1' -9"
28	All Thread/Bolt		Steel	16	1"	1"	1' -8"	1' -11"
29	All Thread/Bolt		Steel	16	1"	1"	1' -6"	1' -10"
30		Bolt	Steel	24	3/4"	3/4"	7"	10"
36		Lag	Steel	28	5/8"	5/8"	6"	6"
Sum: Total				656				

Filename 3D: Christ and Holy Trinity Episcopal 3D.3d
Output date 3D: 9/22/2010 Customer:
Actual date: 9/22/2010 Project number:
User name:

Project description:

No.	PL	Name	Material	Quantity	List width [inch]	List height [inch]	List length [inch]	Real length [inch]
1		Rafter	Douglas Fir	30	3"	6"	12'	11' -7"
2		Purlin	Douglas Fir	33	3"	8"	12'	10' -6"
3		Purlin	Douglas Fir	48	3"	8"	12'	10' -6"
4		Purlin	Douglas Fir	16	3"	8"	12'	11' -5"
5		Purlin	Douglas Fir	22	3"	8"	12'	11' -5"
6		Purlin	Douglas Fir	16	3"	8"	12'	11' -5"
7		Rafter	Douglas Fir	2	3"	8"	12'	11' -7"
8		Rafter	Douglas Fir	12	3"	8"	12'	11' -7"
9		Blocking	Douglas Fir	8	4"	8"	16'	14' -9"
10		Blocking	Douglas Fir	4	4"	8"	24'	22' -10"
11	Rafter Plate		Douglas Fir	1	8"	10"	22'	21' -5"
12	Rafter Plate		Douglas Fir	1	8"	10"	26'	24'
13	Rafter Plate		Douglas Fir	1	8"	10"	26'	24'
14		Top Chord	Douglas Fir	8	10"	1"	16'	14' -4"
15	Bottom Chord		Douglas Fir	8	10"	1"	38'	36' -1"
16		Top Chord	Douglas Fir	4	10"	1' -2"	24'	23'
17		Corbel	Douglas Fir	4	10 1/2"	10"	2'	1' -8"
18		Corbel	Douglas Fir	4	10 1/2"	10"	2'	1' -8"
Sum: Total				222				

General Notes:

Timbers to be Douglas Fir #1 & Better S4S
Pegs to be 1" Birch
All edges to have 1/2" chamfer
One coat of stain, oil or urethane to be shop applied on all sides.
All Bolts to be 3/4" zinc coated Grade A307.
All Steel to be A36 and to be shop primed flat black.

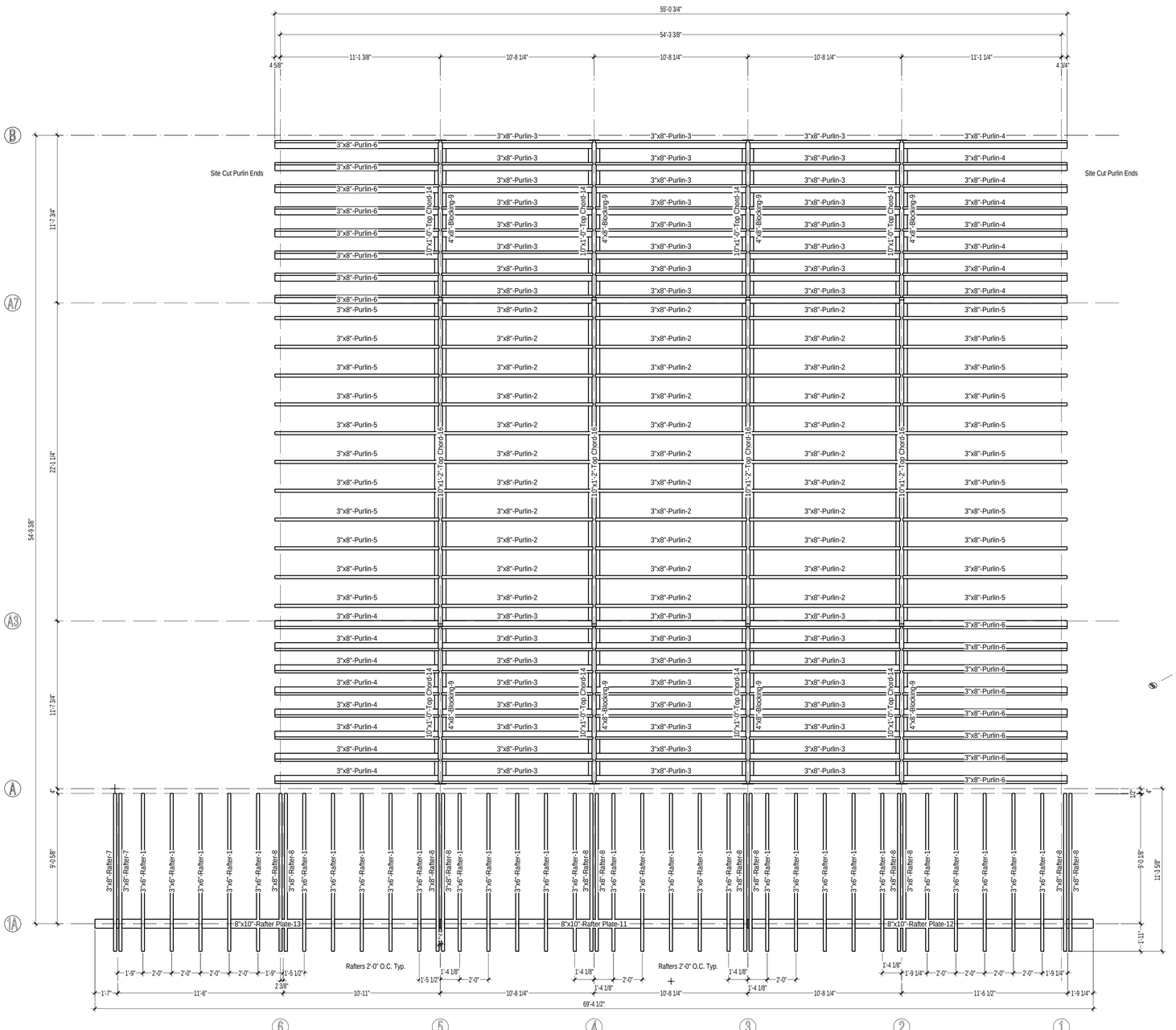
BASIS OF DESIGN

1) Architect and/or Structural Engineer of Record is responsible to review and approve design loads.

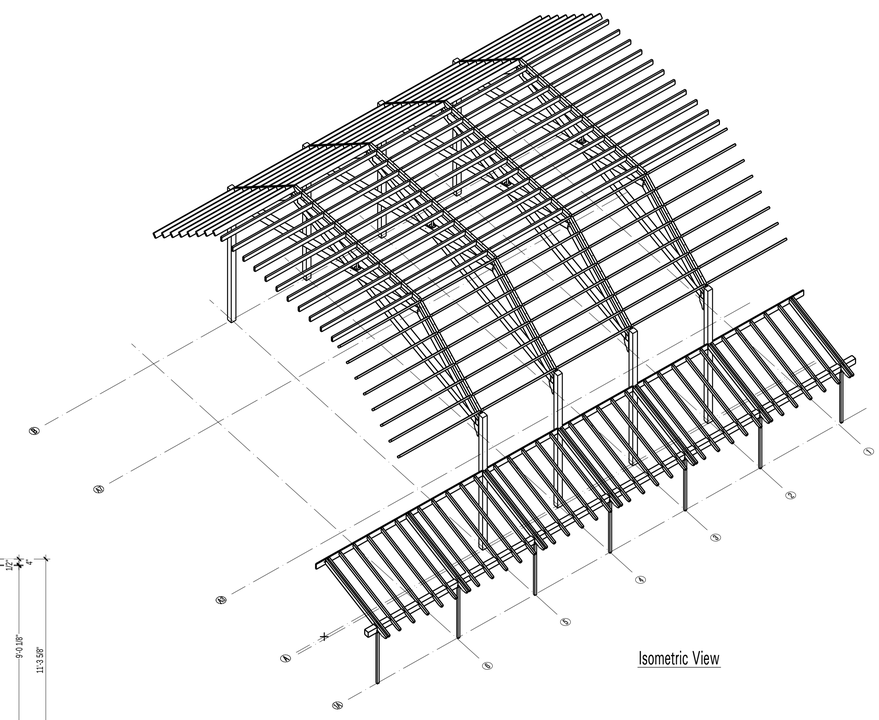
2) The heavy timber trusses and/or frame is designed for gravity loads only and not as part of the main lateral force resisting system. The main lateral force resisting system is the responsibility of others.

3) The following design loads are based on the loads provided by the Structural Engineer of Record on the Structural Drawing Sheet S1

ROOF LOADS	VALUE
Live Load	30 psf
Dead Load	15 psf + self weight
FLOOR LOADS	
Live Load	n/a
Dead Load	n/a
ROOF SNOW LOADS	
Pg	30 psf
Pf	n/a
Ce	1
Ct	1
I	1
Snow Drift & Unbalanced Snow	As applicable
WIND LOADS	
Basic Wind Speed	110 mph (3sec gust)
Building Category	II
I	1.0
Building Classification	Enclosed
Exposure	B
Internal Pressure Coeficient	+/- 0.18



Roof Framing Plan



Isometric View

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STATE OF CONNECTICUT
TOM PATRICK HUDSON
No. 24634
LICENSED
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Framing Plan
Bent Profile
X

Project: Christ & Holy Trinity Episcopal Church
Timber Trusses & Cloister Framing
Westport, CT

Drawn By: df
Checked By: DF
Scale: 1/4" = 1'-0"
Date: 8/16/10
Plot Date: 09-28-10

REVISIONS	BY	CHECKED BY
09-27-10	DF	DF

SHEET
F-1

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Filename 3D: Christ and Holy Trinity Episcopal 3D.3d
Output date 3D: 9/22/2010
Actual date: 9/22/2010
User name:
Customer:
Project number:

Project description:

No.	PL	Name	Material	Quantity	List width [inch]	List height [inch]	List length [inch]	Real Length [inch]
1		Rafter	Douglas Fir	30	3"	6"	12'	11' -7"
2		Purlin	Douglas Fir	33	3"	8"	12'	10' -6"
3		Purlin	Douglas Fir	48	3"	8"	12'	10' -6"
4		Purlin	Douglas Fir	16	3"	8"	12'	11' -5"
5		Purlin	Douglas Fir	22	3"	8"	12'	11' -5"
6		Purlin	Douglas Fir	16	3"	8"	12'	11' -5"
7		Rafter	Douglas Fir	2	3"	8"	12'	11' -7"
8		Rafter	Douglas Fir	12	3"	8"	12'	11' -7"
9		Blocking	Douglas Fir	8	4"	8"	16'	14' -9"
10		Blocking	Douglas Fir	4	4"	8"	24'	22' -10"
11	Rafter Plate		Douglas Fir	1	8"	10"	22'	21' -5"
12	Rafter Plate		Douglas Fir	1	8"	10"	26'	24'
13	Rafter Plate		Douglas Fir	1	8"	10"	26'	24'
14	Top Chord		Douglas Fir	8	10"	1"	16'	14' -4"
15	Bottom Chord		Douglas Fir	8	10"	1"	38'	36' -1"
16	Top Chord		Douglas Fir	4	10"	1' -2"	24'	23'
17		Corbel	Douglas Fir	4	10 1/2"	10"	2'	1' -8"
18		Corbel	Douglas Fir	4	10 1/2"	10"	2'	1' -8"

Sum: Total 222

Filename 3D: Christ and Holy Trinity Episcopal 3D.3d
Output date 3D: 9/28/2010
Actual date: 9/28/2010
User name:
Customer:
Project number:

Project description:

No.	PL	Name	Material	Quantity	List width [inch]	List height [inch]	List length [inch]	Real Length [inch]
20		Peg	Birch / 32	16	1 1/4"	1 1/4"	1'	1'
21		Log Hog	Steel / 6	348	1/4"	1/4"	7"	7"
22		Log Hog	Steel / 6	128	1/4"	1/4"	11"	11"
23		Lag	Steel	24	1/2"	1/2"	4"	4"
24		Lag	Steel	32	3/4"	3/4"	6"	6"
26		Bolt	Steel / 19	8	3/4"	3/4"	1'	1'
27	All Thread/Bolt		Steel	16	1"	1"	1' -6"	1' -9"
28	All Thread/Bolt		Steel	16	1"	1"	1' -8"	1' -11"
29	All Thread/Bolt		Steel	16	1"	1"	1' -6"	1' -10"
30		Bolt	Steel	24	3/4"	3/4"	7"	10"
36		Lag	Steel	28	5/8"	5/8"	6"	6"

Sum: Total 656

Filename 3D: Christ and Holy Trinity Episcopal 3D.3d
Output date 3D: 9/23/2010
Actual date: 9/23/2010
User name:
Customer:
Project number:

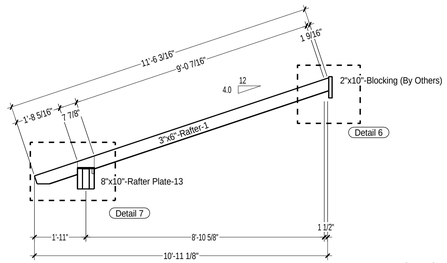
Project description:

No.	PL	Name	Material	Quantity	List width [inch]	List height [inch]	List length [inch]	Real Length [inch]
32		Pipe	Steel / 60	4	2 3/8"	2 3/8"	2' -5"	2' -5"
33		Plate	Steel	4	4"	1/4"	8"	8"
34		Plate	Steel	4	6"	2 5/16"	7"	7"
35		Plate	Steel	8	2"	6 3/8"	3' -5"	3' -5"

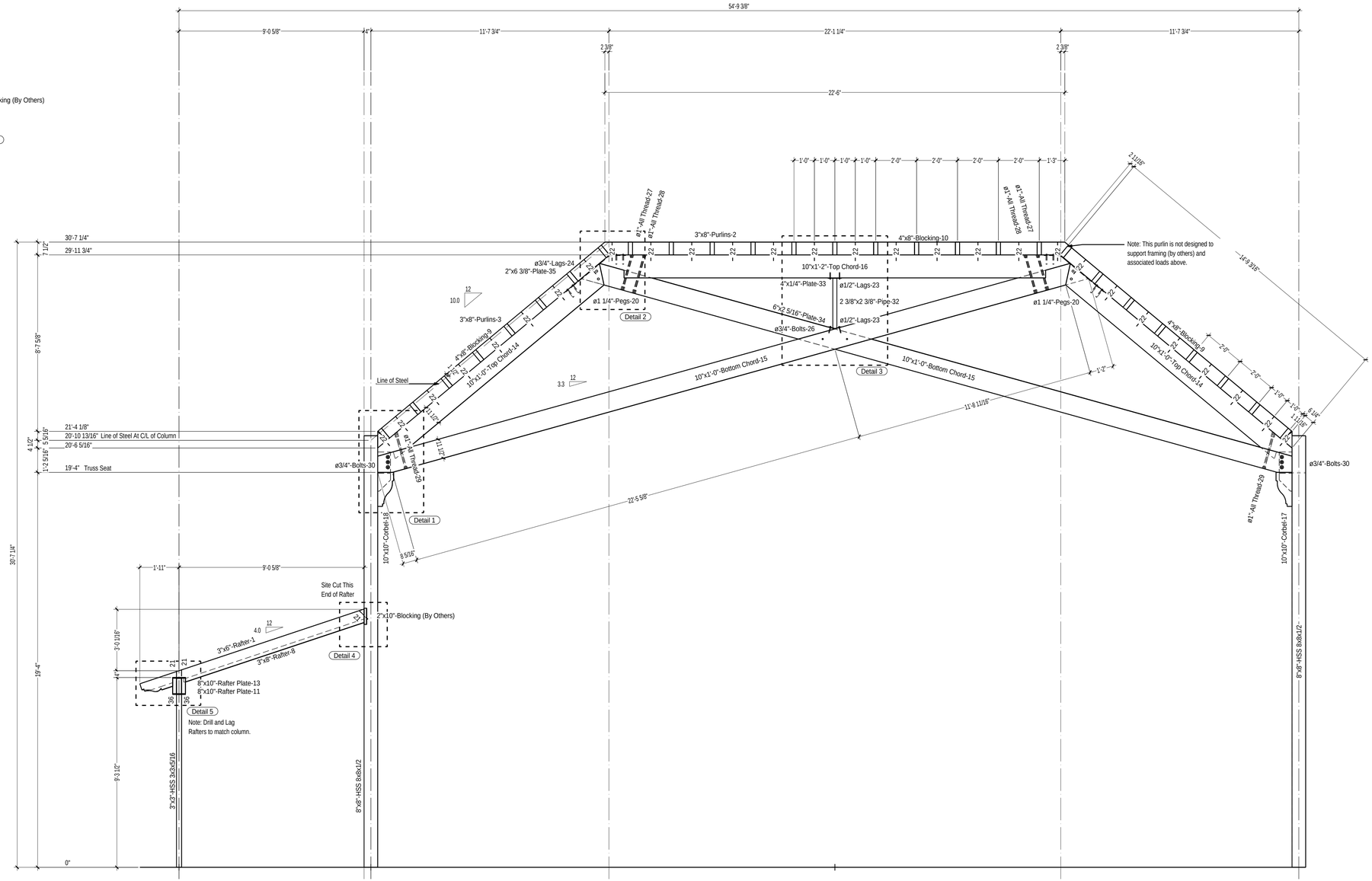
Sum: Total 20

General Notes:

Timbers to be Douglas Fir #1 & Better S4S
Pegs to be 1" Birch
All edges to have 1/2" chamfer
One coat of stain, oil or urethane to be shop applied on all sides.
All Bolts to be 3/4" zinc coated Grade A307.
All Steel to be A36 and to be shop primed flat black.



Common Rafter



Common Truss

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STATE OF CONNECTICUT
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Bent Profile

Project: Christ & Holy Trinity Episcopal Church
Timber Trusses & Cloister Framing
Westport, CT

Drawn By: df
Checked By: DF
Scale: 3/8" = 1'-0"
Date: 8/16/10
Plot Date: 09-28-10

REVISIONS	BY	CHECKED BY
09-27-10	DF	DF

SHEET
F-2

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Filename 3D: Christ and Holy Trinity Episcopal 3D.3d
Output date 3D: 9/22/2010 Customer:
Actual date: 9/22/2010 Project number:
User name:

Project description:

No.	PL	Name	Material	Quantity	List width [inch]	List height [inch]	List length [inch]	Real Length [inch]
1		Rafter	Douglas fir	30	3"	8"	12'	11' -7"
2		Purlin	Douglas fir	33	3"	8"	12'	10' -6"
3		Purlin	Douglas fir	48	3"	8"	12'	10' -6"
4		Purlin	Douglas fir	16	3"	8"	12'	11' -5"
5		Purlin	Douglas fir	22	3"	8"	12'	11' -5"
6		Purlin	Douglas fir	16	3"	8"	12'	11' -5"
7		Rafter	Douglas fir	2	3"	8"	12'	11' -7"
8		Rafter	Douglas fir	12	3"	8"	12'	11' -7"
9		Blocking	Douglas fir	8	4"	8"	16'	14' -8"
10		Blocking	Douglas fir	4	4"	8"	24'	22' -10"
11		Rafter Plate	Douglas fir	1	8"	10"	22'	21' -5"
12		Rafter Plate	Douglas fir	1	8"	10"	26'	24'
13		Rafter Plate	Douglas fir	1	8"	10"	26'	24'
14		Top Chord	Douglas fir	8	10"	1"	16'	14' -4"
15		Bottom Chord	Douglas fir	8	10"	1"	38'	36' -1"
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17		Corbel	Douglas fir	4	10 1/2"	10"	2'	1' -8"
18		Corbel	Douglas fir	4	10 1/2"	10"	2'	1' -8"
Sum: Total				222				

Filename 3D: Christ and Holy Trinity Episcopal 3D.3d
Output date 3D: 9/28/2010 Customer:
Actual date: 9/28/2010 Project number:
User name:

Project description:

No.	PL	Name	Material	Quantity	List width [inch]	List height [inch]	List length [inch]	Real Length [inch]
20		Peg	Birch / 32	16	1 1/4"	1 1/4"	1'	1'
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28		All Thread/Bolt	Steel	16	1"	1"	1' -8"	1' -11"
29		All Thread/Bolt	Steel	16	1"	1"	1' -6"	1' -10"
30		Bolt	Steel	24	3/4"	3/4"	7"	10"
36		Lag	Steel	28	5/8"	5/8"	6"	6"
Sum: Total				656				

Filename 3D: Christ and Holy Trinity Episcopal 3D.3d
Output date 3D: 9/23/2010 Customer:
Actual date: 9/23/2010 Project number:
User name:

Project description:

No.	PL	Name	Material	Quantity	List width [inch]	List height [inch]	List length [inch]	Real Length [inch]
32		Pipe	Steel / 60	4	2 3/8"	2 3/8"	2' -5"	2' -5"
33		Plate	Steel	4	4"	1/4"	8"	8"
34		Plate	Steel	4	6"	2 5/16"	7"	7"
35		Plate	Steel	8	2"	6 3/8"	3' -5"	3' -5"
Sum: Total				20				

General Notes:

Timbers to be Douglas Fir #1 & Better S4S
Pegs to be 1" Birch
All edges to have 1/2" chamfer
One coat of stain, oil or urethane to be shop applied on all sides.
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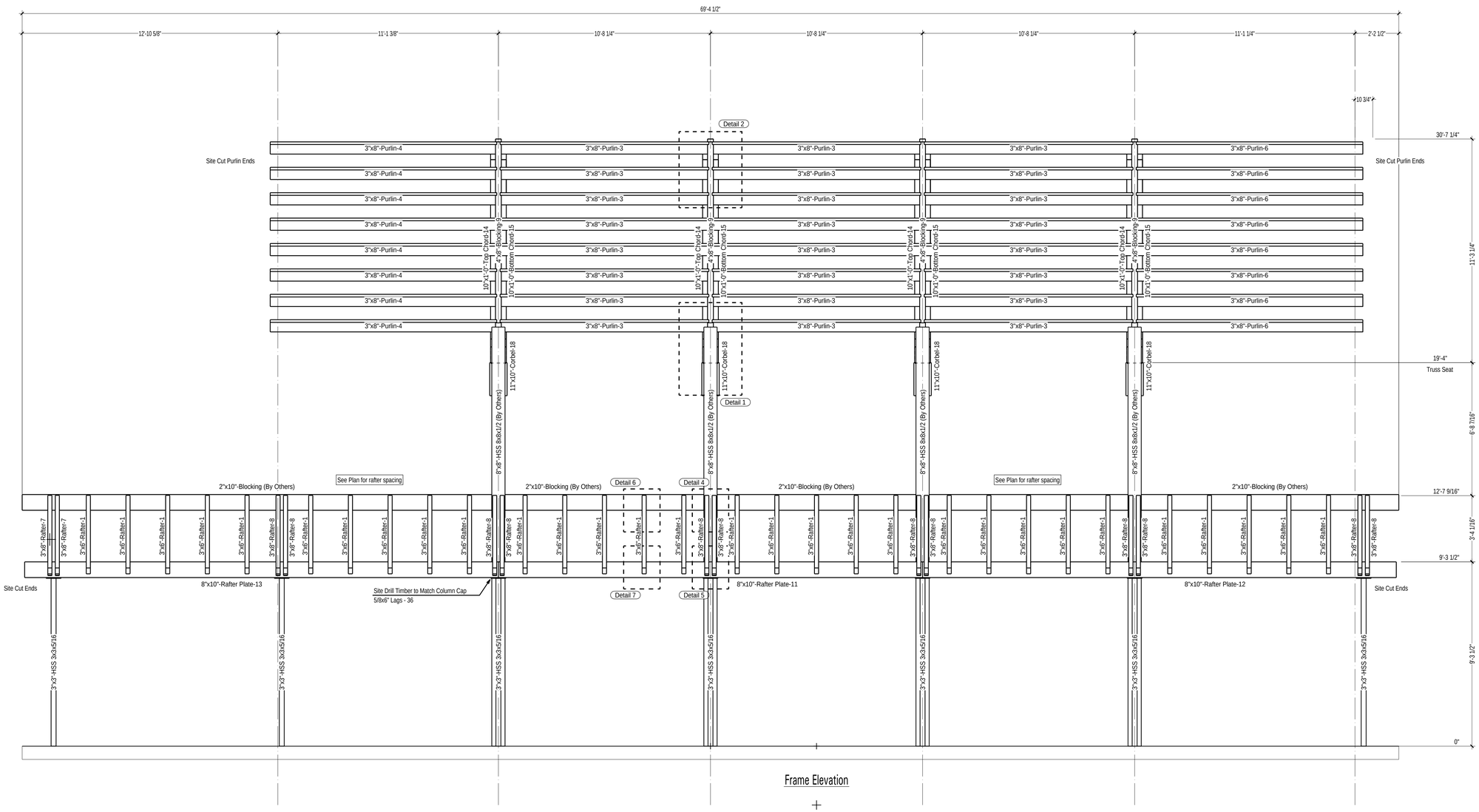

Frame Elevation

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Frame Elevation

Project: Christ & Holy Trinity Episcopal Church
Timber Trusses & Cloister Framing
Westport, CT

Drawn By: df
Checked By: DF
Scale: 3/8" = 1'-0"
Date: 8/16/10
Plot Date: 09-28-10

REVISIONS	BY	CHECKED BY
09-27-10	DF	DF

SHEET
F-3

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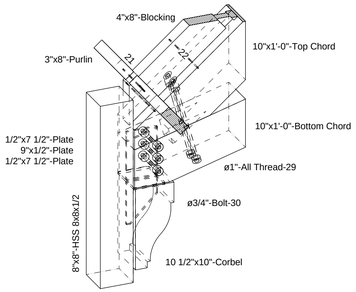
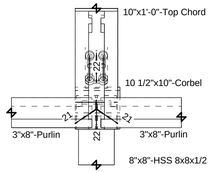


Location: Detail 1 **Scale: 1:16** **View: Axo**



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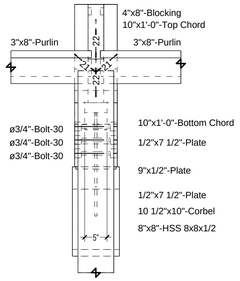

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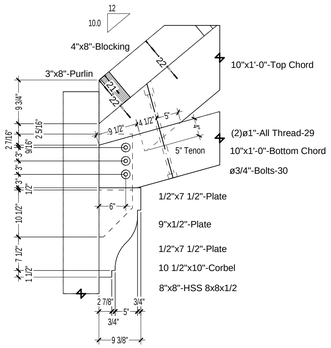

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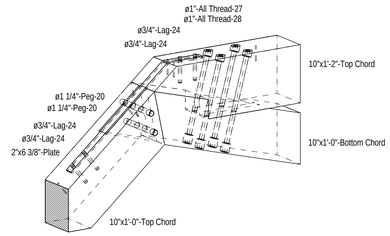

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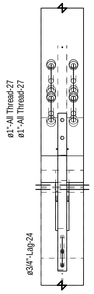

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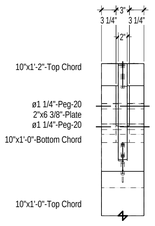

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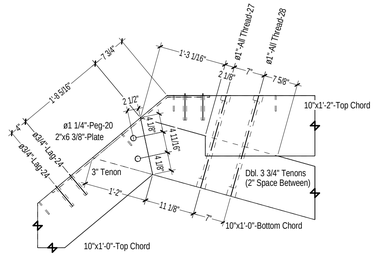
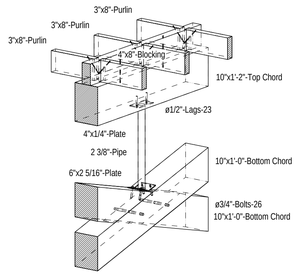


Location: Detail 2 **Scale: 1:16** **View: Bent**



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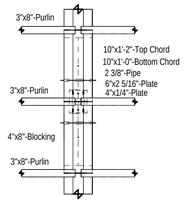

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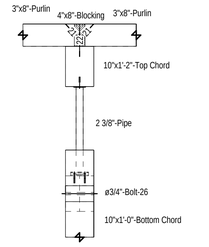

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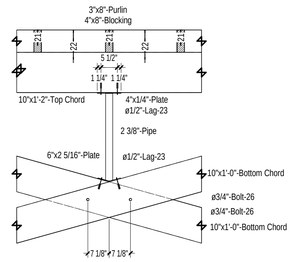
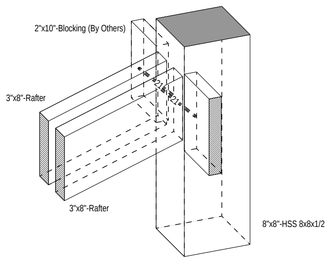
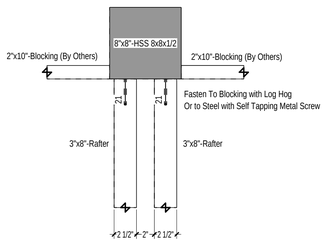


Location: Detail 3 **Scale: 1:24** **View: Bent**



Location: Detail 4 **Scale: 1:8** **View: Axo**



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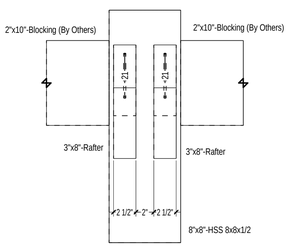

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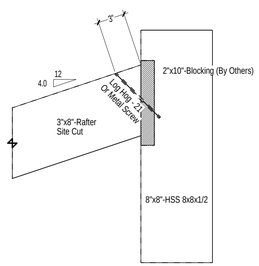
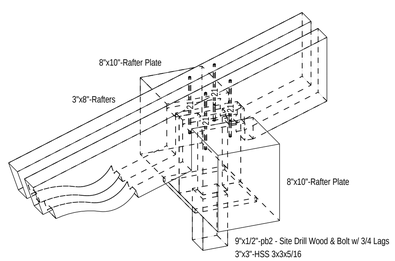
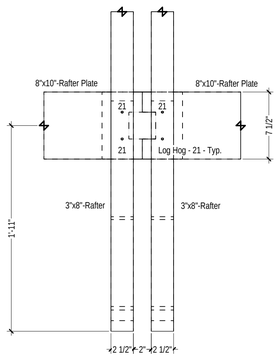


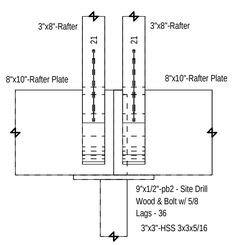
Location: Detail 4 **Scale: 1:8** **View: Bent**



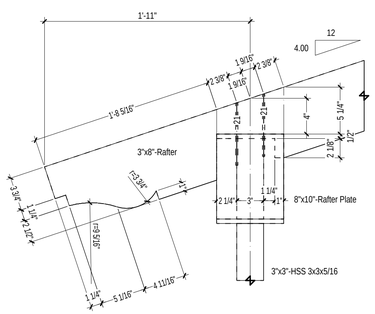
Location: Detail 5 **Scale: 1:8** **View: Axo**



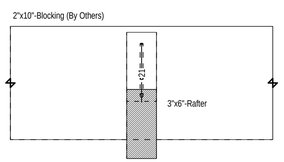
Location: Detail 5 **Scale: 1:8** **View: Top**



Location: Detail 5 **Scale: 1:8** **View: Bay**



Location: Detail 5 **Scale: 1:8** **View: Bent**



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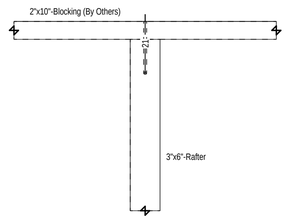

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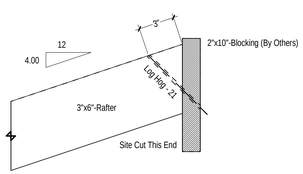

Location: Detail 6 **Scale: 1:6** **View: Bay**

Location: Detail 6 **Scale: 1:6** **View: Bent**

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STATE OF CONNECTICUT
JOHN PATRICK HOGGINS
No. 24634
LICENSED
PROFESSIONAL ENGINEER

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Details

Project: Christ & Holy Trinity Episcopal Church
Timber Trusses & Cloister Framing
Westport, CT

Drawn By: df
Checked By: DF
Scale: As Noted
Date: 8/16/10
Plot Date: 09-28-10

REVISIONS	BY	CHECKED BY
09-27-10	DF	DF

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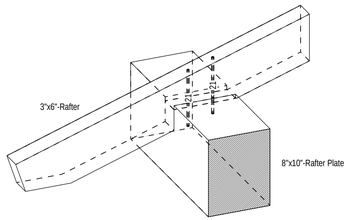
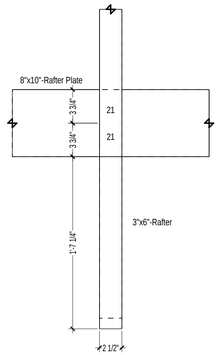
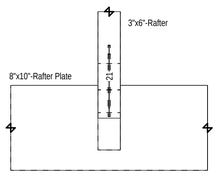


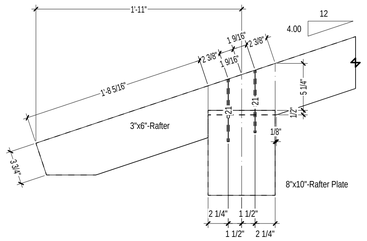
Location: Detail 7 **Scale:** 1:8 **View:** Axo



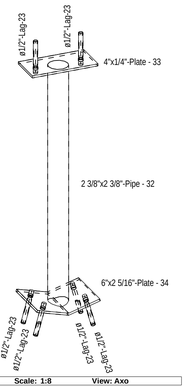
Location: Detail 7 **Scale:** 1:8 **View:** Top



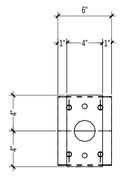
Location: Detail 7 **Scale:** 1:8 **View:** Bay



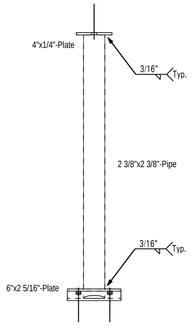
Location: Detail 7 **Scale:** 1:8 **View:** Bent



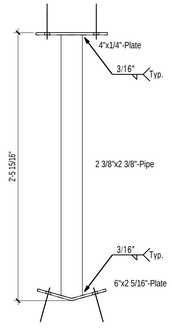
Location: Detail 8 **Scale:** 1:8 **View:** Axo



Location: Detail 8 **Scale:** 1:8 **View:** Top

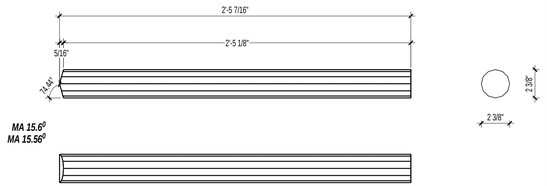


Location: Detail 8 **Scale:** 1:8 **View:** Bay



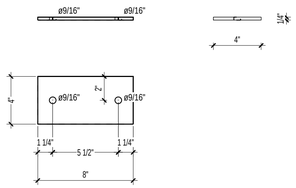
Location: Detail 8 **Scale:** 1:8 **View:** Bent

Prod: 32



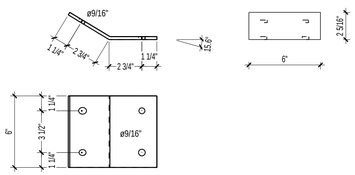
Name: Pipe	**Quantity:** 4	**Weight [lb]:** 35.184 lb
Group:	**Length:** 2'-5 7/16"	**Material:** Steel
Sub group:	**Section:** 2 3/8"/2 3/8"	**Scale:** 6

Prod: 33



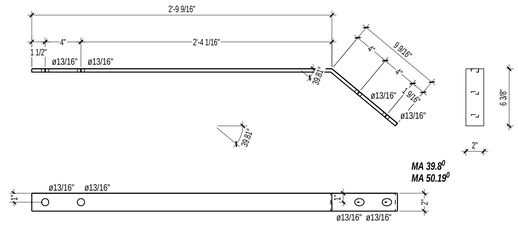
Name: Plate	**Quantity:** 4	**Weight [lb]:** 2.269 lb
Group:	**Length:** 8"	**Material:** Steel
Sub group:	**Section:** 4"/1/4"	**Scale:** 6

Prod: 34



Name: Plate	**Quantity:** 4	**Weight [lb]:** 3.374 lb
Group:	**Length:** 7 7/16"	**Material:** Steel
Sub group:	**Section:** 6"/2 5/16"	**Scale:** 6

Prod: 35



Name: Plate	**Quantity:** 8	**Weight [lb]:** 9.139 lb
Group:	**Length:** 3'-4 7/8"	**Material:** Steel
Sub group:	**Section:** 2"/6 3/8"	**Scale:** 8

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STATE OF CONNECTICUT — JOHN PATRICK HIGGINS — No. 24634 — LICENSED PROFESSIONAL ENGINEER

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Details

Project: Christ & Holy Trinity Episcopal Church
Timber Trusses & Cloister Framing
Westport, CT

Drawn By: df
Checked By: DF
Scale: As Noted
Date: 8/16/10
Plot Date: 09-28-10

REVISIONS	BY	CHECKED BY
09-27-10	DF	DF

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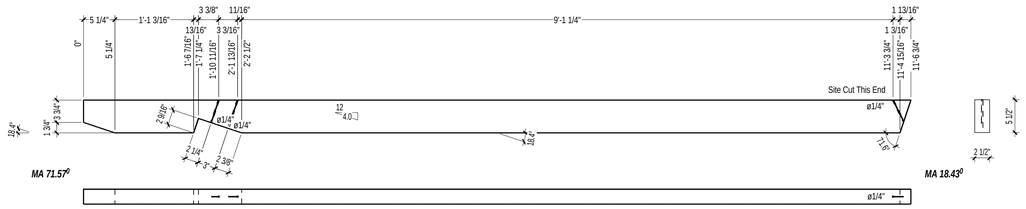
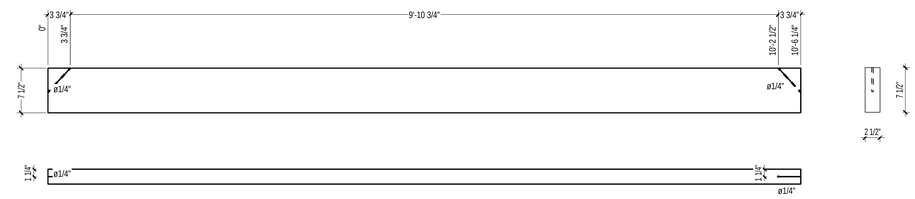
Prod: 1



Weight [lb]: 35.520 lb

Name: Rafter	**Group:**	**Length:** 11'-6 3/4"	**Material:** Douglas fir
Quantity: 30	**Sub group:**	**Section:** 2 1/2"/5 1/2"	**Scale:** 12

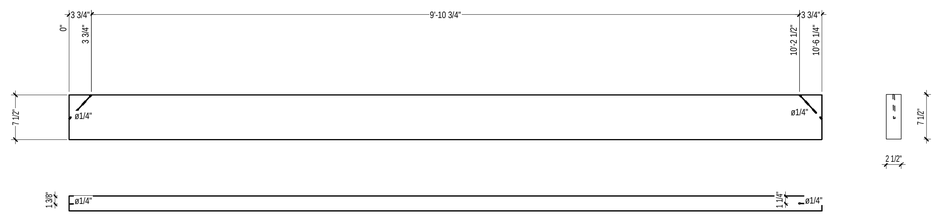
Prod: 2



Weight [lb]: 45.222 lb

Name: Purlin	**Group:**	**Length:** 10'-6 1/4"	**Material:** Douglas fir
Quantity: 33	**Sub group:**	**Section:** 2 1/2"/7 1/2"	**Scale:** 12

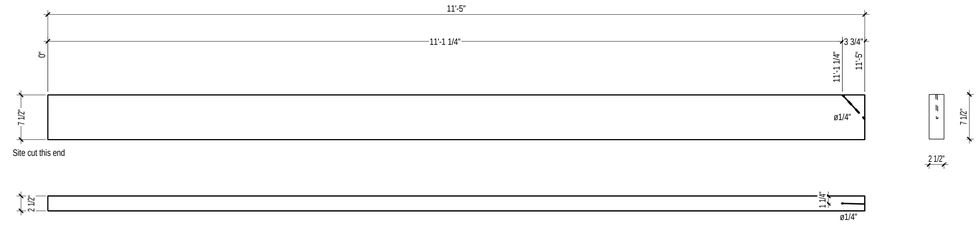
Prod: 3



Weight [lb]: 45.222 lb

Name: Purlin	**Group:**	**Length:** 10'-6 1/4"	**Material:** Douglas fir
Quantity: 48	**Sub group:**	**Section:** 2 1/2"/7 1/2"	**Scale:** 12

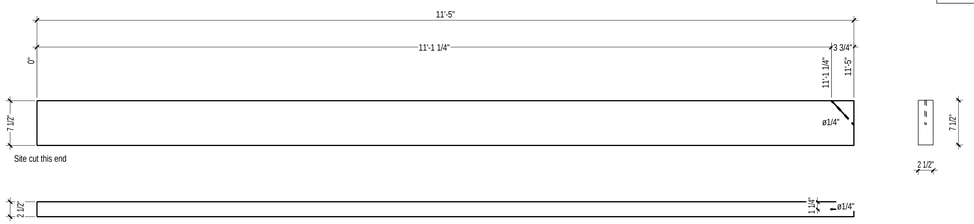
Prod: 4



Weight [lb]: 49.072 lb

Name: Purlin	**Group:**	**Length:** 11'-5"	**Material:** Douglas fir
Quantity: 16	**Sub group:**	**Section:** 2 1/2"/7 1/2"	**Scale:** 12

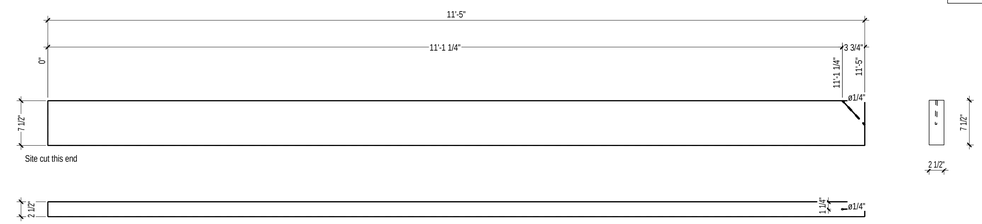
Prod: 5



Weight [lb]: 49.072 lb

Name: Purlin	**Group:**	**Length:** 11'-5"	**Material:** Douglas fir
Quantity: 22	**Sub group:**	**Section:** 2 1/2"/7 1/2"	**Scale:** 12

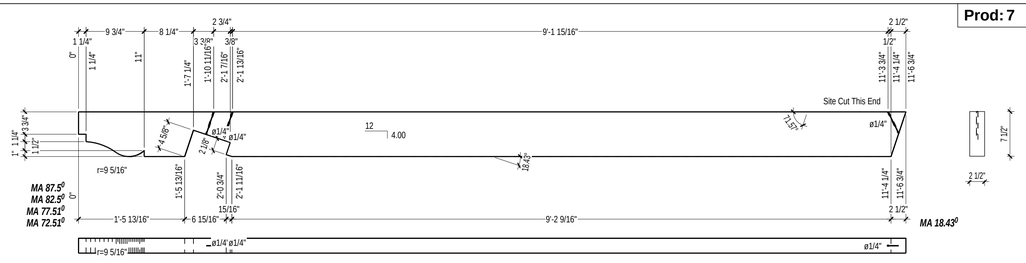
Prod: 6



Weight [lb]: 49.072 lb

Name: Purlin	**Group:**	**Length:** 11'-5"	**Material:** Douglas fir
Quantity: 16	**Sub group:**	**Section:** 2 1/2"/7 1/2"	**Scale:** 12

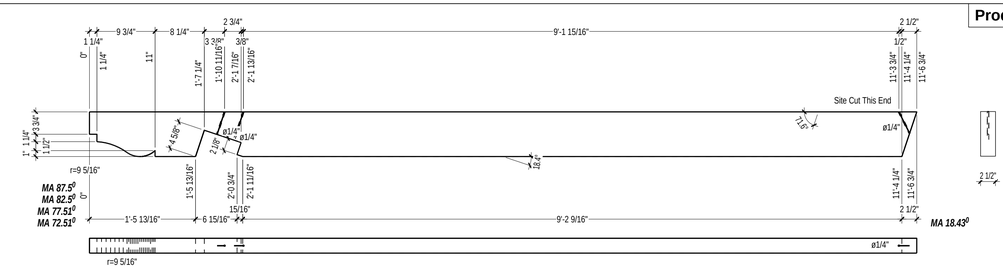
Prod: 7



Weight [lb]: 47.398 lb

Name: Rafter	**Group:**	**Length:** 11'-6 3/4"	**Material:** Douglas fir
Quantity: 2	**Sub group:**	**Section:** 2 1/2"/7 1/2"	**Scale:** 12

Prod: 8



Weight [lb]: 47.398 lb

Name: Rafter	**Group:**	**Length:** 11'-6 3/4"	**Material:** Douglas fir
Quantity: 12	**Sub group:**	**Section:** 2 1/2"/7 1/2"	**Scale:** 12

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STATE OF CONNECTICUT · TOM PATRICK HIGGINS · No. 24634 · LICENSED PROFESSIONAL ENGINEER

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Part Details

Project: Christ & Holy Trinity Episcopal Church
Timber Trusses & Cloister Framing
Westport, CT

Drawn By: df
Checked By: DF
Scale: 1/4" = 1'-0"
Date: 8/16/10
Plot Date: 09-28-10

REVISIONS	BY	CHECKED BY
09-27-10	DF	DF

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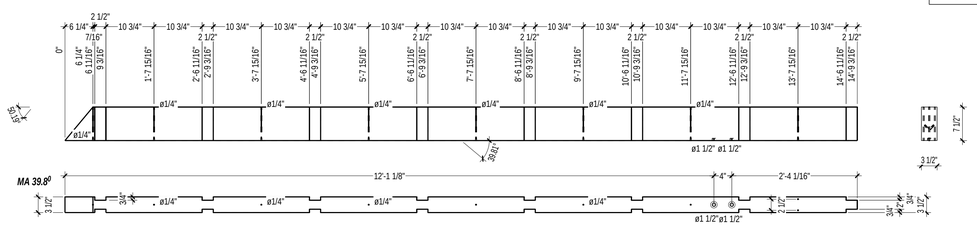
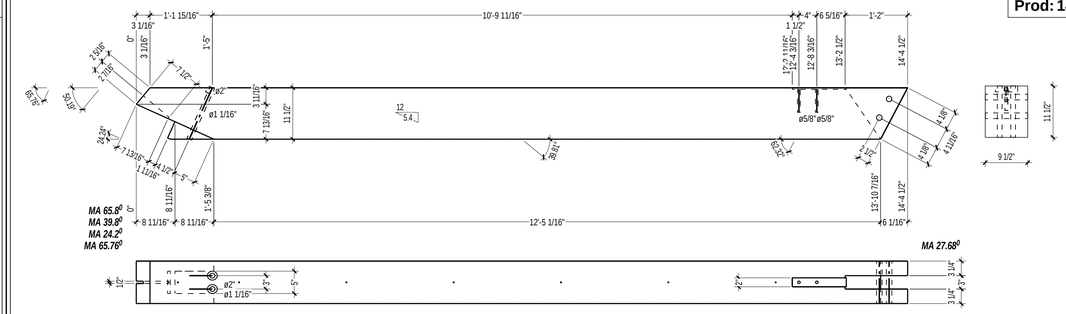
Prod: 9



Weight [lb]: 82.975 lb

Name: Blocking	**Group:**	**Length:** 14'-9 3/16"	**Material:** Douglas fir
Quantity: 8	**Sub group:**	**Section:** 3 1/2"/7 1/2"	**Scale:** 16

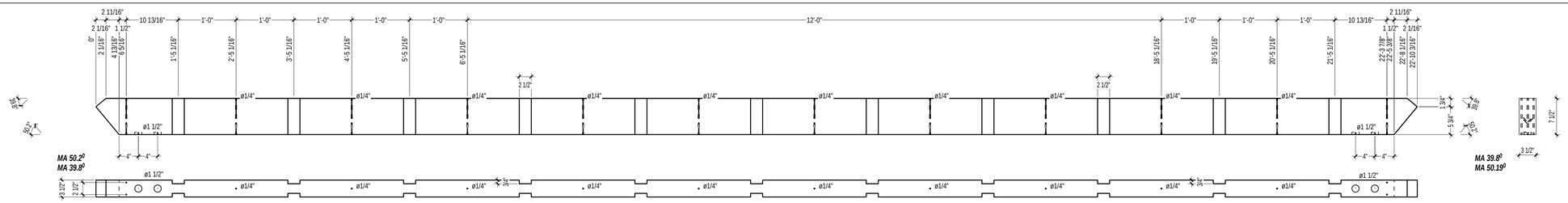
Prod: 14



Weight [lb]: 337.412 lb

Name: Top Chord	**Group:**	**Length:** 14'-4 1/2"	**Material:** Douglas fir
Quantity: 8	**Sub group:**	**Section:** 9 1/2"/11 1/2"	**Scale:** 16

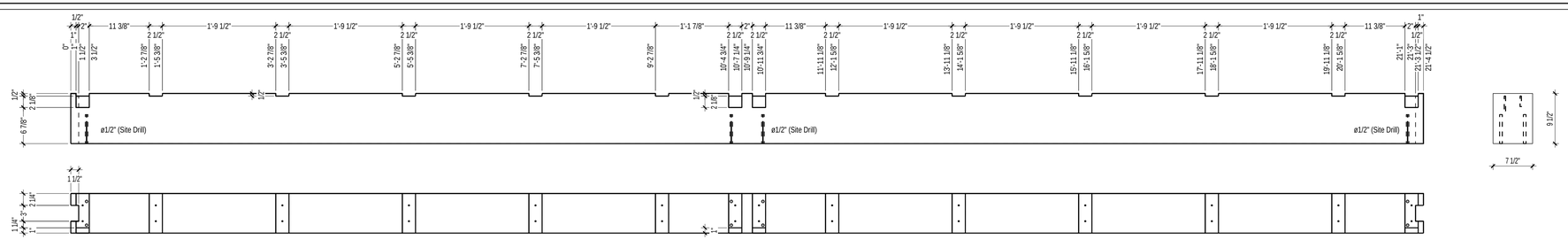
Prod: 10



Weight [lb]: 129.480 lb

Name: Blocking	**Group:**	**Length:** 22'-10 3/16"	**Material:** Douglas fir
Quantity: 4	**Sub group:**	**Section:** 3 1/2"/7 1/2"	**Scale:** 12

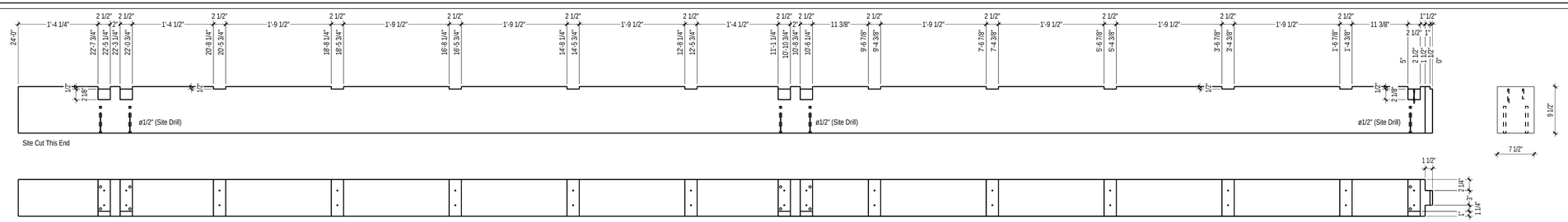
Prod: 11



Weight [lb]: 344.607 lb

Name: Rafter Plate	**Group:**	**Length:** 21'-4 1/2"	**Material:** Douglas fir
Quantity: 1	**Sub group:**	**Section:** 7 1/2"/9 1/2"	**Scale:** 12

Prod: 12



Weight [lb]: 387.566 lb

Name: Rafter Plate	**Group:**	**Length:** 24'-0"	**Material:** Douglas fir
Quantity: 1	**Sub group:**	**Section:** 7 1/2"/9 1/2"	**Scale:** 12

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Part Details

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Timber Trusses & Cloister Framing
Westport, CT

Drawn By: df
Checked By: DF
Scale: 3/8" = 1'-0"
Date: 8/16/10
Plot Date: 09-28-10

REVISIONS	BY	CHECKED BY
(09-27-10)	DF	DF

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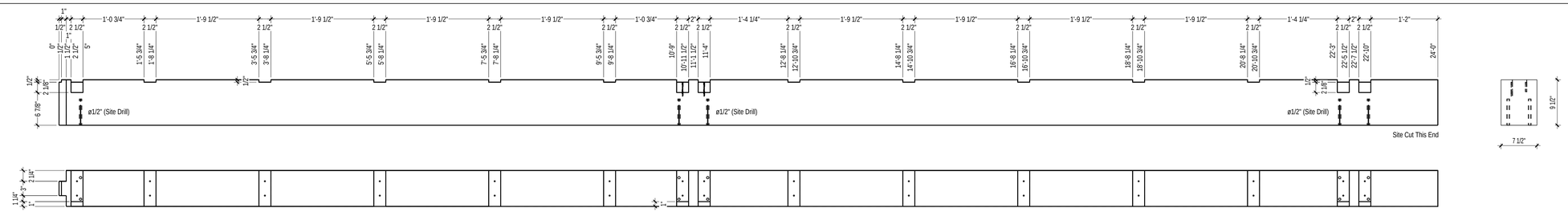
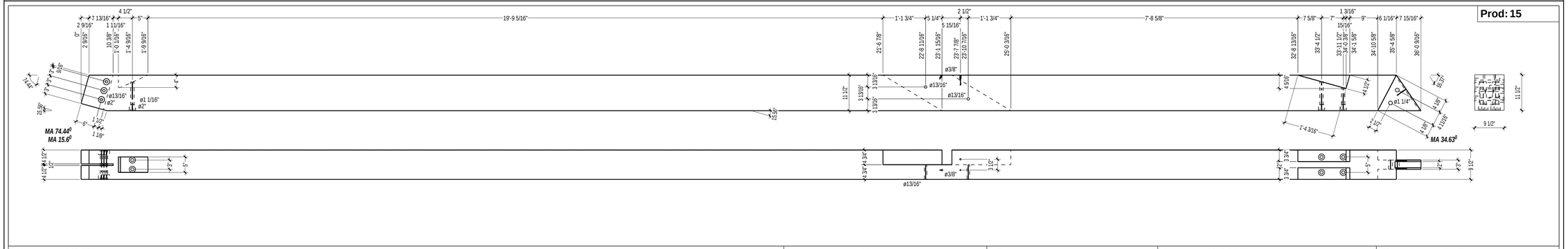
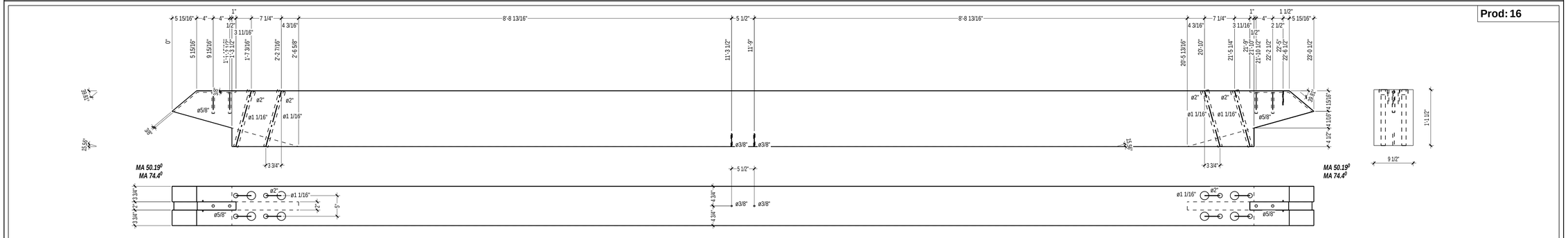


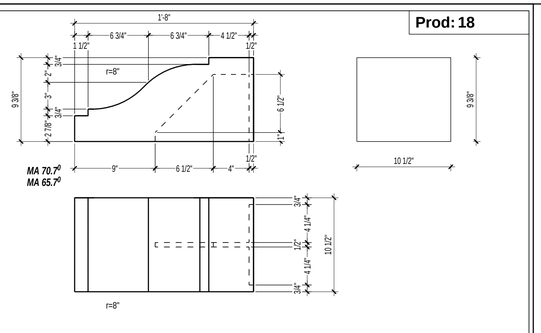
Weight [lb]: 387.566 lb	**Name: Rafter Plate**	**Group:**	**Length: 24'-0"**	**Material: Douglas fir**
	Quantity: 1	**Sub group:**	**Section: 7 1/2"/9 1/2"**	**Scale: 12**



Weight [lb]: 849.374 lb	**Name: Bottom Chord**	**Group:**	**Length: 36'-0 9/16"**	**Material: Douglas fir**
	Quantity: 8	**Sub group:**	**Section: 9 1/2"/11 1/2"**	**Scale: 16**



Weight [lb]: 634.457 lb	**Name: Top Chord**	**Group:**	**Length: 23'-0 1/2"**	**Material: Douglas fir**
	Quantity: 4	**Sub group:**	**Section: 9 1/2"/1'-1 1/2"**	**Scale: 12**



Name: Corbel	**Quantity: 8**	**Weight [lb]: 26.160 lb**
Group:	**Length: 1'-8"**	**Material: Douglas fir**
Sub group:	**Section: 10 1/2"/9 3/8"**	**Scale: 8**

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STATE OF CONNECTICUT — TOM PATRICK WIGGINS — No. 24634 — LICENSED PROFESSIONAL ENGINEER

THE ENGINEERING ADVICE, OPINIONS, AND RECOMMENDATIONS IN THIS DRAWING ARE THOSE OF THE LICENSED PROFESSIONAL ENGINEER WHOSE STAMP APPEARS HEREIN, AND NOT THOSE OF VERMONT TIMBER WORKS, INC.

Part Details

Project: Christ & Holy Trinity Episcopal Church
Timber Trusses & Cloister Framing
Westport, CT

Drawn By: df
Checked By: DF
Scale: 3/8" = 1'-0"
Date: 8/16/10
Plot Date: 09-28-10

REVISIONS	BY	CHECKED BY
09-27-10	DF	DF

SHEET
F-8

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