MILLER CONSTRUCTION, INC.

P.O. BOX 86 ASCUTNEY BLVD WINDSOR, VERMONT 05089-0086
TELEPHONE (802) 674-5525 / FAX (802) 674-5245

TRANSMITTAL

TO: Jennifer Fitch, PE Project Manager Vermont Agency of Transportation	DATE	PROJECT NO.
	7/1/2014	Brookfield BRF FLBR (2)

XX WE ENCLOSE THE FOLLOWING: _____ UNDER SEPARATE COVER WE ARE SENDING THE FOLLOWING

COPIES	NUMBER	DESCRIPTION	CODE
1		Deck Panel Shop Drawings	H

CODE:

A FOR INITIAL APPROVAL
B FOR FINAL APPROVAL
C APPROVED AS NOTED-RESUBMISSION REQUIRED
D APPROVED AS NOTED-RESUBMISSION NOT REQUIRED
E DISAPPROVED-RESUBMIT
F QUOTATION REQUESTED
G APPROVED
H FOR APPROVAL
I AS REQUESTED OR REQUIRED
J FOR USE IN ERECTION
K LETTER FOLLOWS
L FOR FIELD CHECK
M FOR YOUR USE

BY: Paul

31 Station Road
Mt. Holly, Vermont 05758
802.259.2094 *phone*
802.259.2689 *fax*
www.wrightconstruction.com

July 1, 2014

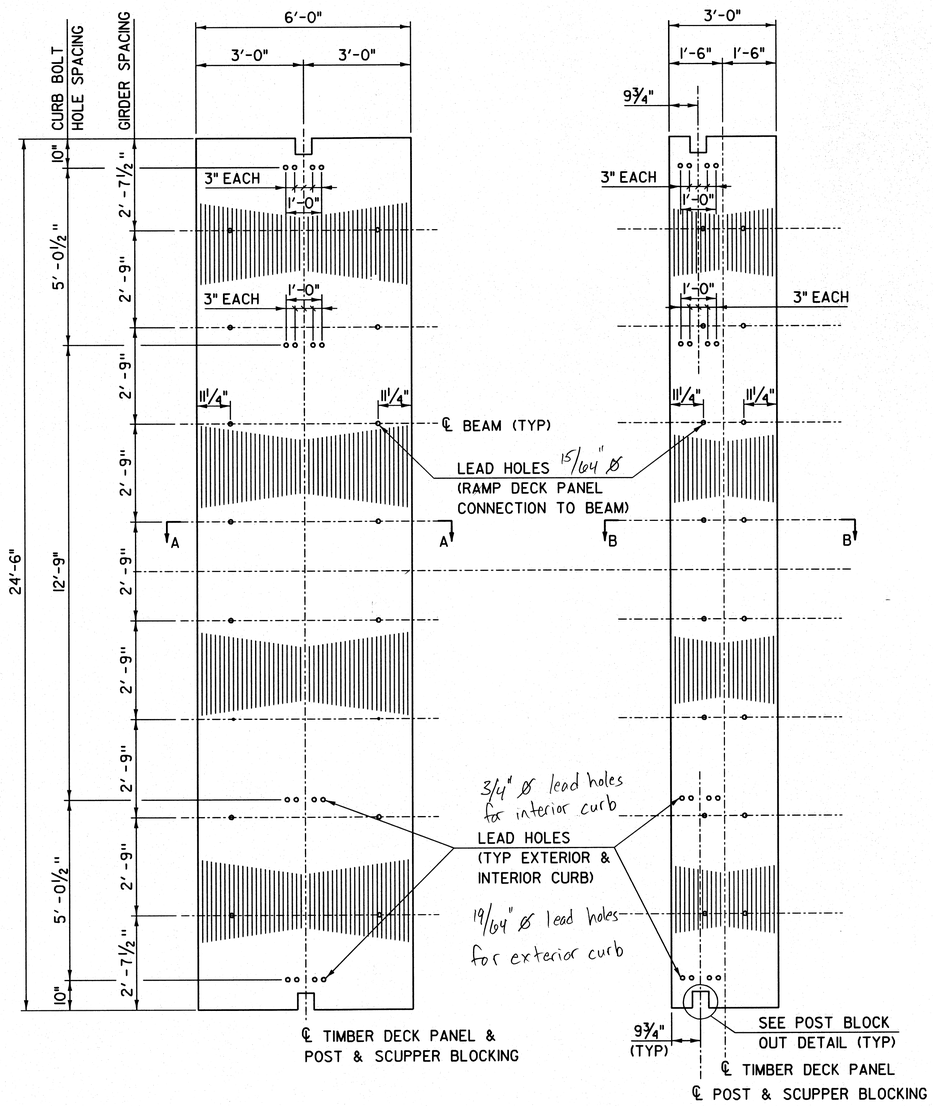
Fabrication Plan for 900.670 Special Provision (Nail Laminated Timber Deck Panel)
Brookfield BRF FLBR(2)
Brookfield, VT

Narrative of the work related to the fabrication of the deck panels.

See also following drawings and sketches.

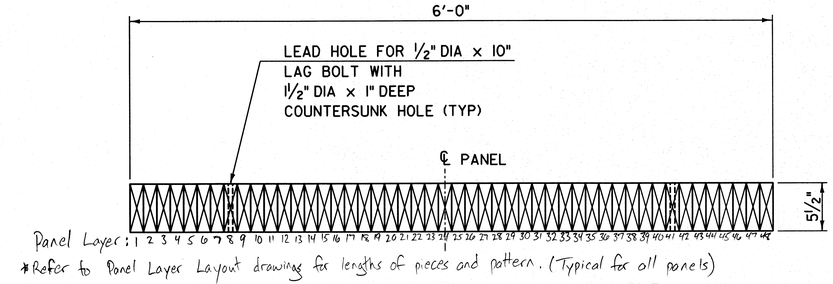
PANEL FABRICATION

1. Fabrication of the deck panels will be done at our shop location in Mount Holly. Panels will be nailed together and holes drilled per the attached layout drawings.
2. Once fabricated, deck panels will be stored in Mount Holly until they are needed at the project for installation. When ready for installation the panels will be shipped to the job site on a flatbed trailer.



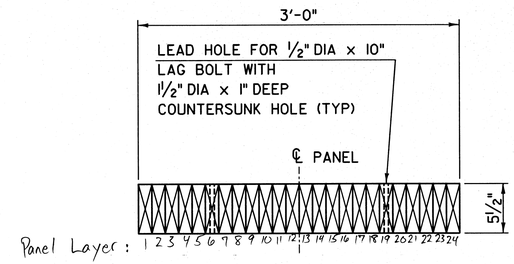
RAMP DECK
PANEL TYPE D - PLAN
SCALE: ½" = 1'-0"

RAMP DECK
PANEL TYPE E - PLAN
SCALE: ½" = 1'-0"

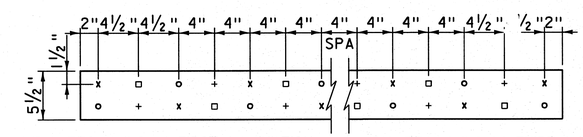


*Refer to Panel Layer Layout drawing for lengths of pieces and pattern. (Typical for all panels)

DECK PANEL SECTION A-A - TYPE D
SCALE: 1½" = 1'-0"

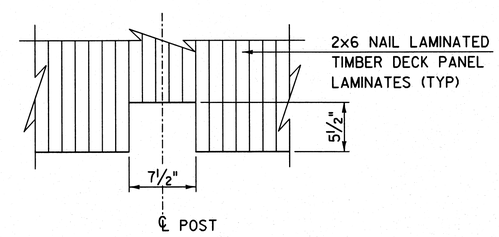


DECK PANEL SECTION B-B - TYPE E
SCALE: 1½" = 1'-0"



○ INDICATES NAILS IN FIRST LAMINATION
× INDICATES NAILS IN SECOND LAMINATION
+ INDICATES NAILS IN THIRD LAMINATION
□ INDICATES NAILS IN THE FIRST BOARD ONLY REVERSED NAILING DIRECTION

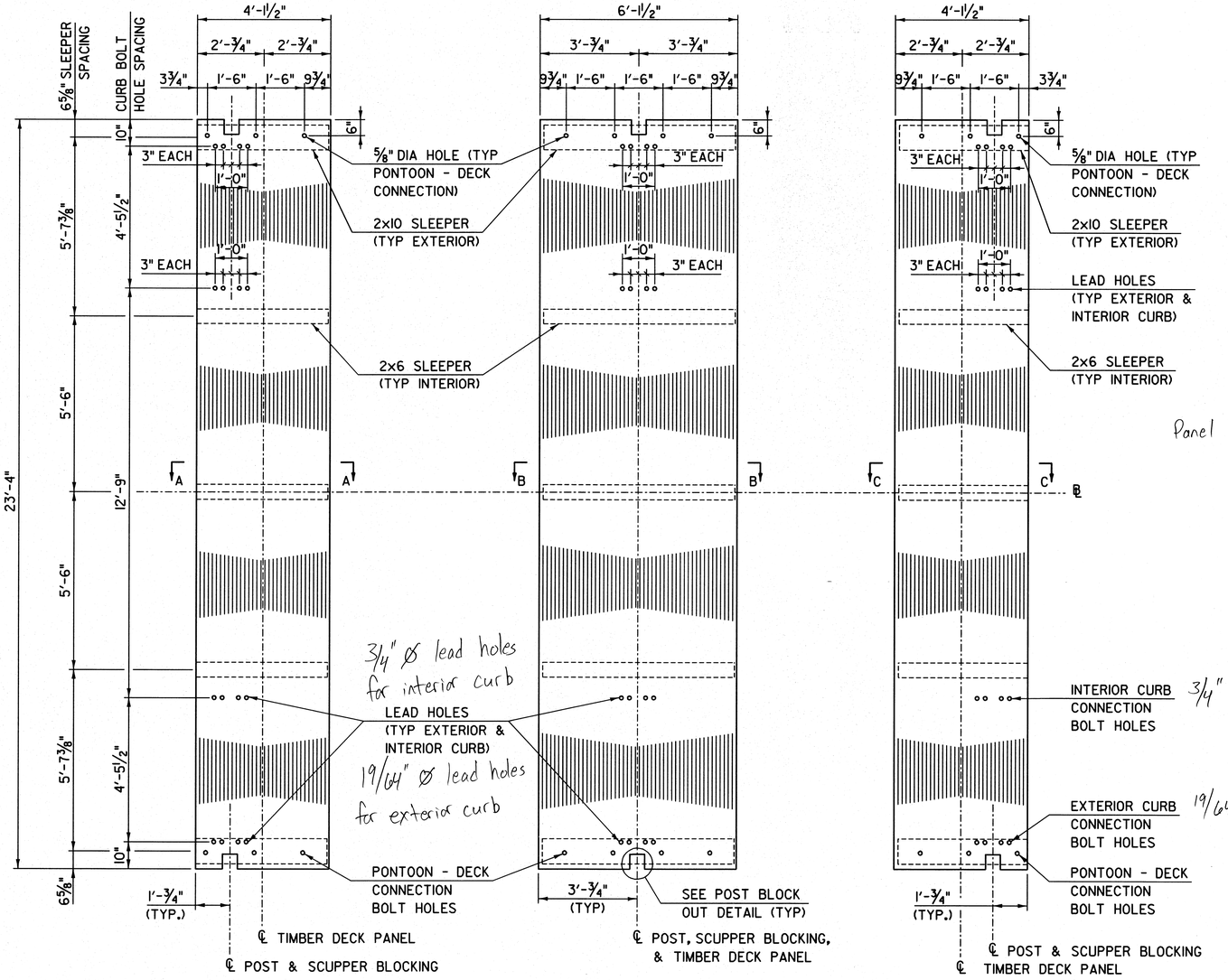
RAMP DECK PANEL - NAIL PATTERN
SCALE: 1½" = 1'-0"



POST BLOCK OUT DETAIL
SCALE: 1½" = 1'-0"

Deck Panel Layout Fabrication Drawings

PROJECT NAME: BROOKFIELD
PROJECT NUMBER: BRF FLBR(2)



FLOATING SPAN DECK PANEL TYPE A - PLAN

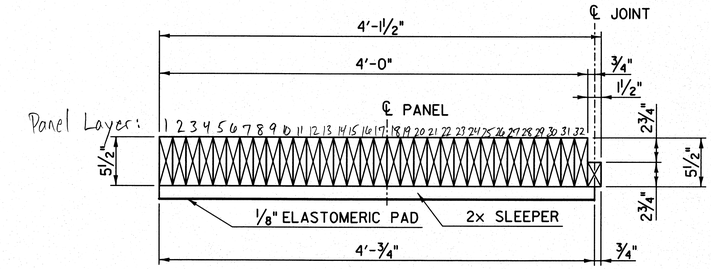
SCALE: ½" = 1'-0"

FLOATING SPAN DECK PANEL TYPE B - PLAN

SCALE: ½" = 1'-0"

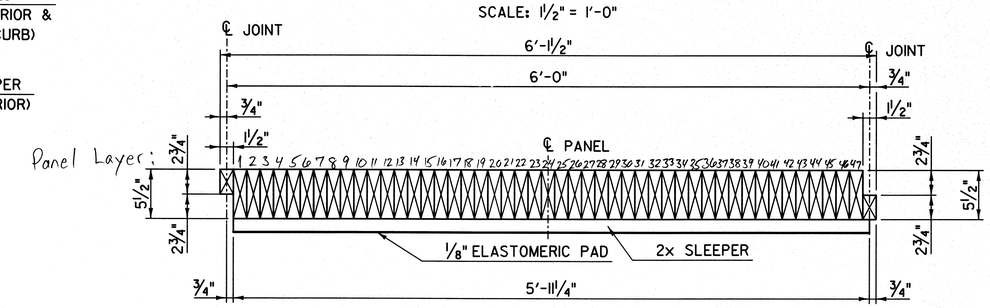
FLOATING SPAN DECK PANEL TYPE C - PLAN

SCALE: ½" = 1'-0"



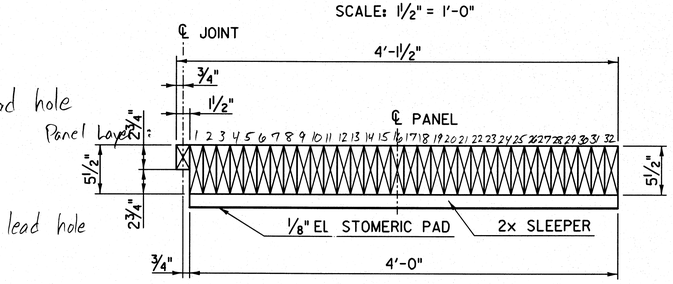
DECK PANEL SECTION A-A - TYPE A

SCALE: 1½" = 1'-0"



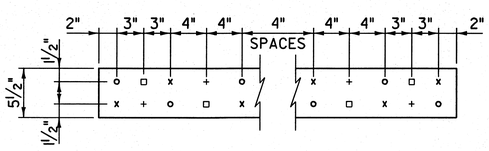
DECK PANEL SECTION B-B - TYPE B

SCALE: 1½" = 1'-0"



DECK PANEL SECTION C-C - TYPE C

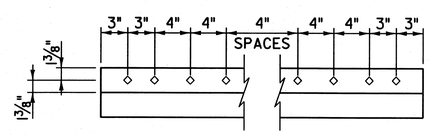
SCALE: 1½" = 1'-0"



- ○ INDICATES NAILS IN FIRST LAMINATION
- × INDICATES NAILS IN SECOND LAMINATION
- + INDICATES NAILS IN THIRD LAMINATION
- ▫ INDICATES NAILS IN THE FIRST BOARD ONLY, REVERSED NAILING DIRECTION

FLOATING SPAN DECK PANEL - NAIL PATTERN

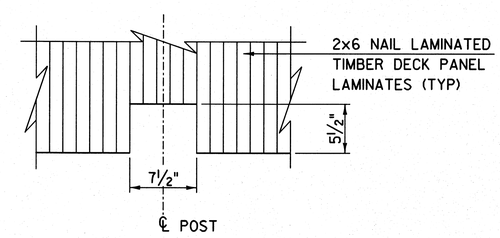
SCALE: 1½" = 1'-0"



SHIP LAP BOARD - NAIL PATTERN

SCALE: 1½" = 1'-0"

(TOP SHIP LAP BOARD SHOWN, BOTTOM SIMILAR)

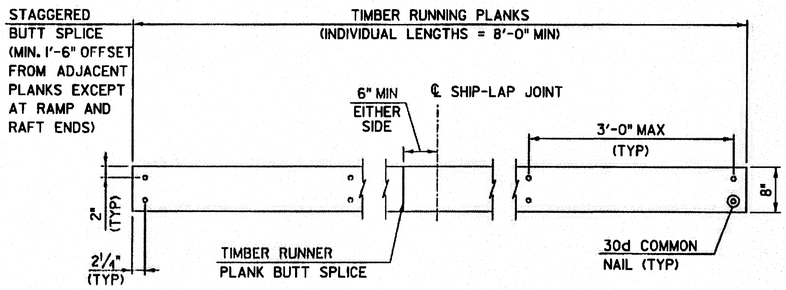


POST BLOCK OUT DETAIL

SCALE: 1½" = 1'-0"

PROJECT NAME: BROOKFIELD

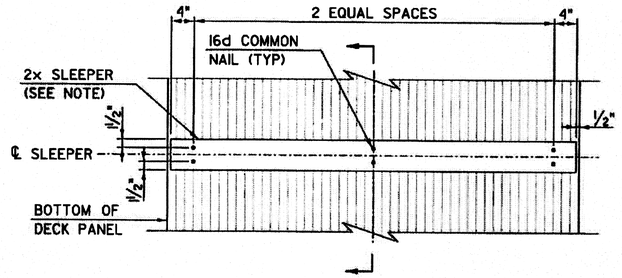
PROJECT NUMBER: BRF FLBR(2)



NOTE: TIMBER RUNNER PLANK NAILS SHALL BE CENTERED ON NAIL LAMINATED DECK PANEL LAMINATES.

RUNNER PLANK ATTACHMENT DETAIL - PLAN

SCALE: 1" = 1'-0"

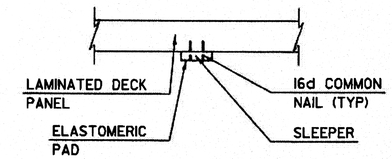


SLEEPER DETAIL - PLAN

SCALE: 1" = 1'-0"

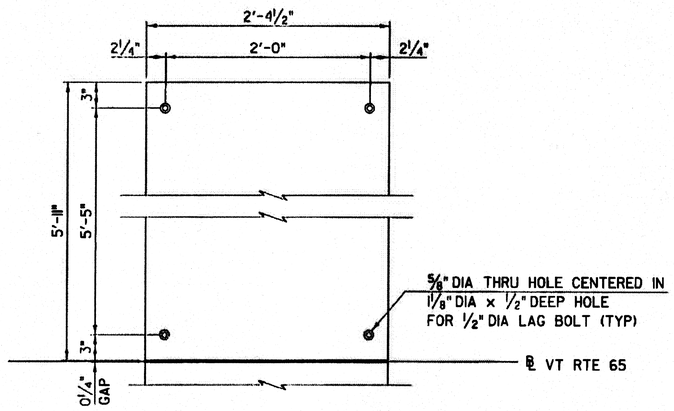
NOTE:

1. ⅛" THICK ELASTOMERIC PADS CONFORMING TO THE LENGTH AND WIDTH OF THE SLEEPER SHALL BE PLACED BENEATH THE SLEEPERS AND ATTACHED TO THE SLEEPERS WITH THE SAME NAILS USED TO ATTACH THE SLEEPER TO THE DECK.



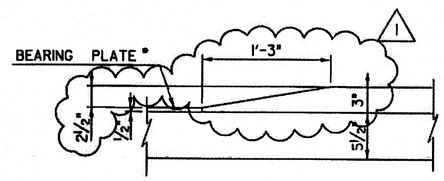
SECTION

SCALE: 1" = 1'-0"



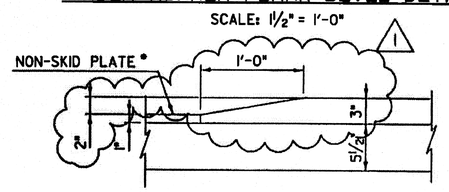
STEEL COVER PLATE PLAN OVER RAFT FIELD SPLICE LOCATIONS

SCALE: 1½" = 1'-0"



TIMBER RUNNER PLANK BEVEL DETAIL 1

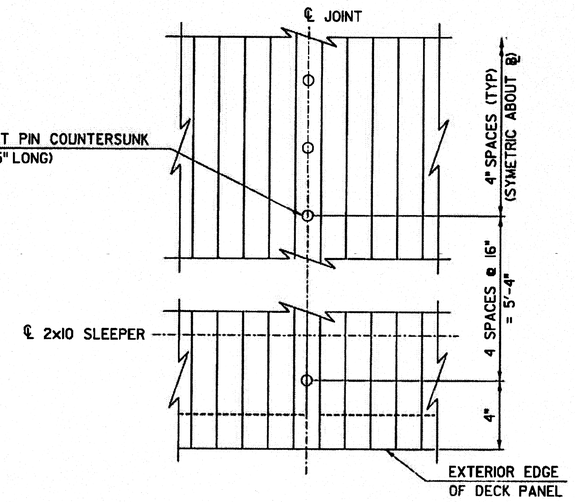
SCALE: 1½" = 1'-0"



TIMBER RUNNER PLANK BEVEL DETAIL 2

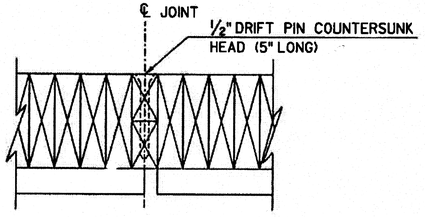
SCALE: 1½" = 1'-0"

* NON-SKID AND BEARING PLATES ARE COMPONENTS OF THE SPECIAL PROVISION (EXPANSION DEVICE, HINGED SLIDING PLATE ASSEMBLY). SEE SHEET 51 FOR LOCATION AND DETAILS.



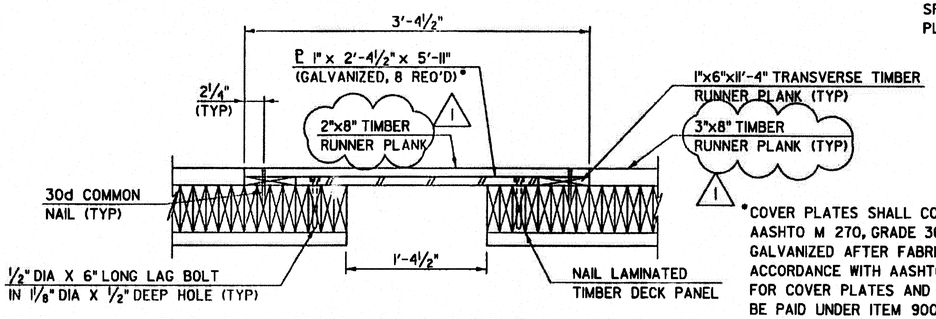
SHIP-LAP DETAIL - PLAN

SCALE: 3" = 1'-0"



SHIP-LAP DETAIL - SECTION

SCALE: 3" = 1'-0"



TIMBER RUNNER PLANK AND STEEL COVER PLATE DETAIL OVER RAFT FIELD SPLICES

SCALE: 1½" = 1'-0"

* COVER PLATES SHALL CONFORM TO AASHTO M 270, GRADE 36 AND SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AASHTO M 111. COSTS FOR COVER PLATES AND HARDWARE SHALL BE PAID UNDER ITEM 900.670, "SPECIAL PROVISION (NAIL LAMINATED TIMBER DECK PANEL)".

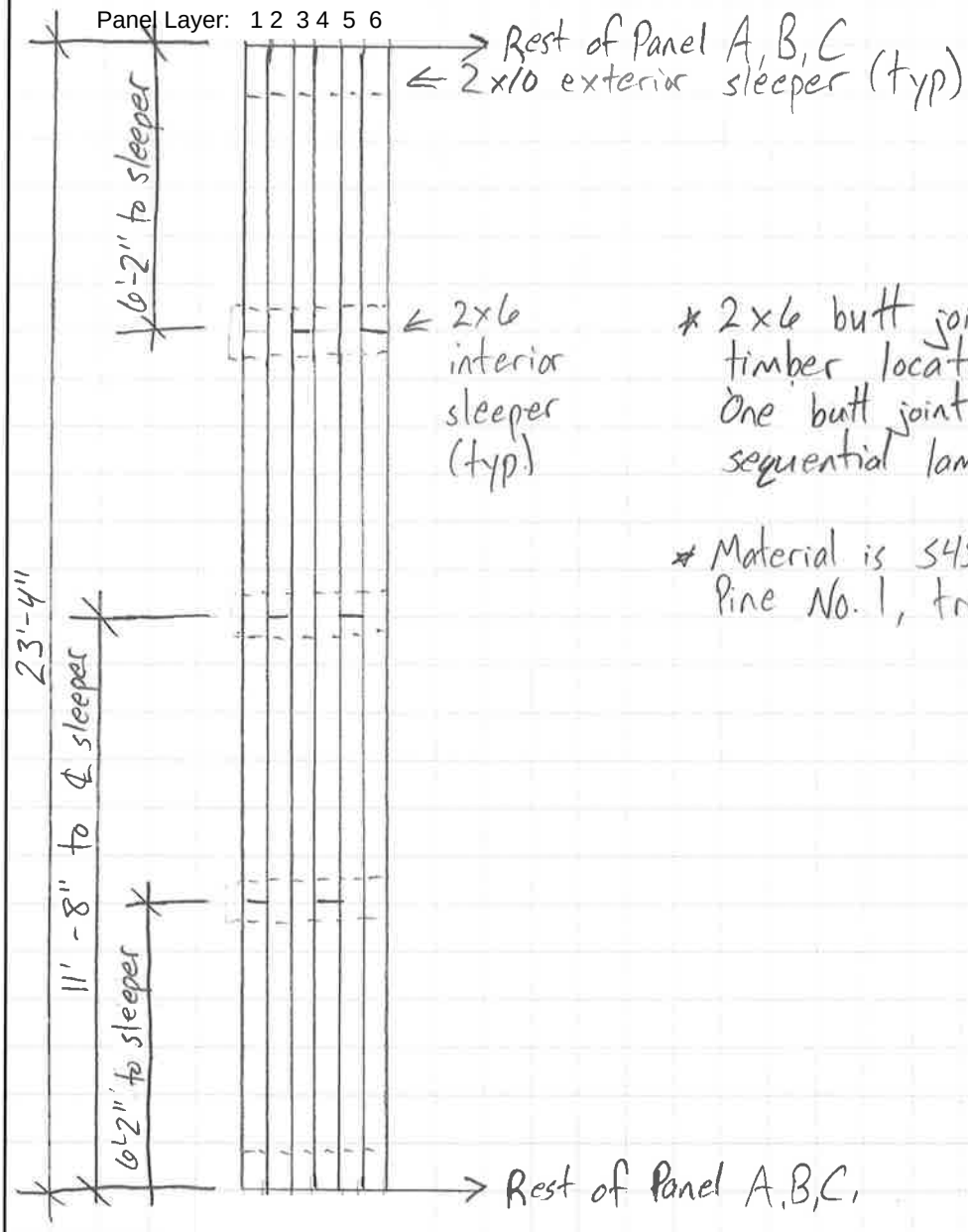
REVISION	DESCRIPTION	DATE
REVISION #1	RUNNER PLANK THICKNESS CHANGE	2/4/2014

PROJECT NAME: BROOKFIELD

PROJECT NUMBER: BRF FLBR(2)

WRIGHT
CONSTRUCTION COMPANY, INC.
PO Box 189
Mt. Holly, VT 05758
802.259.2094
802.259.2689 fax

Project Name: Brookfield BRF FLBR (2)
Project No.:
Date: 4/18/14
Title: Panel A, B, C decking layout
Drawn By: Joe Poston

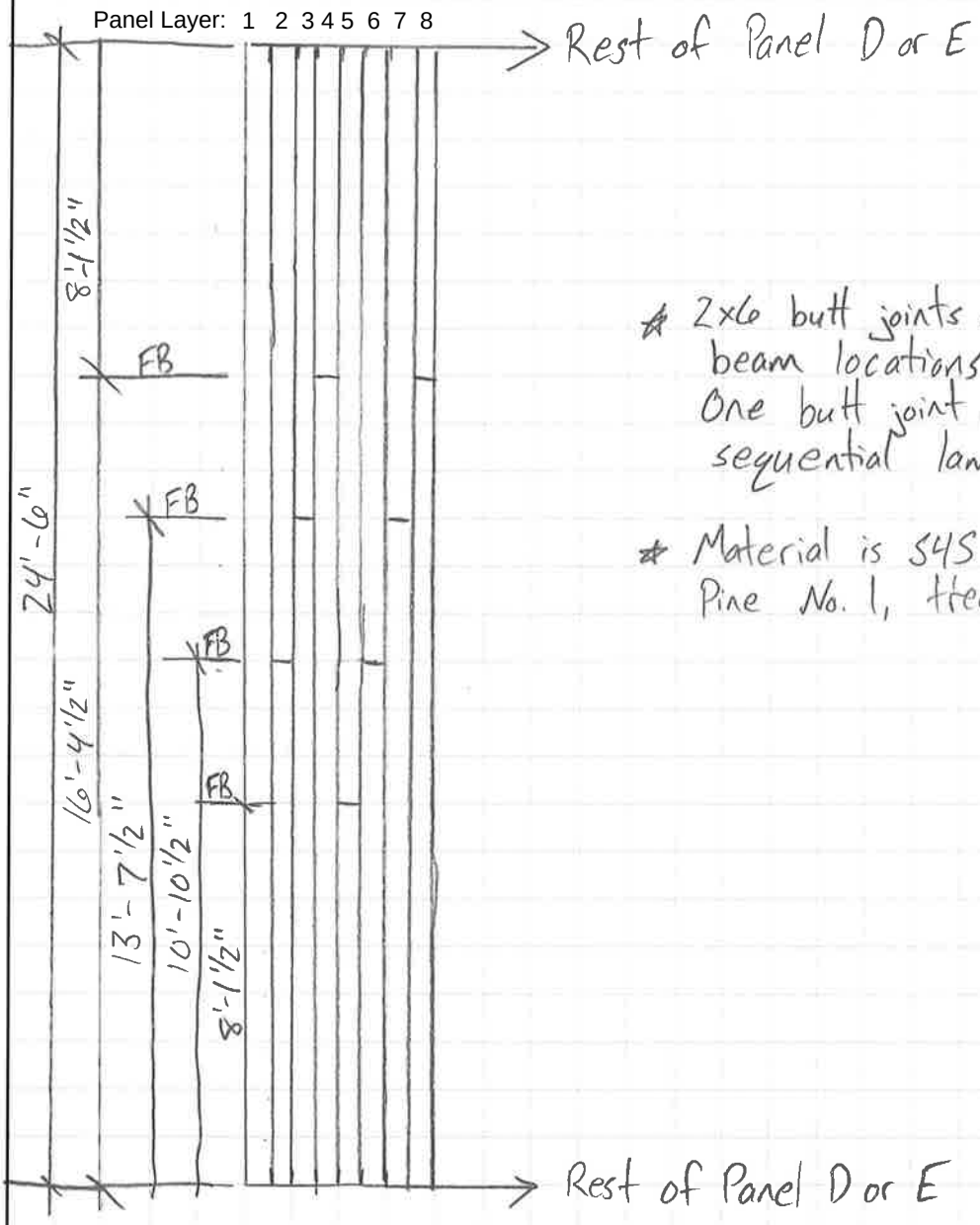


* 2x6 butt joints are on sleeper timber locations as shown. One butt joint per three sequential laminations.

* Material is S4S 2x6 Southern Pine No. 1, treated with Penta

WRIGHT
CONSTRUCTION COMPANY, INC.
PO Box 189
Mt. Holly, VT 05758
802.259.2094
802.259.2689 fax

Project Name: Brookfield BRF FLBR (2)
Project No.:
Date: 4/18/14
Title: Panel D & E Layout
Drawn By: Joe Poston

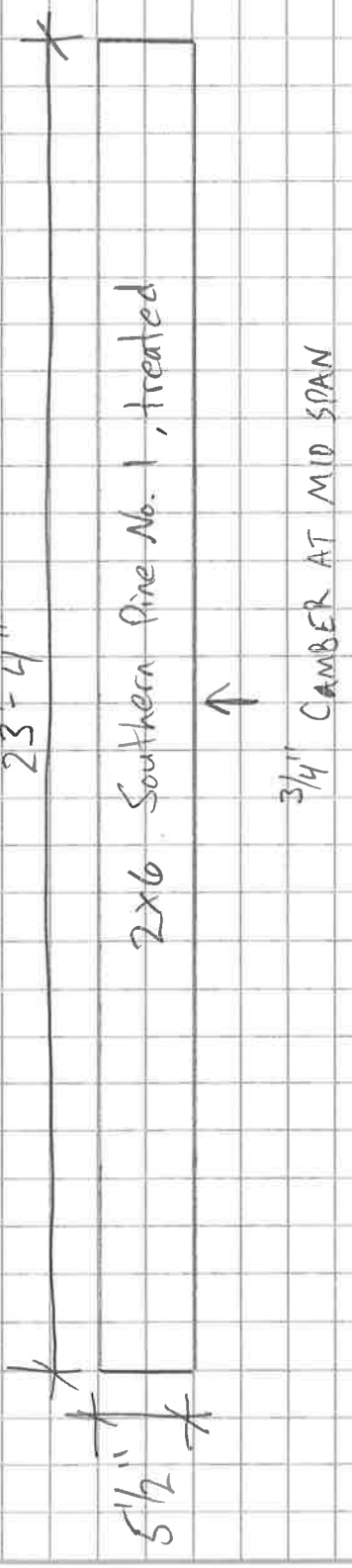


* 2x6 butt joints are on floor beam locations as shown. One butt joint per four sequential laminations.

* Material is S4S 2x6 Southern Pine No. 1, treated with Penta

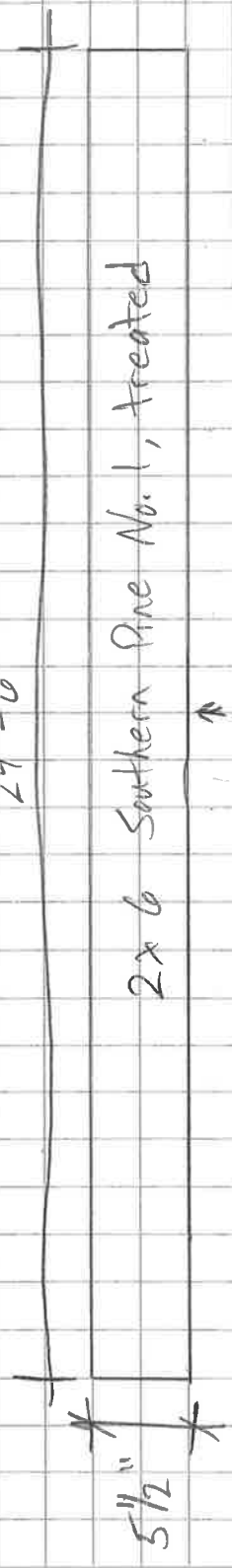
WRIGHT
CONSTRUCTION COMPANY, INC.
PO Box189
Mt. Holly, VT 05758
802.259.2094
802.259.2689 fax

Project Name: Brookfield BRF FLBR(2)
Project No.:
Date: 6/9/14
Title: Panel Profile
Drawn By: Joe Poston



3/4" CAMBER AT MID SPAN

PANEL A, B, C



3/4" CAMBER AT MID SPAN

PANEL D AND E

Deck Panel Layer Layout

Panel A					
Layer	6'-2"	11'-8"	17'-2"		
1	1		1		
2		2			
3	1		1		
4	1		1		
5		2			
6	1		1		
7	1		1		
8		2			
9	1		1		
10	1		1		
11		2			
12	1		1		
13	1		1		
14		2			
15	1		1		
16	1		1		
17		2			
18	1		1		
19	1		1		
20		2			
21	1		1		
22	1		1		
23		2			
24	1		1		
25	1		1		
26		2			
27	1		1		
28	1		1		
29		2			
30	1		1		
31	1		1		
32		2			
ship lap		1			
TOTAL	21	23	21		
panels	6	6	6		
TOTAL Pieces	126	138	126		

Panel B					
Layer	6'-2"	11'-8"	17'-2"		
1	1		1		
2		2			
3	1		1		
4	1		1		
5		2			
6	1		1		
7	1		1		
8		2			
9	1		1		
10	1		1		
11		2			
12	1		1		
13	1		1		
14		2			
15	1		1		
16	1		1		
17		2			
18	1		1		
19	1		1		
20		2			
21	1		1		
22	1		1		
23		2			
24	1		1		
25	1		1		
26		2			
27	1		1		
28	1		1		
29		2			
30	1		1		
31	1		1		
32		2			
33	1		1		
34	1		1		
35		2			
36	1		1		
37	1		1		
38		2			
39	1		1		
40	1		1		
41		2			
42	1		1		
43	1		1		
44		2			
45	1		1		
46	1		1		
47		2			
ship lap		2			
Total	31	34	31		
Panels	35	35	35		
Total pieces	1085	1190	1085		

Panel C					
Layer	6'-2"	11'-8"	17'-2"		
1	1		1		
2		2			
3	1		1		
4	1		1		
5		2			
6	1		1		
7	1		1		
8		2			
9	1		1		
10	1		1		
11		2			
12	1		1		
13	1		1		
14		2			
15	1		1		
16	1		1		
17		2			
18	1		1		
19	1		1		
20		2			
21	1		1		
22	1		1		
23		2			
24	1		1		
25	1		1		
26		2			
27	1		1		
28	1		1		
29		2			
30	1		1		
31	1		1		
32		2			
ship lap		1			
TOTAL	21	23	21		
panels	4	4	4		
TOTAL Pieces	84	92	84		

Panel D					
Layer	x	8'-1 1/2"	10'-10 1/2"	13'-7 1/2"	16'-4 1/2"
1		1			1
2			1	1	
3			1	1	
4		1			1
5		1			1
6			1	1	
7			1	1	
8		1			1
9		1			1
10			1	1	
11			1	1	
12		1			1
13		1			1
14			1	1	
15			1	1	
16		1			1
17		1			1
18			1	1	
19			1	1	
20		1			1
21		1			1
22			1	1	
23			1	1	
24		1			1
25		1			1
26			1	1	
27			1	1	
28		1			1
29		1			1
30			1	1	
31			1	1	
32		1			1
33		1			1
34			1	1	
35			1	1	
36		1			1
37		1			1
38			1	1	
39			1	1	
40		1			1
41		1			1
42			1	1	
43			1	1	
44		1			1
45		1			1
46			1	1	
47			1	1	
48		1			1
Total	0	24	24	24	24
Panels	8	8	8	8	8
Total pieces	0	192	192	192	192

Panel E					
Layer	x	8'-1 1/2"	10'-10 1/2"	13'-7 1/2"	16'-4 1/2"
1		1			1
2			1	1	
3			1	1	
4		1			1
5		1			1
6			1	1	
7			1	1	
8		1			1
9		1			1
10			1	1	
11			1	1	
12		1			1
13		1			1
14			1	1	
15			1	1	
16		1			1
17		1			1
18			1	1	
19			1	1	
20		1			1
21		1			1
22			1	1	
23			1	1	
24		1			1
Total	0	12	12	12	12
Panels	4	4	4	4	4
Total pieces	0	48	48	48	48
TOTAL ALL PIECES	8'	10'	12'	14'	18'
	1295	240	1660	240	1535

* Click to add to cart.

Nail Info | Nailing Tips | Nail Colors | Application Guidelines

HAND-DRIVEN NAILS FOR DECKING & TRIM

DOUBLE HOT-DIP GALVANIZED PRESSURE TREATED LUMBER NAILS

With CCA-treated lumber being phased out, the treated wood industry now recommends hot-dipped galvanized steel fasteners or stainless steel fasteners be used with their new treatment formulations.

These nails are made from stiffer stock steel so the shanks can be smaller in diameter to help reduce wood splitting without bending. Ring and spiral shanks provide exceptional holding power. Producers of treated lumber and many building codes specify hot-dip galvanized or stainless steel nails because they have a rust-free life expectancy comparable to that of the treated lumber. Maze ***STORMGUARD***® "P.T.L."® Nails are double-dipped in molten zinc.

Nails for deck panel lamination.

Stock Numbers RING Shank	Length	Gauge	Head	Nails/Lb.
T445A	2"	11.00	9/32"	137
T447A	2-1/2"	11.00	9/32"	111
T449A	3"	10.00	9/32"	75
T4490A	3-1/4"	10.00	9/32"	69
T4491A	3-1/2"	9.00	5/16"	54
T4492A	4"	7.00	3/8"	33
T4493A	4-1/2"	7.00	3/8"	29
T4494A	5"	15/32"	22	$144.19
T4496A	6"	15/32"	18	$144.19

LIFETIME WARRANTY!