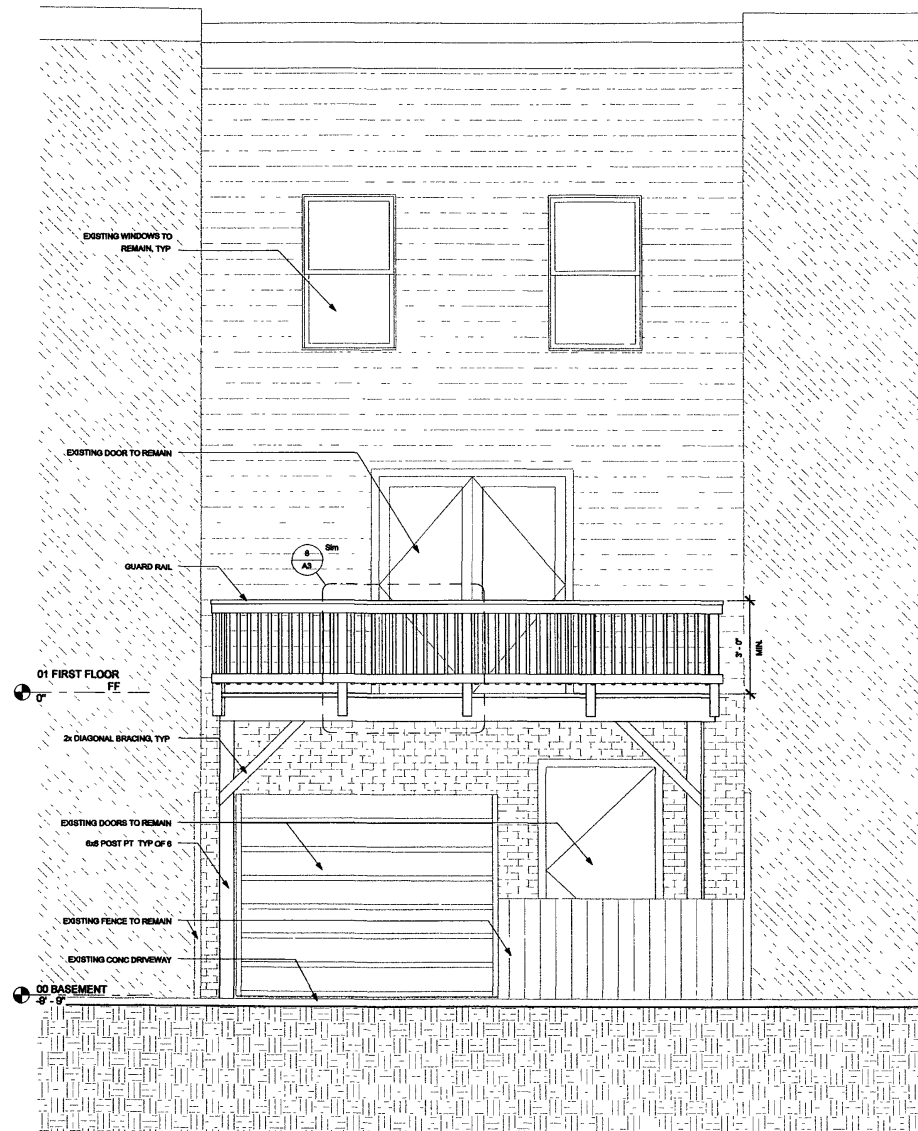
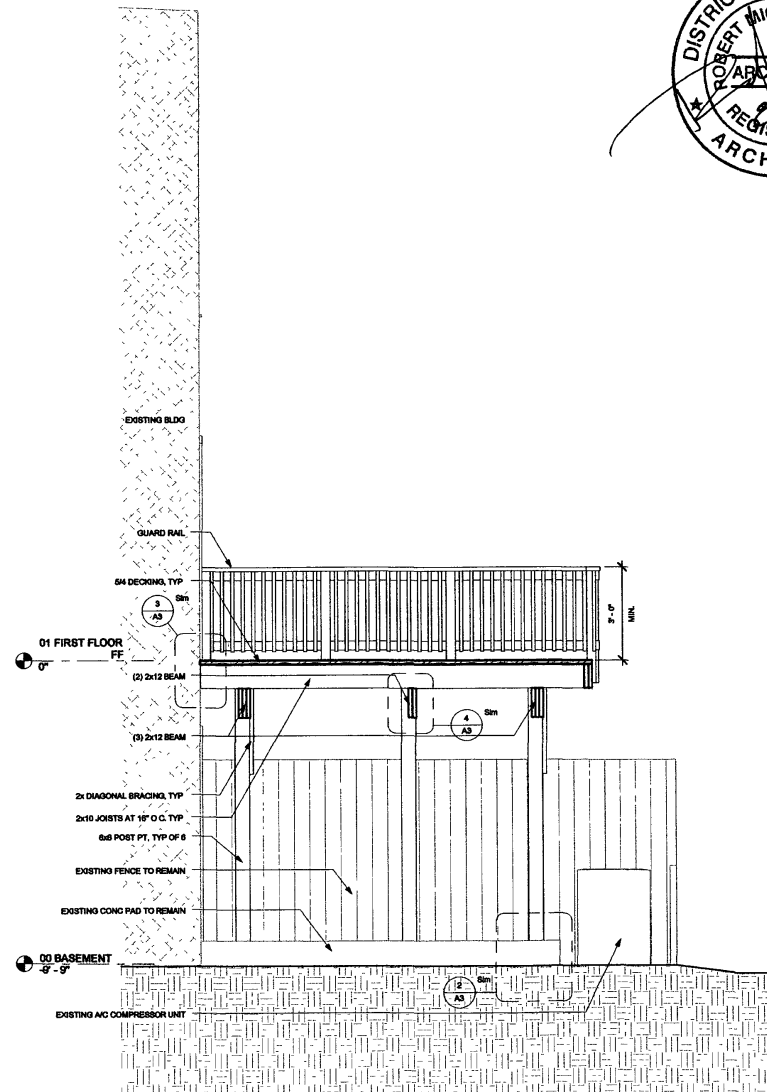
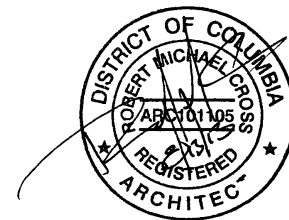




REAR ELEVATION
1/2" = 1'-0" | 1/4" = 1'-0"



CONSTRUCTION SECTION
1/2" = 1'-0" | 1/4" = 1'-0"



2013 NOV - 8 PM 1:14:9

Michael Runyan
OFFICE OF
PERMITS

■ R. MICHAEL CROSS
■ DESIGN GROUP

REVISION SCHEDULE
NO. DESCRIPTION DATE

DRAW JJB
CHECK RMC

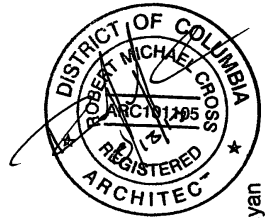
22 AUG 2013

ELEVATION &
SECTION

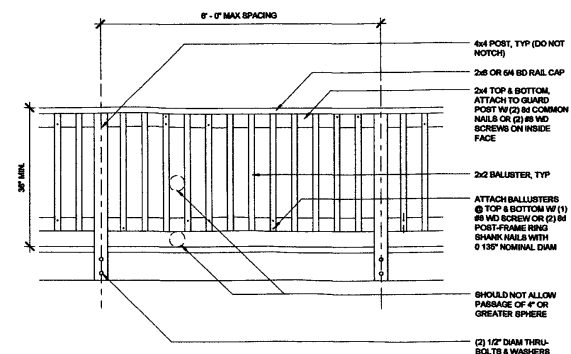
A2

FULL-SIZE HALF-SIZE
1/2" = 1'-0" | 1/4" = 1'-0"

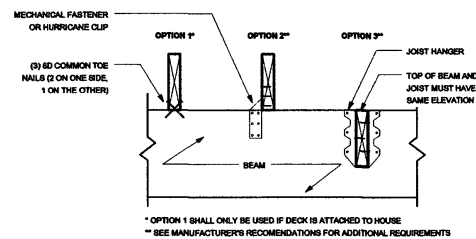
DK
RNN



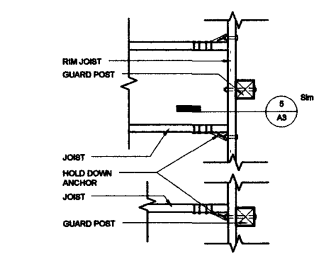
67-1-Hd 8-AON107 Michael Runyan
RUNYAN REAR DECK
R. MICHAEL CROSS
DESIGN GROUP



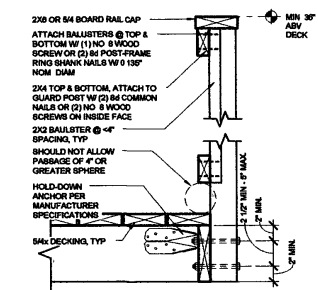
DECK GUARD DETAIL
1/2" = 1'-0"



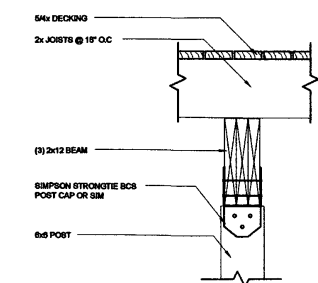
TYP JOIST-TO-BEAM DETAIL
1/2" = 1'-0"



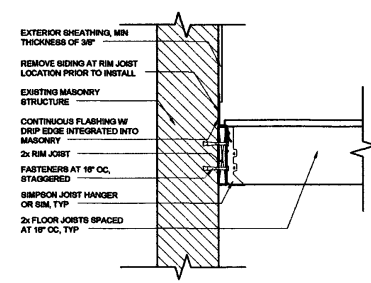
GUARD POST TO RIM JOIST PLAN
1" = 1'-0"



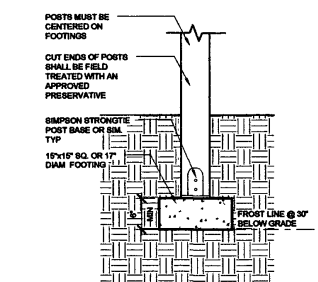
GUARD POST TO RIM JOIST SECTION
1/2" = 1'-0"



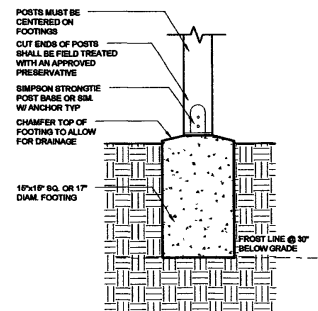
TYP DECK BEAM DETAIL
1/2" = 1'-0"



FREE STANDING DECK CONNECTION
1/2" = 1'-0"

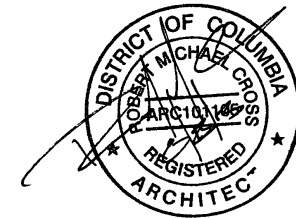


DECK FOOTING DETAIL BELOW GRADE
1" = 1'-0"



DECK FOOTING DETAIL AT GRADE
1" = 1'-0"

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
DRAW	JJB	
CHECK	RMC	
22 AUG 2013		
DETAILS		
A3		
FULL-SIZE HALF-SIZE		
As Indicated		



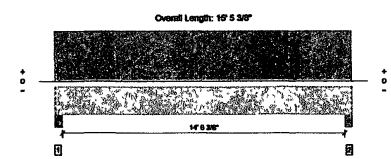
2013 NOV -8 PM 1:49

Michael Runyan
OFFICE OF ZONING
1111 15th St NW
PERMIT SET

■ ■ ■ R. MICHAEL CROSS
■ ■ ■ DESIGN GROUP

FORTE MEMBER REPORT Level, Beam 1
3 piece(s) 2 x 12 Southern Pine No. 2

PASSED



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal. Drawing is Conceptual.

Design Results	Actual @ Location	Allowed	Design	Use	Load Check (Problem)
Member Reaction (Rn)	3605 @ 4"	13804 (5.38')	Passed (11%)	-	1.0 D + 1.6 L (All Spans)
Shear (Vn)	1215 @ 1' 4 3/4"	5905	Passed (22%)	1.00	1.0 D + 1.6 L (All Spans)
Moment (Mn)	9276 @ 7' 8 11/16"	5013	Passed (56%)	1.00	1.0 D + 1.6 L (All Spans)
Live Load Defl. (δl)	0.230 @ 7' 8 11/16"	0.493	Passed (2.007)	-	1.0 D + 1.6 L (All Spans)
Total Load Defl. (δt)	0.299 @ 7' 8 11/16"	0.739	Passed (0.739)	-	1.0 D + 1.6 L (All Spans)

• Deflection criteria: LL (L/480) and TL (L/240)
• Bending (Ln): All compression edges (top and bottom) must be braced at 10 11/16" o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.
• Applicable calculations are based on NDS 2005 methodology

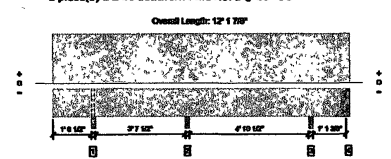
Supports	Spanning Length	Ends	Ends	Ends	Ends	Ends	Ends	Ends	Ends
	Typical	Actual	Required	Design	Allow	Actual	Design	Allow	Actual
1 Column - SIP	5.50'	5.50'	1.50'	42	110	1025	Blocking		

• Blocking needs are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Locations	Location	Depth (in)	Width (in)	Height (in)	Notes
1 Unknown (PL)	0 to 19' 5 3/8"	N/A	42.0	152.0	Unbraced from floor - N/A, Support

FORTE MEMBER REPORT Level, Floor Joist
1 piece(s) 2 x 10 Southern Pine No. 2 @ 16" OC

PASSED



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal. Drawing is Conceptual.

Design Results	Actual @ Location	Allowed	Design	Use	Load Check (Problem)
Member Reaction (Rn)	360 @ 10' 0"	2543 (2.32')	Passed (14%)	-	1.0 D + 1.6 L (All Spans)
Shear (Vn)	125 @ 1' 1 1/8"	1537	Passed (7%)	1.00	1.0 D + 1.6 L (All Spans)
Moment (Mn)	-135 @ 10' 0"	2153	Passed (7%)	1.00	1.0 D + 1.6 L (All Spans)
Live Load Defl. (δl)	0.002 @ 7' 11 3/16"	0.128	Passed (0.009)	-	1.0 D + 1.6 L (All Spans)
Total Load Defl. (δt)	0.003 @ 0	0.300	Passed (0.009)	-	1.0 D + 1.6 L (All Spans)

• Deflection criteria: LL (L/480) and TL (L/240)
• Overhang deflection criteria: LL (L/480) and TL (L/240)
• Bending (Ln): All compression edges (top and bottom) must be braced at 11 10 7/8" o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.
• A 10% increase in the moment capacity has been added to account for repetitive member usage.
• Applicable calculations are based on NDS 2005 methodology

Supports	Spanning Length	Ends	Ends	Ends	Ends	Ends	Ends	Ends	Ends
	Typical	Actual	Required	Design	Allow	Actual	Design	Allow	Actual
1 Beam - SIP	3.00'	3.00'	1.50'	50	200	200	Blocking		
2 Beam - SIP	3.00'	3.00'	1.50'	72	274	267	None		
3 Beam - SIP	3.00'	3.00'	1.50'	76	296	290	None		
4 Hanger on 8 1/4" SIP ledger	3 0/8"	Hanger	1.50'	11	64/64	60/65	See note		

• Blocking needs are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.
• At hanger supports, the Total blocking dimension is equal to the width of the material that is supporting the hanger.
• See Connector grid below for additional information and/or requirements.

Connections	USP Connections	Notes	Notes	Notes	Notes	Notes	Notes	Notes	Notes
Support	Notes	Notes	Notes	Notes	Notes	Notes	Notes	Notes	Notes
1 Face Board Hanger	3/8"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

Locations	Location	Depth (in)	Width (in)	Height (in)	Notes
1 Unknown (SIP)	0 to 12' 1 7/8"	30"	15.0	40.0	Residential Living Area

REVISION SCHEDULE

NO	DESCRIPTION	DATE

DRAW JJB
CHECK RMC

22 AUG 2013

STRUCTURAL CALCULATIONS

A4

FULL-SIZE HALF-SIZE