Inspection Division
Date: 09/18/14

BEAM END REPLACEMENT DETAIL (1 / S201)

3/4" = 1'-0"

1 - INDICATES LOCATION ON PLANS

NOTE 1:
EXISTING BEAM TO BE CUT UP TO SOLID WOOD OR A MINIMUM OF 2'-0" BEYOND EDGE OF GIRDER.

PLAN SECTION (A / S201)

3/4" = 1'-0"

SECTION (2 / S201)

1/2" = 1'-0"

2 - INDICATES LOCATION ON PLANS

SECTION (B / S201)

1 1/2" = 1'-0"

SECTION (C / S201)

1 1/2" = 1'-0"

POST REPLACEMENT DETAIL (3 / S201)

3/4" = 1'-0"

P - INDICATES LOCATION ON PLANS

TYPICAL BEAM SEISMIC ANCHOR (4 / S201)

3/4" = 1'-0"

NOTE: ANGLE ANCHORS REQUIRED AT EVERY ROOF BEAM

SECTION (D / S201)

3/4" = 1'-0"

TYPICAL SEISMIC ANCHOR DETAIL (5 / S201)

1 1/2"=1'-0"

NOTE: L6x6 ANCHORS REQUIRED @ MAX 6'-0" SPACING

GENERAL NOTES:

1. The design is in accordance with IBC 2009.
2. The structural drawings shall be used in conjunction with the architectural, mechanical, electrical, plumbing, and landscape drawings and specifications.
3. Details shown as typical are applicable to all similar conditions.
4. All dimensions, elevations and conditions shall be verified in the field by the contractors and any discrepancies shall be brought to the attention of the Engineer for clarification before proceeding with the affected part of the work. For work attached to or within existing structures, the contractors shall determine all necessary dimensions, elevations and conditions required for the accurate fabrication and erection of the building components. The contractor shall verify all dimensions and conditions at the site and report any discrepancy to the engineer before ordering material and proceeding with the work. Dimensions and elevations noted in the contract documents as (+/-) and all field conditions shall be verified in the field (V.I.F.) by the contractors prior to the submission of shop drawings. Upon receipt of shop drawings, the engineer has the right to assume that all field dimensions, elevations and conditions have been verified by the contractors and that the shop drawings accurately reflect such verifications unless stated otherwise on the shop drawings.
5. The contractor is entirely responsible for the stability of the structure during all phases of erection & construction.

WOOD CONSTRUCTION:

1. All lumber used shall conform to the following species:
   a. All lumber for trusses shall be as required by the truss supplier.
   b. Laminated Strand Lumber (LSL) shall be Grade 2500 Fb-1.75E and have an allowable bending stress of Fb=2500 psi, an allowable shear stress of Fv=410 psi, and a modulus of elasticity $E=1.75x10^6$ psi.
   c. Paralliams (LAM) shall have an allowable bending stress of 2900 psi, an allowable compression stress parallel to grain of 2900 psi, and a modulus of elasticity of 2000,000 psi.
   d. Laminated Verneer Lumber (LVL) shall have an allowable bending stress of 2800 psi, an allowable shear stress of 285 psi, and a modulus of elasticity of 1.9×10^6 psi.
   e. "LSL" indicates laminated strand lumber, grade 2500 Fb-1.75E w/bending stress Fb=2500 psi, modulus of elasticity $E=1.75x10^6$ psi and shear stress Fv=410 psi.
   f. Versa Lam Studs: $Fc_{\parallel}$=3000 psi, $E=1.70X10^6$ psi, Fb=2650 psi
   f. Versa Lam Columns: $Fc_{\parallel}$=3000 psi, $E=1.80X10^6$ psi, Fb=2500 psi
   h. All other lumber shall be spruce-pine-fir as follows: Fb=875psi Fv=135psi E=1,400,000psi
      1. Studs - No.1 / No.2 or better
      2. Joists and Rafters - No.1 / No.2 or better
      3. Beams and Girders - No.1 or better
   i. All pressure treated wood shall be SYP #2 or better and treated with ACQ-C or ACQ-D Carbonate preservative.
2. All wood in contact with concrete shall be pressure treated.
3. All roof sheathing shall be 19/32" APA Exposure 1 (40/20) plywood or OSB (unless noted otherwise). Provide plywood edge clips, ridge clips and hip clips.
4. All mechanical fasteners in contact with pressure treated wood shall be hot-dip galvanized or mechanically deposited zinc coated fasteners. Hot-dip galvanized fasteners should meet ASTM A153, with 2-ounces of zinc coating per square foot minimum. Mechanically deposited zinc coated fasteners shall meet ASTM B695 Class 55 or greater.
5. All mechanical connectors in contact with pressure treated wood shall be hot-dip galvanized connectors. All hot-dip galvanized connectors shall meet ASTM A653, Class G185 with 1.85-ounces of zinc coating per square foot minimum or Type 304 and 316 stainless steel products.
6. Fasteners and connectors used together should be of the same type (e.g. hot-dip nails with hot-dip joist hangers).
7. All mechanical connectors in contact with pressure treated wood and not meeting the above corrosion protection requirements shall be isolated from contact with the pressure treated wood by means of three layers of 15-lbs felt paper.

INTENT OF THE STRUCTURAL DRAWINGS:

1. The intent of the structural drawings is to show the main structural features and structural design for the project. Architectural details are shown incidentally only and not completely. Therefore, architectural drawings must be used in conjunction with the structural drawings.

SHOP DRAWINGS:

1. All shop drawings submitted to the Engineer should indicate the date, revision number and issue description of the reference drawings (the structural contract drawings used to prepare the shop drawings). If shop drawings are not prepared according to the latest structural drawings, or if shop drawings are submitted without indicating reference drawings, the shop drawings will be returned without review.
2. All shop drawings shall be checked by the Subcontractor and reviewed by the General Contractor prior to submission. Shop drawings which have not been checked by the Subcontractor or reviewed by the General Contractor will be returned without review.
3. Review of shop drawings by the Engineer does not relieve the Contractor from full conformance to the contract documents.

ABBREVIATIONS OF STRUCTURAL DRAWINGS:

A.B.	Anchor Bolt	L.P.	Low Point
A.R.	Anchor Rod	LVL	Laminated Veneer Lumber
ARCH.	Architectural/Architect	MC	Moment Connection
BOF	Bottom of Footing	MIN.	Minimum
CJ	Control Joint	N.S.	Near Side
℄	Center line	O.C.	On Center
CONC.	Concrete	PL	Plate
CMU	Concrete Masonry Unit	P.T.	Pressure Treated
DIA.	Diameter	RD	Roof Drain
DWGS.	Drawings	REINF.	Reinforced / Reinforcing
EF	Elevation	REQ'D.	Required
EL.	Each Face	RTU	Roof Top Unit
EOD	Edge of Deck	T&B	Top & Bottom
EW B.	Each Way Bottom	TOC	Top of Concrete
EXIST.	Existing	TOS	Top of Steel
FDN.	Foundation	TOW	Top of Wall
F.S.	Far Side	TYP.	Typical
FTG.	Footing	UNO.	Unless Noted Otherwise
H.P.	High Point	VERT.	Vertical
HSS	Hollow Structural Steel	V.I.F.	Verify In Field
HORZ.	Horizontal	W/	With
LAM	Parallam		
LLH	Long Leg Horizontal		
LLV	Long Leg Vertical		

Refer to project specifications for additional requirements.

STATE OF MAINE
RIMANTAS M. VEITAS
No. 11777
LICENSED PROFESSIONAL ENGINEER

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Date: 11/26/13

SECTIONS, DETAILS AND GENERAL NOTES

S201