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February 17, 2009

Chris Hansen
City of Portland Code Enforcement Officer
389 Congress Street
Portland, ME 04101

Re: Walgreen's – Forest Avenue, Portland, ME
Subject: Roof snow removal plan

Dear Mr. Hansen,

Please accept this letter as our existing roof snow removal plan. As discussed with you and Steve Grant, and in conjunction with the shoring design, PM Construction plans to remove any snow accumulation on the existing roof, and to limit the size of equipment on this roof until we have completely tied into the new addition steel structure.

It is our intention to adhere to Steve Grant's design and follow any and all safety measures and codes during the course of this project.

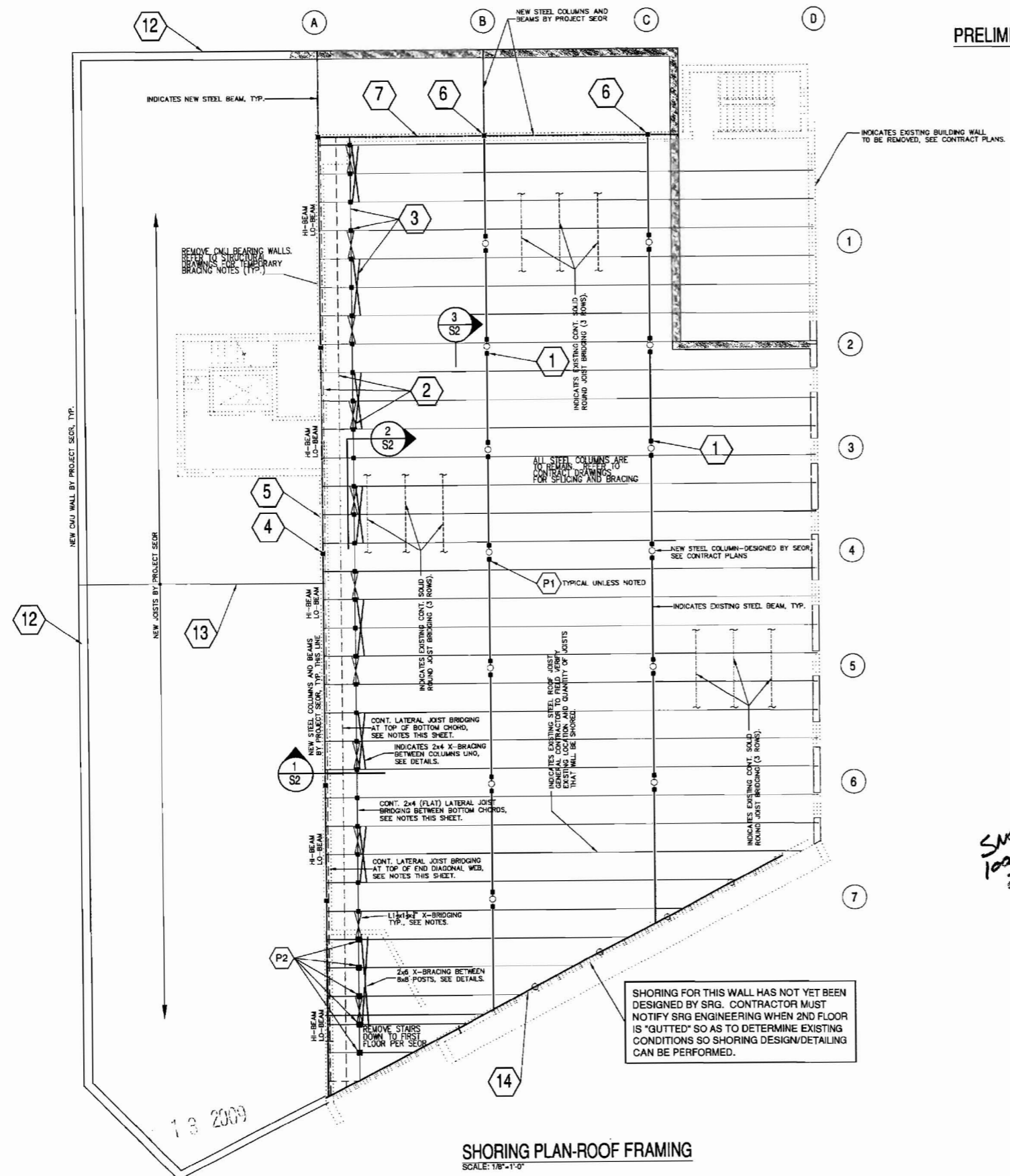
Any questions, please contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Michael J. DiMatteo', written in a cursive style.

Michael J. DiMatteo
Project Manager

PRELIMINARY-FOR REVIEW/COMMENT ONLY



POST SCHEDULE	
SYMBOL	ACTUAL SIZE
P1	5.5"x5.5"
P2	7.25"x7.25"

SHORING SEQUENCE SCHEDULE	
SYMBOL	DESCRIPTION
1	FASTEN POSTS AT THESE TWO INTERIOR BEAM LINES TO 2ND FLOOR SLAB AND STEEL BEAM, THEN REPLACE 2ND FLOOR COLUMN, CONNECT BEAM TO NEW COLUMN.
2	ERECT NEW STEEL ANGLE LATERAL AND DIAGONAL JOIST BRIDGING.
3	ERECT NEW WOOD POSTS, LATERAL WOOD BRIDGING BETWEEN JOISTS, AND DIAGONAL BRACING BETWEEN COLUMNS.
4	CUT 24" WIDE SECTION OF EXISTING CMU WALL AND ERECT NEW STEEL COLUMNS THIS WALL.
5	REMOVE TOP CMU COARSES ONLY IN ORDER TO ERECT NEW HI/LOW STEEL BEAMS THIS WALL. WELD EXISTING JOISTS TO NEW STEEL BEAMS PER SEOR. (BRACE CMU WALL PRIOR TO REMOVAL OF TOP COARSES, LEAVE IN-PLACE)
6	CUT 24" WIDE SECTION OF EXISTING CMU WALL AND ERECT NEW STEEL COLUMNS THIS WALL.
7	REMOVE TOP CMU COARSES ONLY IN ORDER TO ERECT NEW STEEL BEAMS THIS WALL. FASTEN EXISTING ROOF PANELS TO NEW STEEL BEAMS PER SEOR. (BRACE CMU WALL PRIOR TO REMOVAL OF TOP COARSES, LEAVE IN-PLACE.)
8	REMOVE WOOD SHORING POSTS AND RELATED X-BRACING.
9	REMOVE EXISTING 2ND FLOOR CMU WALLS
10	REMOVE EXISTING 2ND FLOOR CONCRETE DECK AND FRAMING
11	REMOVE EXISTING 1ST FLOOR CMU WALLS
12	ERECT AND BRACE (DESIGN NOT BY SRG) NEW CMU WALL
13	ERECT NEW STEEL JOISTS
14	SHORING FOR THIS WALL HAS NOT YET BEEN DESIGNED BY SRG. CONTRACTOR MUST NOTIFY SRG ENGINEERING WHEN 2ND FLOOR IS "GLUTTED" SO AS TO DETERMINE EXISTING CONDITIONS SO SHORING DESIGN/DETAILING CAN BE PERFORMED.

SNOW LOAD

- FRAMING NOTES:**
- REFER TO PROJECT STRUCTURAL ENGINEER OF RECORD (SEOR) FOR ALL OTHER RELATED INFORMATION NOT SHOWN OR LABELED ON THESE PLANS.
 - THESE PLANS ARE INTENDED TO PROVIDE SHORING RELATED INFORMATION ONLY.
 - DESIGN ROOF LIVE LOAD = 20PSF-PER FM CONSTRUCTION. CONTRACTOR MUST CONTINUOUSLY MONITOR ROOF SO LIVE LOAD IS NOT EXCEEDED.
 - DESIGN ROOF DEAD LOAD=15PSF, BASED ON NON-BALASTED FULLY ADHERED MEMBRANE ROOF SYSTEM WITH NO STONE BALLAST AND/OR GRAVEL/STONE.
 - ALL NEW WOOD POSTS TO BE #2 GRADE OR BETTER SPF (SPRUCE-PINE-FIR) OR EASTERN HEMLOCK WITH THE FOLLOWING MINIMUM BASE DESIGN VALUES: E=900,000psi, Fc=400psi, Fb=600psi. ALL POSTS TO BE ONE-PIECE AND CONTINUOUS. SPLICES NOT ALLOWED.
 - ALL NEW DIMENSIONAL WOOD FRAMING TO BE #2 GRADE OR BETTER SPF OR EASTERN HEMLOCK.
 - ALL NEW STEEL ANGLES, PLATES, AND MISCELLANEOUS SHAPES TO BE ASTM A36.
 - ALL WOOD SCREWS TO BE SIMPSON 1/2"x3/4"SDS UNLESS NOTED OTHERWISE ON PLANS-NO EXCEPTION.
 - ALL LAG SCREWS TO BE ASTM A307.
 - WELDS E70 SERIES.
 - ALL FIELD WELDS MUST BE INSPECTED AND APPROVED BY A CERTIFIED WELD INSPECTOR (SUCH AS QUALITY ASSURANCE LABORATORY LOCATED IN SOUTH PORTLAND MAINE)-NO EXCEPTION. PROVIDE WRITTEN REPORT OF FINDINGS TO SRG ENGINEERING, INC.
 - CONTRACTOR TO USE CARE WHEN SHORING SO AS NOT TO INDUCE FAILURE OF ANY COMPONENT AND/OR MEMBER.
 - CONTRACTOR TO NOTIFY SRG ENGINEERING IMMEDIATELY SHOULD ACTUAL CONDITIONS NOT MATCH THOSE INDICATED ON THESE PLANS. FAILURE TO DO SO MAY RESULT IN FAILURE.
 - > INDICATES ROW(S) OF NEW CONTINUOUS L1x1 1/2"x1 1/2" JOIST BRIDGING AT JOIST TOP OR BOTTOM CHORD (AS NOTED ON PLAN), WELD TO EACH JOIST CROSSED AND POSITIVELY ANCHOR AT ENDS; SEE DETAILS. OVERLAP ENDS MINIMUM 2" AND WELD TOGETHER PER S.J.
 - > INDICATES LOCATION OF NEW L1x1 1/2"x1 1/2" X-BRIDGING BETWEEN EXISTING JOISTS. CUT TO FIT IN FIELD AND WELD EACH END WITH MINIMUM 1/2"x1 1/2" FILLET WELD.
 - INDICATES LOCATION OF 2x4 (FLAT-WSE) SPF LATERAL BRACING (EACH JOIST SPACE) LOCATED AT TOP OF JOIST BOTTOM CHORD, CUT TO FIT SNUG TIGHT WITHOUT DIPLACING JOIST. SCREW EACH END TO TOP OF WOOD POST WITH MINIMUM (1) SIMPSON SDS SCREW, SEE DETAILS.
 - FASTEN ALL NEW TEMPORARY WOOD POSTS TO EXISTING STEEL JOISTS WITH (2) SIMPSON SDS SCREWS (1 EACH SIDE OF BOTTOM FLANGE). PRE-DRILL 5/8" DIA. HOLE IN JOIST BOTTOM CHORD TO RECEIVE SCREW, SEE DETAILS.
 - NEW WOOD X-BRACING TO BE #2 GRADE SPF OR BETTER. FASTEN TO EACH POST CROSSED AND ENDS WITH (4) SIMPSON SDS SCREWS.
 - NEW STEEL BRIDGING (LATERAL AND DIAGONAL) MAY BE LEFT IN-PLACE PERMANENTLY AT CONTRACTOR'S DISCRETION.
 - CONTRACTOR TO RETAIN SRG ENGINEERING FOR REVIEW OF SHORING WORK FOR CONFORMANCE WITH DESIGN INTENT.
 - THIS SHORING PLAN DOES NOT REFLECT STANDARD STRUCTURAL STEEL FRAME BRACING FOR STABILITY OF THE ENTIRE STRUCTURE UNTIL THE ROOF FRAMING, BEARING AND/OR SHEAR WALLS, AND DIAPHRAM IS FULLY IN-PLACE; AS THIS IS TYPICALLY HANDLED BY THE CONTRACTOR AND/OR STEEL ERECTOR.

SHORING PLAN-ROOF FRAMING
SCALE: 1/8"=1'-0"

SRG ENGINEERING, INC.
REGISTERED PROFESSIONAL ENGINEER

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PROJECT NO. 09-008 ECR SRC DESIGN CHGD SRC DRAWN SRC SRG

SHORING PLAN AND NOTES
OF **WALGREENS - STORE #12325**
PORTLAND, MAINE
FOR **PM CONSTRUCTION CO.**
SACCO, MAINE

DATE	SCALE
02.12.09	AS NOTED

SHEET S1 OF 2

CONT. LATERAL JOIST BRIDGING AT TOP OF END DIAGONAL WEB, WELD EACH SIDE TO EACH JOIST CROSSED AND POSITIVELY ANCHOR AT EACH END OF BRIDGING RUN.

L1x1x1/8" X-BRIDGING WHERE NOTED ON PLANS. WELD AT LAP AND EACH END OF ANGLE TO SIDE OF JOIST TOP AND BOTTOM CHORDS. WELD IN-PLACE PRIOR TO ERECTING HORIZONTAL FLAT 2x4 LATERAL BRACING.

FLAT 2x4 LATERAL BRIDGING, SNUG-TIGHT TO SIDE OF JOIST BOTTOM CHORD. FASTEN TO POST WITH (1) SDS SCREW EACH END.

TYPICAL JOIST CONNECTION TO POST: PRE-DRILL 1/8" DIA. HOLE IN JOIST BOTTOM FLANGE, PROVIDE SIMPSON SDS SCREW EACH SIDE OF BEAM WEB, STAGGER.

EXISTING TECTUM PANELS, NON-RELATED TO SRG ENG. SCOPE OF SERVICES.

APPROXIMATE LOCATION OF EXISTING 1/2" SOLID ROUND LATERAL JOIST TOP AND BOTTOM CHORD BRIDGING, TYP.

CONTINUOUS LATERAL JOIST BRIDGING THIS BAY AT TOP OF JOIST BOTTOM CHORD, WELD EACH SIDE TO EACH JOIST CROSSED AND POSITIVELY ANCHOR AT EACH END OF BRIDGING RUN.

1/2"x6"x12" TALL CDX PLYWOOD GUSSET EACH SIDE, CENTER ON POST. FASTEN WITH MINIMUM (6) 10d COMMON EACH PLATE.

AT SECTION 1A ONLY: SOLID BLOCKING MID-SPAN AT BRACE INTERSECTION, FASTEN EACH BRACE TO BLOCKING WITH (4) SIMPSON 1/2"x4 1/2" SDS SCREWS

AT SECTION 1A: 2x6 X-BRACING BETWEEN COLUMNS, FASTEN TO POST AND 8x8 PLATE WITH MINIMUM (4) 1/2"x4 1/2" SIMPSON SDS SCREWS EACH LOCATION.

2x4 X-BRACING BETWEEN COLUMNS, FASTEN TO EACH POST AND 6x6 PLATE WITH MINIMUM (4) 1/2"x4 1/2" SIMPSON SDS SCREWS EACH LOCATION.

AT SECTION 1A: CONT. #2 GRADE 8x8 PLATE, SPLICE ONLY OVER CENTER OF FLOOR JOIST BELOW

CONT. #2 GRADE 6x6 PLATE, SPLICE ONLY OVER CENTER OF FLOOR JOIST BELOW

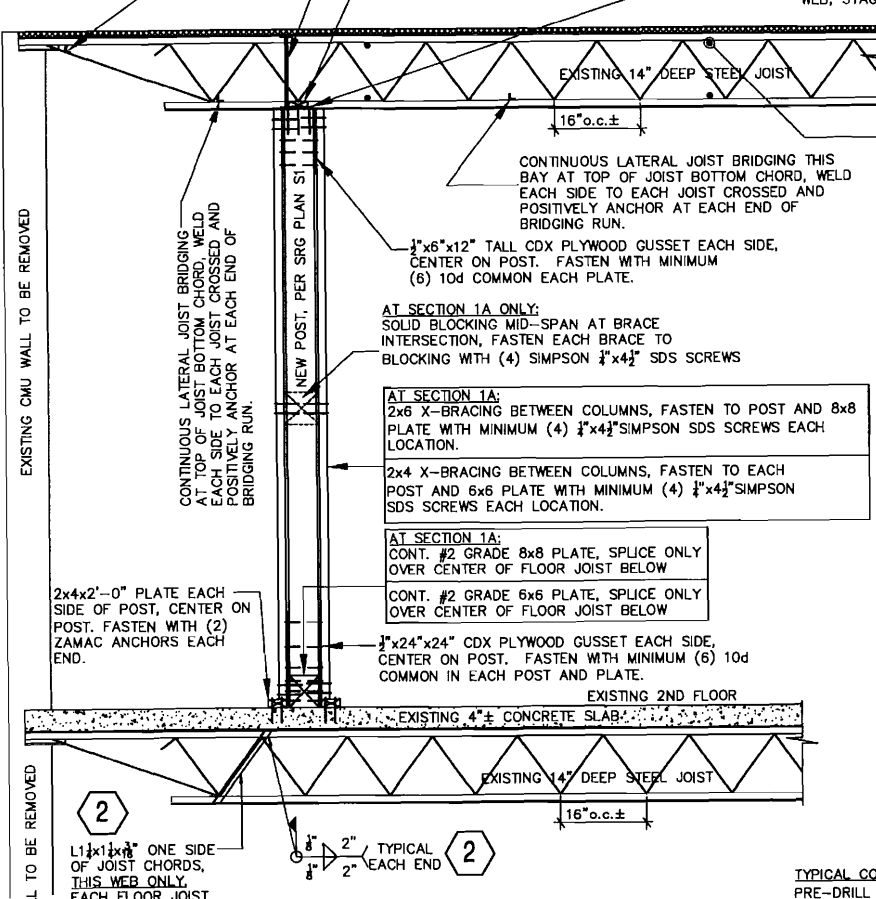
1/2"x24"x24" CDX PLYWOOD GUSSET EACH SIDE, CENTER ON POST. FASTEN WITH MINIMUM (6) 10d COMMON IN EACH POST AND PLATE.

EXISTING 2ND FLOOR

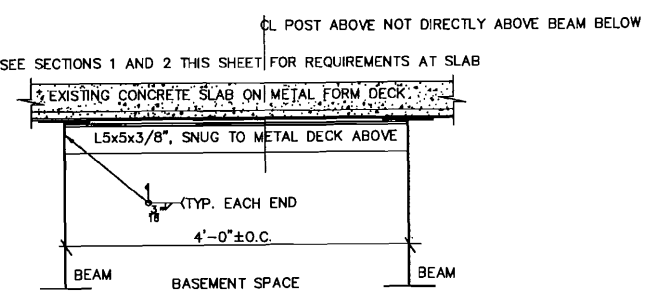
EXISTING 4"± CONCRETE SLAB

EXISTING 14" DEEP STEEL JOIST

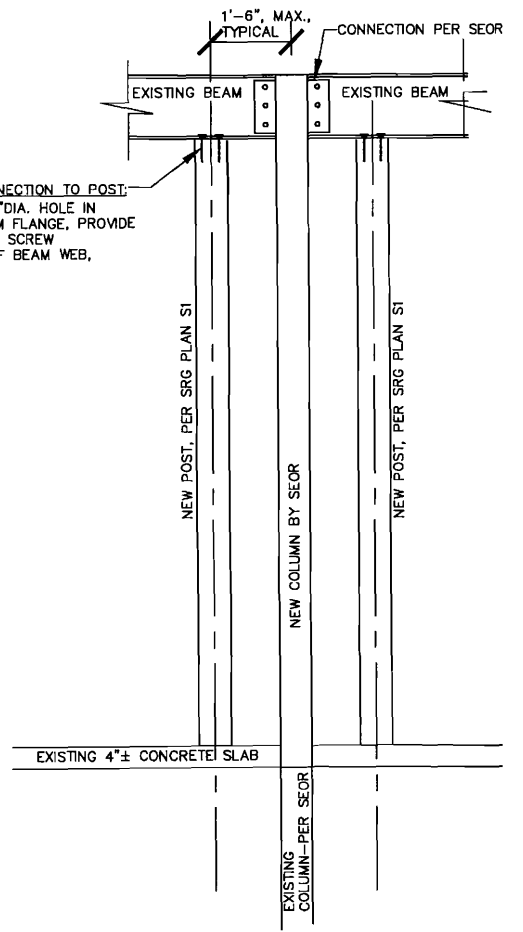
16" o.c.±



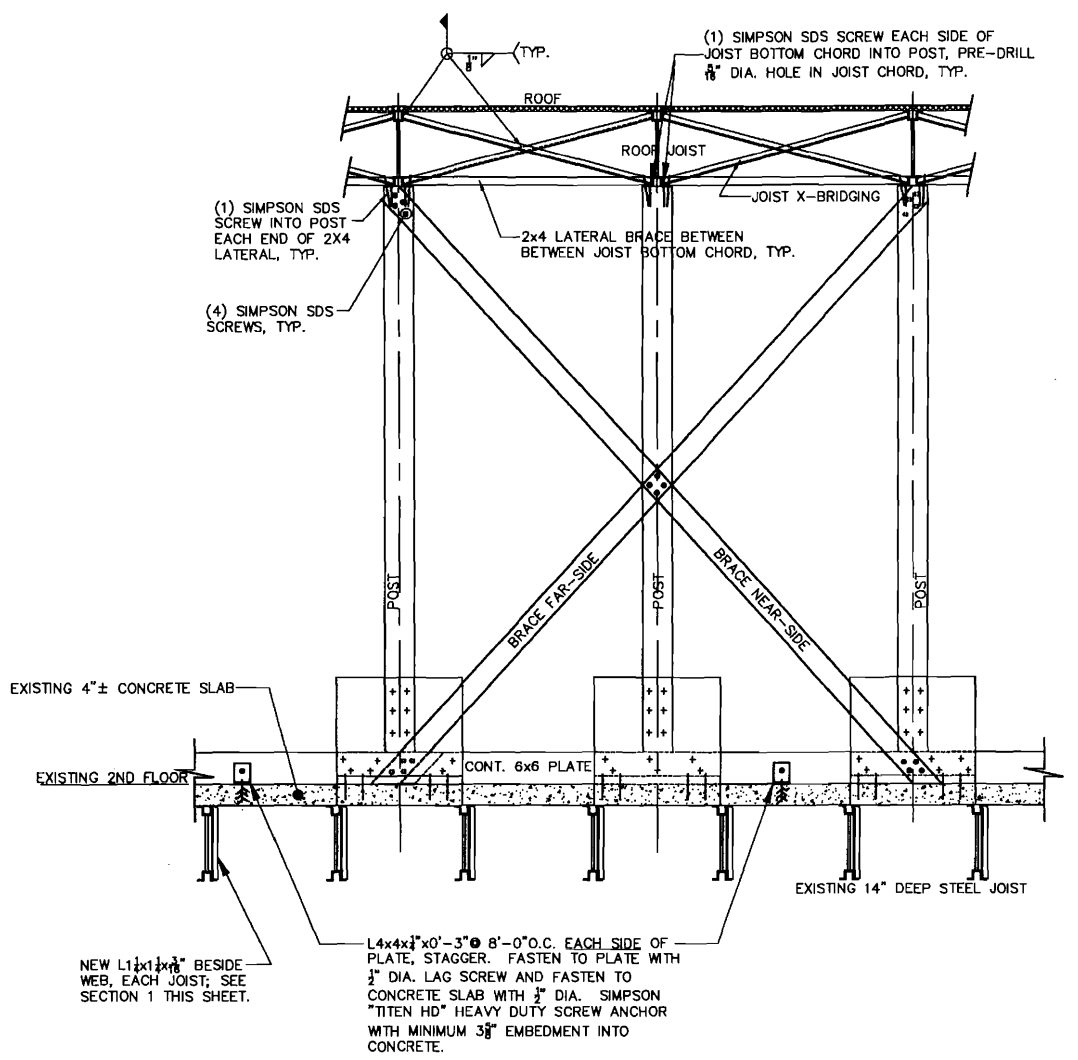
(SECTION 1 SHOWN, SIMILAR AT 1A)
TYPICAL SECTION PARALLEL TO JOIST
 SECTION 1 1A
 3/4" x 1'-0"



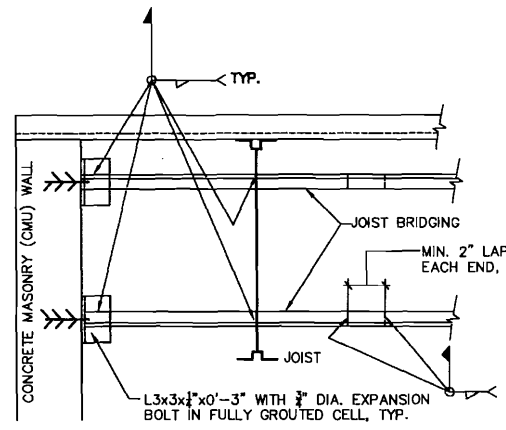
TYPICAL POST SUPPORT AT 1ST FLOOR DECK WHEN POST DOES NOT ALIGN DIRECTLY OVER BEAM



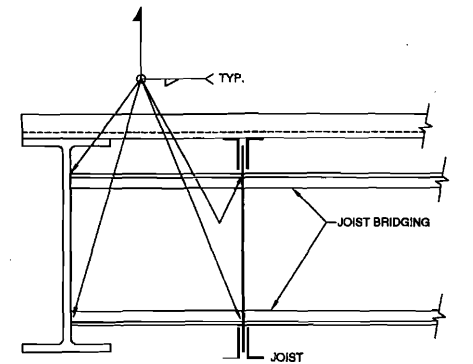
TYPICAL POST AT INTERIOR BEAM LINE DETAIL
 SECTION 3
 N.T.S.



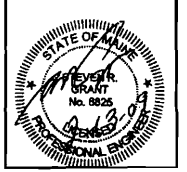
(SECTION 1 SHOWN, SIMILAR AT 1A)
TYPICAL ELEVATION VIEW
 SECTION 2
 3/4" x 1'-0"



TYPICAL JOIST BRIDGING TO CMU WALL
 N.T.S.



TYPICAL JOIST BRIDGING TO STEEL BEAM DETAIL
 N.T.S.



REV:	BY:	DATE:	STATUS:

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SRG ENGINEERING, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SRG ENGINEERING, INC.

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PROJECT NO. 09-008
 EOR SRG
 DESIGN SRG
 CHECK SRG
 DRAWN SRG

TYPICAL SECTIONS AND DETAILS
 OF
WALGREENS - STORE #12325
 PORTLAND, MAINE
 FOR
PM CONSTRUCTION CO.
 SACCO, MAINE

DATE	SCALE
02.13.09	AS NOTED