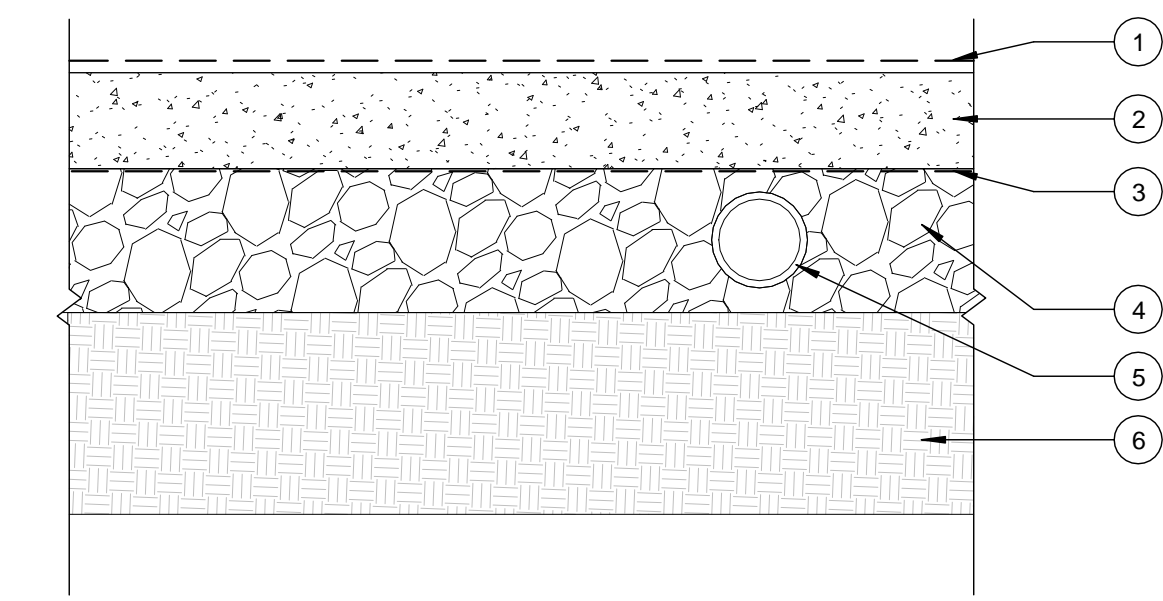
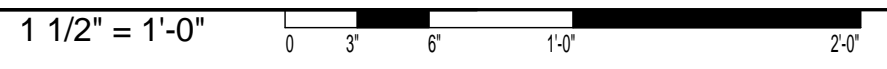


ROOF SYSTEM - 1 HOUR RATED
DESIGN NUMBER: UL L563
STC

- 19/32" APA rated sheathing with exterior glue applied at right angles to trusses with 8d nails.
- Trusses** - Parallel chord trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Min truss depth is 12 in. Truss members secured together with min 0.0356 in. thick galv steel plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split tooth type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approx. 7/8 in. centers with four rows of teeth per inch of plate width.
- Resilient Channels** - Formed from min 0.020 in. thick galv steel, 1/2 in. deep by 2-3/8 in. wide at the base and 1-3/8 in. wide at the face as shown, spaced 12 in. OC perpendicular to trusses. Channels overlapped 4 in. at splices. Two channels, spaced 6 in. OC, oriented opposite each other at gypsum panel end joints as shown in the illustration. Additional channels shall extend min 6 in. beyond each side edge of panel.
- Gypsum Board** - Nom 5/8 in. thick, 48 in. wide gypsum panels. Gypsum panels installed with long dimension perpendicular to resilient channels. Gypsum panels secured with 1 in. long Type S bugle head steel screws spaced 12 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. End joints secured to both resilient channels as shown in end joint detail.
- Continuous poly vapor barrier (10 mil)
- Tapered Rigid Insulation - SEE ROOF PLAN FOR THICKNESSES AND LAYOUT
- 7/16 OSB
- Fully Adhered PVC Roofing - SEE SPECIFICATION

F4 1 HOUR ROOF ASSEMBLY

R1 ROOF ASSEMBLY



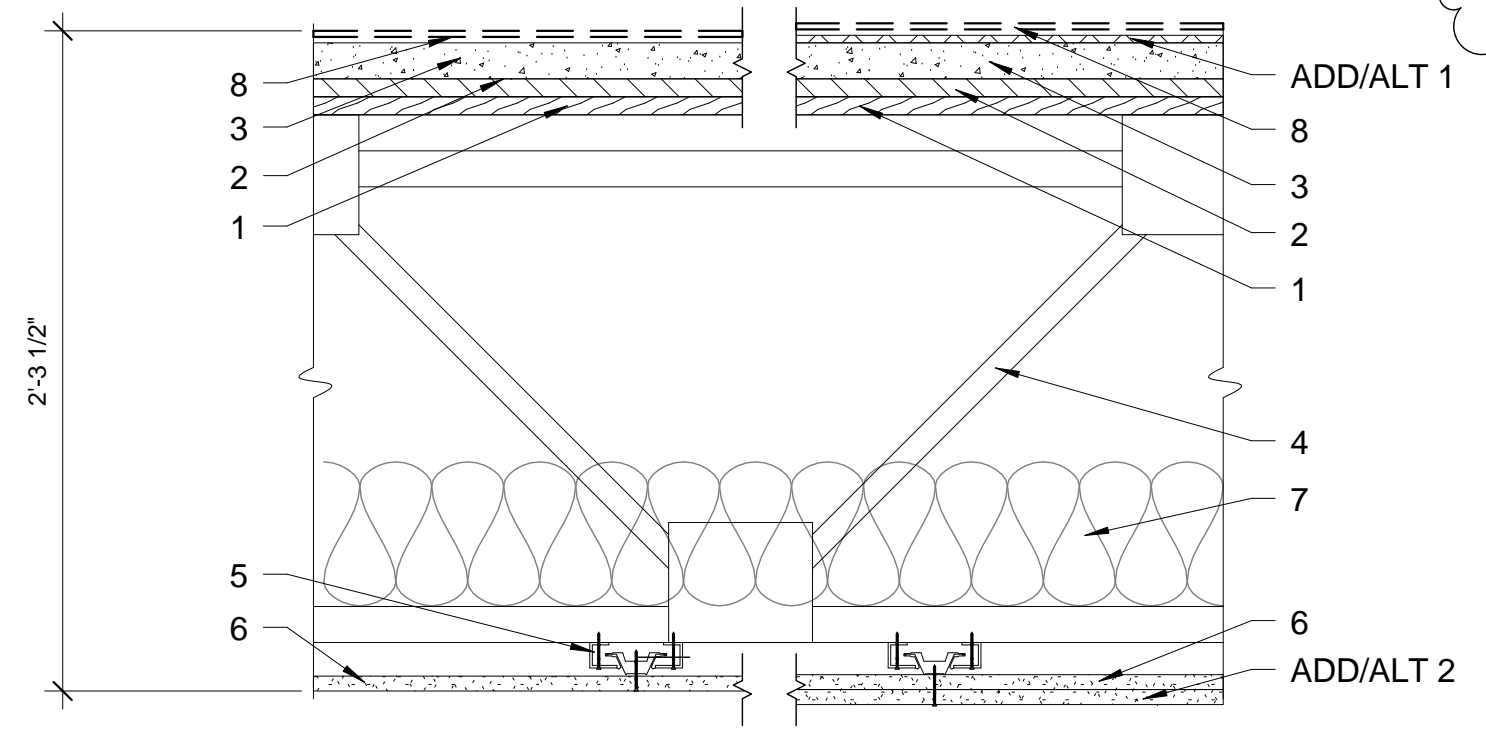
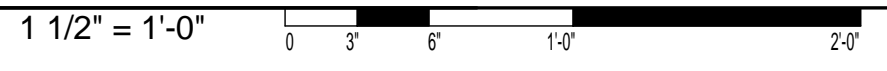
FLOOR SYSTEM - SLAB ON GRADE

- FINISH FLOOR** - NOT SHOWN, SEE FINISH SCHEDULE.
- CONCRETE SLAB** - SEE STRUCTURAL FOR STRENGTH, THICKNESS AND REINFORCEMENT SPECIFICATIONS
- VAPOR BARRIER** - POLYETHYLENE VAPOR BARRIER SHEET WITH SEAMS OVERLAPPED AND TAPED - SEE SPECIFICATIONS
- 6" COARSE AGGREGATE
- ADD ALT# 4* PERFORATED PVC RADON PIPE - SEE PLUMBING PLANS FOR ADDITIONAL INFORMATION
- COMPACTED STRUCTURAL FILL COMPACTED TO 95% OF DRY DENSITY - SEE STRUCTURALS FOR DEPTH AND GRADATION

PROVIDE CONTINUOUS 4'-0" SECTION OF 2 IN RIGID INSULATION ALONG PERIMETER OF HEATED SPACES

FLOOR SYSTEM - SLAB ON GRADE

F4 SLAB ON GRADE



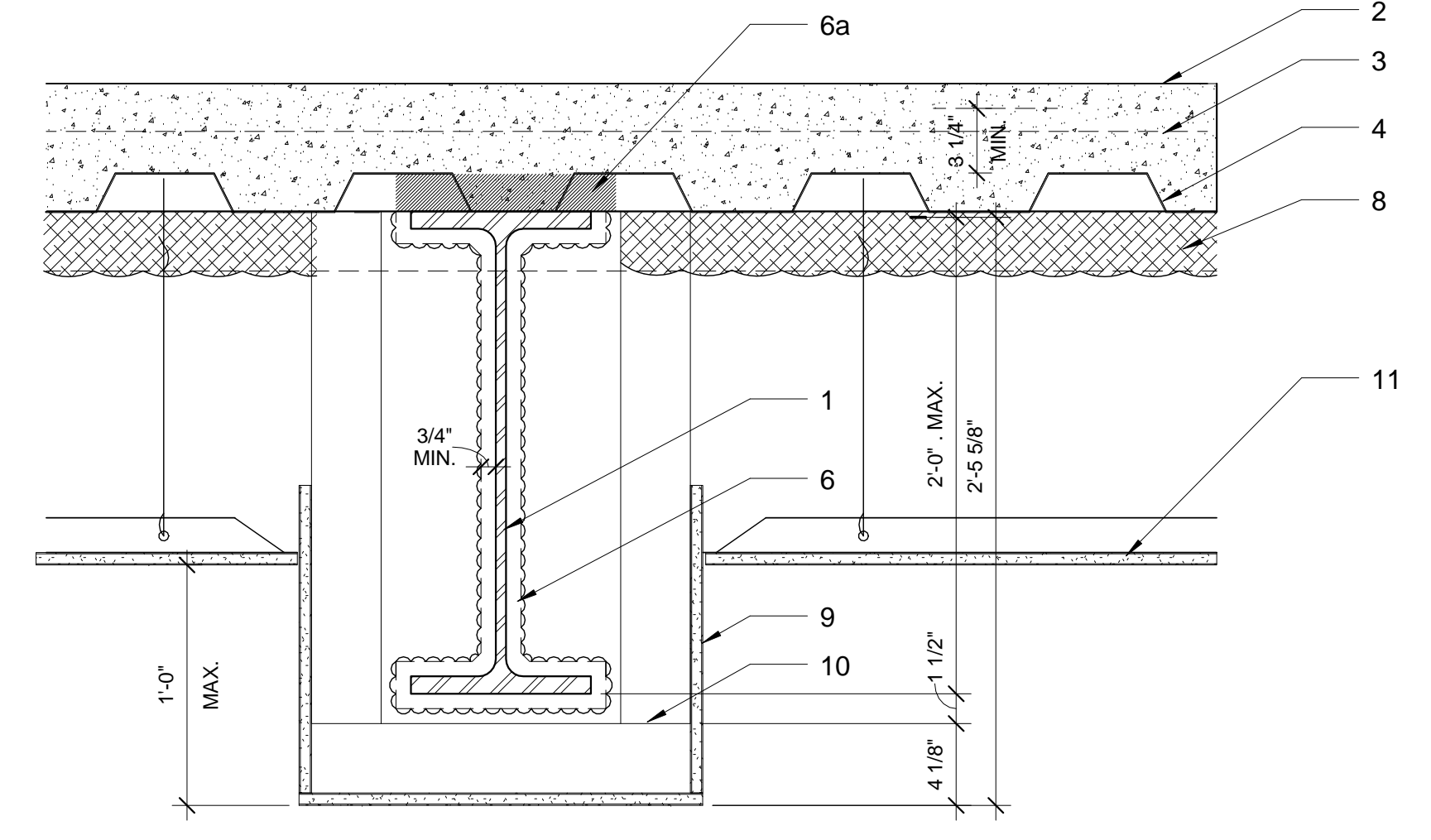
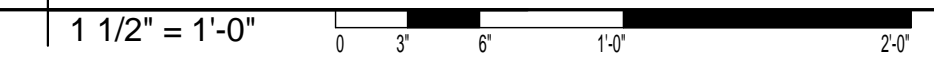
1-HOUR RATED FLOOR / CEILING ASSEMBLY
DESIGN NUMBER: UL DESIGN NO. L563
STC

- Subflooring** - Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
- Reinforced Sound Mat** - 3/4" thick reinforced sound mat (Keene's Quiet Curl 65/075)
- Gypsum Topping** - 1 1/2 in. thick USG Levelock 2500 gypsum underlayment
- Trusses** - Parallel chord trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Min truss depth is 18 in. Truss members secured together with min 0.0356 in. thick galv steel plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split tooth type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approx. 7/8 in. centers with four rows of teeth per inch of plate width.
- Kinetics Iso-Max Hangers or Equal**
- Gypsum Board** - Nom 5/8 in. thick, 48 in. wide gypsum panels. Gypsum panels installed with long dimension perpendicular to resilient channels. Gypsum panels secured with 1 in. long Type S bugle head steel screws spaced 12 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. End joints secured to both resilient channels as shown in end joint detail.
- Sound Attenuating Fiberglass Batt Insulation** - 6" Glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. When the resilient channels are spaced a max of 12 in. OC there is no limit in the overall thickness of insulation, and the insulation can be secured against the subflooring, held suspended in the concealed space or draped over the resilient or furring channels and gypsum panel membrane.
- FINISHED FLOOR & UNDERLAYMENT AS SPECIFIED**

F1 FLOOR/CEILING ASSEMBLY

ADD/ALT #1 - KINETICS SOUNDMATT
ADD/ALT #2 - SECOND LAYER OF 5/8" WITH STAGGERED JOINTS

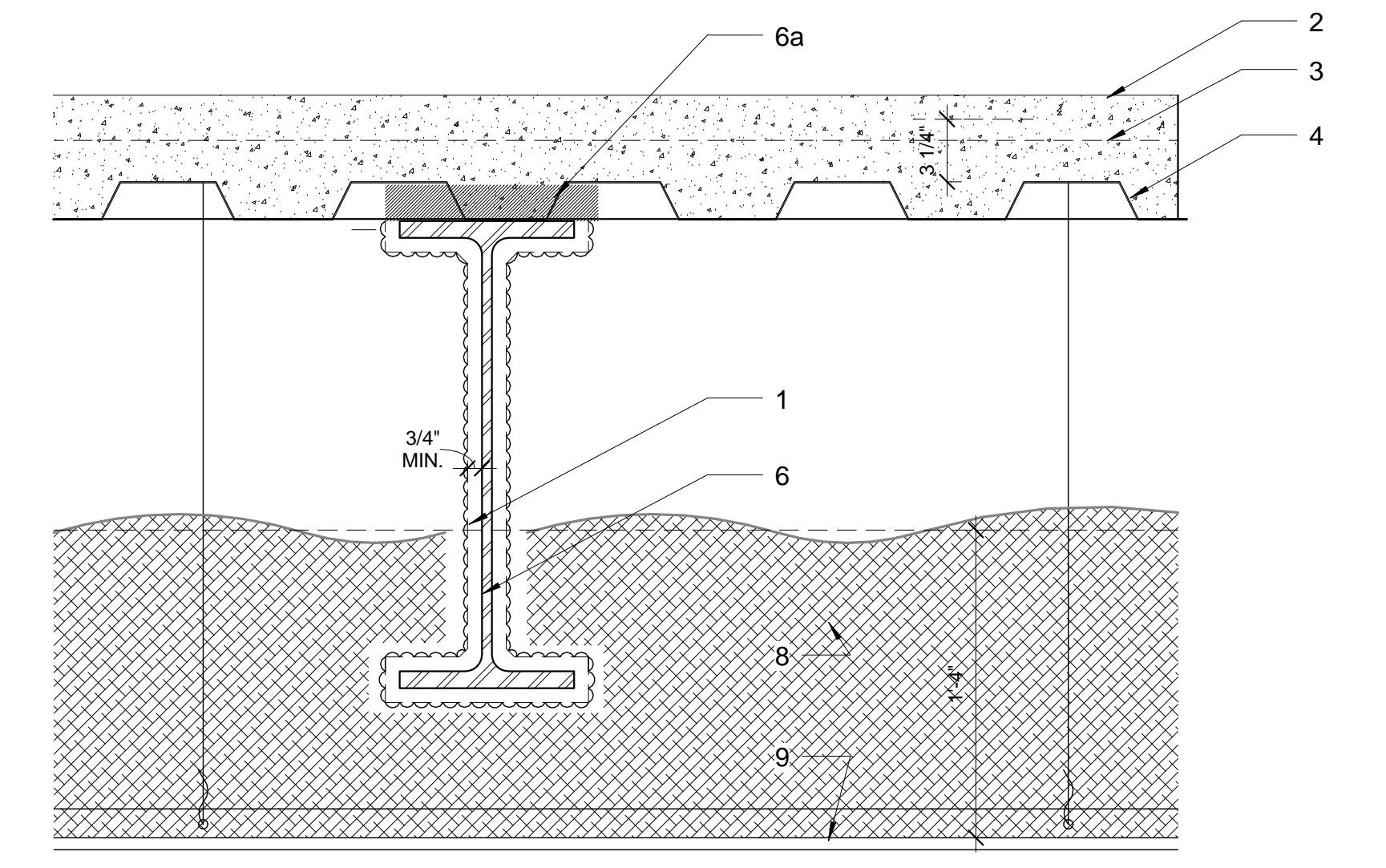
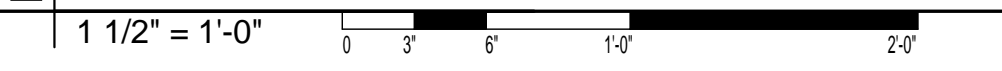
F1 FLOOR / CEILING ASSEMBLY - UNIT TO UNIT - 1-HOUR RATED



1-HOUR RATED FLOOR / CEILING ASSEMBLY - RETAIL TO LIVING UNIT
DESIGN NUMBER: UL D913 (ASSEMBLY PROVIDES 2-HOUR RATING - 1-HR REQ'D)
STC

- BEAM** - W8X17, MIN SIZE - (SEE STRUCTURAL FOR ACTUAL SIZE)
- LIGHTWEIGHT CONCRETE** - EXPANDED SHALE OR SLATE AGGREGATE BY ROTARY-KILN METHOD OR EXPANDED CLAY AGGREGATE BY ROTARY-KILN OR SINTERED-GRATE METHOD, 102 PCF UNIT WEIGHT, 2000 PSI COMPRESSIVE STRENGTH, VIBRATED, 4 TO 7 PERCENT ENTRAINED AIR, MINIMUM THICKNESS OF 3 1/4" - (SEE STRUCTURAL FOR ACTUAL SIZE)
- WELDED WIRE FABRIC** - MINIMUM SIZE AND GAUGE, 6X6 - W1.4XW1.4. (SEE STRUCTURAL FOR ACTUAL SIZE)
- STEEL FLOOR AND FORM UNITS** - COMPOSITE 1-1/2, 2, OR 3 IN. DEEP GALV FLUTED OR CELLULAR UNITS, MIN GAUGES ARE 22 MSG FOR FLUTED AND 20/20 MSG FOR CELLULAR. FLUTED UNITS MAY BE PHOSPHO. THE FOLLOWING COMBINATION OF UNITS MAY BE USED: (1) ALL FLUTED; (2) ALL CELLULAR; (3) ANY BLEND OF FLUTED AND CELLULAR, WELDED TO SUPPORTS 12 IN. OC MAX. ADJACENT UNITS BUTT-PUNCHED OR WELDED TOGETHER 36 IN. OC ALONG SIDE JOINTS.
- JOINT-COVER** - (NOT SHOWN) - 2 IN. WIDE PRESSURE-SENSITIVE ADHESIVE CLOTH TAPE.
- SPRAY-APPLIED FIRE RESISTIVE MATERIALS** - APPLIED BY SPRAYING WITH WATER, IN ONE OR MORE COATS, TO A FINAL TAMPED OR UNTAMPED THICKNESS SHOWN ON SKETCH. STEEL SURFACES MUST BE FREE OF DIRT, OIL, OR SCALE. TAMPING IS OPTIONAL. USE OF ADHESIVE OR SURFACE SEALER IS OPTIONAL. MINIMUM AVERAGE TAMPED OR UNTAMPED DENSITY IS 12 PCF, MINIMUM INDIVIDUAL TAMPED OR UNTAMPED DENSITY IS 11 PCF FOR TYPES II OR DC/F, MIN AVG AND MIN IND DENSITIES OF 22 AND 19 PCF, RESPECTIVELY, FOR TYPE HP. FOR METHOD OF DENSITY DETERMINATION REFER TO DESIGN INFORMATION SECTION.
- 6a. ENSURE FLUTES WITHIN 3" OF SUPPORTING BEAM ARE COMPLETELY FILLED WITH SPRAY APPLIED FIRE RESISTIVE MATERIALS.**
- SHEAR CONNECTOR STUDS** - OPTIONAL - (NOT SHOWN) - STUDS, 3/4 IN. DIAM, BY 3 TO 3 IN. LONG FOR 1-1/2 IN. DEEP FORM UNITS TO 5-1/4 IN. LONG FOR 3 IN. UNITS, HEADED TYPE OR EQUIVALENT PER AISC SPECIFICATIONS, WELDED TO TOP FLANGE OF BEAM THROUGH FORM UNITS. (SEE STRUCTURAL)
- INSULATION** - (ADDED) - 3" CLOSED CELL SPRAY APPLIED INSULATION
- Gypsum Board** - (ADDED) - 1 Layer - Nom 5/8 in. thick
- METAL FRAMING** - (ADDED) - 2 1/2" SOFFIT FRAMING
- CEILING** - (ADDED) - 5/8" gypsum wallboard on suspended "Chicago Metallic" framing system

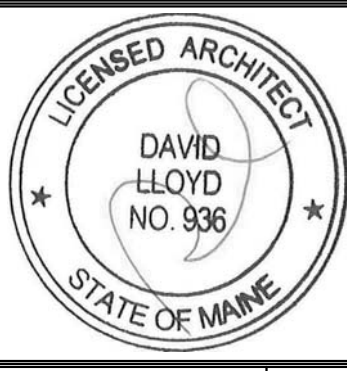
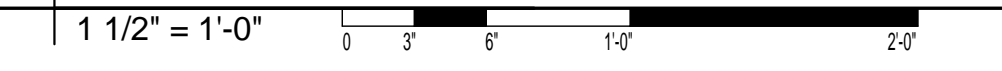
F2 FLOOR / CEILING ASSEMBLY - RETAIL TO DWELLING UNIT



1-HOUR RATED FLOOR / CEILING ASSEMBLY - GARAGE TO LIVING UNIT
DESIGN NUMBER: UL D913 (ASSEMBLY PROVIDES 2-HOUR RATING - 1-HR REQ'D)
STC

- BEAM** - W8X17, MIN SIZE - (SEE STRUCTURAL FOR ACTUAL SIZE)
- LIGHTWEIGHT CONCRETE** - EXPANDED SHALE OR SLATE AGGREGATE BY ROTARY-KILN METHOD OR EXPANDED CLAY AGGREGATE BY ROTARY-KILN OR SINTERED-GRATE METHOD, 102 PCF UNIT WEIGHT, 2000 PSI COMPRESSIVE STRENGTH, VIBRATED, 4 TO 7 PERCENT ENTRAINED AIR, MINIMUM THICKNESS OF 3 1/4" - (SEE STRUCTURAL FOR ACTUAL SIZE)
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- JOINT-COVER** - (NOT SHOWN) - 2 IN. WIDE PRESSURE-SENSITIVE ADHESIVE CLOTH TAPE.
- SPRAY-APPLIED FIRE RESISTIVE MATERIALS** - APPLIED BY SPRAYING WITH WATER, IN ONE OR MORE COATS, TO A FINAL TAMPED OR UNTAMPED THICKNESS SHOWN ON SKETCH. STEEL SURFACES MUST BE FREE OF DIRT, OIL, OR SCALE. TAMPING IS OPTIONAL. USE OF ADHESIVE OR SURFACE SEALER IS OPTIONAL. MINIMUM AVERAGE TAMPED OR UNTAMPED DENSITY IS 12 PCF, MINIMUM INDIVIDUAL TAMPED OR UNTAMPED DENSITY IS 11 PCF FOR TYPES II OR DC/F, MIN AVG AND MIN IND DENSITIES OF 22 AND 19 PCF, RESPECTIVELY, FOR TYPE HP. FOR METHOD OF DENSITY DETERMINATION REFER TO DESIGN INFORMATION SECTION.
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- INSULATION** - (ADDED) - 16" cellulose blow in insulation
- CEILING** - (ADDED) - 5/8" gypsum wallboard on suspended "Chicago Metallic" framing system

F3 FLOOR / CEILING ASSEMBLY - GARAGE TO DWELLING UNIT



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Project:
118 ON MUNJOY HILL

Revisions:
3 | 05-13 | POST-BID ADDENDUM

Date:
12 MAY 2014

Scale:
1 1/2" = 1'-0"

FLOOR TYPES

A4.05