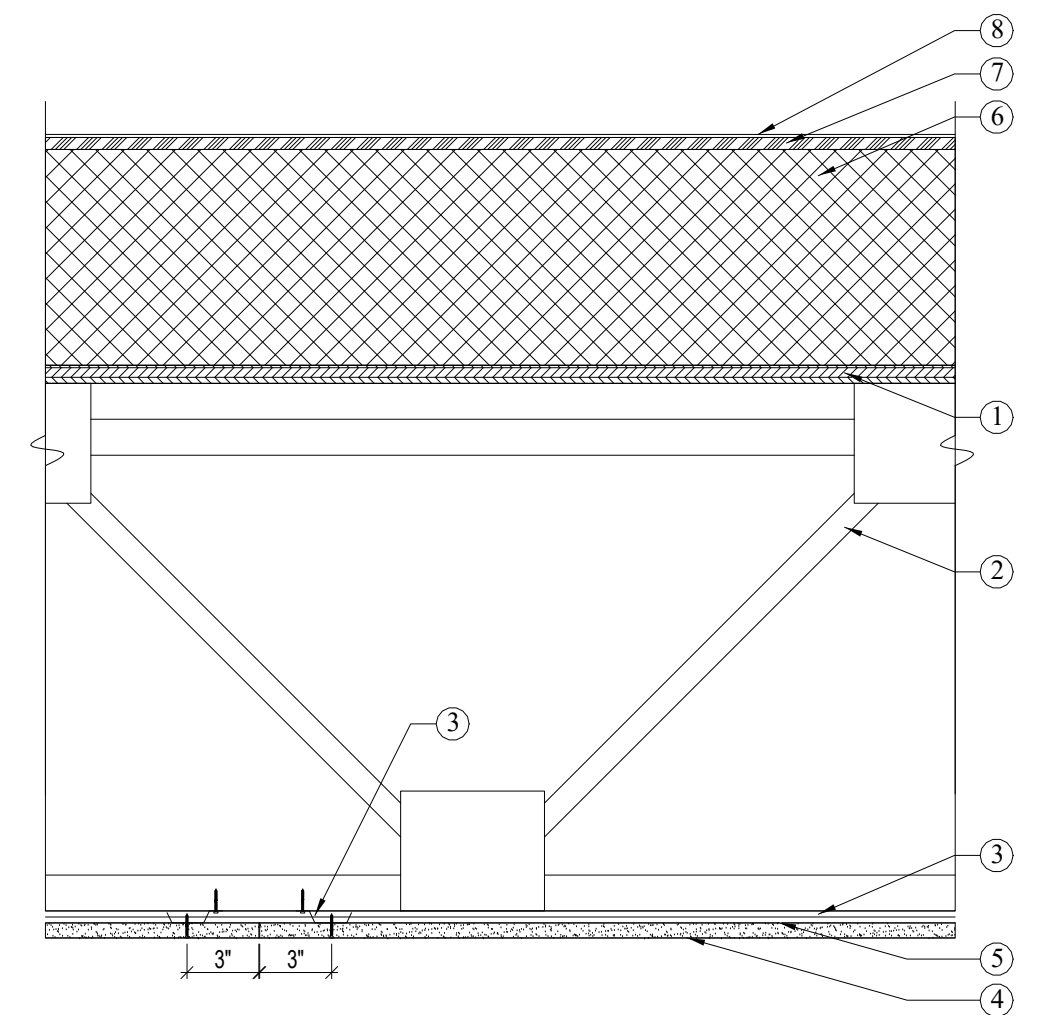


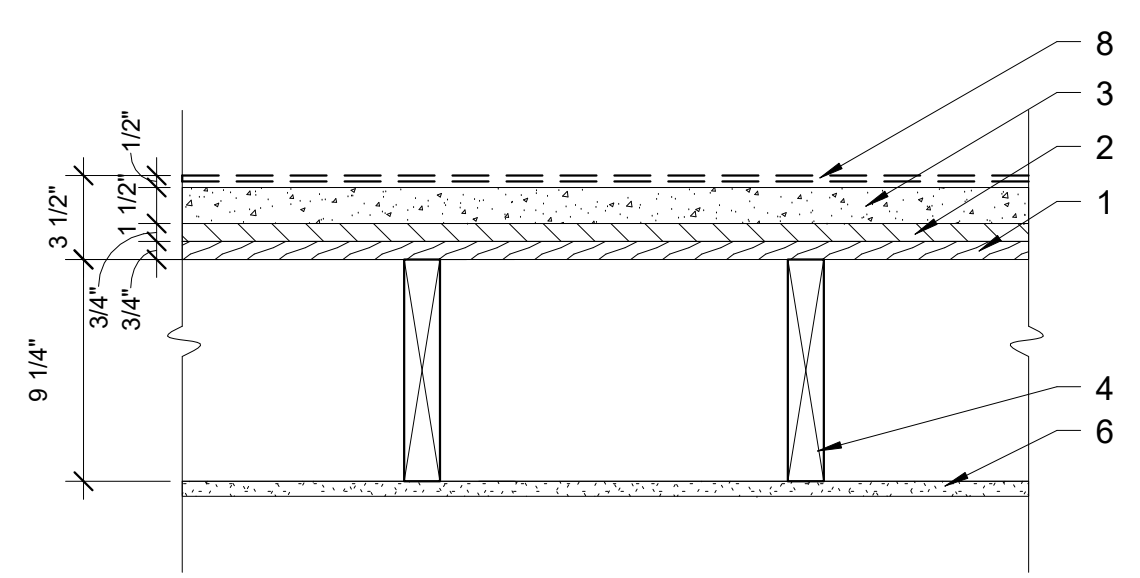
G1 GREEN ROOF ASSEMBLY
1 1/2" = 1'-0"



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

- 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 secured to each truss with 1-1/4 in. long Type S bugle head steel screws. 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 60-mil thick Sure-Seal EPDM Roofing - SEE SPECIFICATION

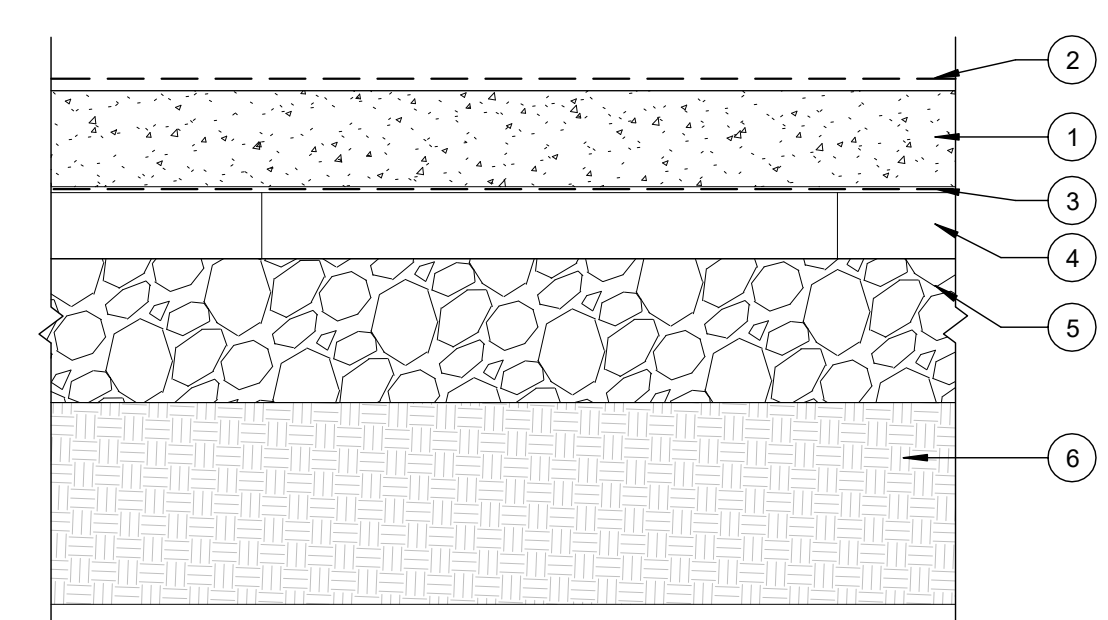
R1 ROOF ASSEMBLY
1 1/2" = 1'-0"



1-HOUR RATED FLOOR / CEILING ASSEMBLY - CORRIDORS
DESIGN NUMBER: UL DESIGN NO. L523
SIC

- 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 Qui 65/075)
- Gypcrete Topping** - 1 1/2 in. thick USG Levelrock 2500 gypsum underlayment
- Framing** - 2x10 framing spaced 16 in. o.c. (SEE STRUCTURAL DWGS)
-
- Gypsum Board** - Nom 5/8 in. thick, 48 in. wide gypsum panels, installed with long dimension perpendicular to joists. Resilient channels are to be used in locations without a dropped ceiling.
-
- FINISHED FLOOR & UNDERLAYMENT AS SPECIFIED**

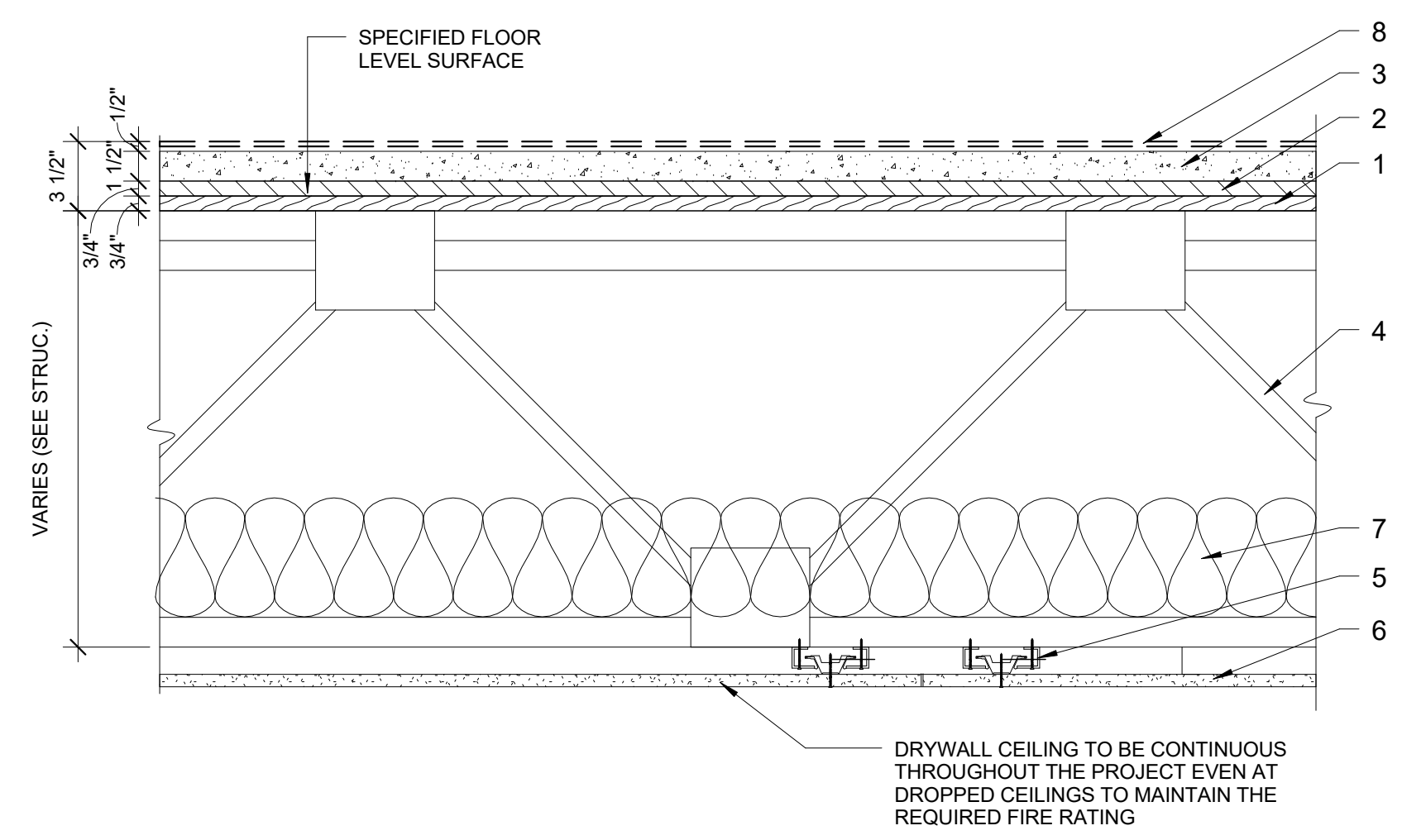
F5 FLOOR TYPE F5 - 1-HR FLOOR / CEILING ASSEMBLY @ CORRIDOR
1 1/2" = 1'-0"



FLOOR SYSTEM - SLAB ON GRADE

- FINISH FLOOR** - ONLY AT LOBBY AREAS, SEE FINISH SCHEDULE.
- CONCRETE SLAB** - SEE STRUCTURAL FOR STRENGTH, THICKNESS AND REINFORCEMENT SPECIFICATIONS
- VAPOR BARRIER ONLY BELOW LOBBY, STAIRS, MAIL AND SPRINKLER RM** - POLYETHYLENE VAPOR BARRIER SHEET WITH SEAMS OVERLAPPED AND TAPED - SEE SPECIFICATIONS
- RIGID INSULATION ONLY BELOW LOBBY, STAIRS, MAIL AND SPRINKLER RM** - 3" 30 PSI EXTRUDED POLYSTYRENE - R-15 - CONTINUOUS UNDER LOBBY, STAIRS MAIL AND SPRINKLER RM SLAB
- 6" COARSE AGGREGATE**
- COMPACTED STRUCTURAL-FILL COMPACTED TO 95% OF DRY DENSITY** - SEE STRUCTURALS FOR DEPTH AND GRADATION

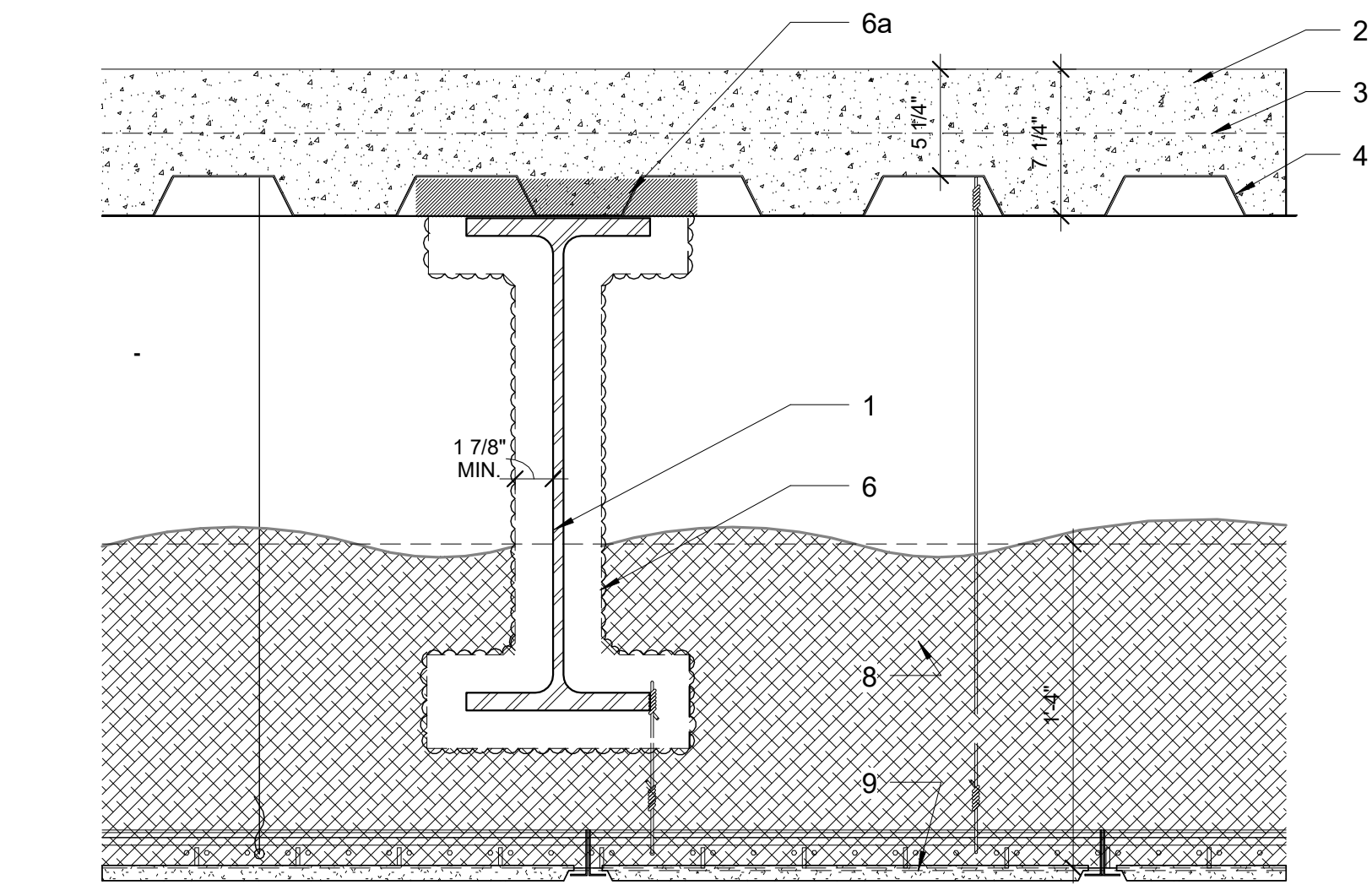
F4 FLOOR TYPE F4 - SLAB ON GRADE
1 1/2" = 1'-0"



F3 FLOOR TYPE F3 - 1-HR FLOOR / CEILING ASSEMBLY
1 1/2" = 1'-0"

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

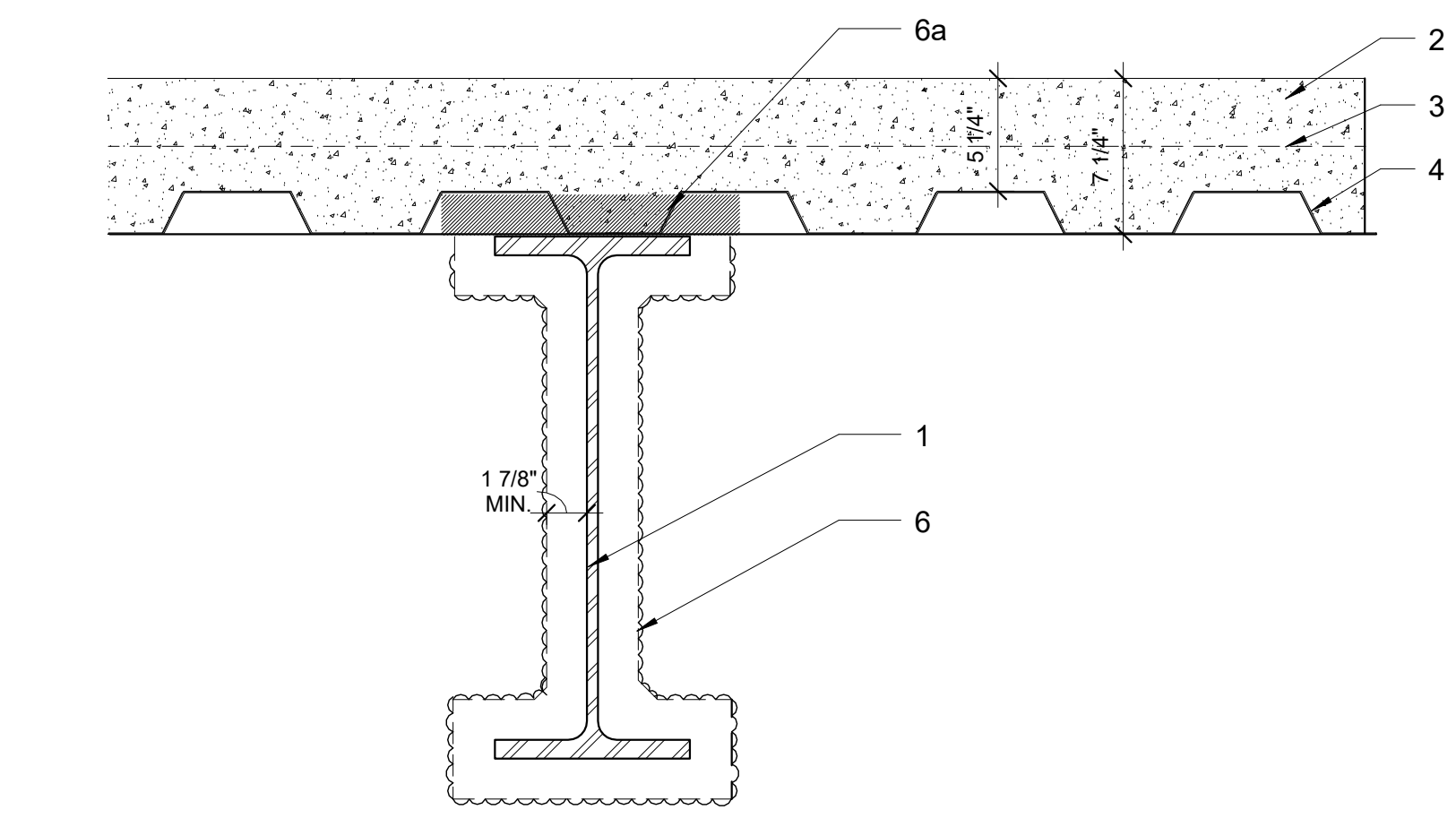
- Subflooring** - Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
- Reinforced Sound Mat** - 3/4" thick reinforced sound mat (Keene's Quiet Qui 65/075)
- Gypcrete Topping** - 1 1/2 in. thick USG Levelrock 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. 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**



F2 FLOOR TYPE F2 - 3-HR FLOOR - GARAGE TO LIVING UNIT
1 1/2" = 1'-0"

3-HOUR RATED FLOOR / CEILING ASSEMBLY - GARAGE TO LIVING UNIT
DESIGN NUMBER: UL D902 (ASSEMBLY PROVIDES 3-HOUR RATING)
SIC

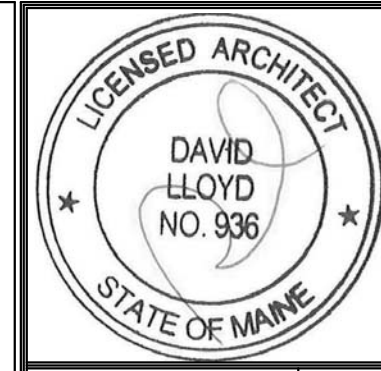
- STEEL BEAM** - (SEE STRUCTURAL FOR ACTUAL SIZE)
- NORMAL-WEIGHT CONCRETE** - SILICEOUS OR CARBONATE AGGREGATE, 150 (+OR-) 3 PCF UNIT WEIGHT, 3000 PSI COMPRESSIVE STRENGTH, VIBRATED. - (SEE STRUCTURAL FOR ACTUAL SIZE)
- WELDED WIRE FABRIC** - MINIMUM SIZE AND GAUGE, 6X6 - W1.4XW1.4. (SEE STRUCTURAL FOR ACTUAL SIZE)
- STEEL FLOOR AND FORM UNITS** - NONCOMPOSITE 1-1/2, 2, OR 3 IN. DEEP GALV UNITS, MIN GAUGES ARE 18 MSG FOR FLUTED AND 20/18 MSG FOR CELLULAR. FLUTED UNITS MAY BE PHOS/PTD. THE FOLLOWING COMBINATION OF UNITS MAY BE USED: (1) ALL FLUTED; (2) ALL 3IN. DEEP CELLULAR; (3) BLEND OF TWO OR MORE FLUTED TO ONE CELLULAR.
- COVER PLATE** - (NOT SHOWN) - PRESSURE-SENSITIVE FABRIC TAPE 4 IN. WIDE.
- SPRAY-APPLIED FIRE RESISTIVE MATERIALS** - APPLIED BY MIXING WITH WATER, IN MORE THAN ONE COAT TO A FINAL THICKNESS OF 1-7/8", TO STEEL SURFACES WHICH MUST BE CLEAN AND FREE OF DIRT, OIL, OR LOOSE SCALE. MIN. AVG AND MIN. IND DENSITY OF 15 / 14 PCF RESPECTIVELY. MIN AVG AND MIN IND DENSITY OF 19 / 18 PCF RESPECTIVELY FOR TYPES 7GP AND 7HD. FOR METHOD OF DENSITY DETERMINATION, REFER TO DESIGN INFORMATION SECTION.
- ENSURE FLUTES WITHIN 3" OF SUPPORTING BEAM ARE COMPLETELY FILLED WITH SPRAY APPLIED FIRE RESISTIVE MATERIALS.**
- INSULATION** - (ADDED) - 16" cellulose blow in insulation
- CEILING** - (ADDED) - acoustic ceiling system



F1 FLOOR TYPE F1 - 3-HR FLOOR - GARAGE TO GARAGE
1 1/2" = 1'-0"

3-HOUR RATED FLOOR / CEILING ASSEMBLY - GARAGE TO GARAGE
DESIGN NUMBER: UL D701 (ASSEMBLY PROVIDES 3-HOUR RATING)
SIC

- STEEL BEAM** - (SEE STRUCTURAL FOR ACTUAL SIZE)
- NORMAL-WEIGHT CONCRETE** - SILICEOUS OR CARBONATE AGGREGATE, 150 (+OR-) 3 PCF UNIT WEIGHT, 3000 PSI COMPRESSIVE STRENGTH, VIBRATED. - (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** - NONCOMPOSITE 1-1/2, 2, OR 3 IN. DEEP GALV UNITS, MIN GAUGES ARE 18 MSG FOR FLUTED AND 20/18 MSG FOR CELLULAR. FLUTED UNITS MAY BE PHOS/PTD. THE FOLLOWING COMBINATION OF UNITS MAY BE USED: (1) ALL FLUTED; (2) ALL 3IN. DEEP CELLULAR; (3) BLEND OF TWO OR MORE FLUTED TO ONE CELLULAR.
- COVER PLATE** - (NOT SHOWN) - PRESSURE-SENSITIVE FABRIC TAPE 4 IN. WIDE.
- SPRAY-APPLIED FIRE RESISTIVE MATERIALS** - APPLIED BY MIXING WITH WATER, IN MORE THAN ONE COAT TO A FINAL THICKNESS OF 1-7/8", TO STEEL SURFACES WHICH MUST BE CLEAN AND FREE OF DIRT, OIL, OR LOOSE SCALE. MIN. AVG AND MIN. IND DENSITY OF 15 / 14 PCF RESPECTIVELY. MIN AVG AND MIN IND DENSITY OF 19 / 18 PCF RESPECTIVELY FOR TYPES 7GP AND 7HD. FOR METHOD OF DENSITY DETERMINATION, REFER TO DESIGN INFORMATION SECTION.
- ENSURE FLUTES WITHIN 3" OF SUPPORTING BEAM ARE COMPLETELY FILLED WITH SPRAY APPLIED FIRE RESISTIVE MATERIALS.**



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Revisions:

Date:
JULY 21, 2016
Scale:
1 1/2" = 1'-0"

FLOOR, CEILING, ROOF TYPES

A4.10