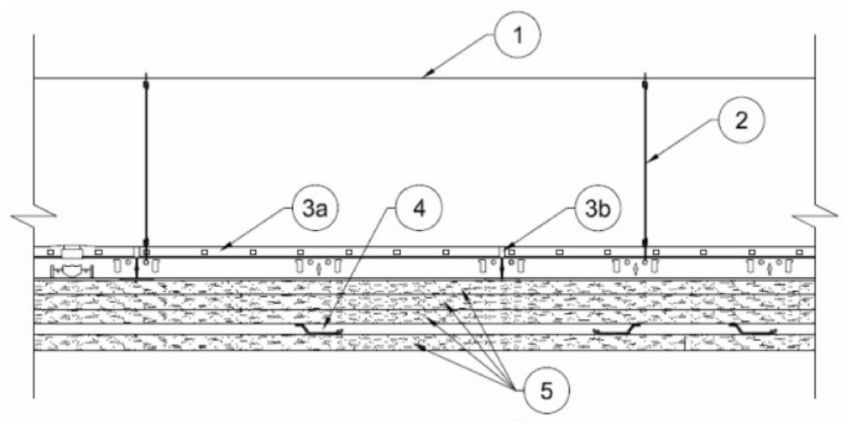
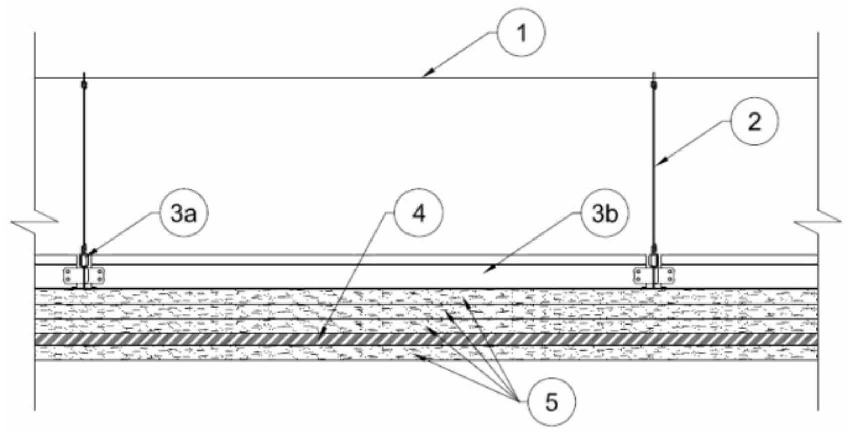
PLOTTED: Tuesday, March 06, 2018 @ 09:29PM

Nonbearing Horizontal Fire Separation — 2 Hr.

Load Restriction - Limited to the Dead Weight of the Assembly.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**





1. **Supporting Structure —** Suitable point of attachment for hanger wire (Item 2).

2. **Hanger Wire —** No. 12 SWG galv steel wire, twist-tied or fastened to supporting structure. Located 24 in. O.C. along main runners.

3. **Steel Framing Members* —** Main runners, cross tees, cross channels and wall angle as listed below:

a. **Main Runners —** Nom 10 or 12 ft long , 15/16 in. or 1-1/2 in. wide face, spaced 4 ft OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 24 in. OC, twist tied to supporting structure.

b. **Cross Tees —** Nom 4 ft long, 1-1/2 in. wide face, installed perpendicular to the main runners, spaced 16 in. OC. The cross tees or cross channels may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.

c. **Cross Channels —** Nom 4 ft long, installed perpendicular to main runners, spaced 16 in. OC.

d. **Wall Angle or Channel —** Painted or galv steel angle with 1 in. legs or channel with 1 in. legs, 1-9/16 in. deep attached to walls at perimeter of ceiling with fasteners 16 in. OC. To support steel framing member ends and for screw-attachment of the gypsum panel.
USG INTERIORS LLC — Type DGL or RX.

3B. **Alternate Steel Framing Members*— (Not Shown) —** As an alternate to Item 3. Main runners nom 12 ft long, spaced 4 ft. OC. Ends of main runners at walls to rest on wall angle with 1/2 in to 3/4 in. end clearance. Primary cross tees (1-1/2 in. wide across flange), nom 4 ft long, installed perpendicular to main runners and spaced 16 in. OC. The main runners, cross tees or cross channels may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation.
ARMSTRONG WORLD INDUSTRIES INC — Type DFR-8000.

4. **Resilient Channels —** Formed from min 25 MSG galv steel installed perpendicular to structural members spaced 16 in. OC. Channels overlapped 4 in. at splices and secured to steel framing members with 2-1/4 in. long Type S steel screws after first, second and third layers of gypsum board are secured to steel framing members. Two channels, spaced 6 in. OC, oriented opposite each gypsum board end joint as shown on the illustration above.

4A. **Furring Channels —** (Alternate to Item 4) Hat shaped channels, 7/8 in. deep, formed from min 25 MSG galv steel installed perpendicular to steel framing members spaced 16 in. OC. Furring channels overlapped 2-1/2 in. at splices and secured to steel framing members with two 2-1/4 in. long Type S steel screws after first, second and third layers of gypsum board are secured to steel framing members. Two channels, spaced 6 in. OC, oriented opposite each gypsum board end joint.

5. **Gypsum Board*** — Four layers of nom 5/8 in. thick, 4 ft wide gypsum board. First three layers installed with long dimension perpendicular to cross-tees. Adjacent butt joints staggered approximately 16 in. OC with butt joints centered over cross tees. Overlapping layers installed so that tapered edges offset min 10 in. from previous layer. Base layer fastened to suspension system with 1-1/4 in. long Type S or S-12 steel screws spaced 12 in. OC. Second layer secured to suspension system with 2 in. long Type S or S-12 steel screws spaced 12 in. OC. Third layer secured to suspension system with 2-1/2 in Type S or S-12 steel screws spaced 12 in. OC. Fourth layer secured to resilient channels or furring channels with 1 in. long Type S steel screws spaced 12 in. OC. Screws to be spaced 1/2 in. from butted end joints and 1 in. from side joints.
AMERICAN GYPSUM CO — Types AGX-1, AG-C, LightRoc

UNITED STATES GYPSUM CO — Types C, IP-X1, IP-X2, SCX, ULIX

USG BORAL DRYWALL SFZ LLC — Types C, SCX

6. **Finishing System —** (Not Shown) - Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads. Nom 2 in. wide paper tape embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum board if specified by the manufacturer.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2017-12-08

Design No. U905

March 11, 2016

Bearing Wall Rating — 2 HR.

Nonbearing Wall Rating — 2 HR

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

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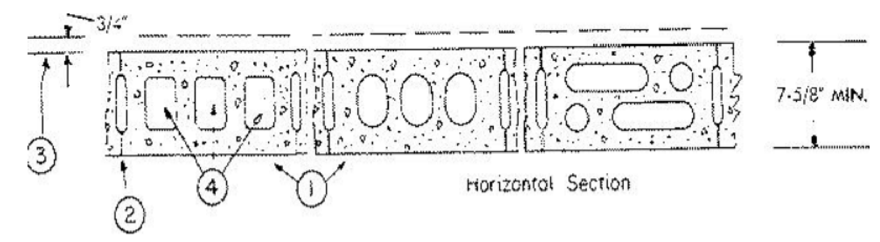

1. **Concrete Blocks* —** Various designs. Classification D-2 (2 hr). See **Concrete Blocks** category for list of eligible manufacturers.

2. **Mortar —** Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. **Portland Cement Stucco or Gypsum Plaster —** Add 1/2 hr to classification if used. Where combustible members are framed in wall, plaster or stucco must be applied on the face opposite framing to achieve a max. Classification of 1-1/2 hr. Attached to concrete blocks (Item 1).

4. **Loose Masonry Fill —** If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellant vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 2 hr to classification.

5. **Foamed Plastic* —** (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).
ATLAS ROOFING CORP — "EnergyShield Pro Wall Insulation" and "EnergyShield Pro 2 Wall Insulation"

CARLISLE COATINGS & WATERPROOFING INC — Type R2+ Sheath

FIRESTONE BUILDING PRODUCTS CO L L C — "Enverge™ CI Foil Exterior Wall Insulation" and "Enverge™ CI Glass Exterior Wall Insulation"

HUNTER PANELS — Types Xci-Class A, Xci 286

RMAX OPERATING L L C — "TSX-8500", "TSX-8510", "Thermasheath-XP", "ECOMAXci", "Thermasheath-3", "Durasheath-3"

THE DOW CHEMICAL CO — Types Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax IH Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (HDP) and TUFF-R™ ci Insulation

5A. **Building Units —** As an alternate to Items 5, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in.
RMAX OPERATING L L C — "Thermasheath-SI", "ECOBASEci", "ThermaBase-CI"

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2016-03-11

CITY OF WICHITA — Sedgwick County... working for you

Wichita-Sedgwick County
Metropolitan Area Building and Construction Department

December 12, 2017

Matt Cortez, Architect
MCortez@GLMV.COM

Re: Stryker Sports Complex
10911 E 29th N

You've requested that the variance committee consider allowing a reduction in the overall plumbing fixture count (based on a capacity of 2,500; Women's: 32 required—reduce to 20 & Men's: 17 required—reduce to 12) for the sports complex, based on usage which is a mix of practice and tournament activities. The practice activities generate a much lower crowd, whereas the tournament would include spectator seating and a number of teams. During tournament activities, it is an anticipated that operator of the facility will supplement the fixture count with portable restroom units. In addition, you would like to split the fixture count between the existing Championship Field structure and the new indoor facility.

The variance committee, which includes a representative of the Wichita Fire Department, is in agreement with the following:

- Allow a reduction of 1/3 of the total required fixtures (Women's: 21 & Men's 12).
- Allow the fixture placement to be split between the existing Championship Field structure and the new indoor facility (3/4 of the fixtures in the Championship structure and the balance in the new indoor facility). This is with the understanding that the operator of the facility will ensure that both buildings are open and accessible to patrons during tournament activities. Lavatory numbers and placement is approved as proposed.
- During tournament activities the operator of the facility will supplement the fixture count with portable restroom units.

RE Stryker Sports Complex.msg   Stryker Sports Complex.pdf

If you have any questions, let me know.

Sincerely,

Kortney Capello
MABCD Assistant Director

MKEC
Wichita, KS • 316.684.9600

INDOOR FACILITY & STADIUM IMPROVEMENTS
STRYKER SPORTS
WICHITA, KANSAS

STACY L. CHRISTIE — LICENSED — 5839 — 3-7-18 — KANSAS — ARCHITECT

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UL NUMBERS

PROJECT NO.	1701010567
DATE	03/07/18
SCALE	1/8"=1'-0"

DESIGNED	DRAWN	CHECKED
	SLC	MFC

NO.	REVISION	DATE
0	ISSUED FOR CONSTRUCTION	03-07-18

SHEET NO.
SA0.2

GLMV Architecture
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