



PARIC CORPORATION
77 Westport Plaza Suite 250
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TEL: 636-561-9500
FAX: 636-561-9501

REQUEST FOR INFORMATION DATE: May 27, 2016 NO.: RFI-121

To: Cannon Design

Attn: Kelvin Patel

From: Paric Corporation

Requested By: Joe Voypick

Project Name: 15051-Webster University Interdisciplinary Science Building Project No.: 15051

Subject: Elevator Sump Pit Cover

Response Required By: June 03, 2016

Drawing / Spec Reference:

Information Requested:

Detail 11/S0201 does not show a cover for the elevator sump pit. Please confirm this is not needed or provide details if needed.

Response:

COORDINATE WITH ELEVATOR SUPPLIER

ARCHITECT'S RESPONSE:

This information is provided as an interpretation of the Contract Documents for implementation. It is not an authorization for change to the Contract Sum or Contract Time. If this information results in a claim for a change to the Contract, the Contractor shall notify the [Construction Manager][Architect] of a change through the change process.

Cc: Kathy Bathe, Paric Corporation

Answered By: **JILL WALKER / DMA**

Date: **6/9/2016**



Ross & Baruzzini

6 South Old Orchard | St. Louis, MO 63119
P: 314.918.8383

RESPONSE TO RFI #170

PROJECT: Webster University Interdisciplinary Science Building
PROJECT NO: Webster University: 15051/R&B: 1136-16
DATE: 06/15/2016
BY: Mike Harris
SUBJECT: RFI #170 – Trap Primer
DWG REFERENCE: P0101.A
SPEC REFERENCE: N/A
CC: Craig Miller, Central File

ENGINEER OF RECORD'S RESPONSE

ROSS & BARUZZINI CPOR COMMENTS

It is the recommendation of R&B that the contractor requested trap primers be installed in the called out locations. Without the primers these areas can dry out more rapidly than in normal use areas.

If **St. Louis County allows** the use of trap seals, this can be an alternative to the trap primers. Have the contractor confirm that the county will or will not allow the use of trap seals.

The above response to the Contractor's Request for Information is intended only as a clarification of the Contract Requirements, and shall not be construed as relieving the Contractor from compliance with the Contract plans and specifications. This instrument does not authorize any change in the Contract Sum nor Contract Time.

SIGNED:

Mike Harris



PARIC CORPORATION
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REQUEST FOR INFORMATION DATE: June 15, 2016 NO.: RFI-170

To: Cannon Design

Attn: Kelvin Patel

From: Paric Corporation

Requested By: Joe Voypick

Project Name: 15051-Webster University Interdisciplinary Science Building Project No.: 15051

Subject: Drain Trap Primer Supplies

Response Required By: June 22, 2016

Drawing / Spec Reference:

Information Requested:

Sheet: P0101.A

Will the following drains receive regular drainage to maintain the p-trap seal, or would a trap primer supply need to be added?

196 Water Entry – FS-3
191 Cadaver Lab – FD-2 (2)
178 Mechanical Room – FD-3 (2)
172 Loading Dock – FD-3 (2)

Response:

.

ARCHITECT'S RESPONSE:

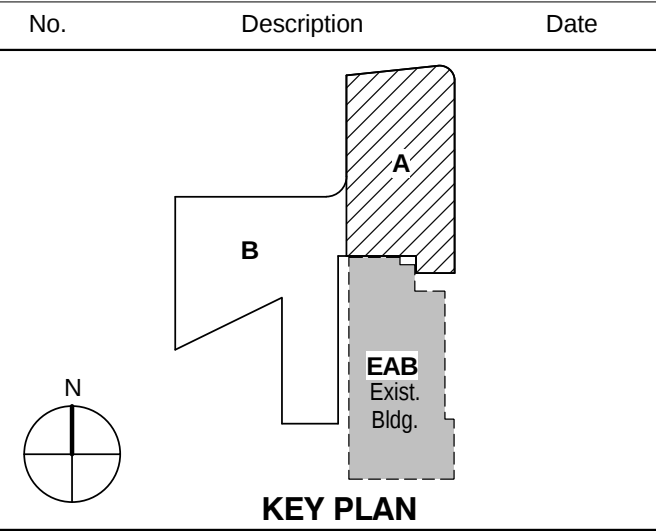
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Cc: Kathy Bathe, Paric Corporation

Answered By: _____

Date: _____

4	ADDENDUM 2-4	24 MAY 2016
3	ADDENDUM 2-2	19 APR 2016
2	MSD SUBMITTAL	12 APR 2016
1	ADDENDUM 2-1	17 MAR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016



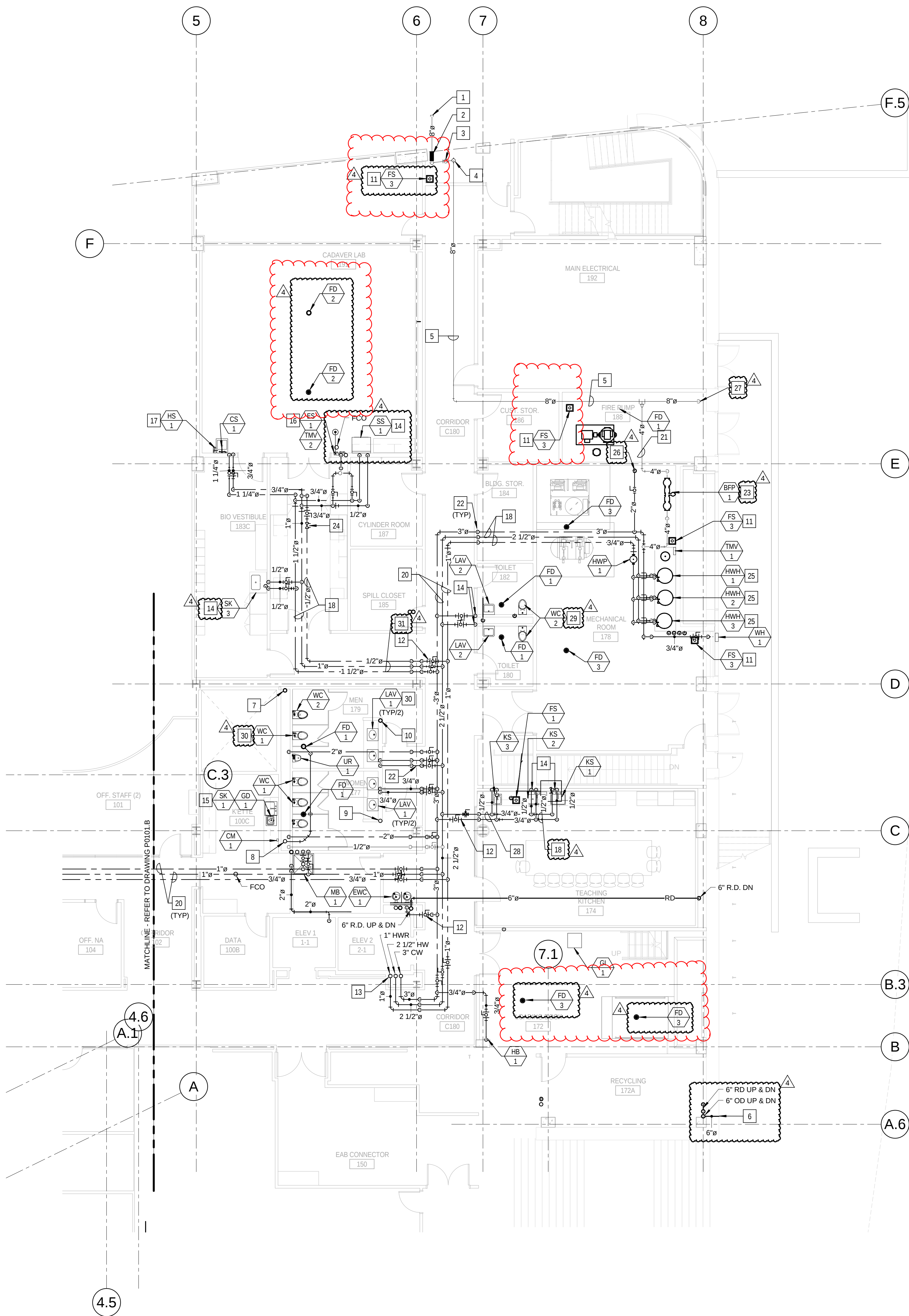
KEY PLAN

Drawing Title:

LEVEL 01 AREA A FLOOR
PLAN - PLUMBING

Project No.: 04561.01 Checked by:

P0101.A



1 LEVEL 01 AREA A FLOOR PLAN - PLUMBING
1/8" = 1'-0"

KEYED NOTES - (THIS SHEET ONLY)

- 8" COMBINATION FIRE/DOMESTIC WATER SERVICE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
- SLEEVE AND SEAL WATER TIGHT WITH "LINK-SEAL" ASSEMBLY. REFER TO DETAIL ON SHEET P0501.
- MAIN SERVICE VALVE FOR COMBINATION DOMESTIC WATER AND FIRE SERVICE. REFER TO DRAWING P0403, DETAIL 1/P0403.
- BUILDING PRESSURE GAUGE POSITION TO BE VISIBLE.
- 8" GALVANIZED COMBINATION FIRE/DOMESTIC WATER SERVICE ABOVE CEILING. COORDINATE WITH OTHER TRADES PRIOR TO ROUGH IN. REFER TO DRAWING P0401, DETAIL 1.
- COORDINATE LOCATION OF DOWN SPOUT NOZZLE AND WALL SLEEVE WITH OTHER TRADES PRIOR TO ROUGH IN.
- 4" SANITARY VENT RISER UP TO SERVE WATER CLOSETS, URINALS AND FLOOR DRAINS ON EACH LEVEL.
- 4" SANITARY WASTE RISER UP TO SERVE WATER CLOSETS, URINALS AND FLOOR DRAINS ON EACH LEVEL.
- 2" SANITARY WASTE RISER UP TO SERVE LAVATORIES ON EACH LEVEL.
- 2" SANITARY VENT RISER UP TO SERVE LAVATORIES ON EACH LEVEL.
- COORDINATE LOCATION OF FLOOR SINK WITH LAYOUT OF ROOM AND FOUNDATION BELOW PRIOR TO ROUGH IN.
- FURNISH AND INSTALL SHUT-OFF VALVES AT THE ENTRY TO EACH ROOM.
- FURNISH AND INSTALL 3" CW, 2 1/2" HW AND 1" HWR PIPING UP TO SERVE LEVEL 2. ALIGN PIPE WITH WALL ABOVE.
- FURNISH AND INSTALL 1/2" CW, 1/2" HW AND 2" VENT DOWN IN WALL TO SERVE FIXTURES.
- BREAK-ROOM SINKS ARE TO BE SERVED FROM WATER, WASTE AND VENT PIPING IN TOILET ROOM CHASE.
- EMERGENCY SHOWER TO BE SERVED WITH FIELD FURNISHED AND INSTALLED 1" TEMPERED WATER TO SHOWER HEAD FROM WALL RECESSED CABINET. EYEWASH PORTION OF ASSEMBLY WILL REQUIRE 2" WASTE AND 2" VENT TYPICAL FOR ALL INSTALLATIONS. REFER TO DRAWING P0403, DETAIL 3/P0403.
- WALL RECESSED CW AND HW HOSE STATION. SERVE WITH 1/2" CW AND 1/2" HW FROM CLINICAL SINK. COORDINATE LOCATION AND MOUNTING HEIGHT WITH OTHER TRADES PRIOR TO ROUGH IN.
- PIPING IN EACH ROOM SHALL BE RUN AS HIGH AS POSSIBLE TO AVOID CONFLICTS. COORDINATE INSTALLATION AND ROUTING WITH OTHER TRADES PRIOR TO ROUGH IN.
- NOT USED.
- PIPING IN CORRIDOR TO BE AT BOTTOM OF STRUCTURAL STEEL CROSS MEMBERS. COORDINATE INSTALLATION AND ROUTING WITH OTHER TRADES PRIOR TO ROUGH IN.
- 4" GALVANIZED DOMESTIC WATER TO DOMESTIC WATER BEAUFLOW PREVENTER.
- DROP PIPING DOWN TO BELOW STRUCTURAL STEEL MEMBER. HOLD TIGHT TO BOTTOM OF STEEL.
- DOMESTIC WATER SERVICE BACK FLOW PREVENTER. REFER TO DRAWING P0501, DETAIL 6/P0501.
- HOT WATER RETURN CIRCUIT SETTER VALVE. LOCATE IN AN ACCESSIBLE LOCATION ABOVE THE CEILING. REFER TO DRAWING P0502, DETAIL 11/P0502.
- REFER TO DRAWING P0403, DETAIL 2/P0403 FOR HOT WATER HEATER PIPING DIAGRAM.
- 2" DOMESTIC WATER SERVICE DOWN TO LEVEL 0. REFER TO DRAWING P0011 FOR CONTINUATION.
- 8" GALVANIZED WATER SERVICE DOWN FOR FIRE SERVICE.
- REFER TO DRAWING P0402, DETAIL 1 FOR RISER DIAGRAMS.
- REFER TO DRAWING P0402, DETAIL 2 FOR RISER DIAGRAMS.
- REFER TO DRAWING P0401 FOR PUBLIC TOILET ROOM RISER DIAGRAMS.
- REFER TO DRAWING P0405 FOR WATER SUPPORT RISER 1.



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REQUEST FOR INFORMATION DATE: June 22, 2016 NO.: RFI-178

To: Cannon Design

Attn: Kelvin Patel

From: Paric Corporation

Requested By: Joe Voypick

Project Name: 15051-Webster University Interdisciplinary Science Building Project No.: 15051

Subject: utilities above SIM lab

Response Required By: June 29, 2016

Drawing / Spec Reference:

Information Requested:

There is water, waste and vent piping located above the SIM lab 133B room. Is this acceptable? There is a pre-action fire protection system serving this room, which may have sensitive equipment in it.

Response: If this has not already been revised (piping relocated out of SIM Lab space) per addendum and the EOR decides to leave the piping as designed, it is our recommendation that drain pans be provided under all water and waste piping.

We still have not seen a conformance set of design documents.

ARCHITECT'S RESPONSE:

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Cc: Kathy Bathe, Paric Corporation

Mike Harris

Answered By: _____

6-22-16

Date: _____



Ross & Baruzzini

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P: 314.918.8383

RESPONSE TO RFI #121

PROJECT: Webster University Interdisciplinary Science Building
PROJECT NO: Webster University: 15051/R&B: 1136-16
DATE: 06/10/2016
BY: Mike Harris
SUBJECT: RFI #121 – Elevator Sump Pit Cover
DWG REFERENCE: S0201
SPEC REFERENCE: N/A
CC: Craig Miller, Central File

ENGINEER OF RECORD'S RESPONSE

Coordinate with elevator supplier.

ROSS & BARUZZINI CPOR COMMENTS

Per the Handbook on Safety Code for Elevators and Escalators (see attached), Sumps in pit floors must be covered to reduce a tripping hazard to maintenance and inspection personnel.

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SIGNED: Mike Harris

ASME A17.1/CSA B44 HANDBOOK (2013)

2.1.5 Windows and Skylights

Windows and skylights are permitted in the machine rooms and control rooms. Skylights are also permitted in the hoistway. Windows are prohibited in the hoistway except in jurisdictions enforcing NBCC, as a fireman entering a building through a window in a fire situation may not realize that he is in the elevator hoistway and that there is no floor on which to stand. A glass curtain wall is not considered a window and is permitted in the hoistway by 2.1.1.2.1(d).

The building code should be consulted for the detailed requirements on window and skylight glazing, framing and sash construction, and guarding. This requirement does not apply in Canada as it is outside the Scope of the elevator code. See NBCC.

2.1.6 Projections, Recesses, and Setbacks in Hoistway Enclosures

The intent of these requirements is to prevent a person from standing on the top surfaces of a projection, recesses, or setbacks, or laying tools or equipment on top surfaces (not to eliminate a shear hazard). This requirement also applies to mullions for glass curtain walls. Bevels are not required on nonhorizontal projections such as diagonal bracing with an angle greater than 75 deg from the horizontal, except where they intersect with beams or columns. Projections and setbacks may be screened instead of beveled. The requirements for screening material are the same as 5.10.1.1.1. See Diagram 2.1.6.2.

Guarding the underside of projections on sides of hoistways not used for loading and unloading is not required.

2.1.6.2(b) The top surface of separator beams is not required to be beveled. It is not possible to stand on a 75-deg beveled ledge adjacent to a wall. However, beveling the top surface of a separator beam would not stop a person from standing on it.

**SECTION 2.2
PITS**

See Diagram 2.2.

2.2.2 Design and Construction of Pits

When the hoistway is enclosed with fire-resistive construction, the pit must also be enclosed with fire-resistive construction not less than that which is required for the hoistway. If the hoistway enclosure is rated for 2 h, the pit enclosure must be rated for at least 2 h. The fire-resistance rating of the pit access door must be as specified in the building code (see 1.3, Definitions). See Handbook commentary on 2.1.1.1 and 2.1.1.2.

Structural frames for buffers, compensating sheaves, and frames that are on top of the floor are permitted. The requirement refers to the floor only and not equipment

mounted on it. A hydraulic jack casing extending above the floor is also permitted.

A sump pump or drain is required in every pit for elevators provided with firefighters' service (see 2.2.2.5). Water from building sprinkler systems or other sources (i.e., water from fire suppression) should not be allowed to accumulate in a pit. This provision is intended to assist in maintaining elevator service during a fire emergency. It requires a means to continuously prevent the accumulation of water that does not require human intervention. If a sump pump is utilized, it must be permanently installed. Requirement 2.2.2.5 specifies the minimum capacity of a sump pump/drain at 3,000 gal/h or 11.4 m³, which is the output from a typical sprinkler head. This may not guarantee a pit free from water but will give firefighters additional time to use the elevator before water in the pit may interfere with the elevator operation.

The intent of 2.2.2.4 is to eliminate the possibility of sewer gases entering the hoistway. Compliance is typically achieved by having the sump pump or drain discharge into the open air outside the pit and hoistway. The Committee is aware that this requirement poses a need in many jurisdictions to provide an oil water separator or equivalent protection as required by the plumbing code. As an example, the 2009 International Plumbing Code, requirement 1003.4 states

"At repair garages, car-washing facilities, at factories where oily and flammable liquid wastes are produced, and in hydraulic elevator pits, separators shall be installed into which all oil-bearing, grease-bearing, or flammable wastes shall be discharged before emptying into the building drainage system or other point of disposal.

Exception: An oil separator is not required in hydraulic elevator pits where an *approved* alarm system is installed. However, the need of firefighters to use elevators in a fire situation outweighs the cost associated with compliance to the plumbing code requirements."

Sumps in pit floors must be covered to reduce a tripping hazard to maintenance and inspection personnel.

2.2.3 Guards Between Adjacent Pits

A guard or standard railing is required only when adjacent pit floors are at different levels. The guard or railing is to protect the mechanic or inspector from falling due to the differences in elevations between adjacent pit floors. See also commentary on standard railing in 2.10.2.

2.2.4 Pit Access

When the pit floor is more than 900 mm or 35 in. below the sill of the pit access door, a fixed retractable

