



Light of Experience

This is Steven Holl s first major public building in the United States, built in Seattle, his home town. The site is on a street that runs straight through the university campus. The new building defines its place in terms of three planes of green space (to its north, west and, in the future, east); and the plane of a reflecting pool to the south.

Holl started with a simple scheme: a stone box with seven bottles of light . This seminal idea of light nourishes both a powerful metaphor of the church and Holl s own architectural preoccupations with developing the sensory, perceptual, and emotional intentions of a building. The light metaphor also has a programmatic logic, with the seven bottles corresponding to stages of the Jesuit liturgy. The bottle/light scoops create a dramatic roofscape.

The slender 52ft bell tower clad in zinc sig- ment, and seeks a new form of modern nals the beginning of the processional route into the chapel, past the reflecting pool. The developing architecture's sensual, phenomochre-stained monochromatic exterior of the enological aspects - using light, texture, building is in absolute contrast to the lightwashed interior. It glows with the effects of suffused daylight and various intense colours projected onto surfaces by light coming through coloured lenses set in the mouths of the light scoops. Soft light is intersected by bold slashes of colour. Subtly reflected colourings define layered planes Light bounces off the highly polished concrete floor. The saturation of the projected colours varies with the intensity of the sunlight, and the progress of the sun enlivens or subdues colours.

The seven different light conditions relate to: 1 procession: natural sunlight; 2 narthex: natural sunlight; 3 nave: yellow field with blue lens (east), blue field with yellow lens (west); 4 Blessed Sacrament: orange field with purple lens; 5 choir: green field with red lens; 6 Reconciliation Chapel: purple field with orange lens; 7 bell tower and pond: reflected night light.

Holl devised the complementary coloured lenses because the project could not afford stained glass windows. The budget imposed other constraints. The initial scheme was shrunk from 10,000ft² to 6100ft², and the original intention to use stone gave way to precast concrete panels with stone limited to the window ledges and

Using tilt-slab construction - which for Holl recalled Schindler's Kings Road house in Los Angeles - the building carcass was raised in twenty-four hours. To ensure the high-quality interior finish, the slabs were cast face-up. The twenty-one panels interlock, with the windows formed in the interlocking voids of the slabs. It is a pure tectonic expression. Panels are 8-10ins thick, 30ft high, and weigh some 78,000 lbs; one

is 77 tons. They had to be picked up and rotated by a hydraulic crane. The pick-up hook points in the slabs remain in the walls as traces of the construction method. Hook covers cast in brass were applied over the holes once the walls were up, casting shadows. This detail is reminiscent of Scarpa, in whose work the processes of manufacture are remembered as ornament.

The light scoops were formed using a curved steel-tube framing system that Holl had used before on the Stretto house in Dallas. The rolled pipe and tube sections allow elements to attach in multiple directions; few steel roof members are straight or horizontal. The roof is supported at the bearing pockets cast into the backs of the concrete panels. Phenomenology of architecture

Steven Holl sees every project is an experiarchitecture. He is centrally concerned in detail and overlapping space. He chooses to sketch his designs in watercolour because he interested in light and this provides the best medium for analysing its effects.

His collaboration with Juhani Pallasmaa and Alberto Pérez-Gómez on Questions of Perception. Phenomenology of Architecture demonstrates the significance he places on the experiential. In this book, Pallasmaa laments that The architecture of our time is turning into the retinal art of the eye. 1 He explains the simple premise of phenomenology: Every touching experience of architecture is multi-sensory; qualities of matter, space, and scale are measured equally by the eye, ear, nose, skin, tongue, skeleton and muscle. Architecture involves seven realms of sensory experience which interact and infuse each other. ²

This is Holl s touchstone. While architecture can be generated and understood at many levels, direct spatial or material experience will be felt by everyone.

The chapel is a richly experiential domain which rewards the senses and transcends the everyday exterior world. In its dramatic use of light and evocation of mass, it recalls something of Ronchamp. Of his own first visit to Ronchamp in 1970, Holl writes: ...we stepped into the empty space along a wash of sunlight. It was completely silent inside, except for the crackling of candles...mysteriously aglow. Above contrasting textures (extremely rough plaster against concrete) the concave ceiling appeared molded by light, space and the upward thrust of the thick walls .3

Haig Beck and Jackie Cooper

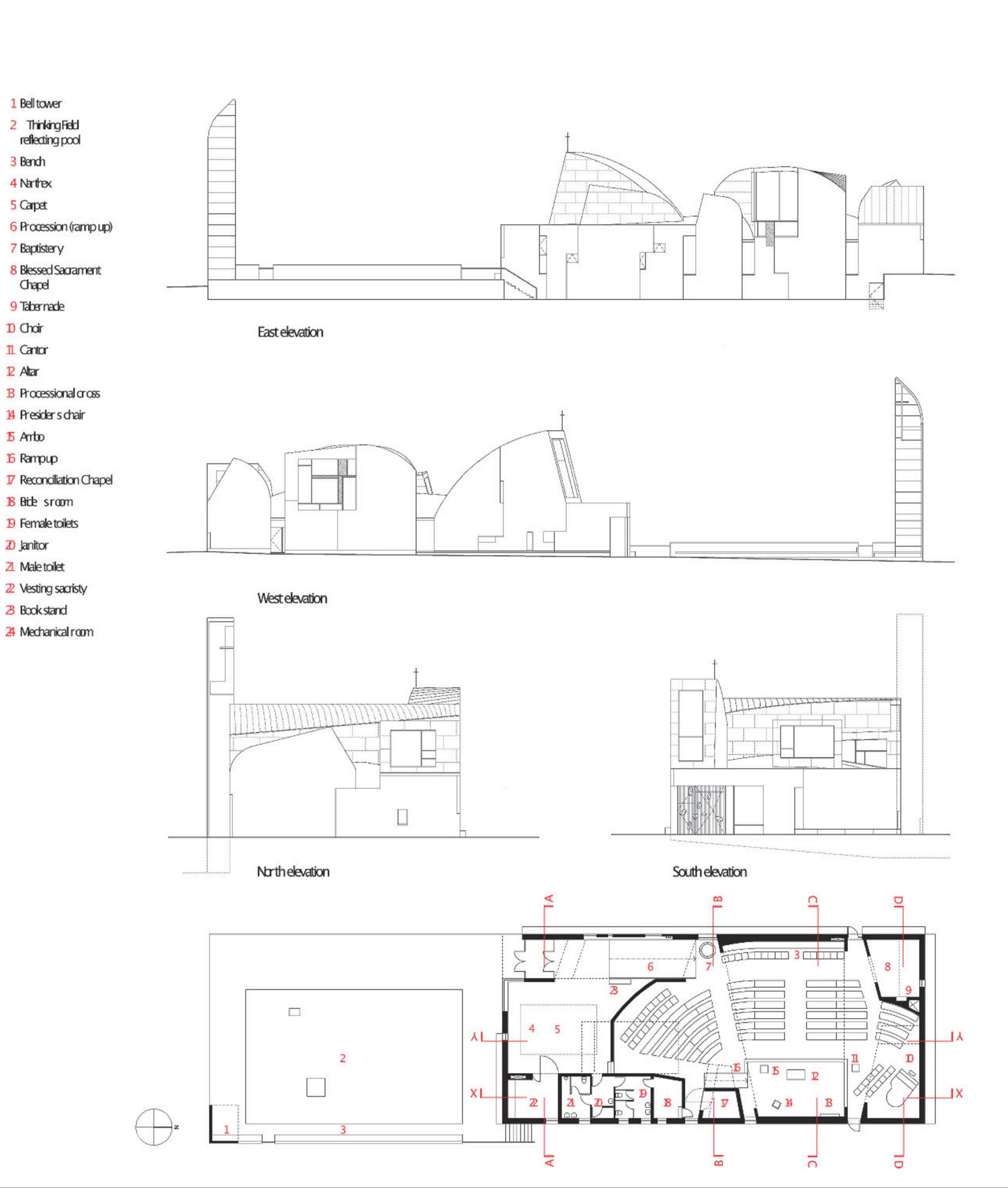
1 Steven Holl, Juhani Pallasmaa, Alberto Pérez-Cómez, Questions of Perception. Phenomenology of Architecture . Architecture and Urbanism, July 1994 special issue, Tokyo, p29

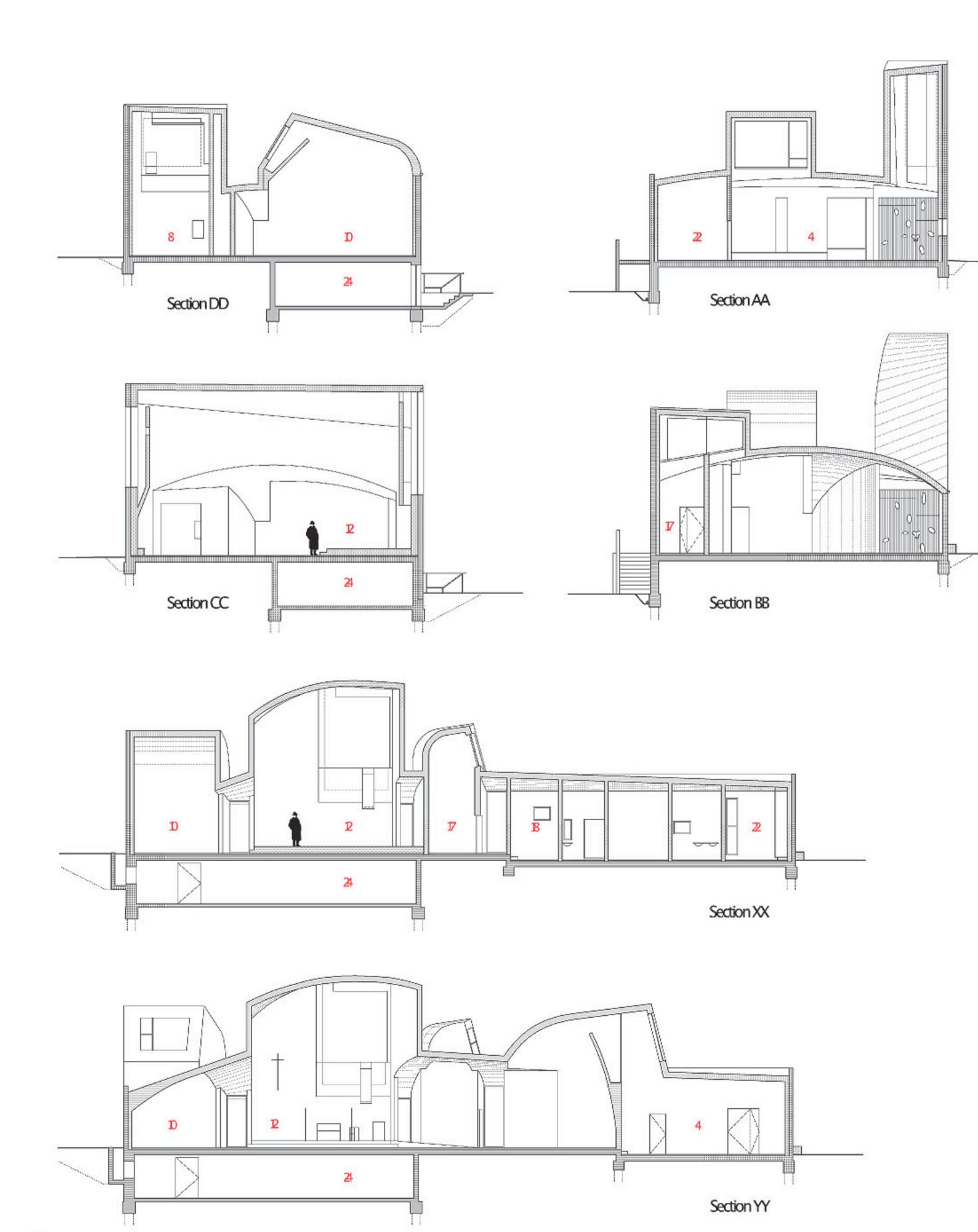
2 Ibid, p30

3 lbid, pp123-124

1 Bell tower Architect: Steven Holl Architects 2 Thinking Field reflecting pool Principal: Steven Holl 3 Bench Project architect: 4 Northex Timothy Bade 5 Carpet Project team: Justin Kornhammer, 7 Baptistery Jan Kinsbergen, 8 Blessed Sacrament **AudiaTuskes** Chapel Associate architect: 9 Tabernade Olson Sundberg Architects 10 Chair Principals: Rick Sundberg, 11 Cantor TomKundig 2 Altar Project managers: B Processional cross James Graham 14 Presiders chair Janet Webb Structural engineers: 15 Rampup Datum Engineers (schematic phase) Reconciliation Chapel Monte Clarke Engineering 18 Bible sroom (construction) Female toilets Mechanical, electrical, Janitor plumbing: 2 Male toilet Abacus Engineered Vesting sacristy Systems Bookstand Consultants: Liturgical: Bill Brown 24 Mechanical room Lighting: L. Observatoire International Acoustical: Peter George & Assoc Ceneral contractor: Baugh Construction Models: Timothy Bade, Jan Kinsbergen Watercolours: Steven Holl Total floor area:

6100f2 Construction budget: \$3.25 million Completed: March 1997



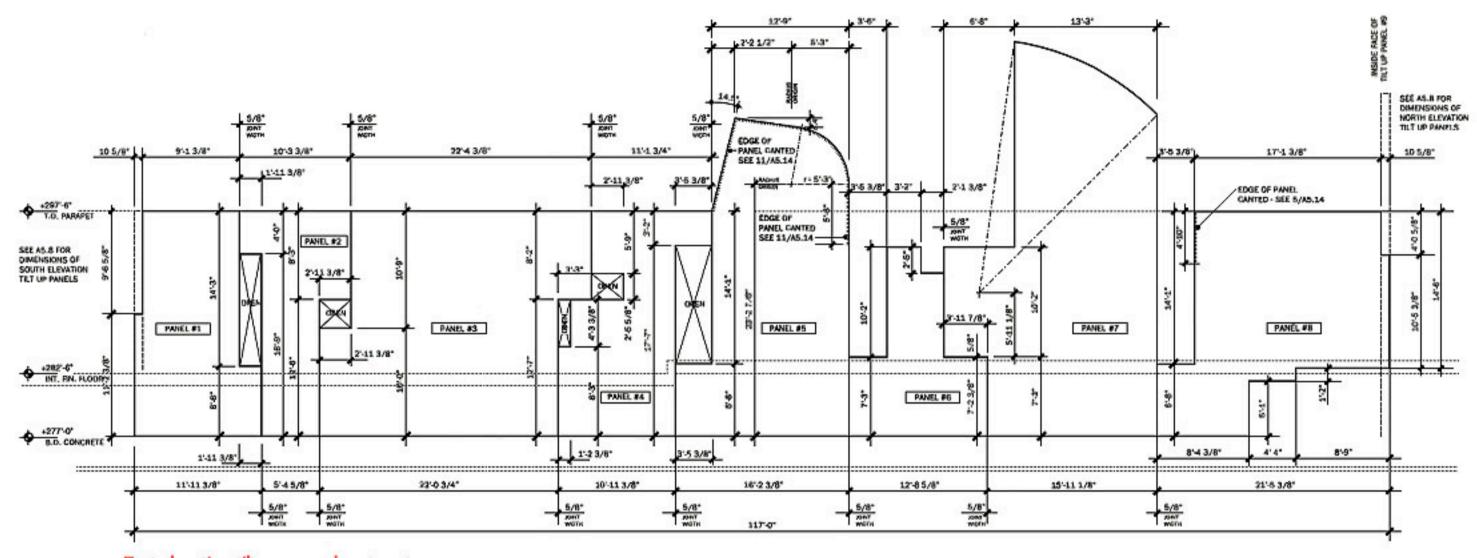


Architect s statement .. hereturns to his metaphor of light: the light At night, the time of gath to perceive what can best be decided upon must comedown from the first and supremewisdom... Eyes to See, Ears to Hear, David Lonsdale SJ Programme: Jesuit chapel for the Seattle University community. Concept a gathering of different lights in a stone box. The metaphor of light new quadrangle of green is shaped in different vol - space that will surround it. umesemergingfromthe roofwhose ir regularities aim at projecting different this reflective pool qualities of light. Each of the seven light volumes corresponds to a part of the programme of Jesuit Catholic worship. For instance, the southfacing light corresponds to inside for the processional the procession. The main and gathering functions. worship space has a vol - Steven Holl ume of east and west light. The city-facing north light corresponds to the Chapel of the Blessed Sacrament and the mission of communityoutreach. In the narthexandentry process, one experiences the natural light of the sun, with its play of shadows. Moving deeper into the chapel, the light has a mysterious glow of reflected colour fields, with the

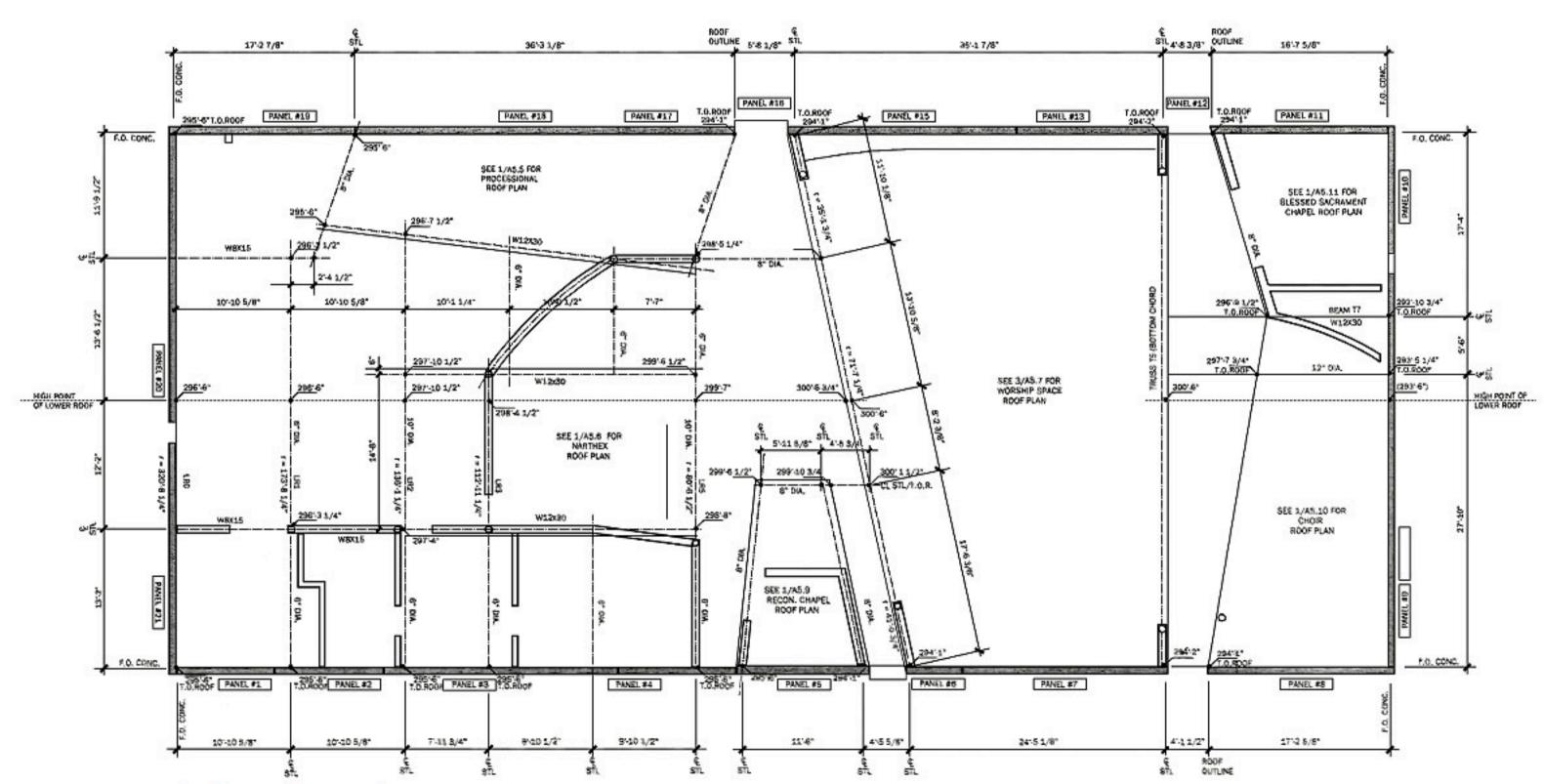
complementary colours of

each field set in a stained glass lens. erings for mass, the light volumes are like beacons shining in all directions out across the campus. On many occasions, for someone is always praying, these lights shine throughout the night. The chapel is a spacedefining building on the campus, sited to forma To its south is a pond or thinking field; at night becomes a silent forecourt to the chapel. The building selongated rectangular plan is suited to the task of defining both the campus space and the space

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East elevation tilt-up panels set-out



Plan showing tilt-up panels set-out



