

Design Build and the Landscape Architect—

How alternative project delivery methods are changing the role of the landscape architect in the Designer, Contractor, Owner relationship

Dorothy Faris, Principal, Mithun

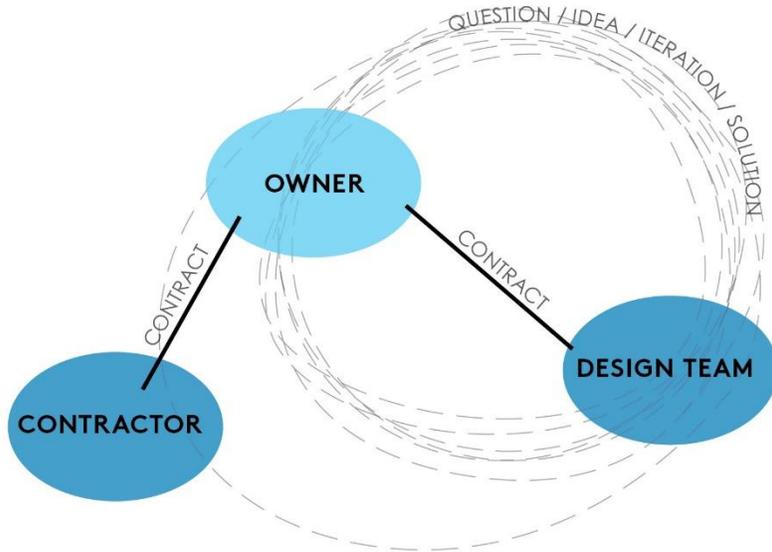
John Payne, Regional Director, SiteWorks

Brian Aske, Project Executive, Lease Crutcher Lewis

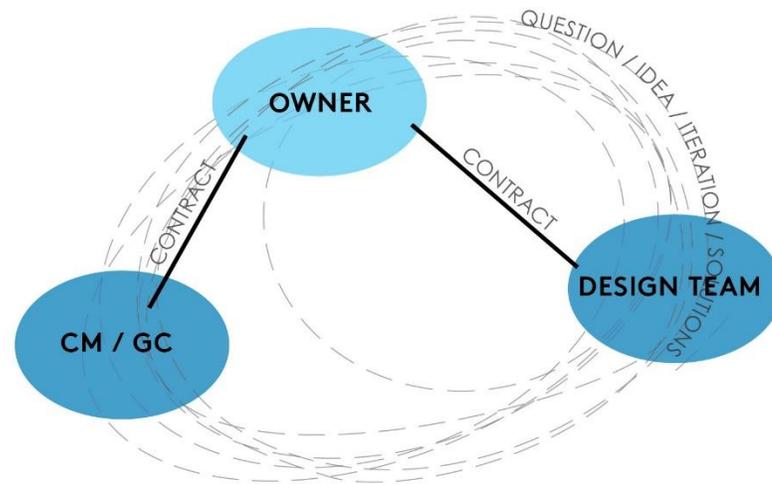
Vinita Sidhu, Principal, Site Workshop

Dorothy Faris—

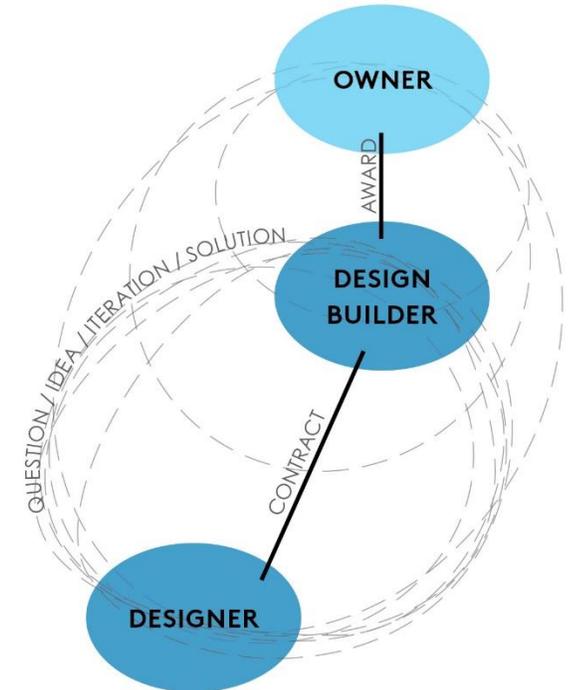
Principal, Mithun



DESIGN - BID - BUILD

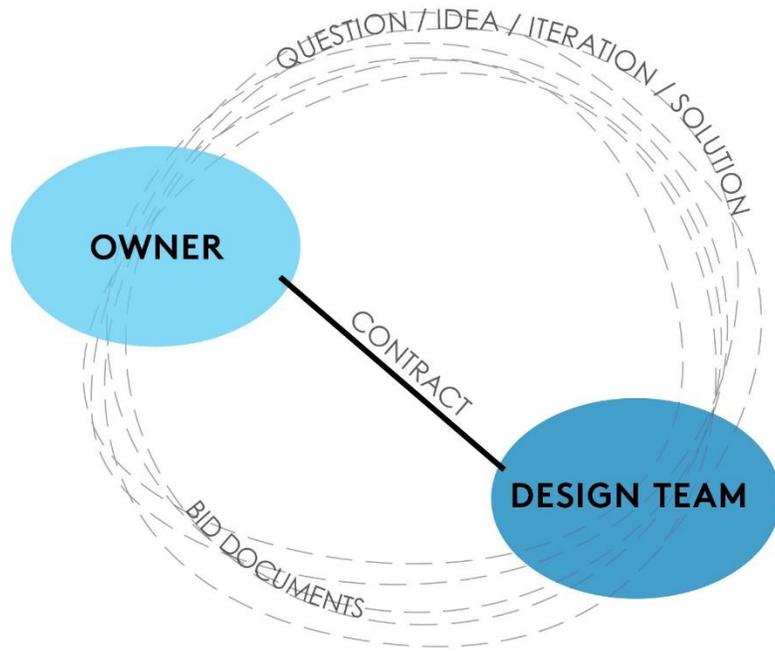


**CONSTRUCTION
MANAGER AT RISK**

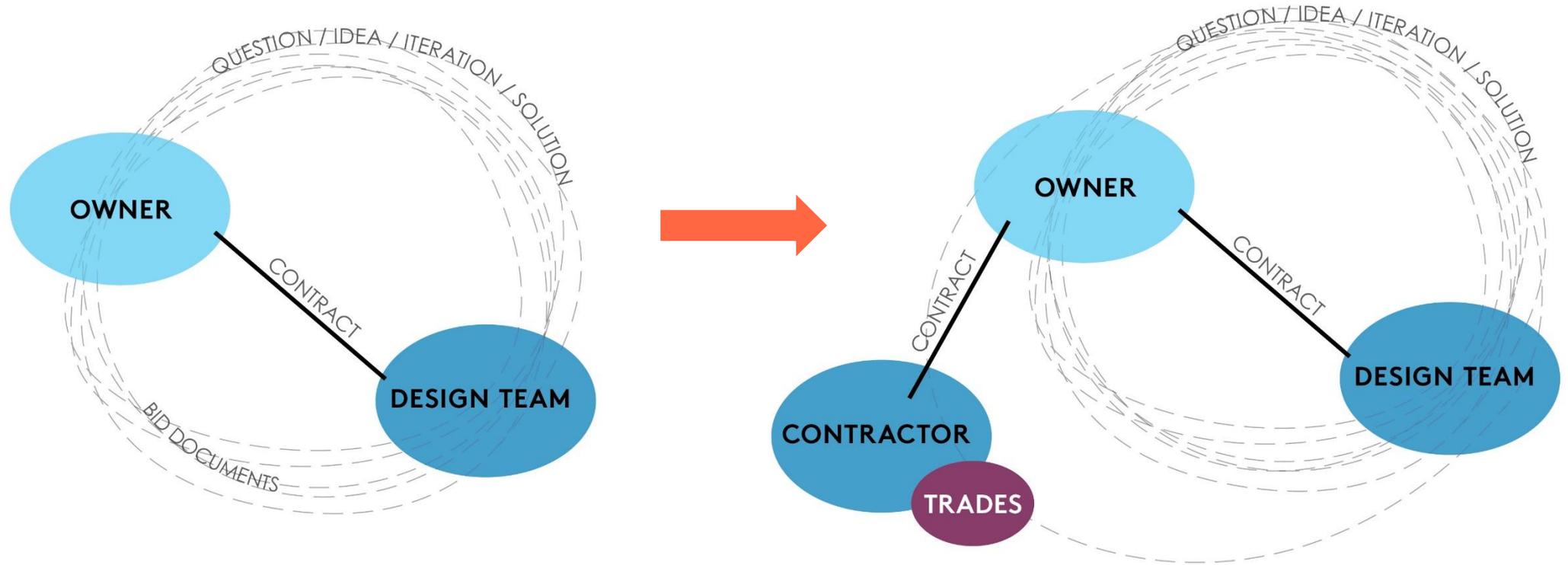


**TRADITIONAL
DESIGN - BUILD**

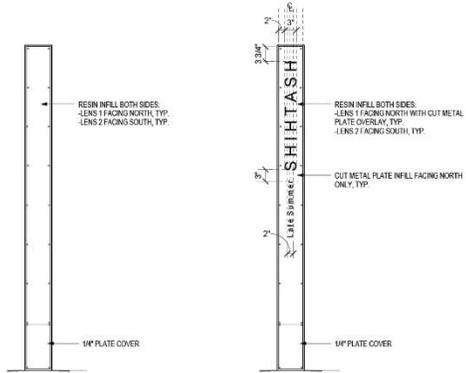
DESIGN - BID- BUILD



DESIGN - BID- BUILD

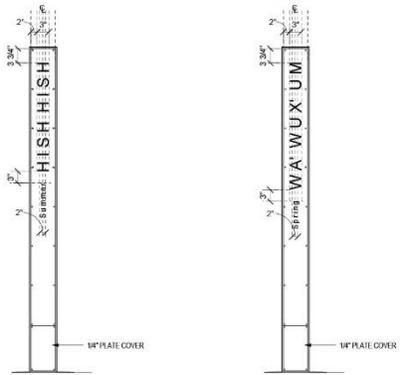


DESIGN - BID- BUILD



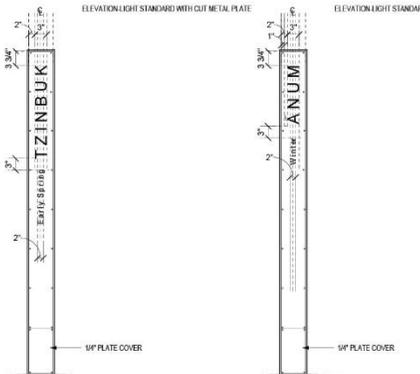
ELEVATION LIGHT STANDARD, TYP.

ELEVATION LIGHT STANDARD WITH CUT METAL PLATE



ELEVATION LIGHT STANDARD WITH CUT METAL PLATE

ELEVATION LIGHT STANDARD WITH CUT METAL PLATE



ELEVATION LIGHT STANDARD WITH CUT METAL PLATE

ELEVATION LIGHT STANDARD WITH CUT METAL PLATE

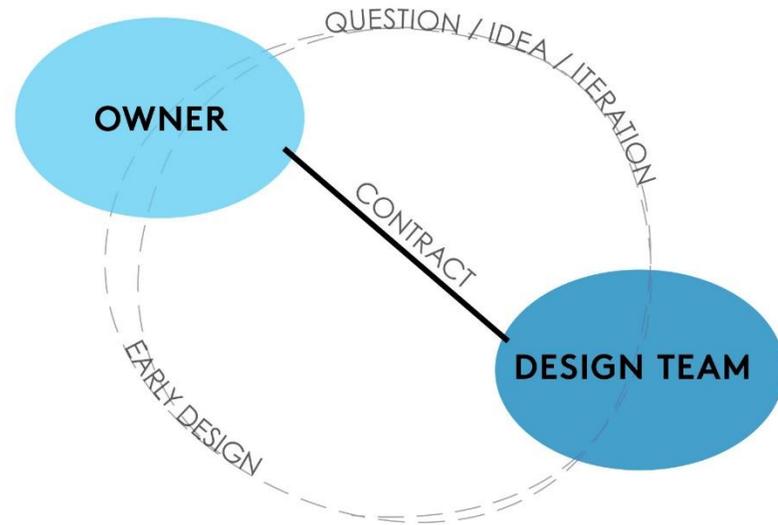


DESIGN - BID - BUILD

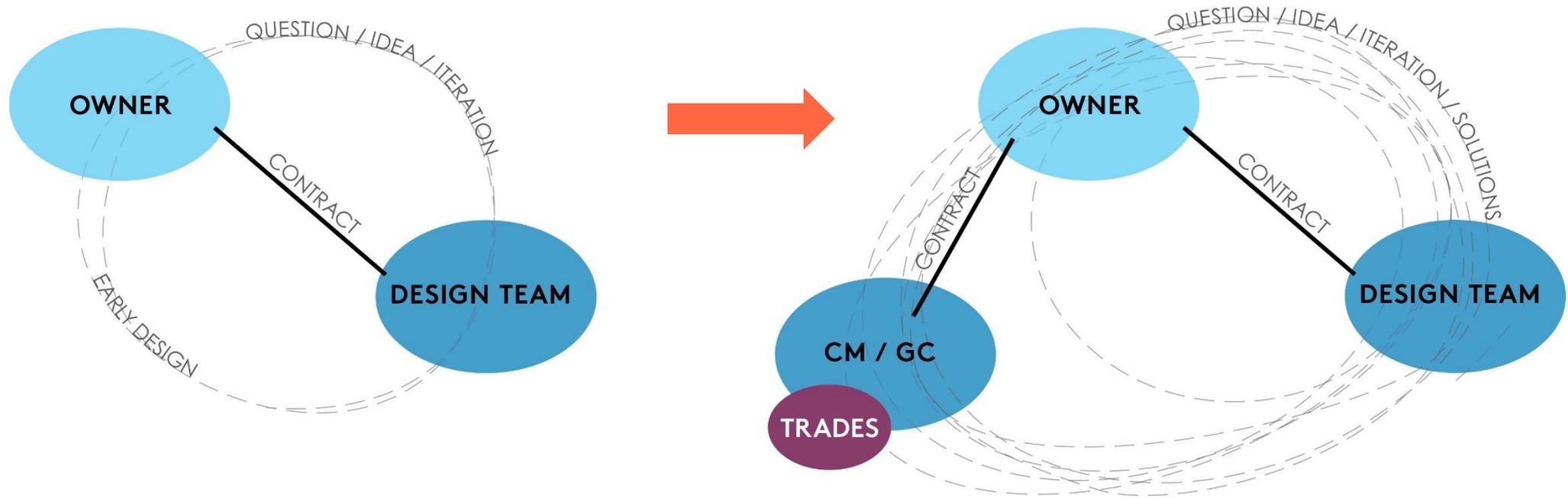


Nordic Heritage Museum

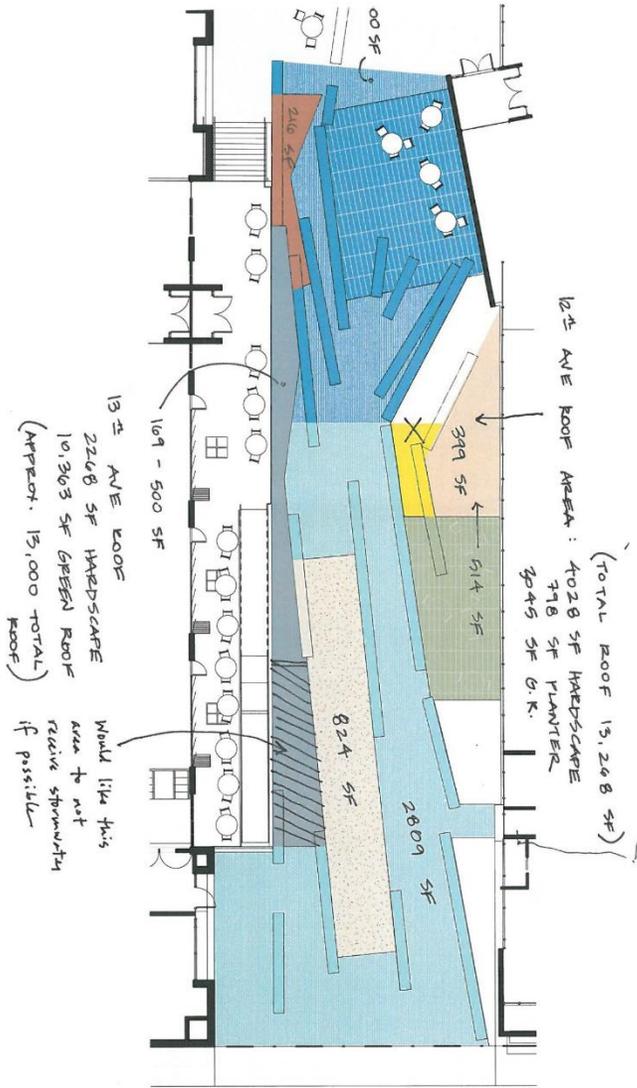
CONSTRUCTION MANAGER AT RISK



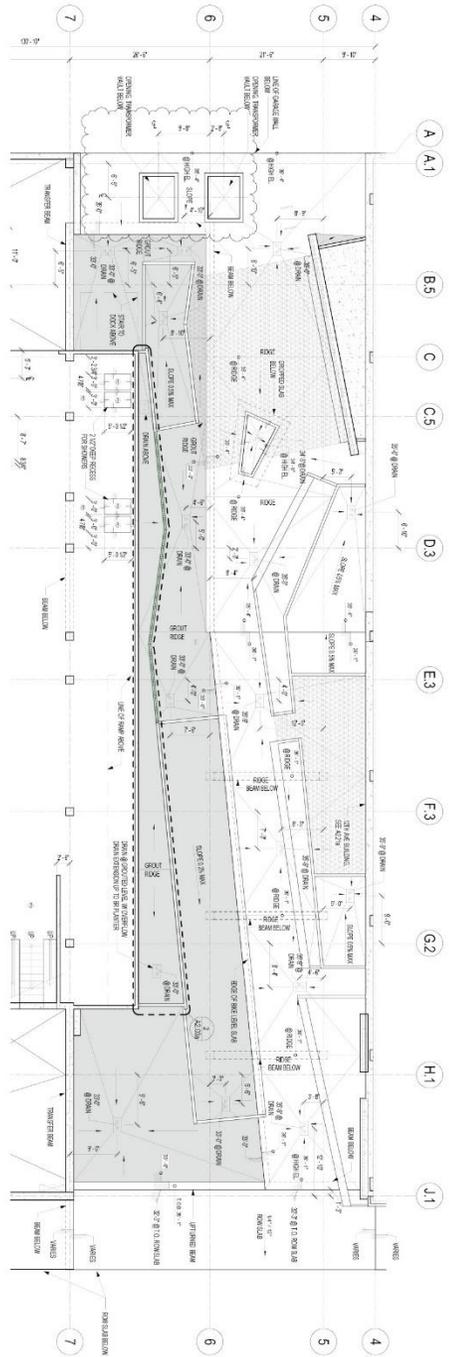
CONSTRUCTION MANAGER AT RISK



CM / GC



JOHNSON ST

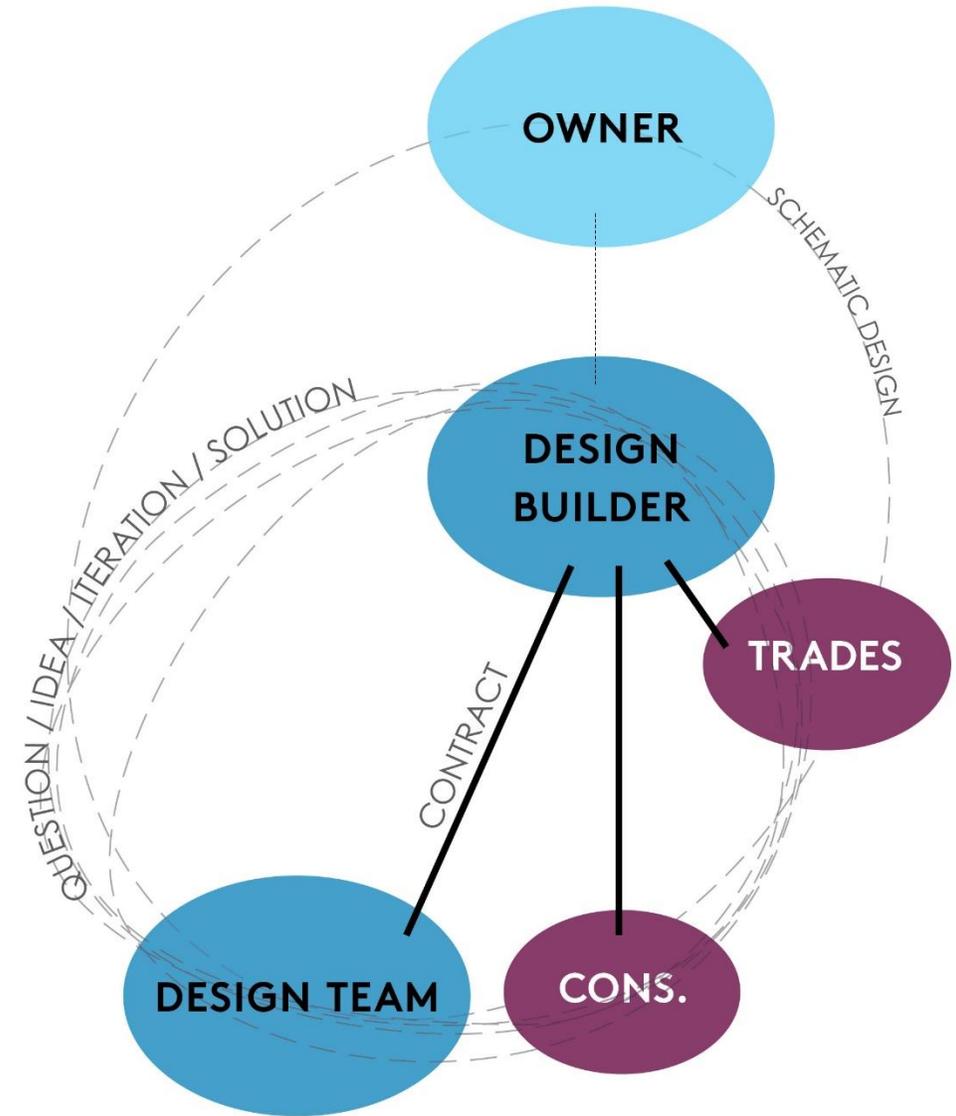
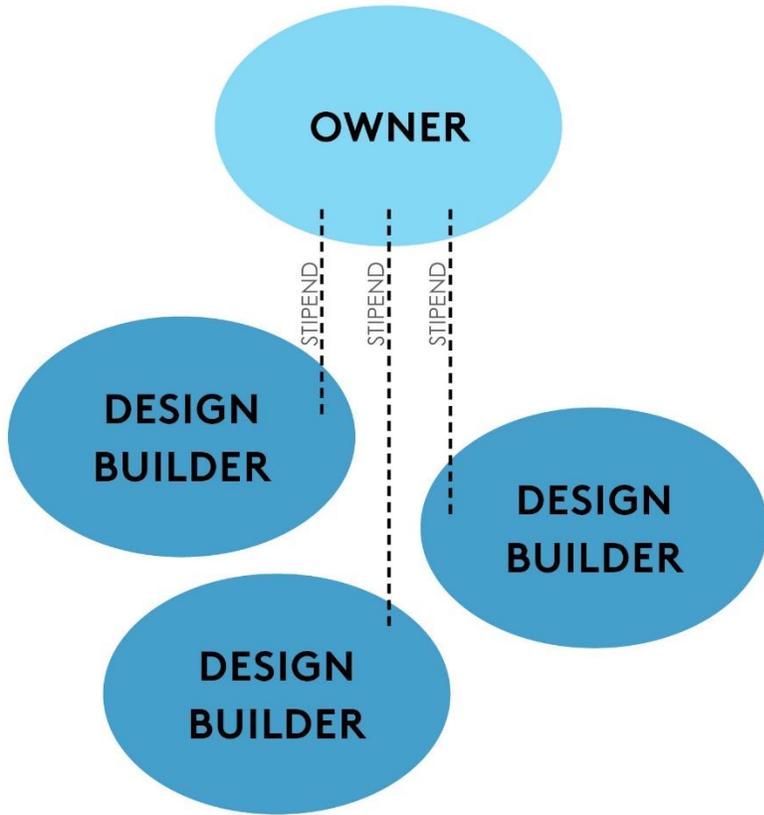


Heartline, Portland, OR

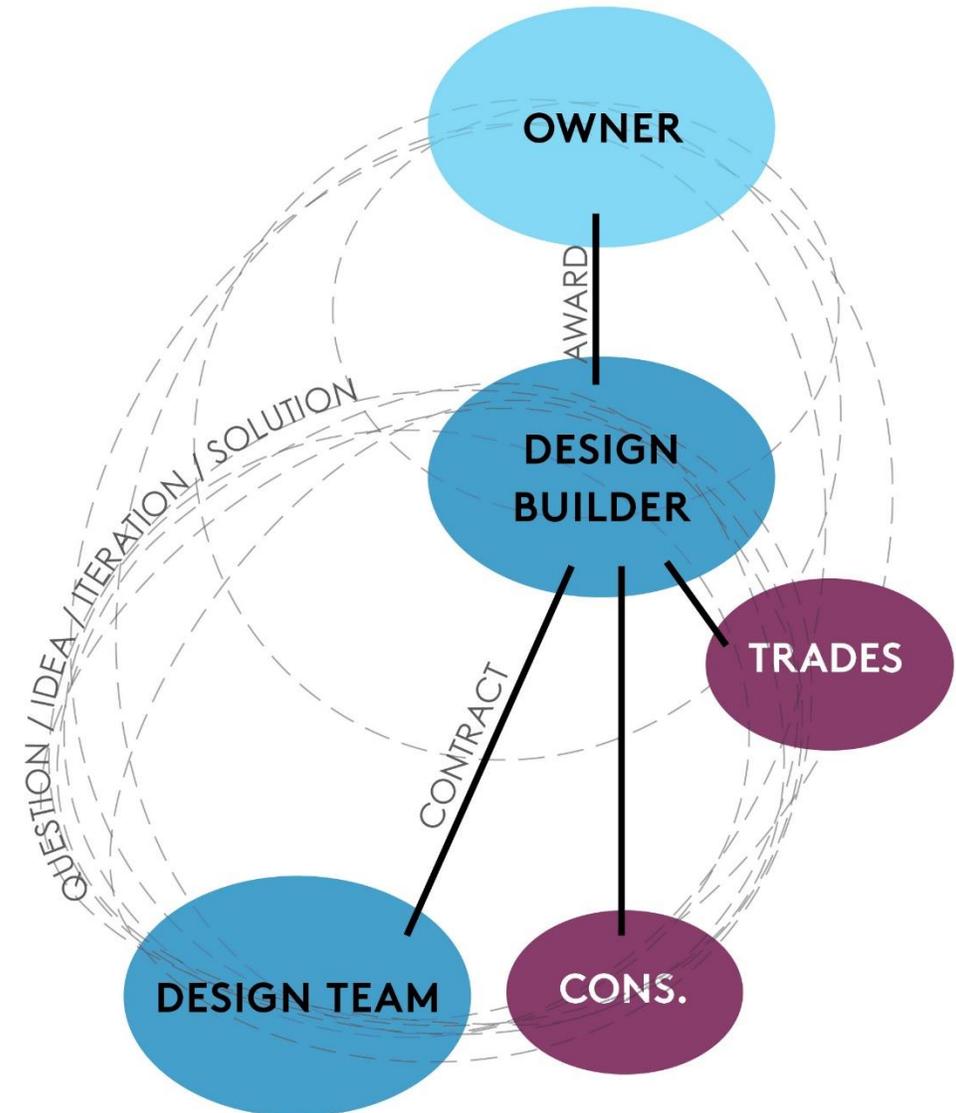


Heartline, Portland, OR

TRADITIONAL DESIGN-BUILD



TRADITIONAL DESIGN-BUILD



DESIGN - BUILD



DESIGN - BUILD



INTERIOR
DESIGNER

LANDSCAPE
ARCHITECT

ARCHITECT

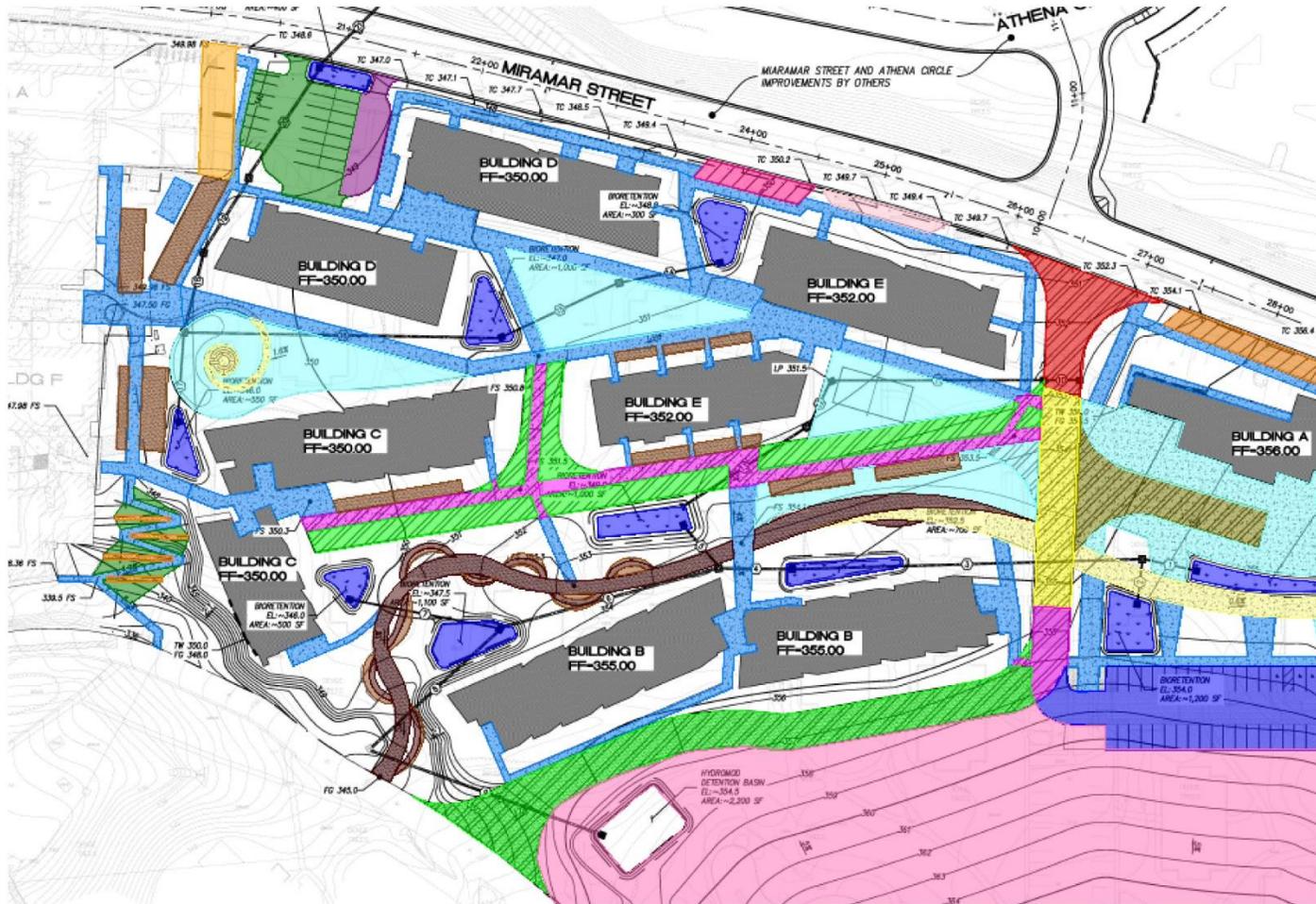
CONTRACTOR

INTERIOR
DESIGNER

LANDSCAPE
ARCHITECT

ARCHITECT

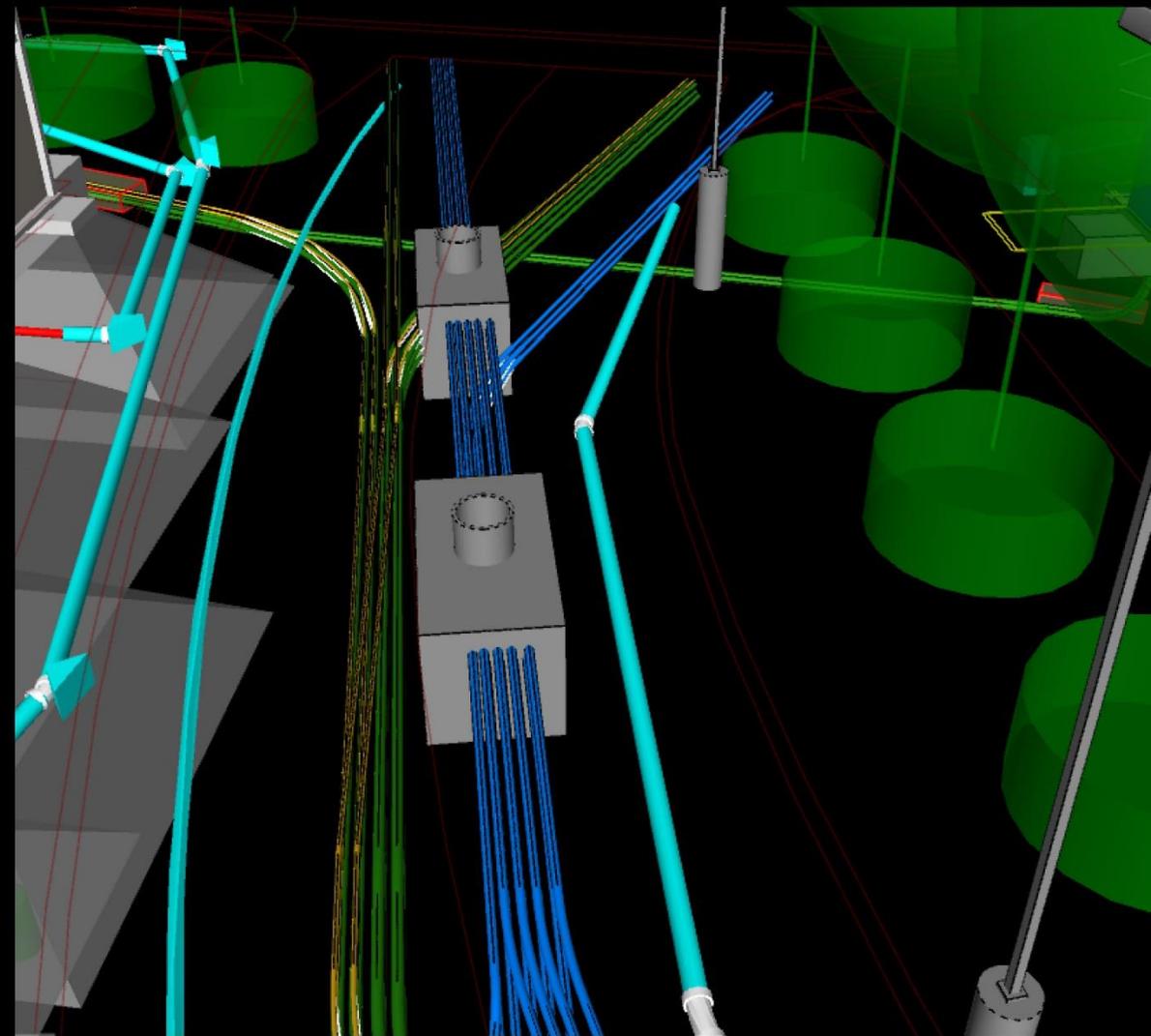
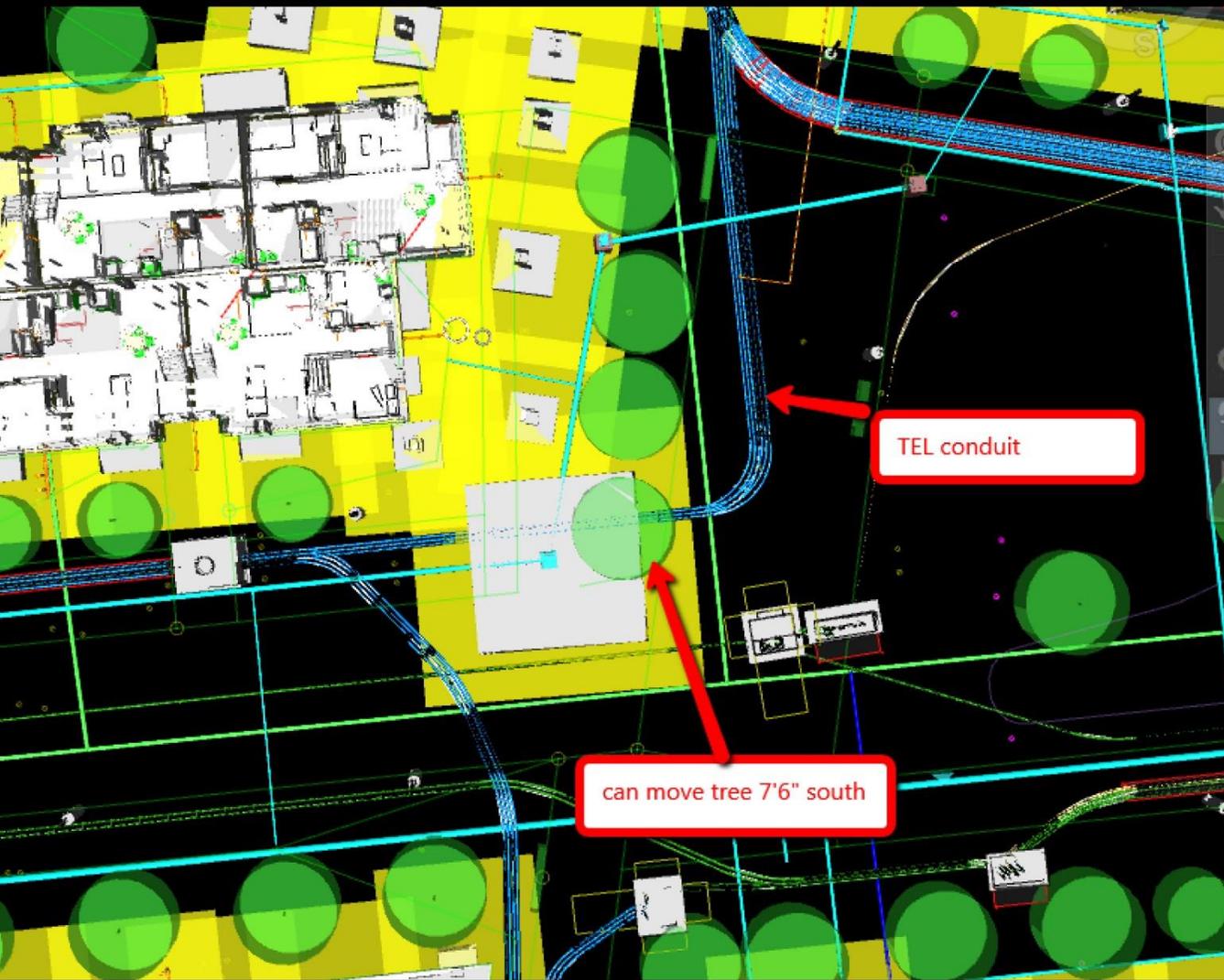
CONTRACTOR

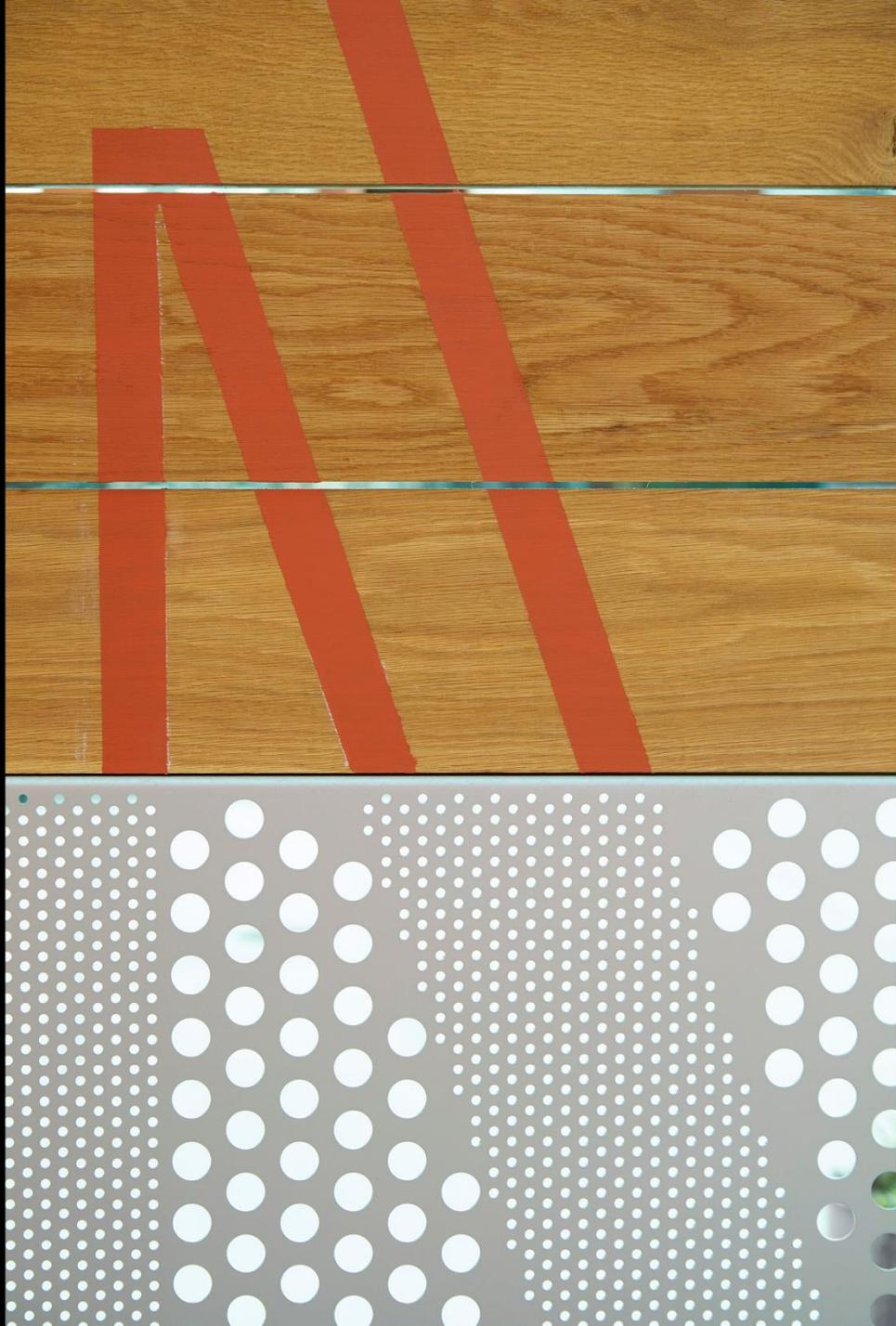


Overall Site		
22	Overall Site	584,797 SF
Proposed Asphalt		
1	Asphalt Parking Along Miramar	1,194 SF
2	Asphalt Parking at Building A	1,911 SF
Proposed Bioretention		
29	Bioretention	9,398 SF
Proposed Concrete Stairs		
35	Concrete Stairs along Regents	88 SF
Proposed Curbs		
15	Curb and Gutter	1,531 LF
16	Mow Curb	2,525 LF
Proposed Flatwork		
11	Sidewalk - 4" - Throughout Site, less along Regents	43,803 SF
12	Flatwork - Integral color/ acid etch/ scored - Adjacent to Bldg A & F	22,195 SF
13	Flatwork - Integral color/ acid etch - Winding Pathway	9,832 SF
14	Sidewalk 4" along Regents - 10' wide	3,802 SF
31	Flatwork - Integral color/ acid etch/ SCORED - Fire Access Hammerhead	4,852 SF
34	Truncated Domes	309 LF
Proposed Grass Pavers		
21	Grass pavers	22,888 SF
Proposed Landscape		
17	Mulch Paths in Garden	170 LF
18	Compacted DG	8,770 SF
23	Sod	23,588 SF
24	Garden	1,772 SF
25	Landscape	0 SF
26	Hydroseed	164,688 SF
27	36" Trees	0 EA
28	24" Trees	0 EA
33	Existing Trees - Protect in Place	0 EA
36	Stabilized DG	8,050 SF
Proposed Paving		
3	PCC Light Paving - Exchange Parking Lot	11,072 SF
4	PCC Light Paving - NW Parking Lot	6,054 SF
5	Woonerf Paving/ Tabled Intersection	4,142 SF



TECHNICAL PROPOSAL





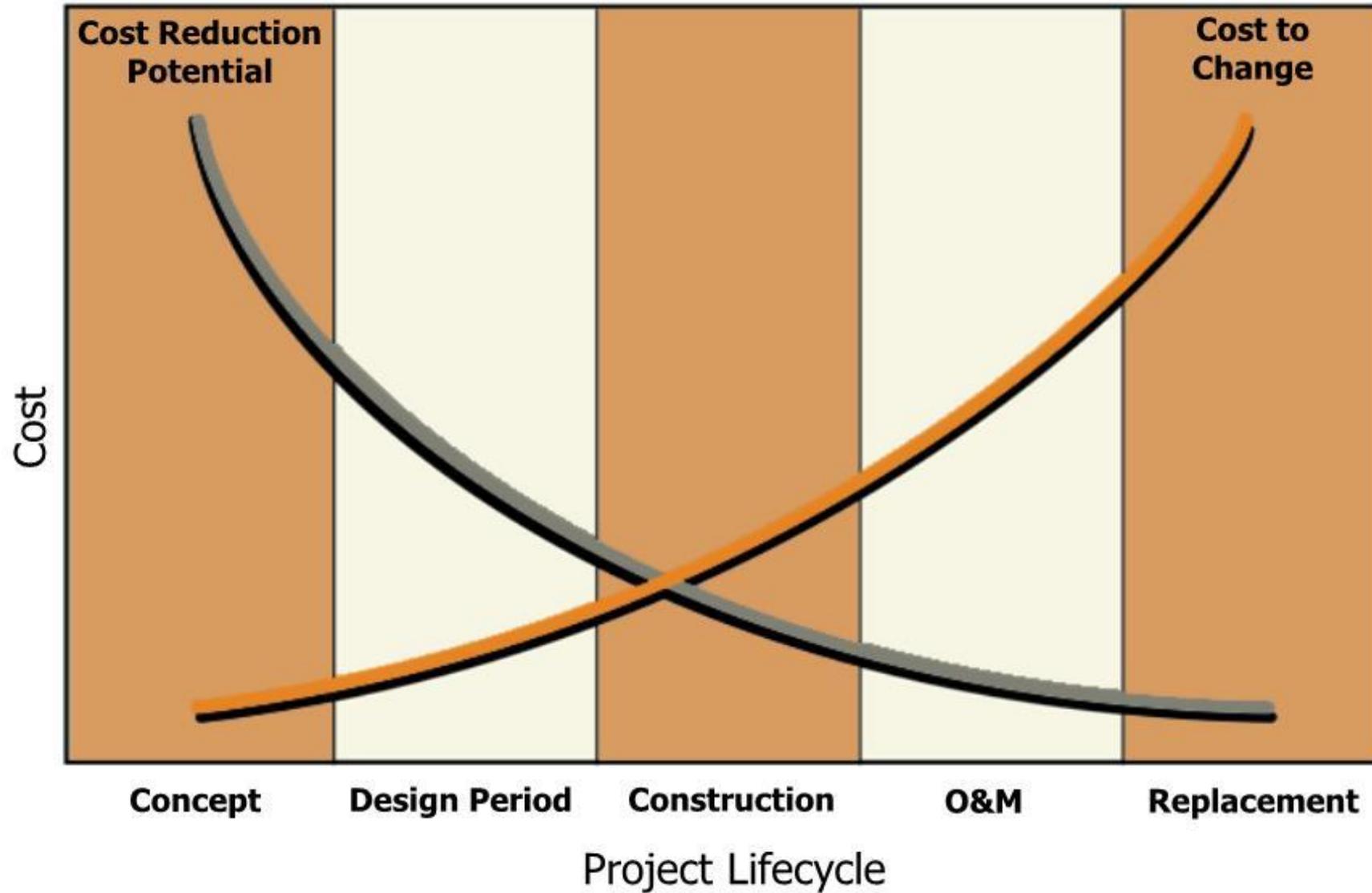
UCSD - Mesa Nueva



John Payne—

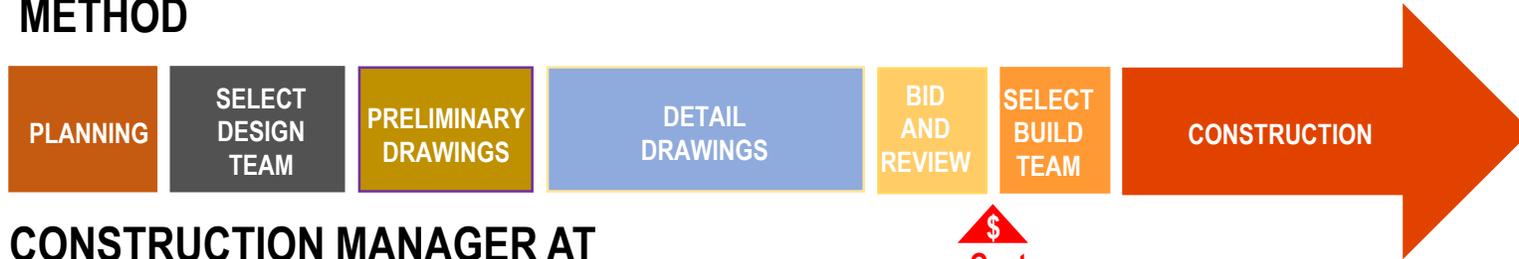
Regional Director, SiteWorks

Optimizing Design **Thinking** to Better Influence Cost

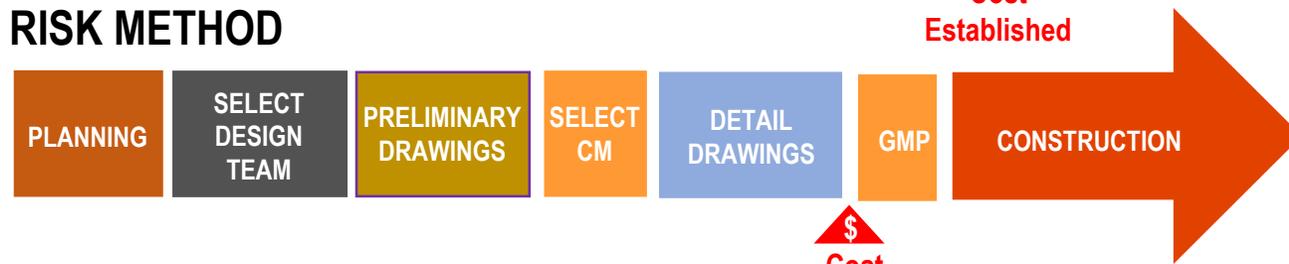


USING COST ESTIMATING AS A CRITICAL DESIGN TOOL

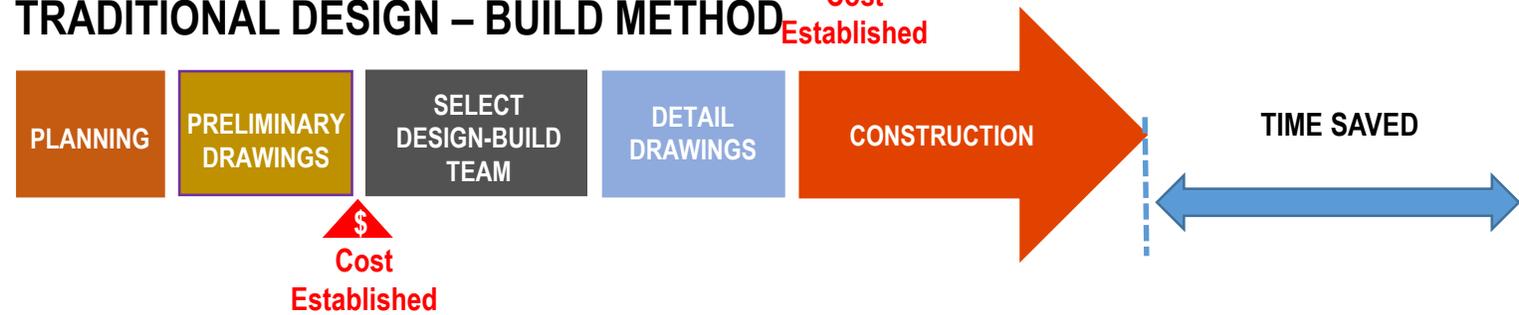
DESIGN – BID – BUILD METHOD



CONSTRUCTION MANAGER AT RISK METHOD



TRADITIONAL DESIGN – BUILD METHOD



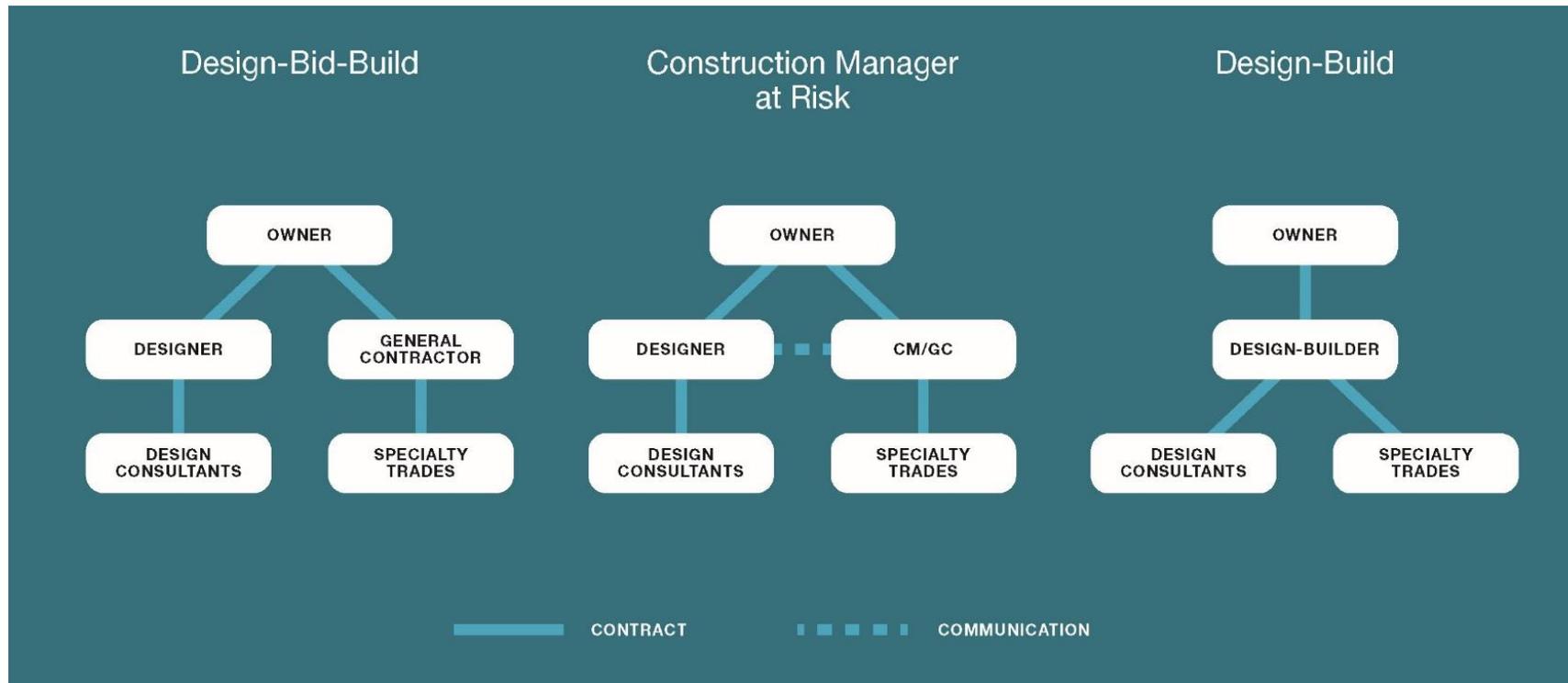
Brian Aske—

Project Executive, Lease Crutcher Lewis

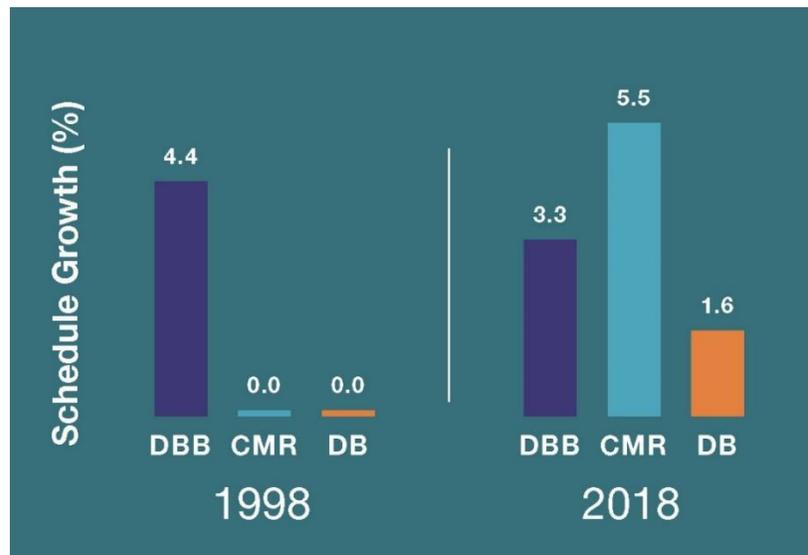
What is Design-Build?



Design-Build is a method of project delivery in which ***one*** entity (design-builder) forges a ***single*** contract with the Owner to provide for architectural engineering design services and construction services.

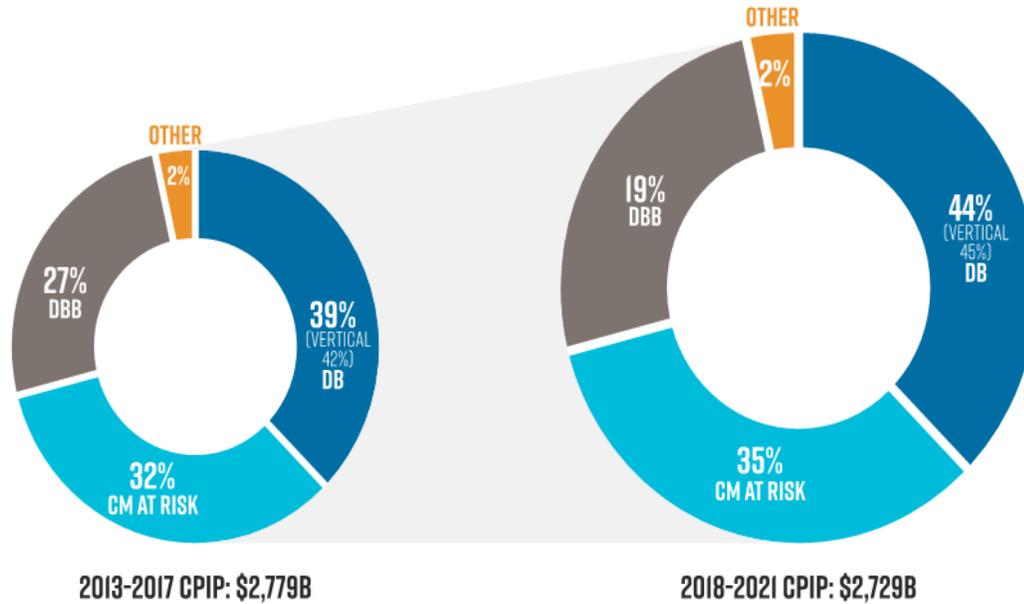


Project Delivery Performance Results



DBB= Design-Bid-Build
 CMR= Construction Manager at Risk (GCCM)
 DB= Design-Build

Design-build is anticipated to continue to gain market share over the 2018-2021 period.

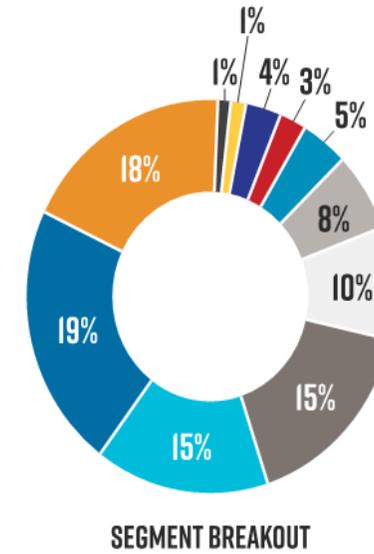


2013-2017 CPIP: \$2,779B

2018-2021 CPIP: \$2,729B

DISTRIBUTION OF DELIVERY METHOD UTILIZATION

Source(s): FMI Analysis of multiple sources



SEGMENT BREAKOUT

DISTRIBUTION OF MARKET

CPIP spending, 2018-2021



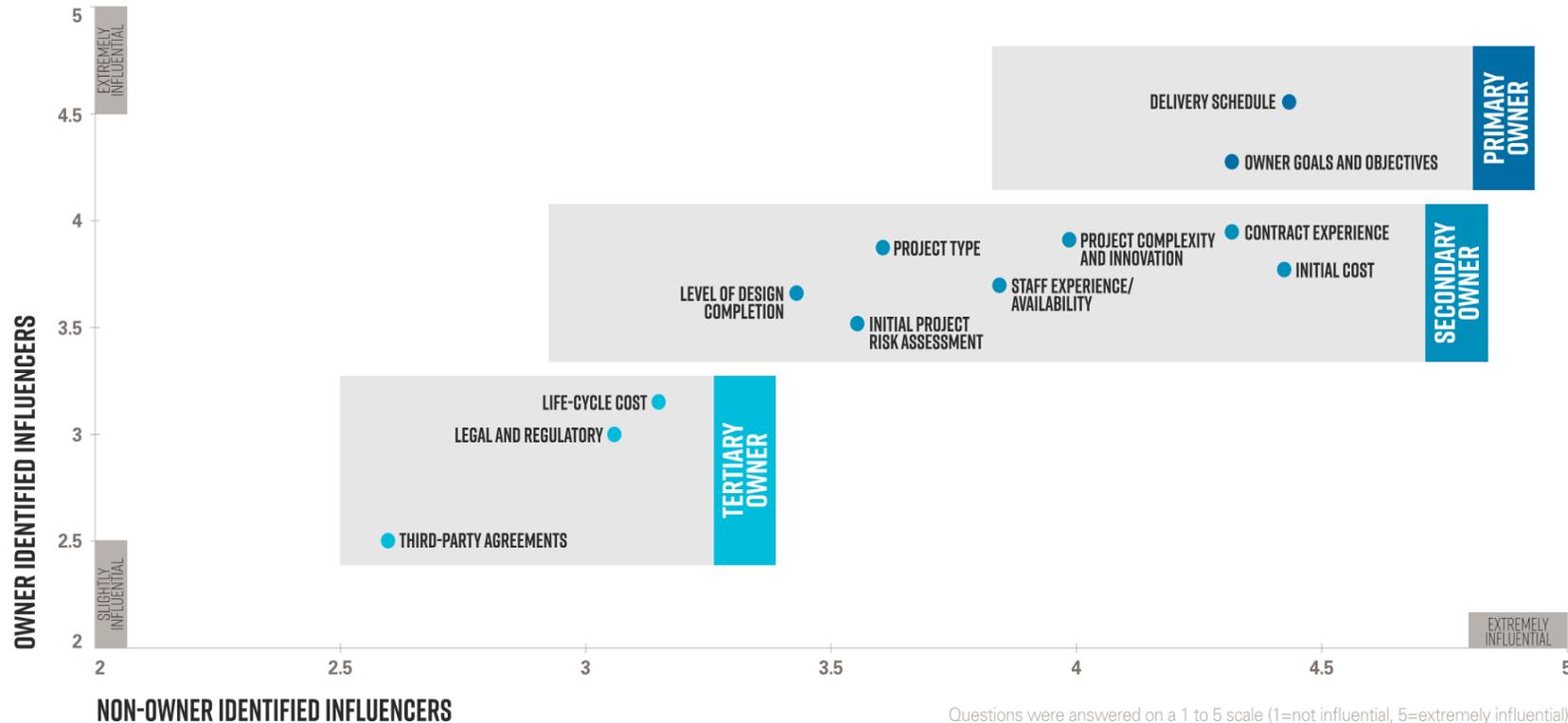
- Dissatisfaction with the adversarial nature and limitations of design-bid-build as well as increasingly challenging project characteristics and demands has resulted in greater interest in and use of design-build and other alternative delivery methods.
- Negative project owner experience and perceptions of design-bid-build are most influenced by limited opportunity for innovation, lack of a fast-track process and higher risk profile for the project owner.

Delivery schedule was the most influencing factor for owners when selecting a project delivery method.

PROJECT DELIVERY METHOD INFLUENCING CHARACTERISTICS

Weighted average of responses

Source(s): FMI Survey



Vinita Sidhu—

Principal, Site Workshop

The Big Room



POPULATION HEALTH FACILITY TEAM CHARTER

Project Charter

PROJECT VISION + GOALS

Project Vision

The University of Washington is poised to accelerate research and advancement in Population Health. The Population Health Facility will serve as a powerful catalyst for the University's new Population Health Initiative and be an idea laboratory and collaboration incubator. It will house the Institute for Health Metrics and Evaluation, the Department of Global Health, and elements of the School of Public Health, all of which will greatly benefit from close proximity. The facility will also provide central gathering spaces for faculty, students, staff, partners, and visitors from a wide range of disciplines across campus, the region, the nation, and the world to address important global health concerns.

Population Health Facility Goals

- Foster collaboration and connectivity amongst those working within the facility, with other programs and with researchers at the UW, local and global partners, and students;
- Promote healthy living within and around the new facility;
- Design space that is flexible and adaptable to meet the evolving needs of IHME, DGH, and SPH;
- Employ best practices in sustainable building to reduce energy and water use, lower life cycle costs and improve occupant satisfaction and health; and
- Support and further the institution-wide Population Health Vision.

TEAM BEHAVIORS + TOOLS

Our team will embrace the behaviors and utilize the tools identified below to ensure the design and construction methods and final products are appropriate to the campus and in keeping with the culture and mission of the Population Health Initiative.

Mutual Respect and Trust

We will foster an environment that promotes collaboration, and we will work as a team in the best interests of the project. Our successes and challenges are shared and we are dedicated to the success of the entire project team rather than specific individual parties.

Open Communication

We will communicate openly, honestly, and directly with timely information that facilitates individuals' contributions. We will behave with a "no blame" culture and recognize disputes early and resolve them promptly.

Reliable Promising

We will make and secure reliable promises as a basis for planning and executing the project.

Collaborative Innovation and Decision Making

We will make major decisions using a consensus-based structure for the benefit of the project.

Organization and Leadership

We will operate as a joint organization. Leadership shall be taken by the team member most capable with regard to the specific task.

Ownership of Outcomes by Project Participants

We will hold regular meetings throughout project definition, preconstruction/design, and construction/occupancy with all key participants to take leverage the collective potential of the combined knowledge and expertise of all parties.

Appropriate Technology

We will use the appropriate technology to enhance the collaborative process and improve the results. Design and construction coordination shall be digitally based, virtual, and shall use Building Information Modeling (BIM) technology.

Budget and Schedule Control

We will establish a Target Budget and Target Milestones (schedule) that include all major phases of the design and construction. The team will review budget and schedule updates on a regular basis and openly communicate any issues or concerns. All team members will share ownership of the project schedule, the project budget, and the project's quality.

Safety

Population Health promotes well being for all. Injuring workers in the process is contradictory to this mission.

Demonstrate a commitment to achieve or exceed UW equity business goals

The team is committed to providing the maximum practicable opportunity for participation in contracting by SBE, DBE, MBE, WBE, and MWBE and to exceed the UW business equity goals.

Population Health Facility Design Excellence

We will ensure the facility goals are embedded in all design decisions so the community understands why the facility is being built.

Campus Contribution

We will work to make a lasting contribution to the campus and be mindful of the desired future character of the area, and responsive to design and development standards and guidance as described in the 2018 Campus Master Plan and other appropriate documents.

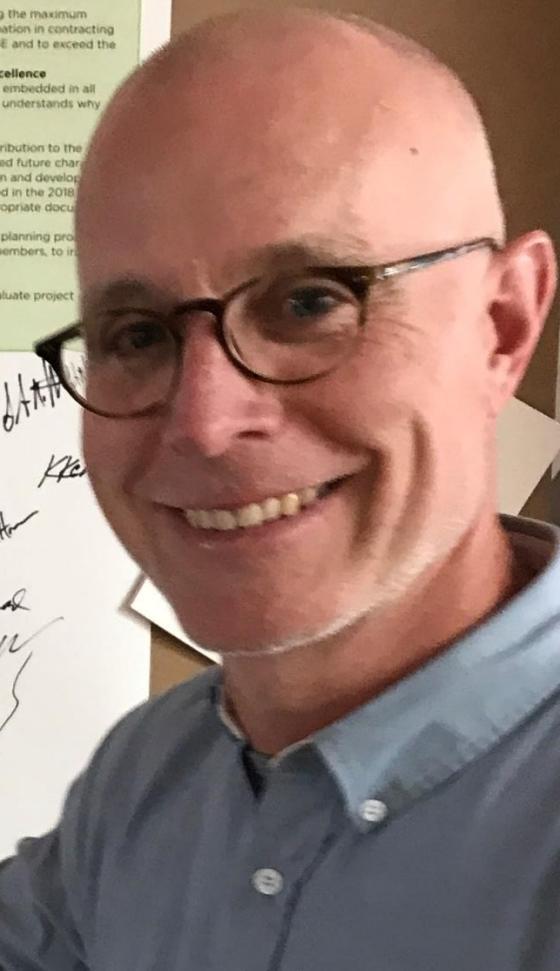
High Performance Delivery

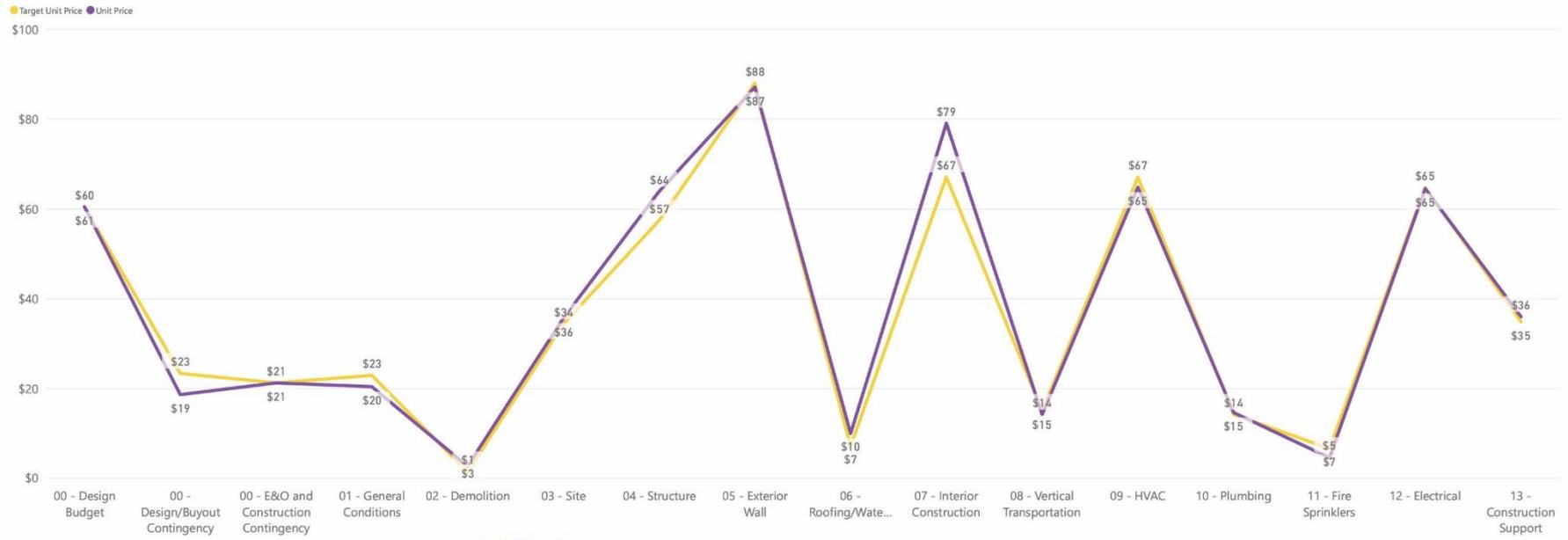
We will conduct an intensified early planning process with the participation of key team members, to increase our efficiency during execution.

High Performance Team

We will establish and continually evaluate project

[Handwritten signatures and names on the whiteboard, including: J. Al, Steve, Dave Anderson, King, (GO TEAM!), Annie Sullivan, etc.]



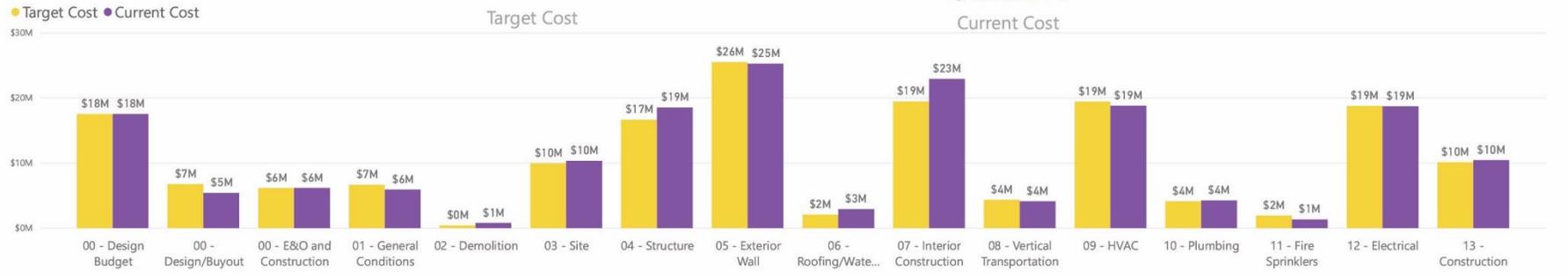


\$170.0M

Target Cost

\$173.5M

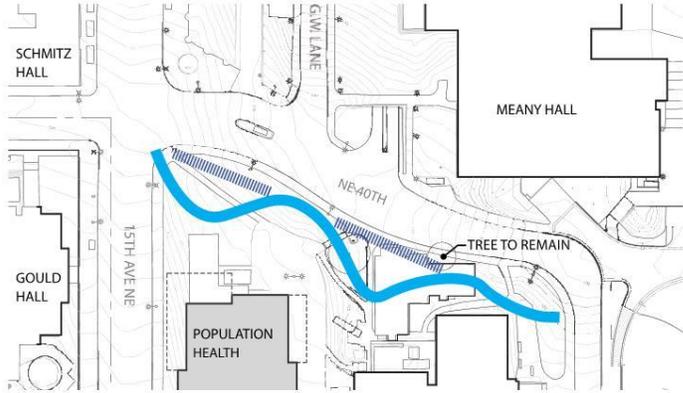
Current Cost



Decision Tools

TARGET: TO PROVIDE ADA CIRCULATION AT NE 40TH ST ENTRY

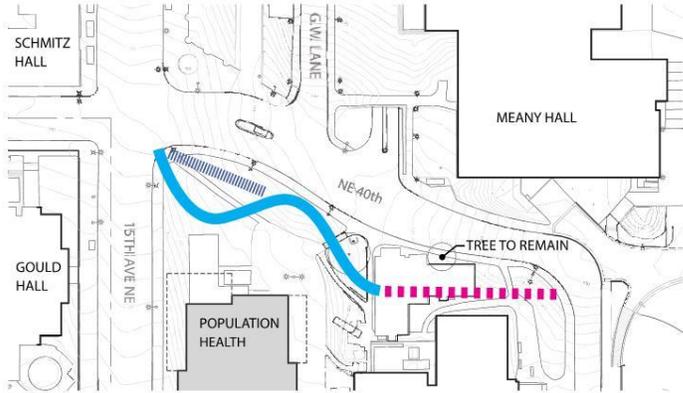
ADA ROUTE - OPTION 1



LEGEND



ADA ROUTE - OPTION 2



Elm Hall ADA Circulation Path



Portage Bay Vista Circulation

TARGET: TO PROVIDE ADA CIRCULATION AT NE 40TH ST ENTRY

A goal of this project is to provide ADA access along NE 40th from 15th Ave NE to Stevens Way and Grant Lane. There has been some discussion regarding the presence of handrails along the primary route without a definitive decision if it is acceptable or not.

Each option hits key floorplate grades at Population Health and Architecture Hall building entries and both aim to preserve the existing Ponderosa Pine on the north side of Guthrie Annex 4.

OPTIONS:

- Option 1 provides a winding ADA accessible route at less than 5% slope combined with a direct pedestrian route with stairs. The ADA route avoids handrails and has the potential for seamless integration with garden and court spaces along this route.
- Option 2 provides a winding ADA accessible route in the west portion at less than 5% slope combined with a direction pedestrian route with stairs. The remaining section is a single ADA accessible pedestrian route with handrails only in the section north of Architecture Hall.



Building Team Spirit

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