



GEORGIA TECH SOLAR DECATHLON 07



The Georgia Tech Solar Decathlon Team will design and construct a truly innovative house which harnesses and celebrates the sun's power. Integrating both architectural and engineering principles, it will seek to critically advance inventions in solar technology. Asking the following question: "Is the attainment of solar efficiency and comfort possible in the context of an ever increasing desire for spatial and architectural transparency?" As in the Greek tale of Daedalus' son Icarus who embarked on a flight to the sun, so too the modern fascination with building lighter and more transparent buildings is supposedly at odds with the need for energy conservation and ecological building. And yet, at no other time in the history of construction have advances in materials technology and systems design rendered Icarus' vision more realizable. It is to the exploration of this paradox that Project Icarus is dedicated.

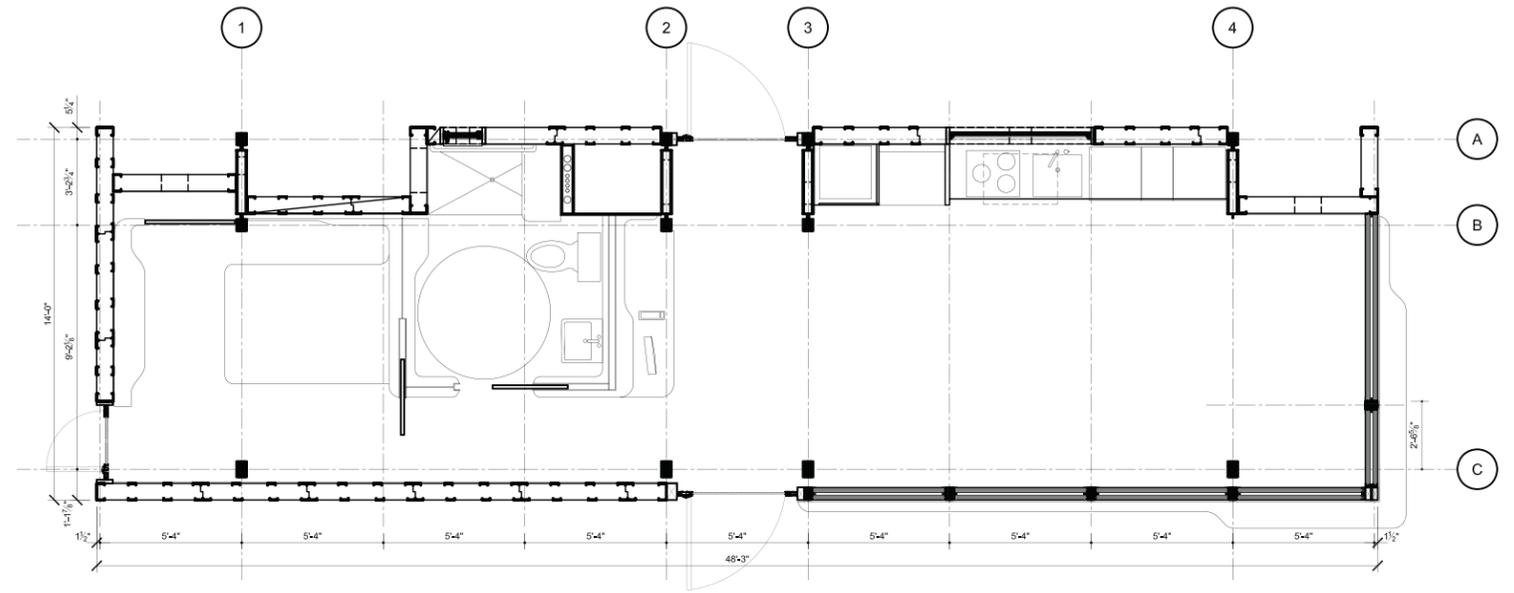
The Solar Decathlon is a project of the U.S. Department of Energy (DOE) in partnership with DOE's National Renewable Energy Laboratory.



CONSTRUCTION DRAWINGS [REV]

PROJECT ICARUS: "Sustaining Life with Light"

08.07.2007



TEAM SPONSORS





revision	description	date

consultants:



prepared by:
GT SD Team
 date drawn:
08.05.07



scale: **NTS**

PHYSICAL MODELS



revision	description	date

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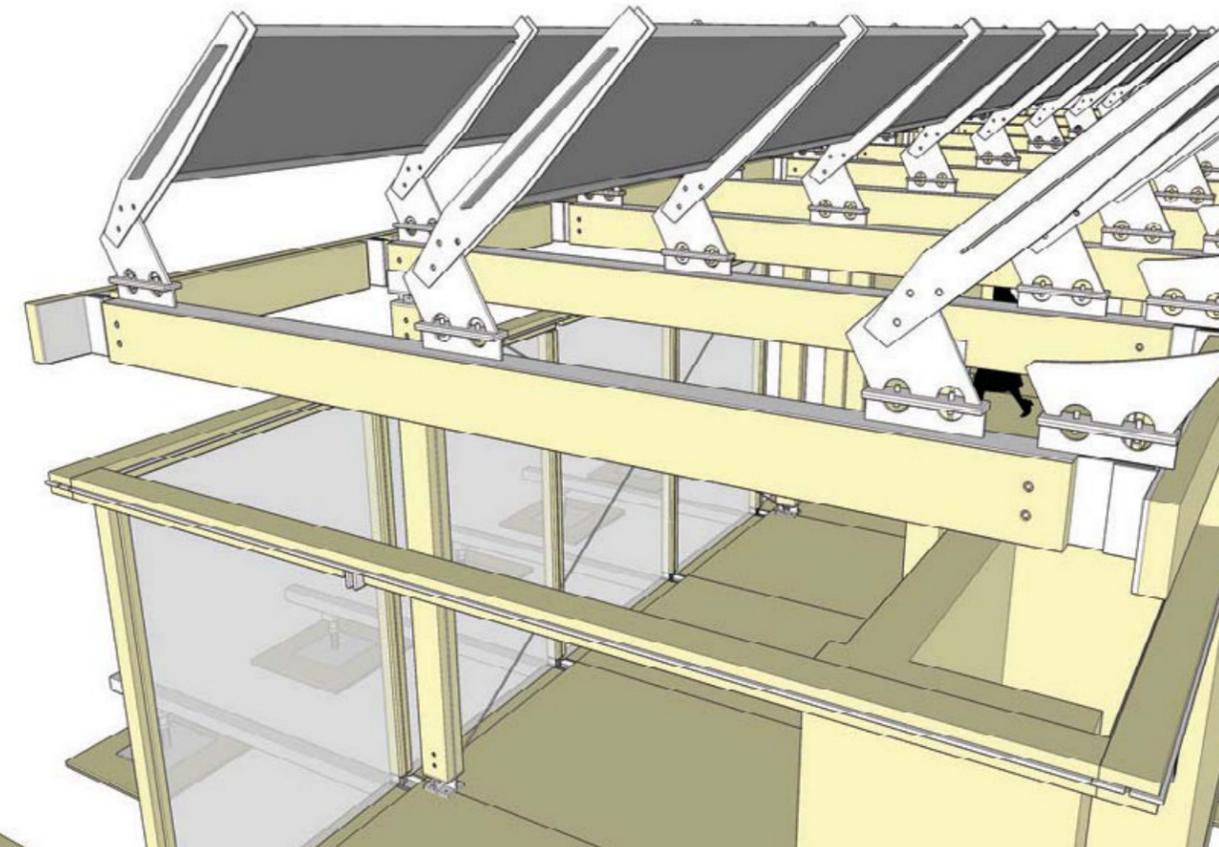
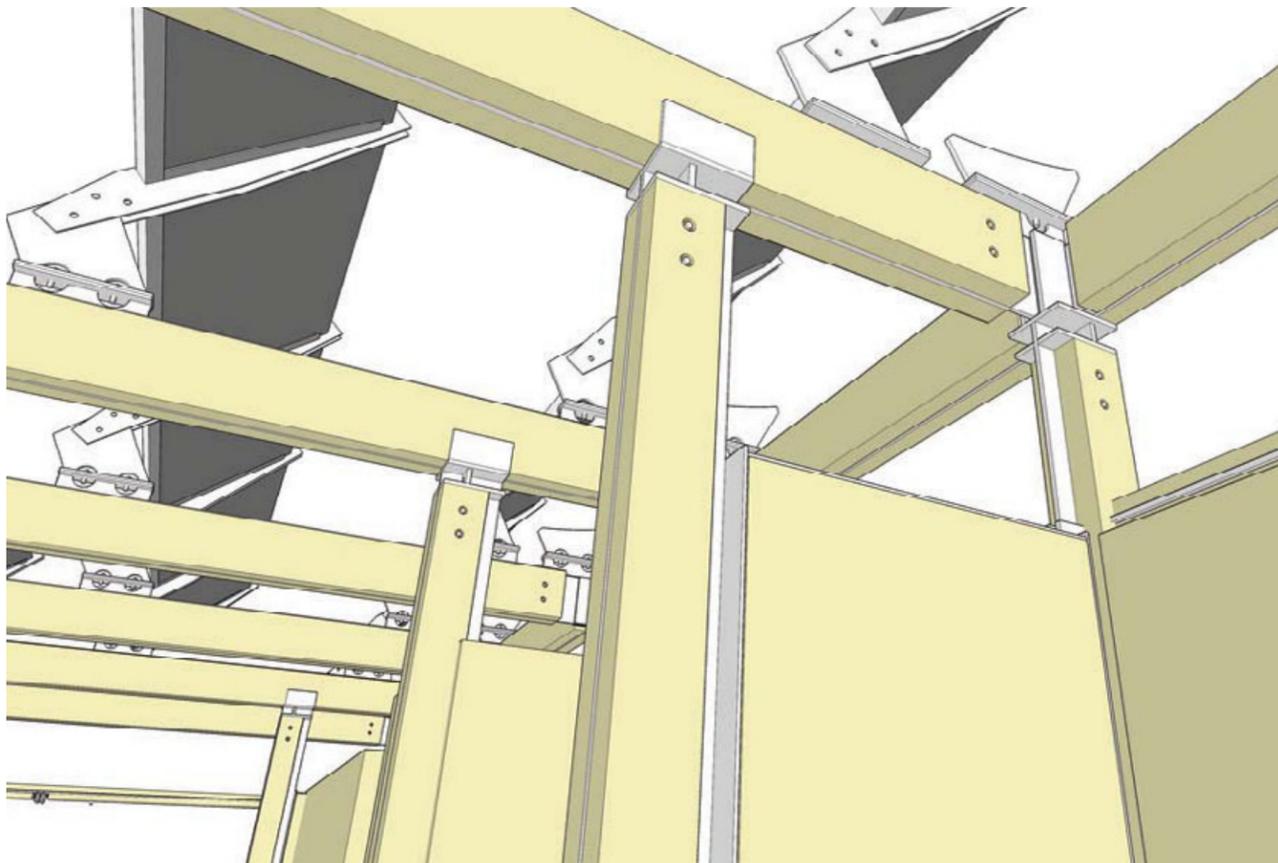
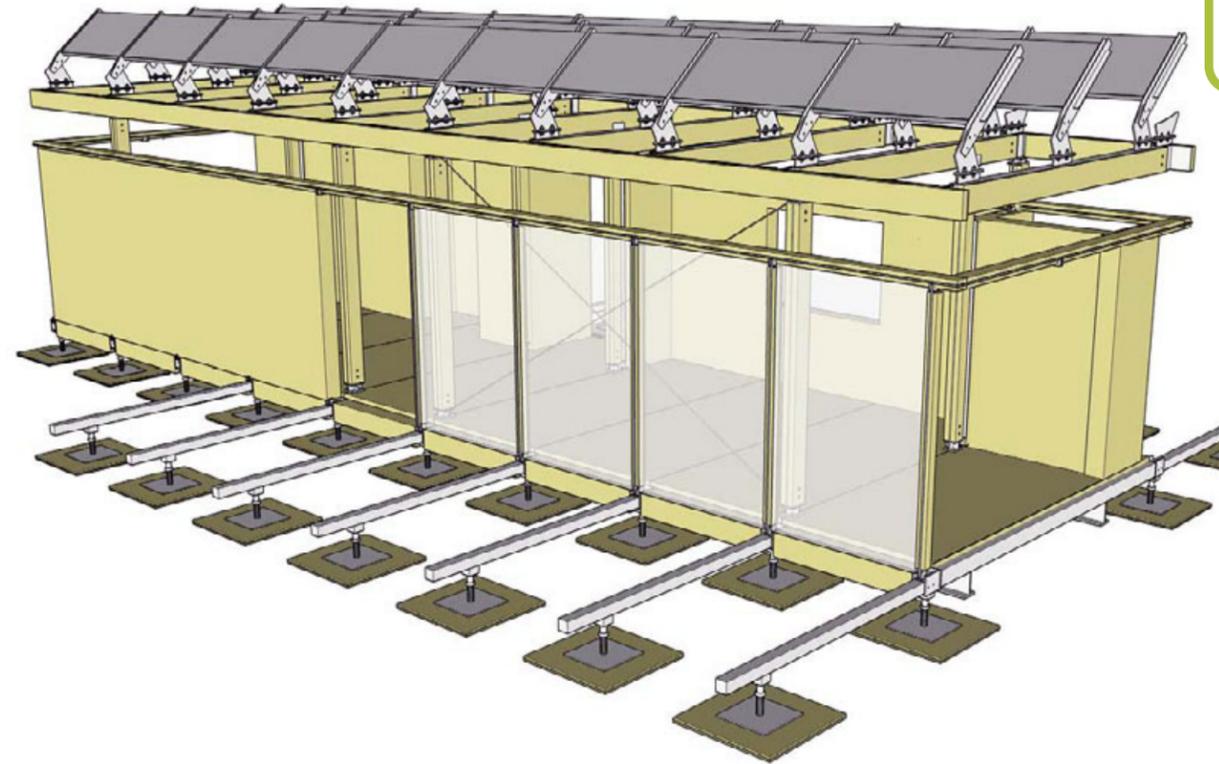
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08.05.07



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PROTOTYPES

G.0.3



date

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consultants:



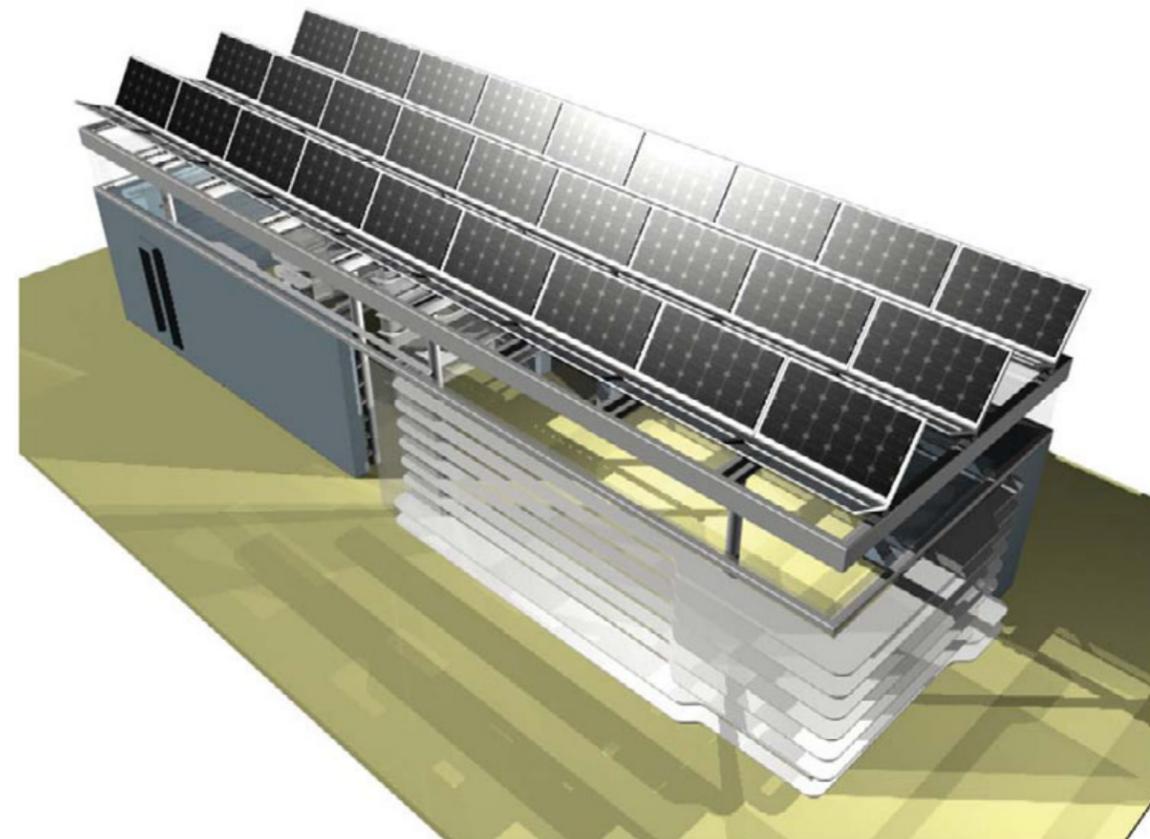
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Jamie O'Kelly
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08.05.07



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BUILDING STRUCTURE



revision	description	date

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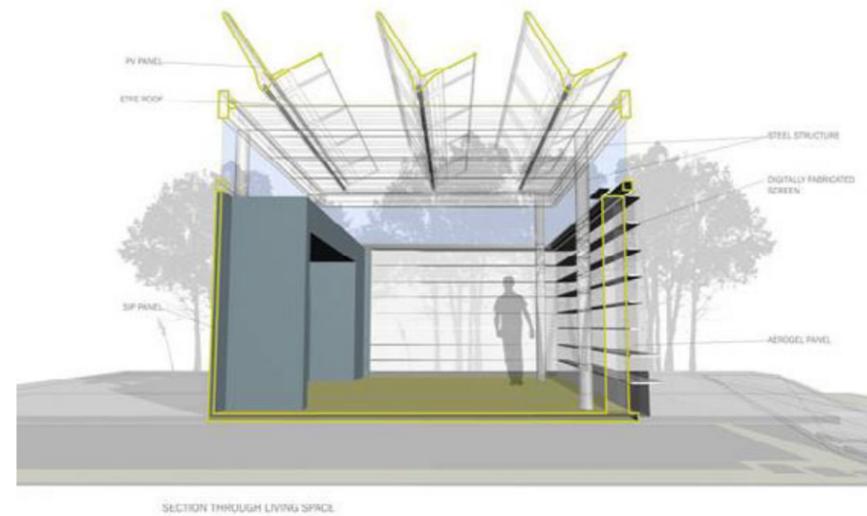
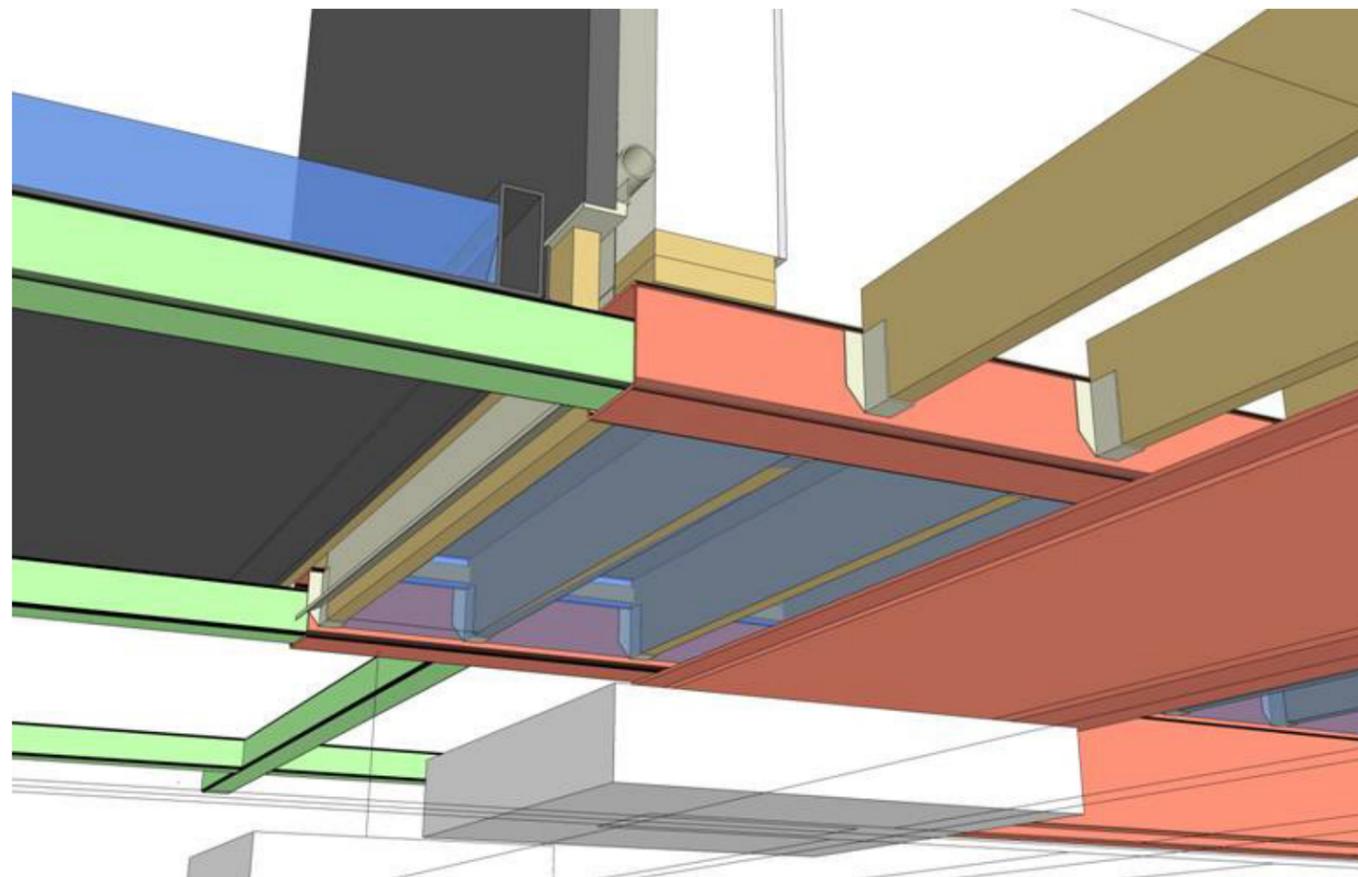
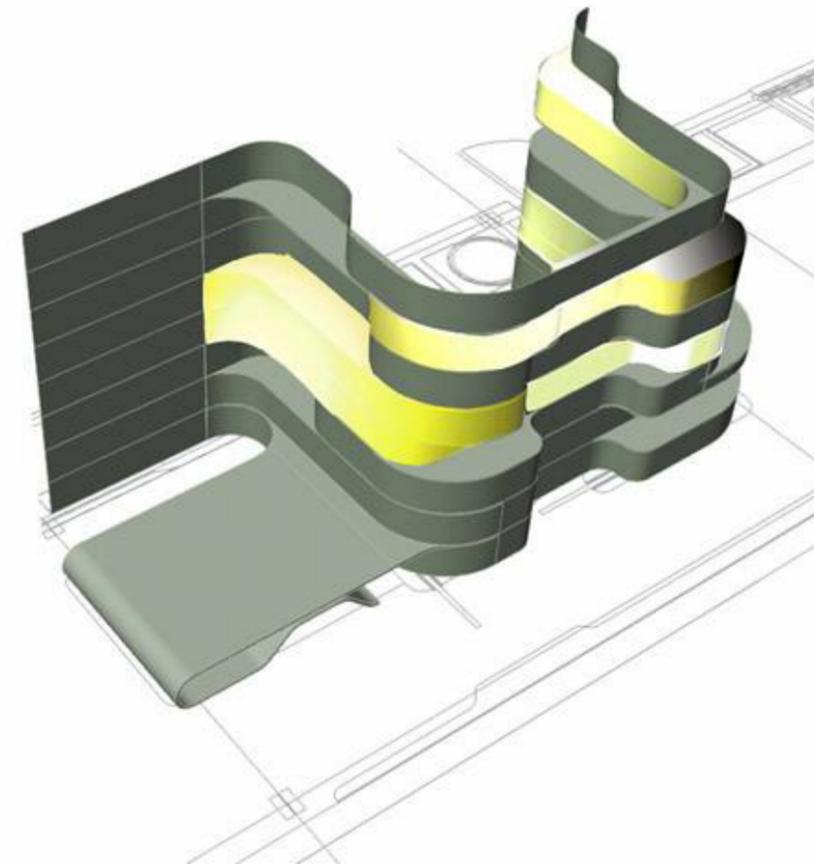
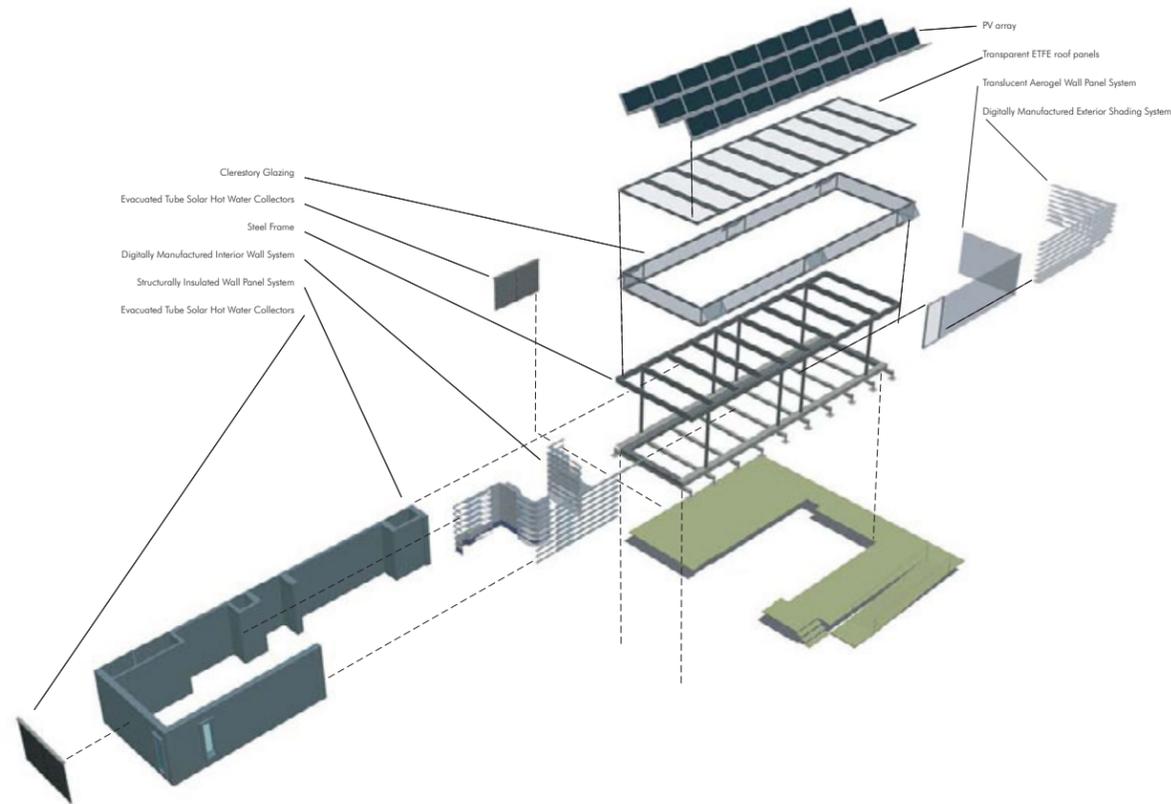
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Vishwadeep Deo
 date drawn:
08.05.07



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DIGITAL MODELS



date	description	revision

consultants:



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GT SD Team
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ANALYTICAL MODELS



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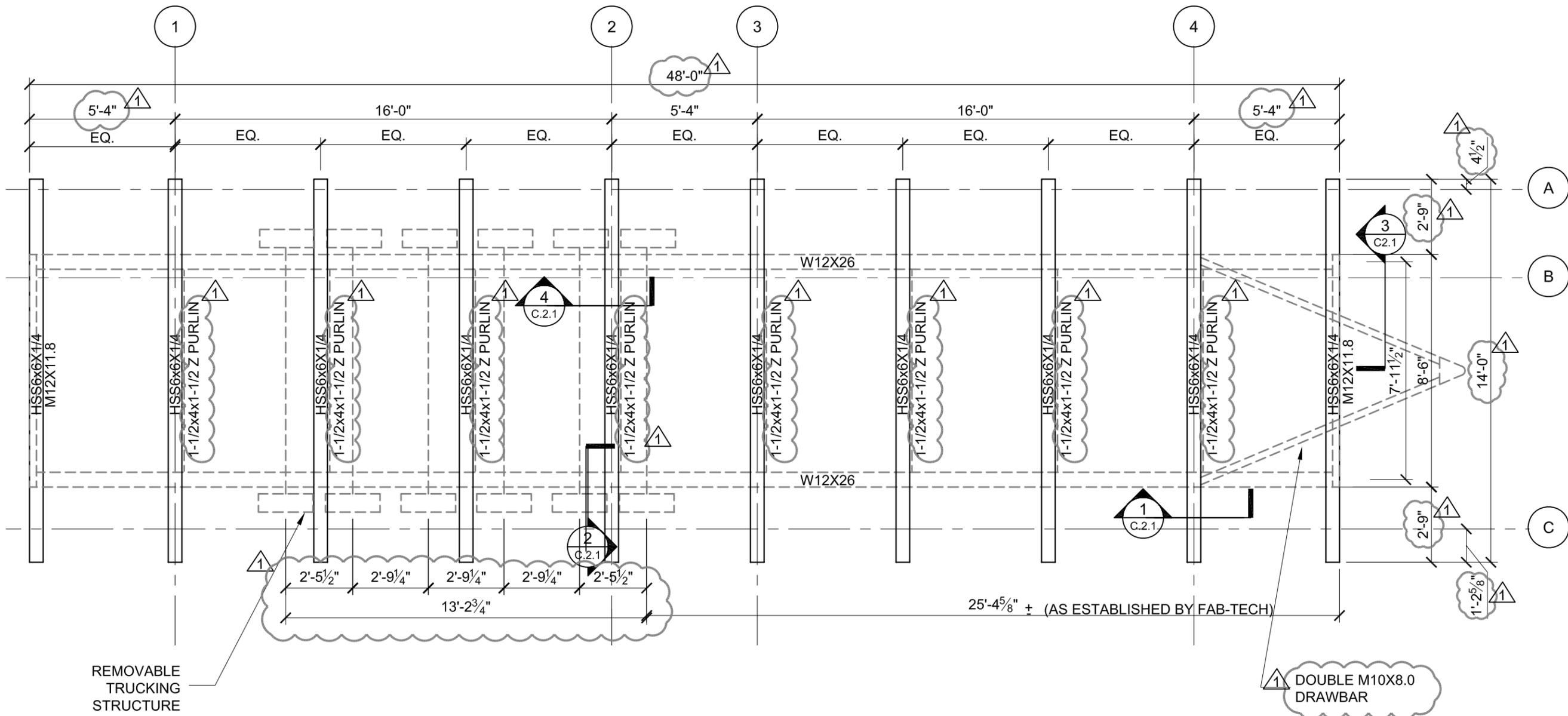
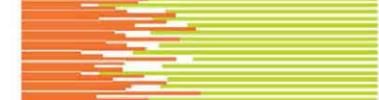
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Imagine Lab Staff
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08.05.07



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GAME THEORY MODEL

G.0.7

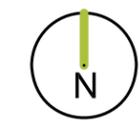


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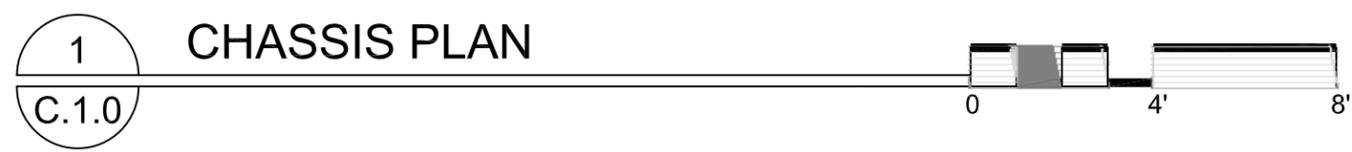
prepared by:
C.VAN KLEY
date drawn:
3.06.07



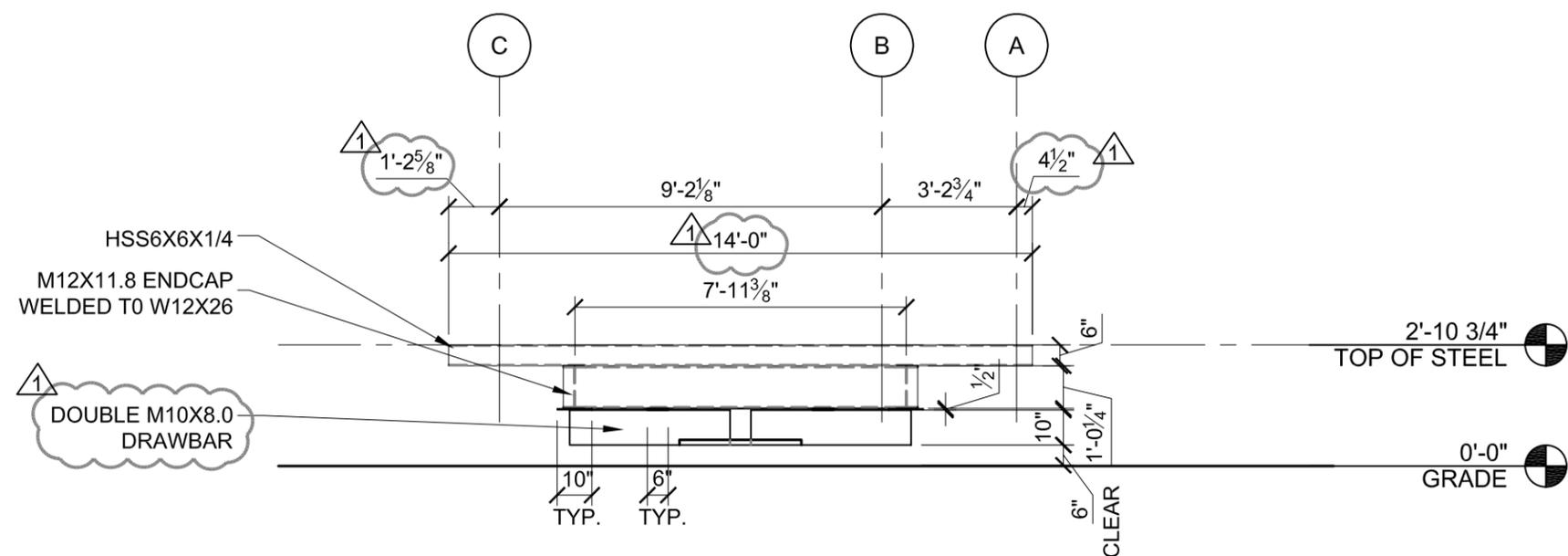
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CHASSIS PLAN

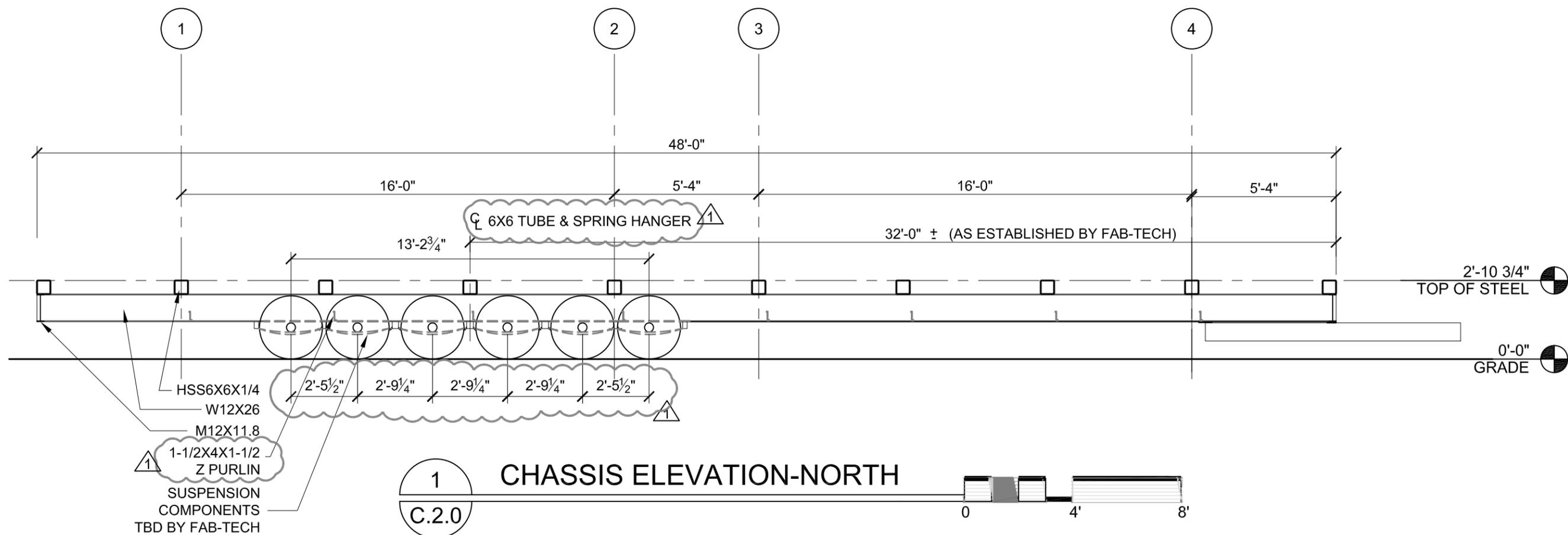
- NOTES**
- FAB-TECH TO VERIFY THICKNESS OF ALL CHASSIS STRUCTURAL TUBING, EITHER 1/4" OR 3/8".



C.1.0



2
CHASSIS ELEVATION-EAST
C.2.0



1
CHASSIS ELEVATION-NORTH
C.2.0

revision	description	date
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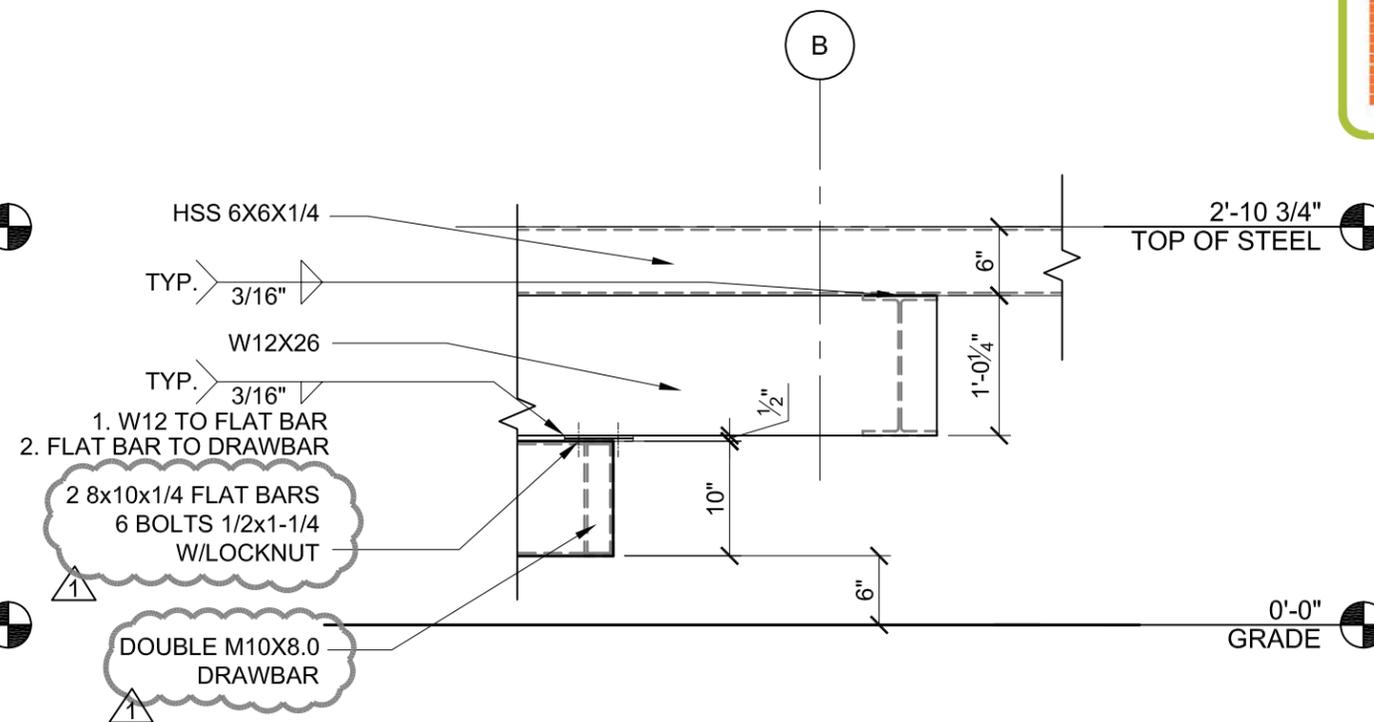
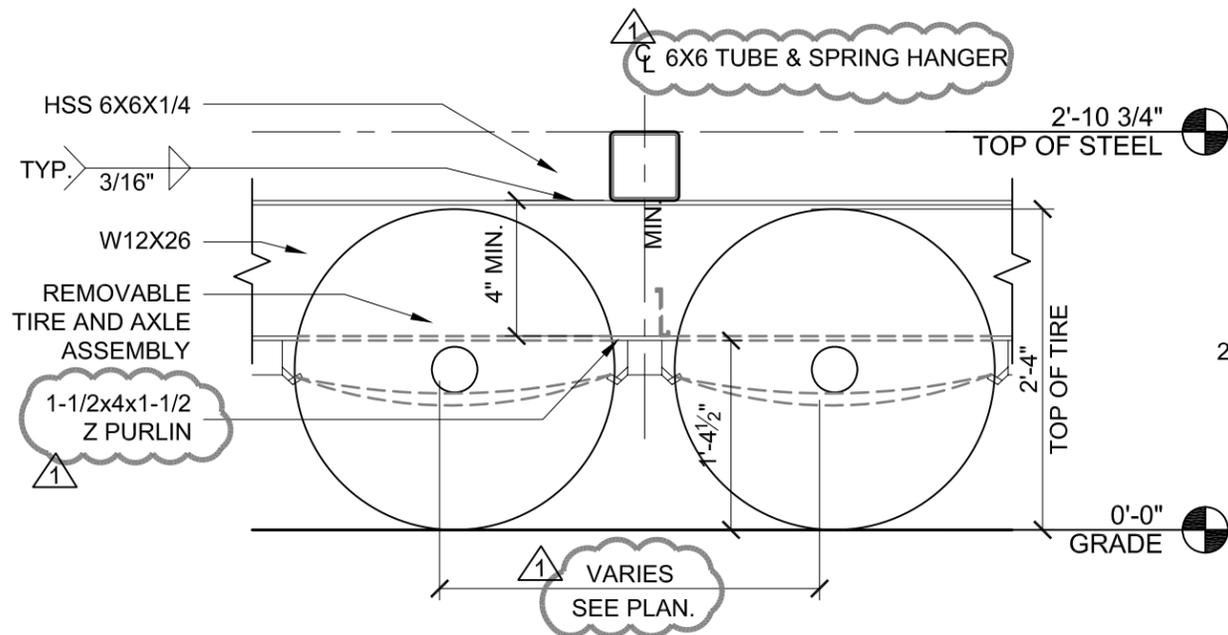
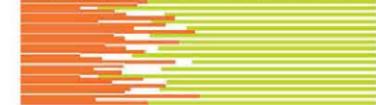
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C.VAN KLEY
date drawn:
3.06.07



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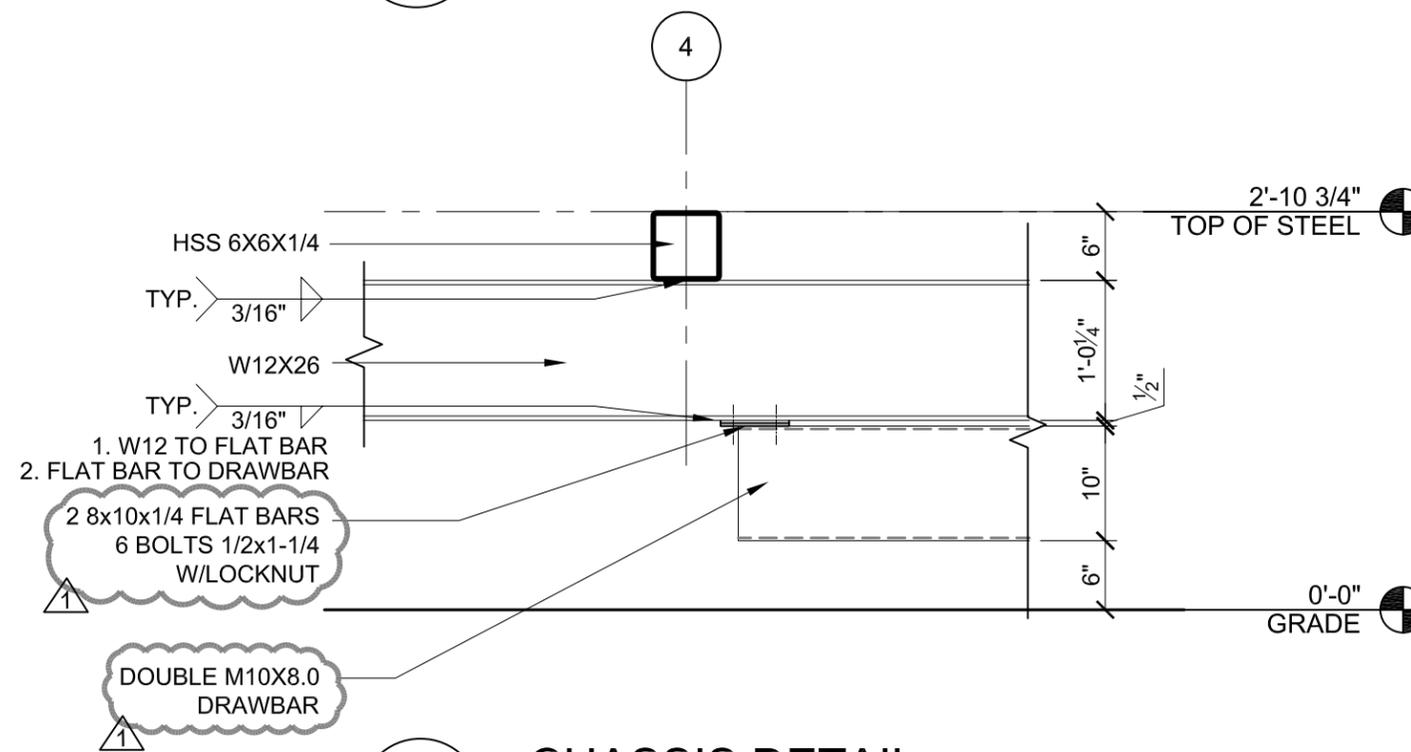
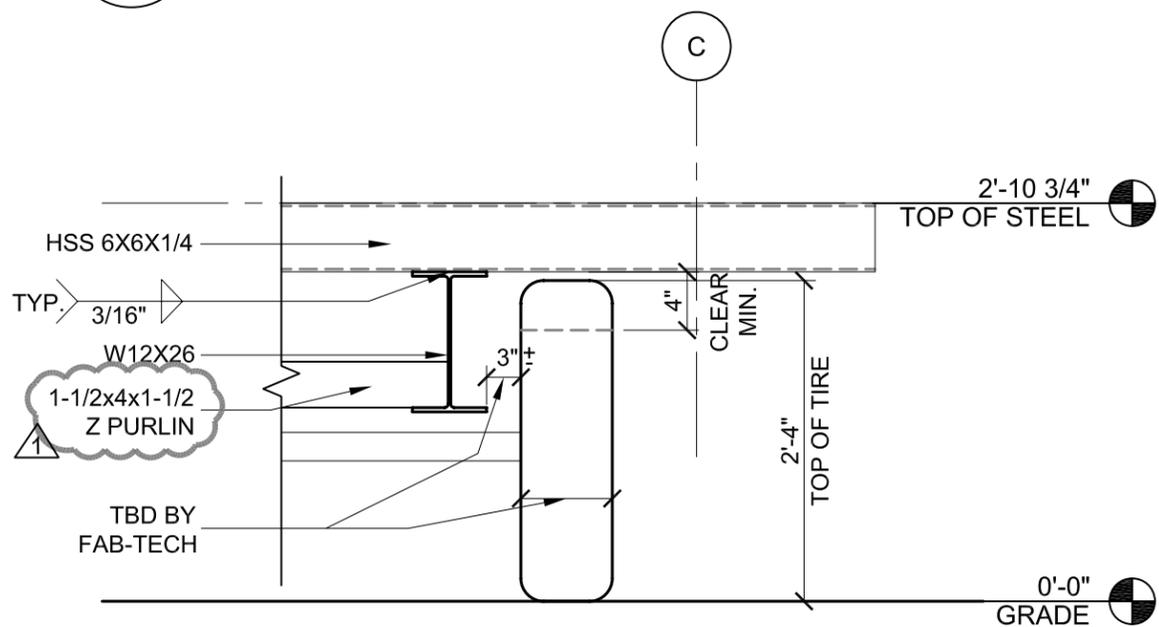
C.2.0

CHASSIS ELEVATIONS



4 CHASSIS ELEVATION
C.2.1 *ALL WELDS TO BE VERIFIED BY FAB-TECH

3 CHASSIS ELEVATION
C.2.1 *ALL WELDS TO BE VERIFIED BY FAB-TECH



2 CHASSIS DETAIL
C.2.1 *ALL WELDS TO BE VERIFIED BY FAB-TECH

1 CHASSIS DETAIL
C.2.1 *ALL WELDS TO BE VERIFIED BY FAB-TECH

revision	description	date
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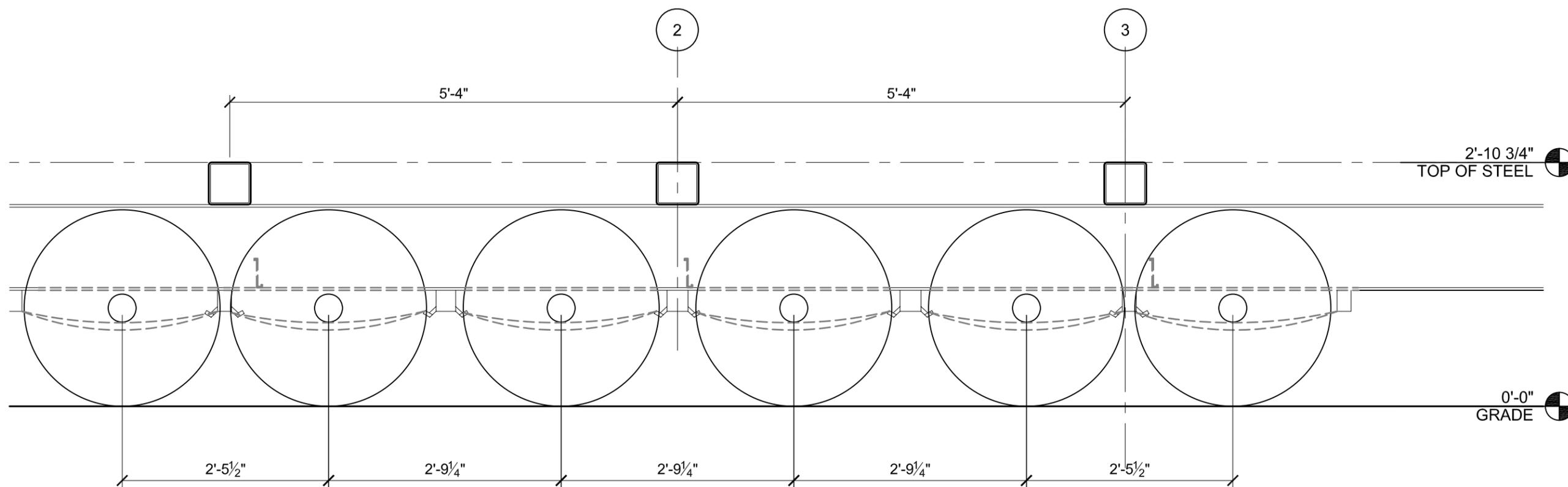
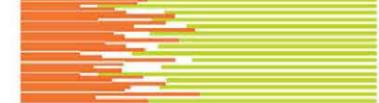
prepared by:
C.VAN KLEY
date drawn:
3.06.07



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C.2.1

CHASSIS DETAILS



revision	description	date
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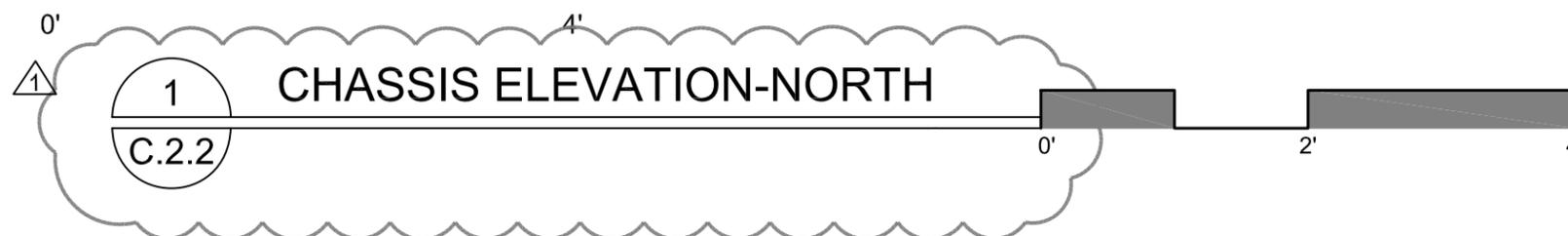
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prepared by:
C.VAN KLEY
date drawn:
3.26.07



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ENLARGED CHASSIS ELEVATION

C.2.2

Site Operations Plan Revised 08.07.07

This Site Operations Plan covers the following areas, as they are known to us today;

1. Vehicles
2. House Assembly Time line and Activities
3. House Disassembly Time Line and Activities
4. Special Equipment
5. Disposal or Recycling of Materials
6. PPE Requirements

1. VEHICLES

3 Vehicles: one for delivery of the house and two for delivery of support materials and equipment. All will enter together, house first and support trucks second.

a. Truck One: Cab + House

The truck pulling the house will be a semi-truck with cab. The house has a built-in chassis with six axles. This truck will carry only the house. It will enter the site first, and once the chassis is in position, the cab of this truck will drive away for the duration of the competition.

The overall dimensions of the house truck are:

CAB + house = CAB + 14'-6" (wide) by 48'-6" (long) x 14'- 6" (high).
The overall weight of this truck is approximately; CAB + 40,000 pounds.

It will have eight or nine axles: six on the house chassis and two or three on the cab.

b. Trucks Two and Three: All other items needed for the Competition

One truck will be a Tractor-Trailer, the other a 17- foot closed box - panel trucks.

Cargo Description

Bottle jacks, and tie downs
Foundation pads and piers
Decking parquets, steel substructure, deck railing and planting
Power and hand tools
Solar panels, evacuated tubes, batteries
PV array support
Water tanks and Rain Water System
Solar car
Scaffolding
Furniture, small appliances, and household articles
Exhibition design panels
Control systems for the house not attached the house

The 2nd and 3rd trucks will follow the house directly onto site. As the house is positioned, the remaining trucks will arrive in position parallel to Decathlete Way but on our team's site, where the piers and jacks will be unloaded. The remaining trucks will stay onsite until the deck is assembled assuming dry conditions. Once the deck is assembled, all remaining components within the remaining trucks can be unloaded, either to be stacked on the deck itself, or loaded into the house. If conditions are wet, the trucks should stay onsite longer to allow for dry storage of all materials not yet unloaded.

The dimensions of the Tractor Trailer are: 53' (long) by 8' (wide) by 8' (high). Its weight is approximately: 40,000 pounds.

The dimensions of the smaller panel truck are: 17' (long) by 8' (wide) x 8' (high) .

Its weight is under 15,000 pounds.

2. HOUSE ASSEMBLY TIME LINE AND ACTIVITIES

Stage One – Arrival, All Teams working together	(18 HRS)
Stage Two – Three Separate Team working	(24HRS)
Stage Three – Final Walkthrough	(10 HRS)

Stage One – Arrival- All Teams working together (18 HRS)

The house will arrive in one module that will be approximately 14'-6" wide by 48' long, weighing about 40,000 pounds. All other components are stored on the remaining trucks, with the car and water tanks being the largest modules. The remaining trucks will include a ramp for ease of unpacking.

1. Arrival (1 HR)

Enter Washington DC at midnight and proceed to staging area at the mall, awaiting turn to proceed to building site. Inspect house for damage due to travel. Note any repairs needed.

2. Site (1 HR)

Survey site for obstructions in the ground and grade differences. Ensure that site is cleared and ready to receive house. Place protective pads on ground along route for truck. Identify location of corner piers.

3. House Arrival (1 HR)

The house arrives on the site and drives into position. Bottle jacks secure the house temporarily. Cab drives away, wheels are removed from the chassis and stored on second truck during competition, and leveling of the house commences onto permanent piers.

4. Leveling (3HRS)

Piers will be housed in the remaining trucks which will follow the house onto the site. Once piers and foundation pads are placed beneath the chassis, they will be aligned with the steel plates welded to the underside of the chassis, ensuring proper alignment. If there are any obstructions, piers will be moved along the underside of the chassis into the secondary location and a steel receiving plate will be attached to the top of the pier and secured to the underside of the chassis. As soon as piers are in place, the house will be lowered and secured with bolted connections and tie downs. After all connections are inspected, construction will begin.

5. Solar Panel Array and Supports Installation (6HRS)

After chassis is leveled, scaffolding is erected around the house to aid in installation of solar panel array. Solar panel frames are attached to mounts already in place on the roof. Panels will then be lifted to the roof and installed by trained installers. All persons working on the roof will be equipped with proper fall protection and training. Individuals not working on the roof will maintain a safe distance and proceed with the unloading of the remaining trucks. Once all panels are installed and wiring completed, the scaffolding will be dismantled and stored on the second truck.

6. Deck Installation (6HRS)

The site will be surveyed and piers will be located in their proper placement. Once piers and foundation pads are in place, beams will be inserted into the end of the HSS members of the chassis and attached.

They will be temporarily braced on bottle jacks. Once beams are in place over piers, they will be individually lowered and attached to piers. Once all beams are in place and level, joists will be installed between beams. Deck sections will then be removed from the second truck and inserted onto the deck. After checking to ensure the deck is still level, ramps in the front and rear will be installed. All railings will be installed at this time, along with deck landscaping elements.

Stage Two – Three Separate Team Working (24 HRS)

Team 1	Qualified Student Installers
Team 2	Systems Team
Team 3	Architecture Team

Team 1 Qualified Student Installers

1.a Solar Façade Panel and Battery Installation

The solar thermal loop is installed and checked. The façade PV panels are then installed and wired by qualified installers. After all panels are installed, the battery bank is installed beneath the deck. All connections will be checked at this time.

1.b Evacuated Tube Installation

The evacuated tubes will be installed on the rear deck by qualified installers and the system will be hooked up and tested.

Team 2 Systems Team

2.a Systems and Appliance Hookup and Installation

Any appliances and control equipment not included in the house during shipping will be installed at this time. All systems will be checked for operability and monitoring components will be checked as well.

2.b. Plumbing Hookup

With chassis level and deck in place, the plumbing hookup can begin. Supply and waste tanks are located at the rear of the house, and rainwater catchment tanks are placed beneath the deck on the east and west. Plumbing lines and fittings are then installed and checked beneath the house and between the house and the tanks. The system is then filled with air to test for leaks and is then ready to receive water.

Team 3 Architecture Team

3.a Interior

Temporary crossbracing will be removed and stored in the second truck. Kitchen window bracing will be removed at this time. Furnishings will be installed after unpacking from the remaining trucks. The interiors will be cleaned to remove transportation dust and debris. Lighting is installed and tested. Touring information and displays within the house are installed.

3.b Exterior

Landscaping tanks and planters are installed around the deck. All planters are raised on blocks to protect the turf. The area is landscaped. The car is placed at the rear of the house until competition begins. Display signage is erected around the deck and along Decathlete Way. Exterior cladding not shipped on the house is also installed at this time, including exterior louvers.

date	description	revision

consultants:



prepared by:

J. Mabry

date drawn:

08.05.07



scale: **NTS**

T.1.0

SITE STAGING TIMELINE

Site Operations Plan Continued
Revised 08.07.07

Stage Three - Final Walkthrough (10 HRS)

In time remaining, all systems components are rechecked for operability, PVs and batteries are inspected, water tanks checked, and any remaining issues are completed.

3. HOUSE DISASSEMBLY TIME LINE AND ACTIVITIES

Stage One – Disassembly, Three Separate Teams (12 HRS)

Stage Two – Departure, All Teams working together(10 HRS)

The disassembly will be the reverse of the assembly plan. Several time consuming portions of the assembly plan will not be required during the disassembly, notably straightening of the interior of the house, placing of the landscaping, and most importantly, the time spent attempting to properly level the chassis and the decking components. Additionally, systems will only need to be disassembled, not checked and tested. Departure will simply consist of hooking up the cab to the chassis and the repacking of components onto the second truck, which will arrive ahead of the house truck, instead of the time spent aligning the truck with the proper house placement.

Stage One – Disassembly, Three Separate Teams (12 HRS)

- Team 1 Qualified Student Installers
- Team 2 Systems Team
- Team 3 Architecture Team

Team 1 Qualified Student Installers

1.a Solar Façade Panel and Battery Removal

The battery bank is uninstalled. The façade PV panels are then unwired and uninstalled. The solar thermal loop drained into a sealed storage container and removed.

1.b Evacuated Tube Removal

The evacuated tubes will be removed by qualified installers and the system will be drained into a sealed storage container.

Team 2 Systems Team

2.a Systems and Appliance Removal

Any appliances and control equipment not included in the house during shipping will be removed at this time.

2.b. Plumbing Disconnect

The system is drained into the waste tank. Plumbing lines and fittings are then disconnected. Supply and waste tanks are located at the rear of the house, and rainwater catchment tanks are returned to the truck.

Team 3 Architecture Team

3.a Interior

Temporary cross bracing will be reinstalled. Kitchen window bracing will be refitted. Furnishings will placed on the trucks.

3.b Exterior

Landscaping tanks and planters are returned to the truck. Landscap-

ing is returned to the truck. The car is returned to the truck and locked down for transport. Exterior cladding not shipped on the house is also removed at this time.

Stage Two – Departure, All Teams working together (12 HRS)

The house will depart in one module as it arrived. All other components will be re-stored on the remaining trucks.

1. Deck Removal (3 HRS)

All railings and remaining decking landscaping elements are removed. The front and rear ramps are disassembled. Deck sections are removed and placed on trucks. Joists and beams are removed. The beams will be braced on temporary bottle jacks, and the piers removed and stored. The beams themselves will then be removed and stored, along with the bottle jacks.

2. Solar Panel Array and Supports Installation (4 HRS)

Scaffolding is erected around the house. All panels are dewired and removed from the roof. Solar panel frames are then disconnected and lowered from the roof.

3. House Movement Preparation (2 HRS)

Tiedowns are disconnected. Temporary bottle jacks are placed beneath the chassis. Nuts are removed from securing bolts on the piers, and bottle jacks then take the weight of the house. Piers are removed and reloaded onto trucks.

4. House Hookup Preparation (1 HR)

The cab returns to the house and awaits hookup. The wheels are reinstalled. The cab is reconnected. The bottle jacks are lowered and the cab and ground take the weight of the chassis.

5. Site (1 HR)

Site is inspected for remaining debris and once clean to pre-competition state, departure is ready.

6. Departure (1 HR)

The trucks exit the Mall and depart for Georgia.

4. SPECIAL EQUIPMENT

Scaffolding

The only special equipment needed will be scaffolding that can be disassembled for transport. This will only be used to install the roof PV modules and will incorporate the necessary fall protection.

Generator

Generators conforming to noise restrictions will be used during the full power construction phase.

5. DISPOSAL OR RECYCLING OF MATERIALS

Small scraps

The house will be arriving at the Mall fully constructed but in need of assembly. This being the case, there should be very little material needing to be disposed of or recycled. All necessary components of the house will arrive in the remaining trucks, and any scrap, blocking, etc. can be stored on the second truck for disposal/recycling or can return with the team at the end of the competition. The only disposal or recycling necessary would include packing of previously uninstalled components such as controls equipment, appliance packaging, and

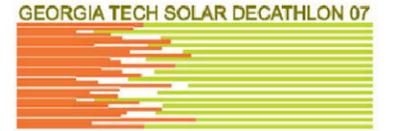
food and beverage packaging and containers consumed by Decathletes. This is estimated to require two 65 gallon containers.

6. PPE REQUIREMENTS

Personal equipment, team equipment

Every team member will be required to wear properly fitting PPE, to be worn at all times while on site, including steel toe boots, safety glasses, long pants, short sleeves at a minimum, and hard hats.

Also onsite will be protection equipment for various activities, such as fall protection, ear and hand protection, electrical protection, and other such equipment as deemed necessary by the activity.



revision	description	date

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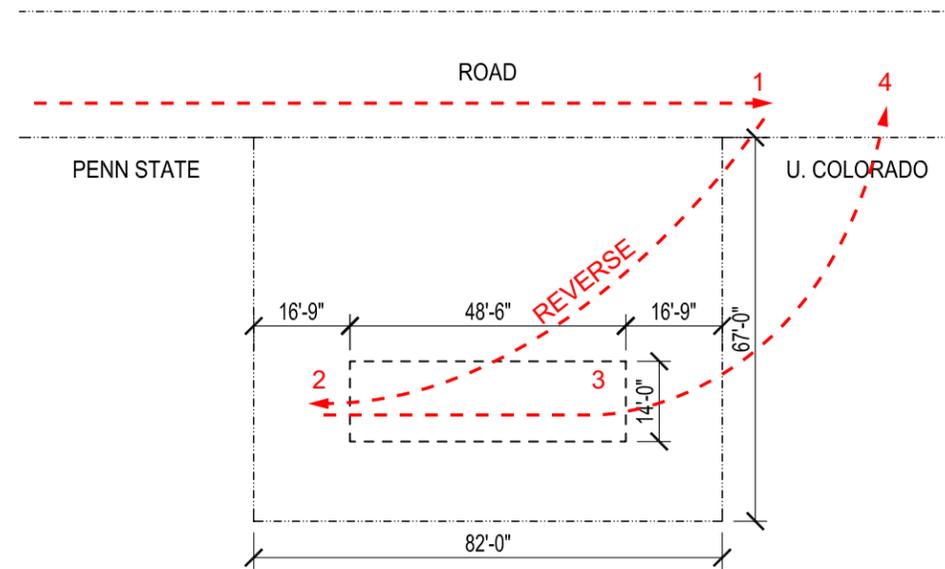
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J. Mabry
 date drawn:
08.05.07



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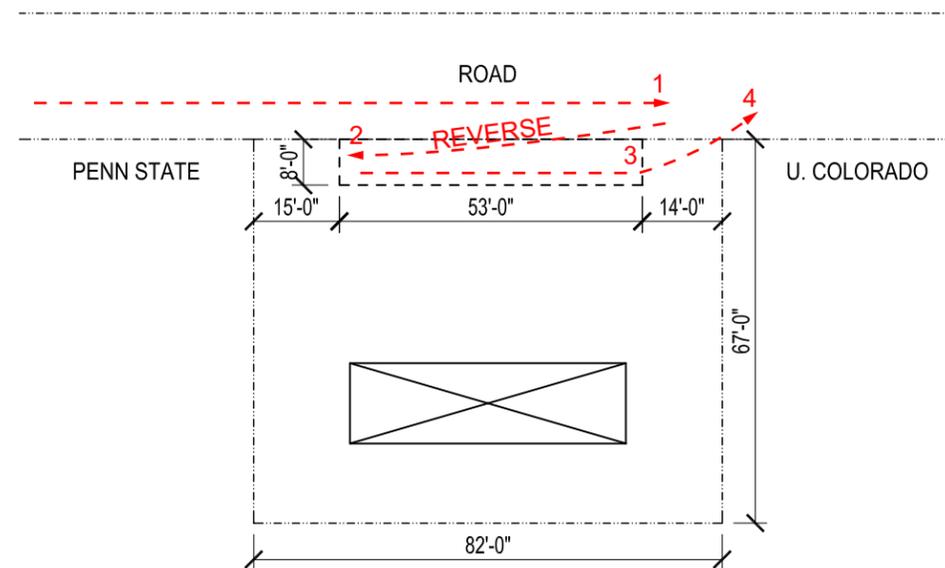
SITE STAGING TIMELINE

T.1.0.a



1. ARRIVAL ALONGSIDE SITE
2. REVERSE ONTO THE SITE
3. FINAL POSITIONING ON THE SITE
4. DEPARTURE OF TRACTOR FROM SITE

1 HOME ARRIVAL
T.1.1



1. 53' TRACTOR TRAILER ARRIVAL
2. REVERSE INTO POSITION
3. DETACHMENT OF TRAILER
4. DEPARTURE OF TRACTOR
5. TRAILER REMAINS 3 DAYS

2 53' TRACTOR TRAILER ARRIVAL
T.1.1

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consultants:

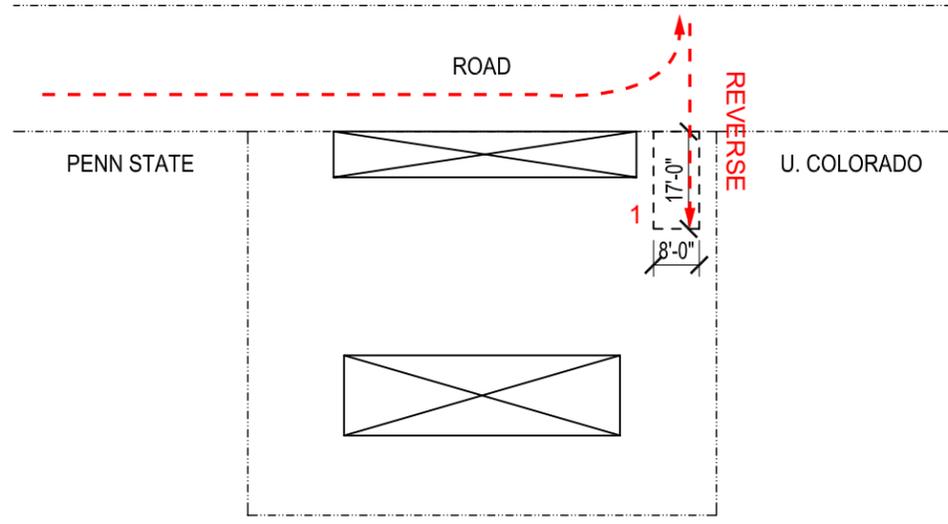


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A. Jakubiec
date drawn:
08.05.07

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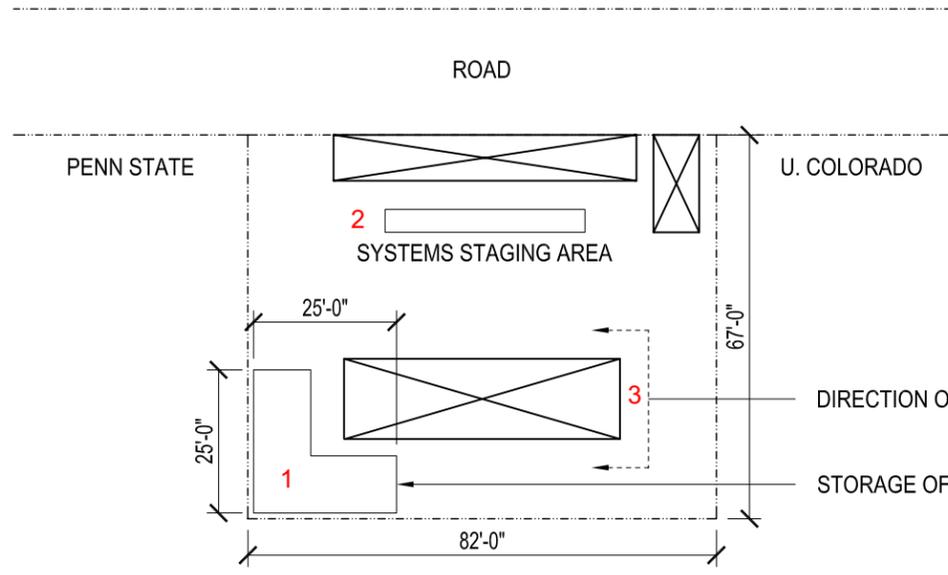
SITE STAGING OPERATIONS



1. ARRIVAL OF SMALL EQUIPMENT TRUCK
2. TRUCK STAYS ON SITE FOR 6 DAYS

1
T.1.2

17' SERVICE VEHICLE ARRIVAL



1. ESTABLISH LANDSCAPE STORAGE AREA
2. ESTABLISH SYSTEMS STAGING AREA
3. INSTALL PV PANWLS TOWARDS THE WEST

DIRECTION OF PV INSTALLATION

STORAGE OF LANDSCAPE MATERIALS

2
T.1.2

STAGING AREA

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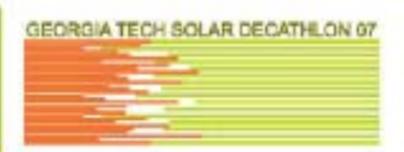
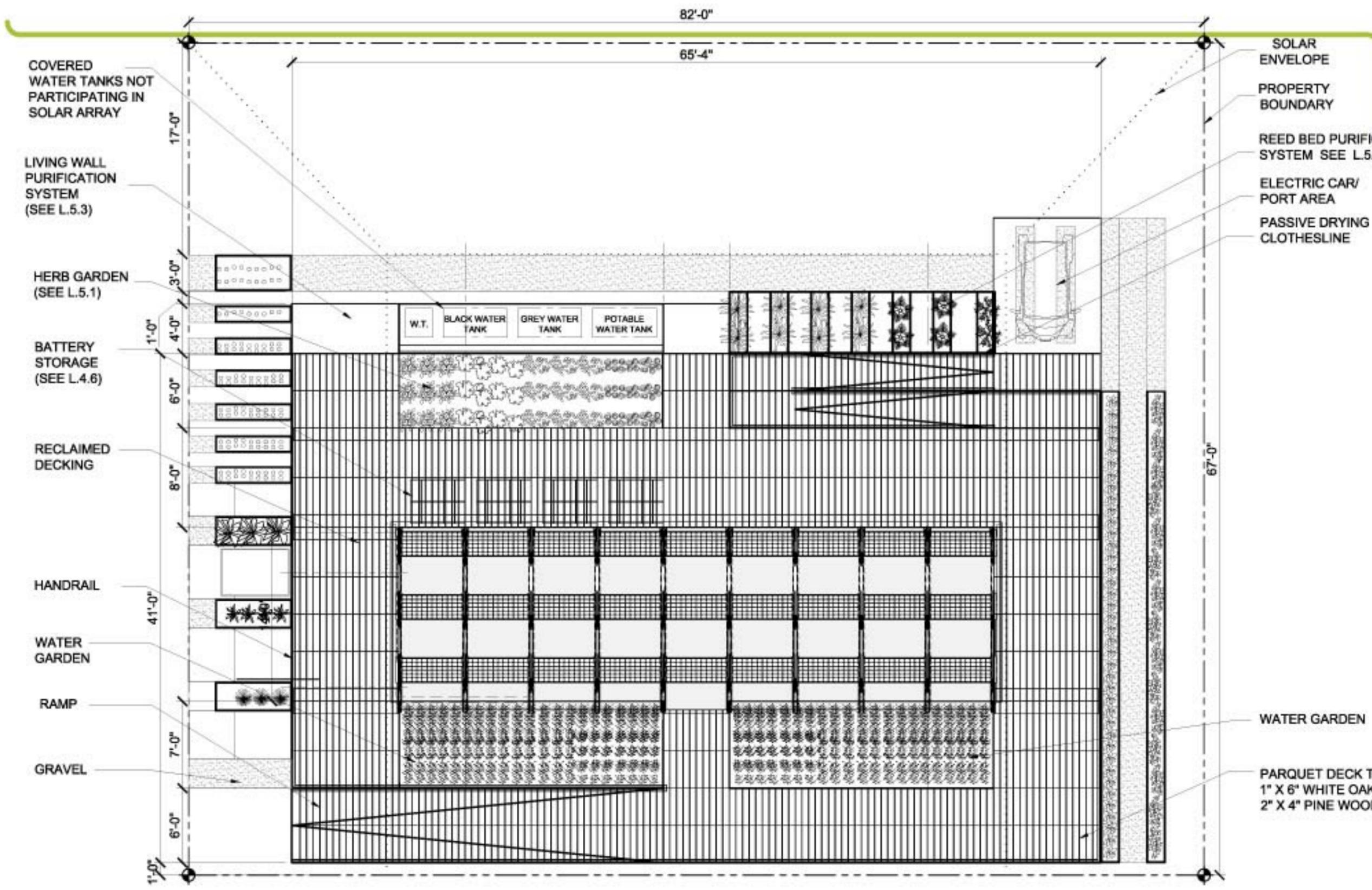


prepared by:
A. Jakubiec
date drawn:
08.05.07

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SITE STAGING OPERATIONS

T.1.2



date	description	revision



prepared by:
Toni Cliett
Barbara Hearon
 date drawn:
 12.01.06 / 3.06.07



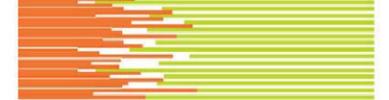
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1 SITE PLAN
 L.1.0

SITE PLAN

L.1.0



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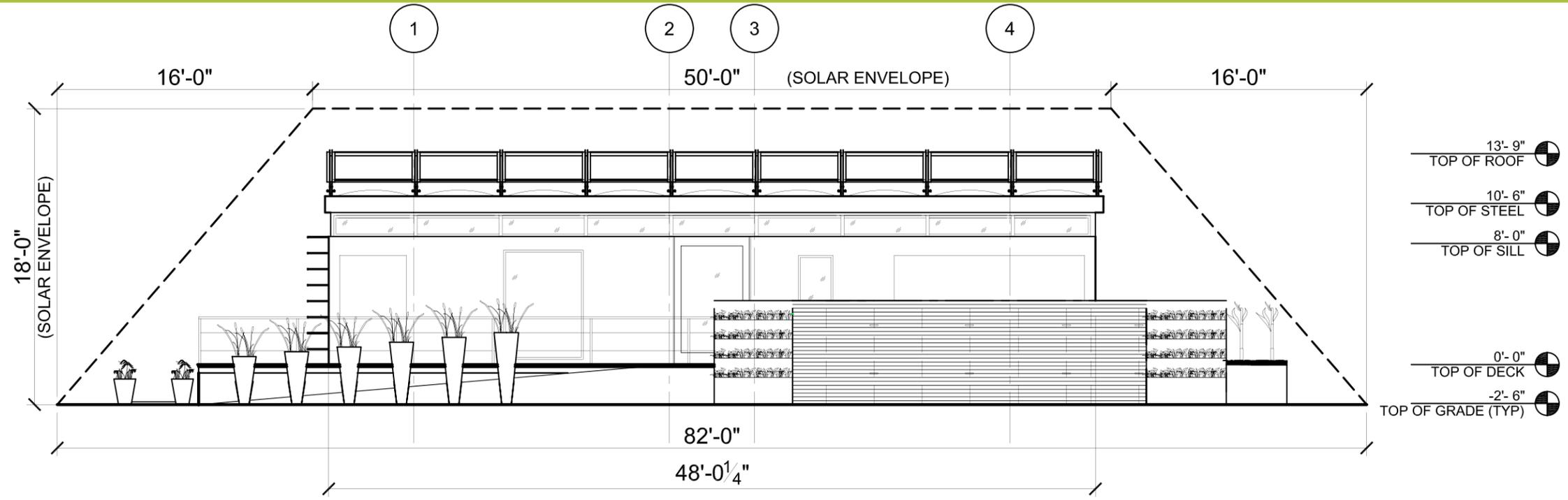


prepared by:
Amanda Cook
C.VAN KLEY
 date drawn:
11.27.06
3.06.07

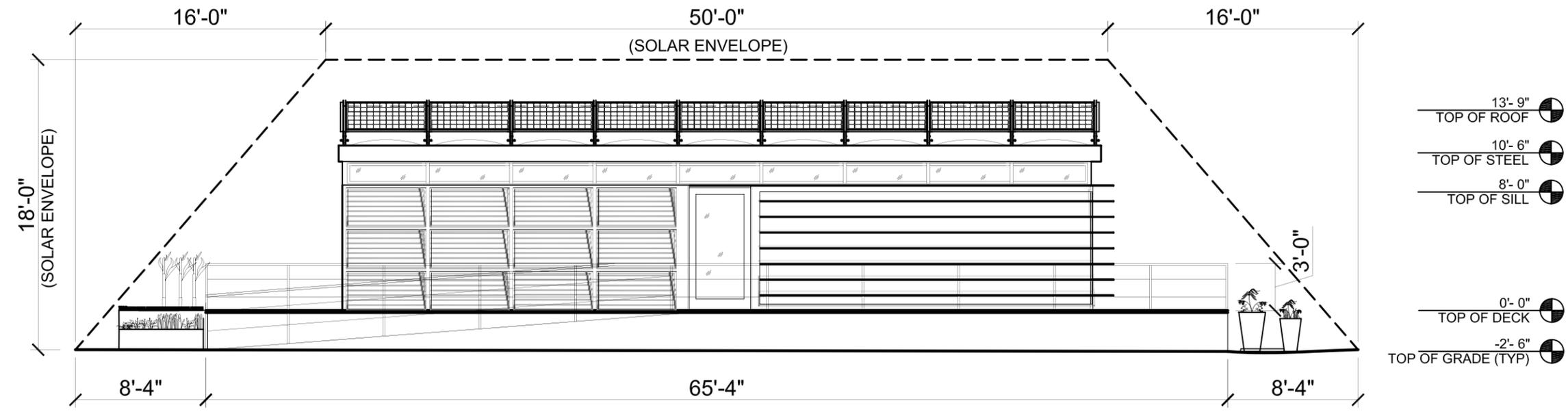
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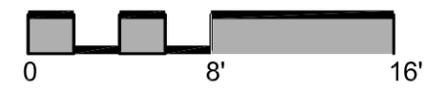
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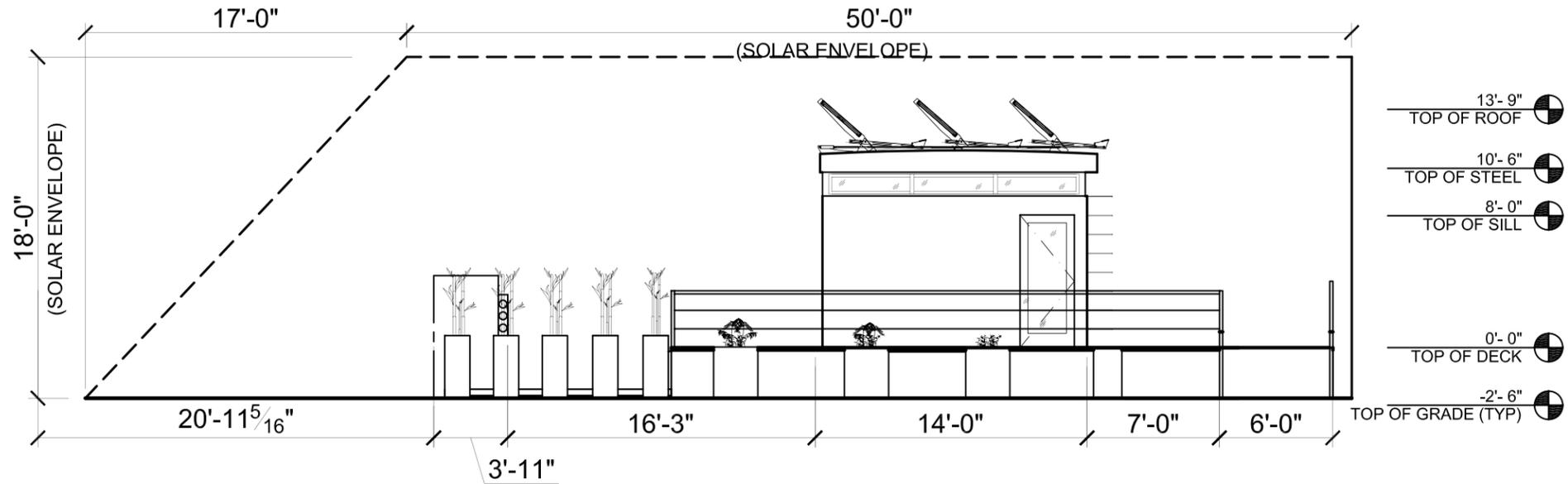


2 SITE ELEVATION - NORTH
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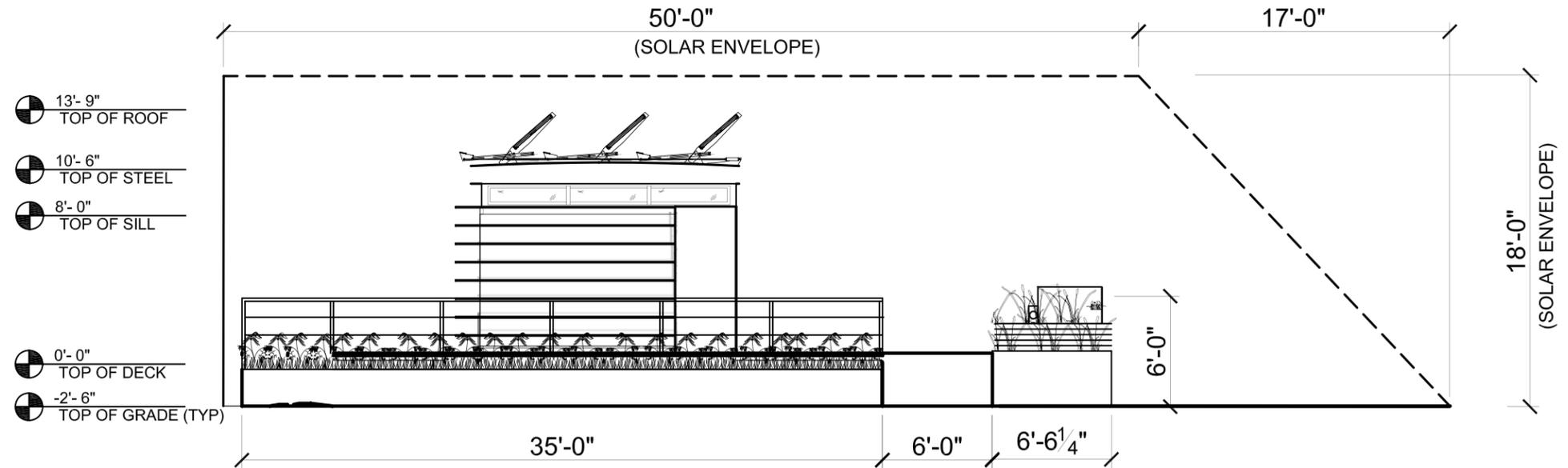


1 SITE ELEVATION - SOUTH
 L.2.0

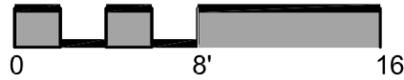




2 SITE ELEVATION- WEST
L.2.1



1 SITE ELEVATION- EAST
L.2.1



date	description	revision

consultants:



prepared by:
Amanda Cook
C.VAN KLEY
date drawn:
11.26.06
3.06.07

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L.2.1

SITE ELEVATIONS

revision	description	date

consultants:

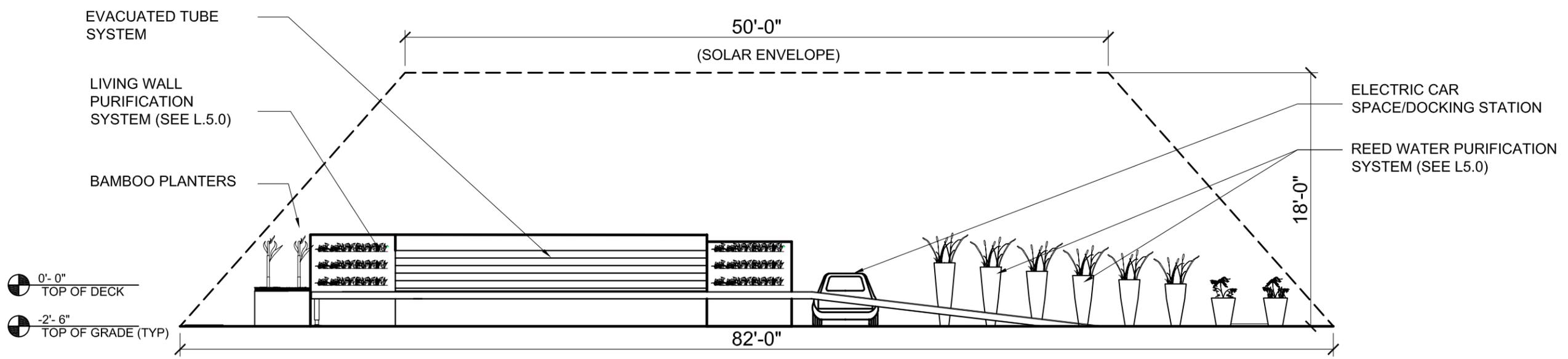


prepared by:
Amanda Cook
C.VAN KLEY
 date drawn:
12.01.06
3.06.07

scale: 1/8" = 1' 0"

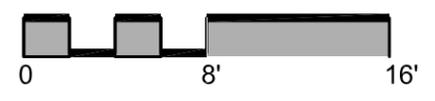
L.2.2

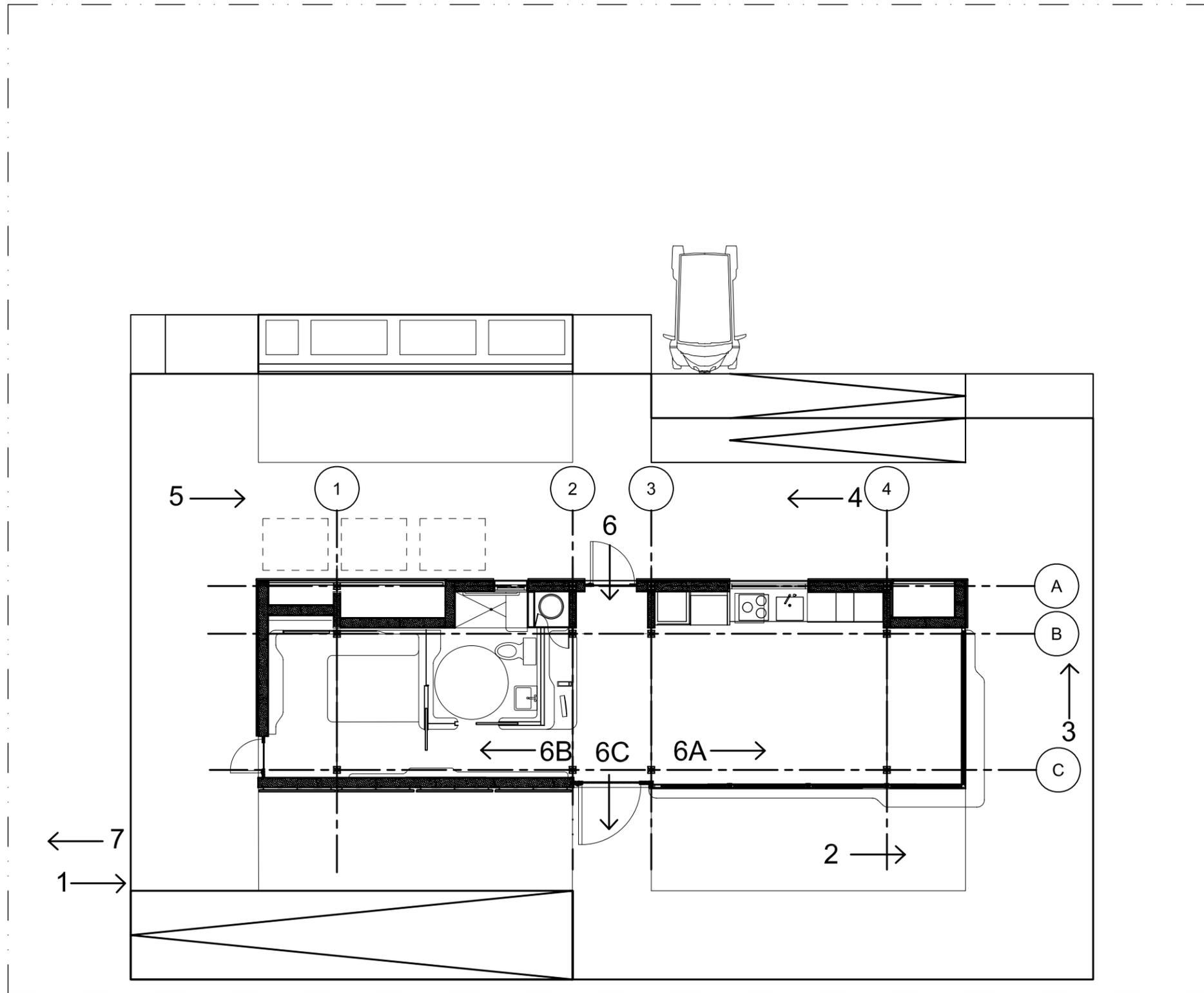
SITE SECTION



1
L.2.2

SITE SECTION - NORTH





revision	description	date

consultants:



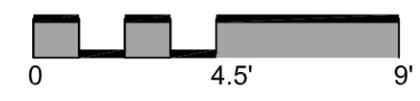
prepared by:
Amanda Cook
C.VAN KLEY
 date drawn:
12.01.06
3.06.07



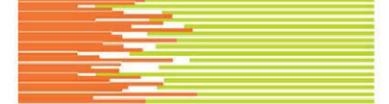
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TOUR ROUTE

1 TOUR ROUTE (40 minute tour)
 L.3.0



L.3.0



Tour Route

1. Introduction
 - Team Structure
 - Timeline
 - Team Goals
 - Arch/Engineering
 - Marketing Segment
 - i. Adaptable living
 - ii. Modern
2. Roof Structure
 - Skin – Structure & ETFE
 - PV
 - i. Technology
 - ii. Operability
3. Walls
 - Exterior Louvers & Translucent Walls
 - i. Construction techniques
 - ii. Shading, usefulness
 - BIPV & SIPS
 - i. Construction techniques
 - ii. Hot Water Devices
 - iii. Energy Produced & Efficiency
 - Regroup/Summary
4. Batteries, Car, Inverter
5. Water System, Mechanical, Garden
 - Evacuated Tubes
 - Grey Water System
 - Heating and Cooling Devices
6. House Tour
 - Opening
 - i. Structure
 - ii. Roof
 - iii. House Dichotomy
 - Living Area
 - i. Technology
 - ii. Accessibility
 - iii. Lighting
 - iv. Other Design Drivers (efficiency atmosphere)
 - Bath/Bedroom
 - i. AWPL (Advanced Wood Products Lab Fabrication)
 - ii. Technologies
 - iii. Accessibility
 - iv. Lighting
 - v. Other Design Drivers
7. Farewell

NOTE

LONGER AND SHORTER TOURS WILL FOLLOW THE SAME PATH, ALBEIT BRIEFER OR MORE EXTENSIVE IN CONTENT.

1 TOUR ROUTE (40 Minute Tour)
L.3.1

date	description	revision

consultants:



prepared by:

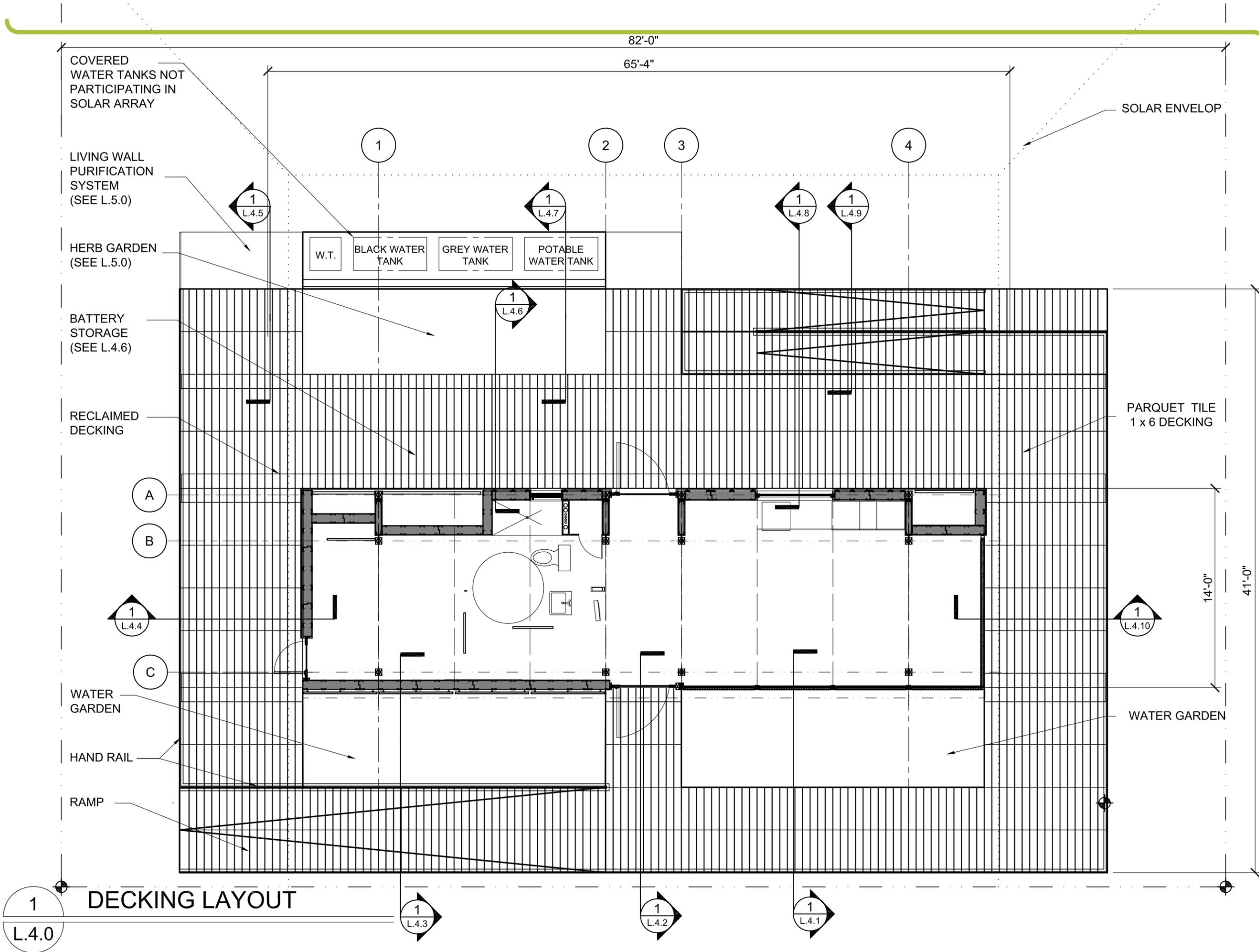
Amanda Cook
C.VAN KLEY

date drawn:

12.01.06
3.06.07

TOUR ROUTE DETAILS

L.3.1



date	description	revision

consultants:



prepared by:
Toni Cliett
Barbara Hearon
 date drawn:
 12.01.06 / 3.06.07

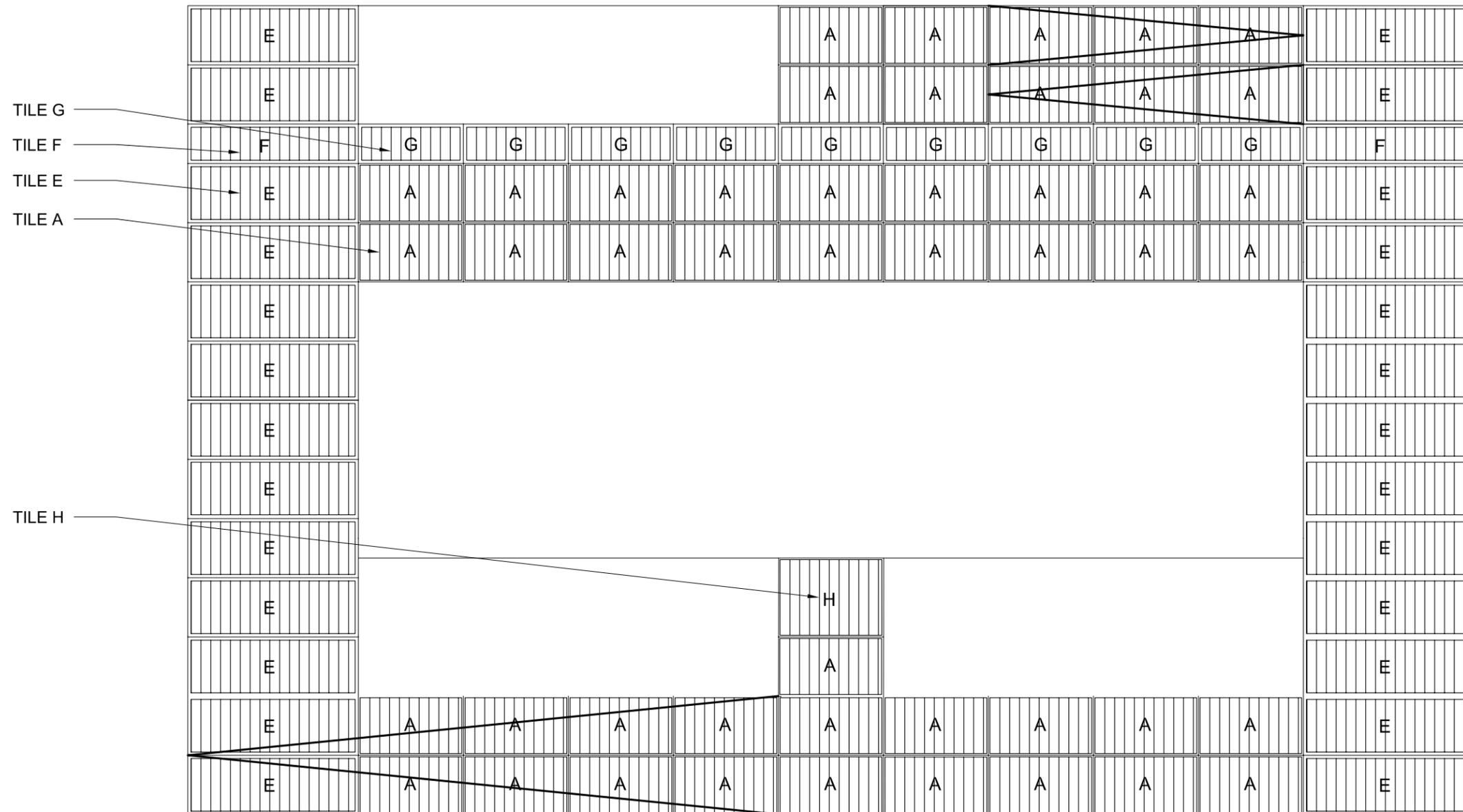


scale:

L.4.0

DECKING PLAN - LANDSCAPE

1 L.4.0 DECKING LAYOUT



TILE G
TILE F
TILE E
TILE A

TILE H

TILE NAME	SIZE	QTY
TILE A	3'-0" x 5'-4"	47
TILE E	3'-0" x 8'-8"	26
TILE F	2'-0" x 8'-8"	2
TILE G	2'-0" x 5'-4"	9
TILE H	4'-0" x 5'-4"	1

date	
revision	
description	

consultants:

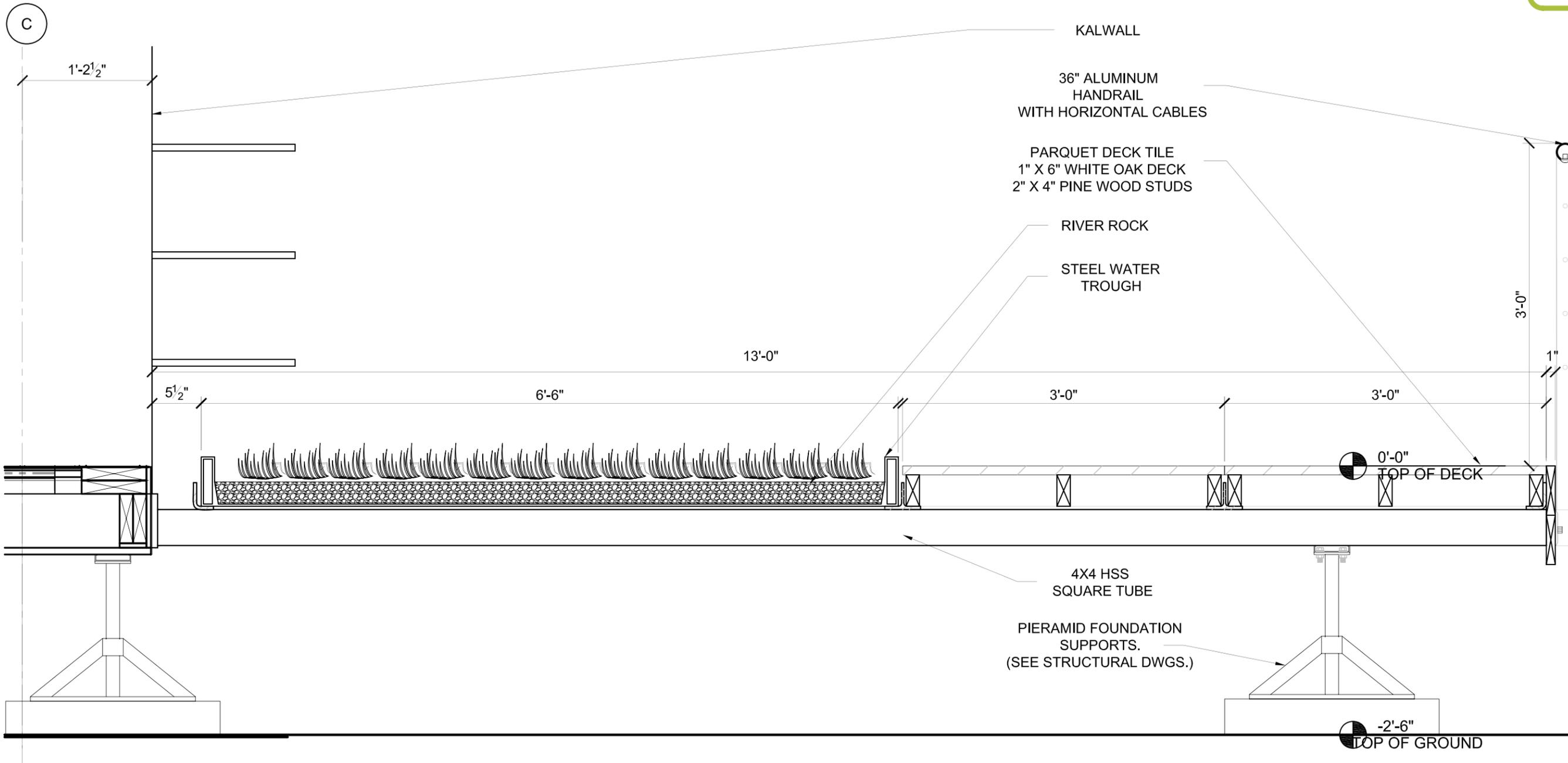


prepared by:
Barbara Hearon
date drawn:
3.06.07



scale:

DECKING SCHEDULE - LANDSCAPE



KALWALL

36" ALUMINUM HANDRAIL WITH HORIZONTAL CABLES

PARQUET DECK TILE
1" X 6" WHITE OAK DECK
2" X 4" PINE WOOD STUDS

RIVER ROCK

STEEL WATER TROUGH

4X4 HSS SQUARE TUBE

PIERAMID FOUNDATION SUPPORTS.
(SEE STRUCTURAL DWGS.)

date	description	revision

consultants:

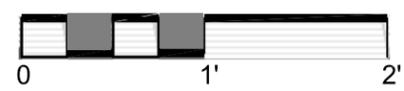


prepared by:
Toni Cliett
Barbara Hearon

date drawn:
12.01.06 / 3.06.07



scale: 1" : 1' 0"

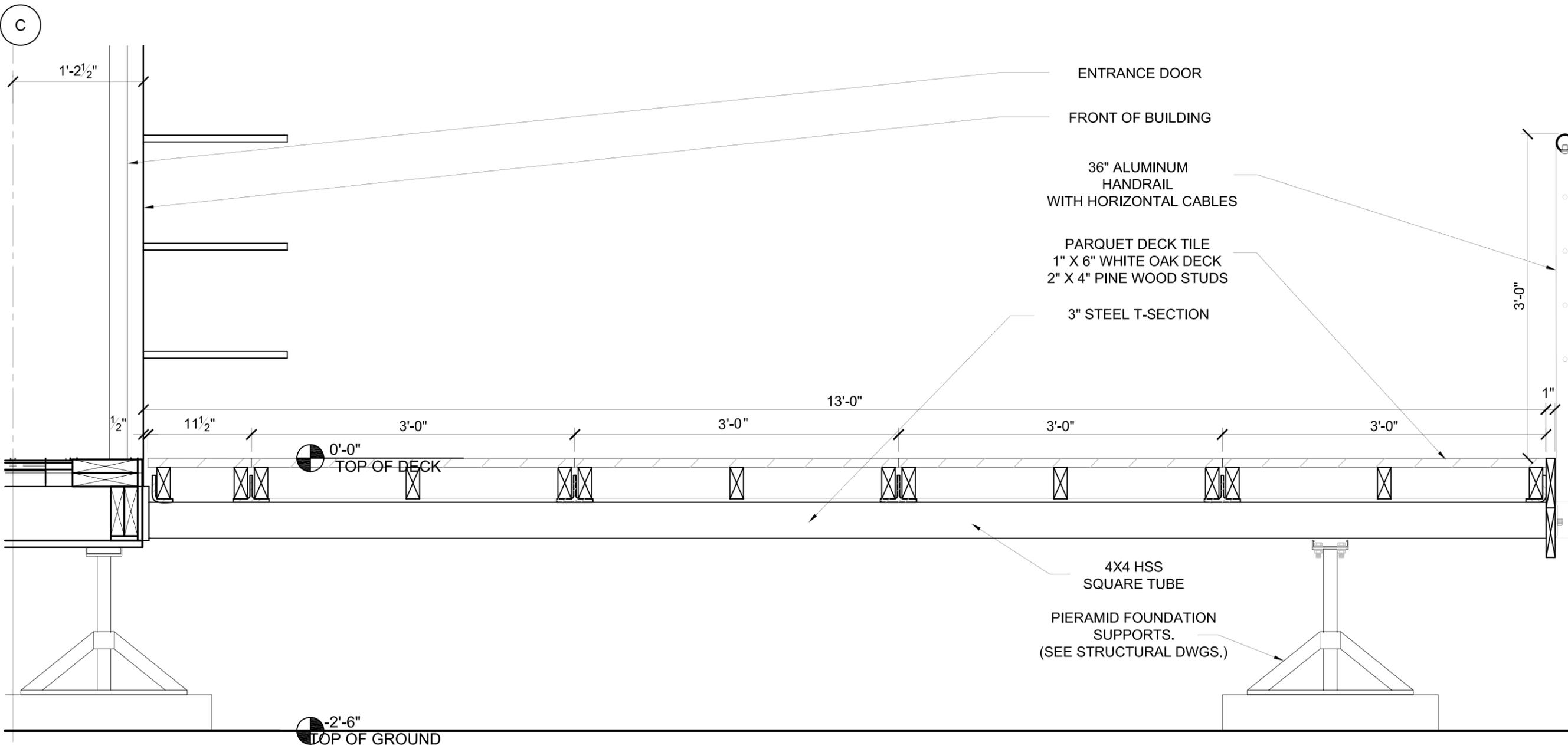


DECKING SECTIONS - SOUTH FACE

1 WATER GARDEN SECTION

L.4.1

L.4.1



date	description	revision

consultants:



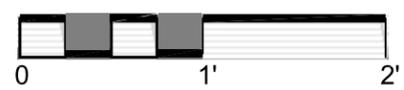
prepared by:
Toni Cliett
Barbara Hearon
 date drawn:
 12.01.06 / 3.06.07



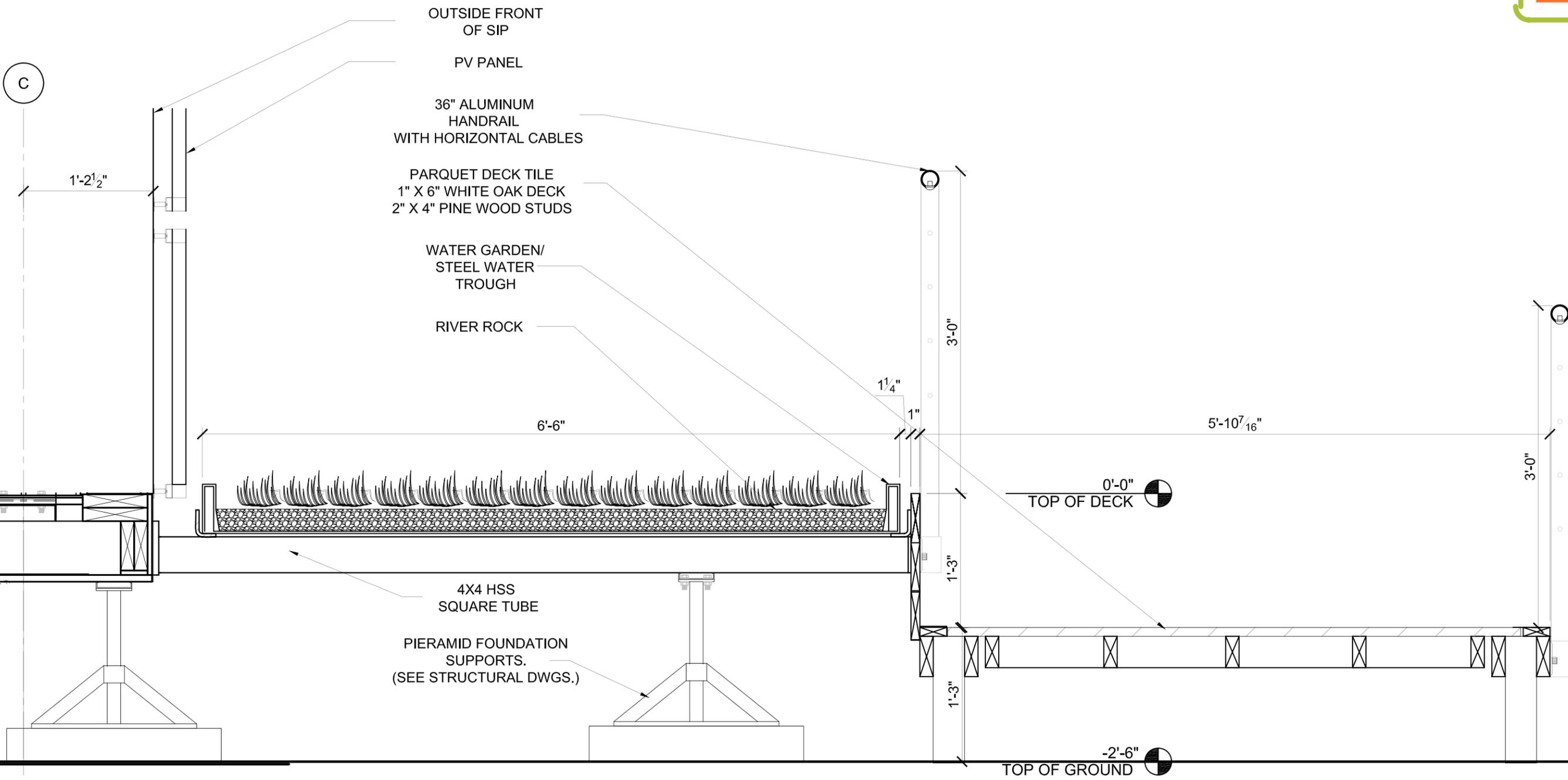
scale: 1" : 1' 0"

DECKING SECTIONS - SOUTH FACE

1 SOUTH DECK SECTION
 L.4.2



L.4.2



C

OUTSIDE FRONT OF SIP
 PV PANEL
 36" ALUMINUM HANDRAIL WITH HORIZONTAL CABLES
 PARQUET DECK TILE
 1" X 6" WHITE OAK DECK
 2" X 4" PINE WOOD STUDS
 WATER GARDEN/
 STEEL WATER TROUGH
 RIVER ROCK

4X4 HSS SQUARE TUBE
 PIERAMID FOUNDATION SUPPORTS.
 (SEE STRUCTURAL DWGS.)

date	description	revision

consultants:



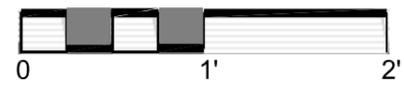
prepared by:
Toni Cliett
Barbara Hearon
 date drawn:
 12.01.06 / 3.06.07



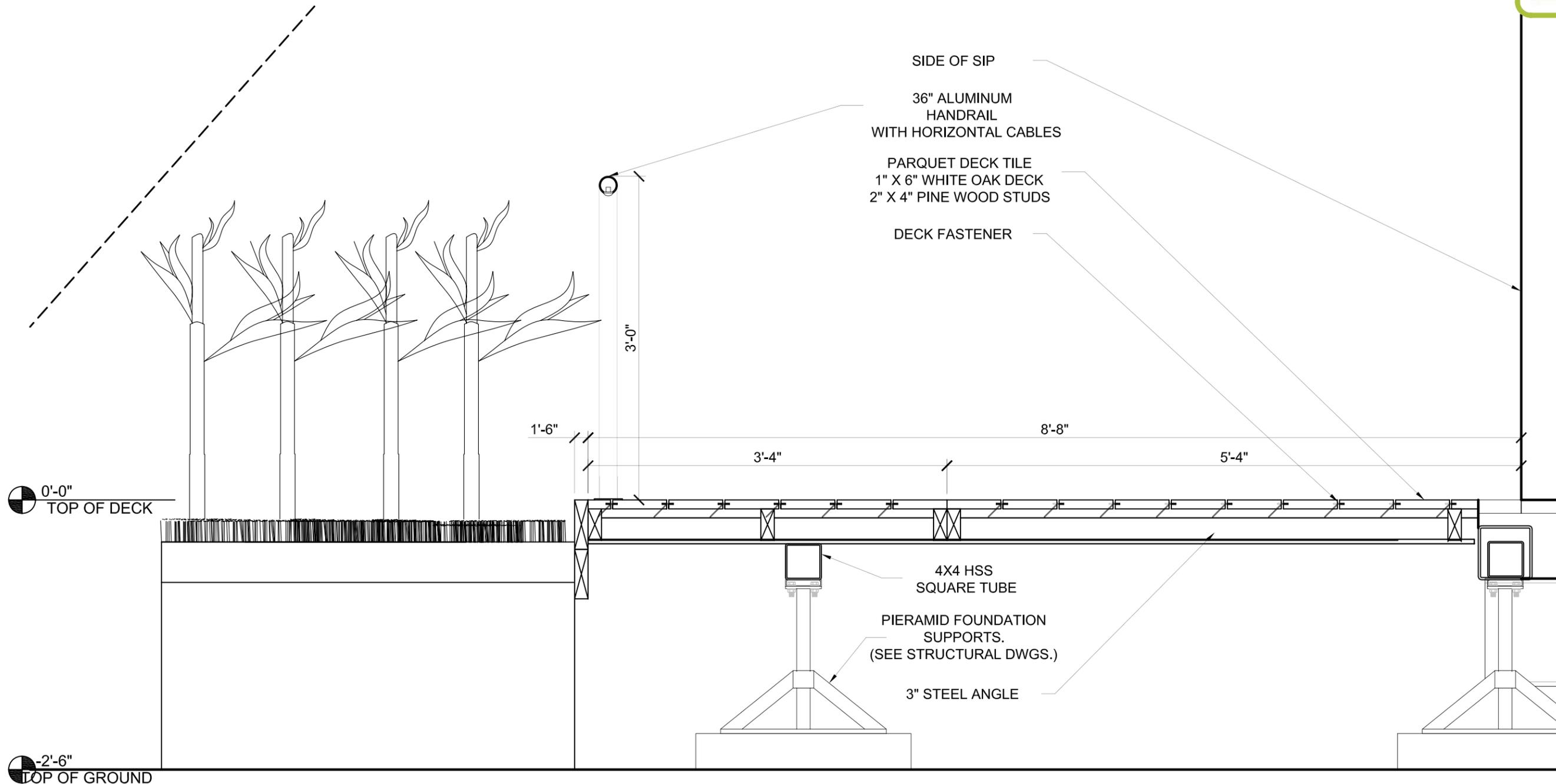
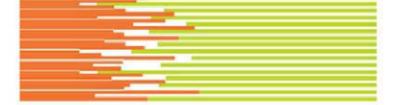
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DECKING SECTIONS - SOUTH FACE

1 SOUTH RAMP SECTION
 L.4.3



L.4.3



date	description	revision

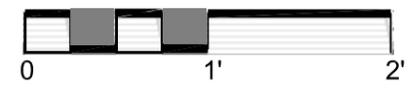
consultants:



prepared by:
Toni Cliett
Barbara Hearon
 date drawn:
 12.01.06 / 3.06.07



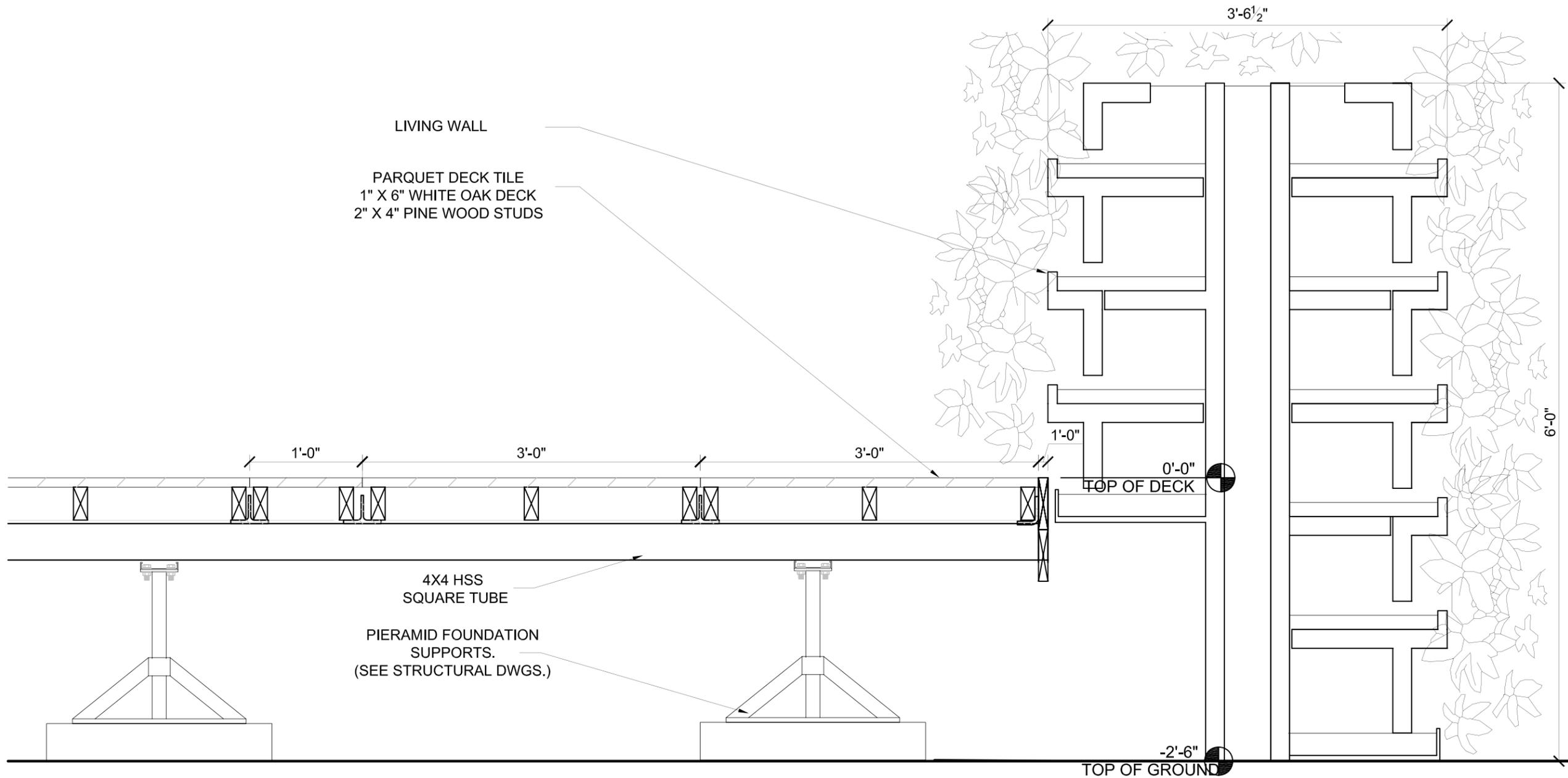
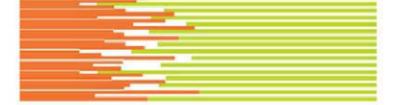
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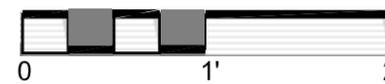
1 WEST DECK SECTION
 L.4.4

DECKING SECTIONS - WEST FACE

L.4.4



1 BACK DECK SECTION
L.4.5



date	description	revision

consultants:



prepared by:
Toni Cliett
Barbara Hearon
date drawn:
12.01.06 / 3.06.07

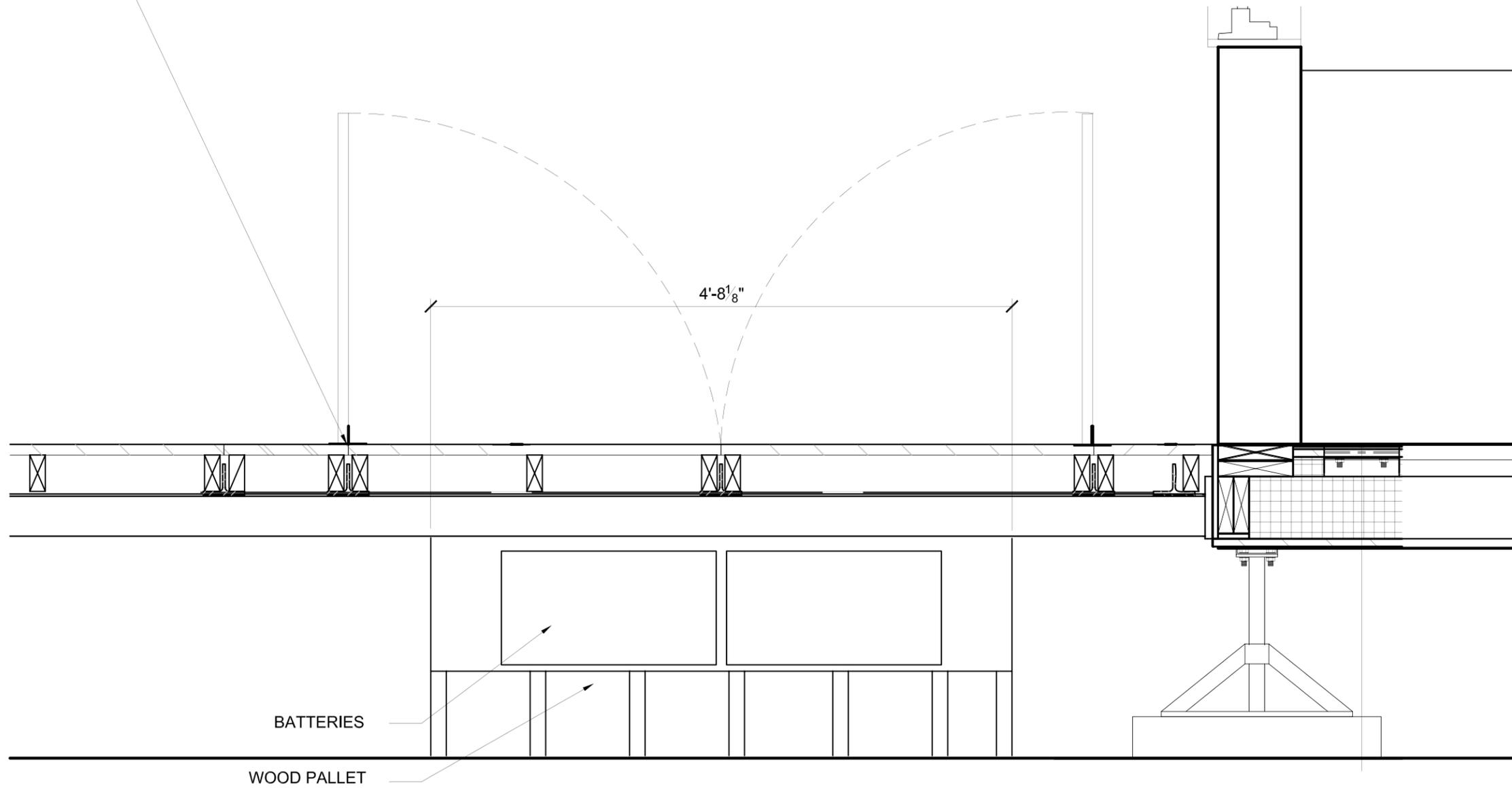


scale: 1" : 1' 0"

DECKING SECTIONS - NORTH FACE

L.4.5

DOOR HINGE



1
L.4.6

BATTERY STORAGE SECTION



date	description	revision

consultants:



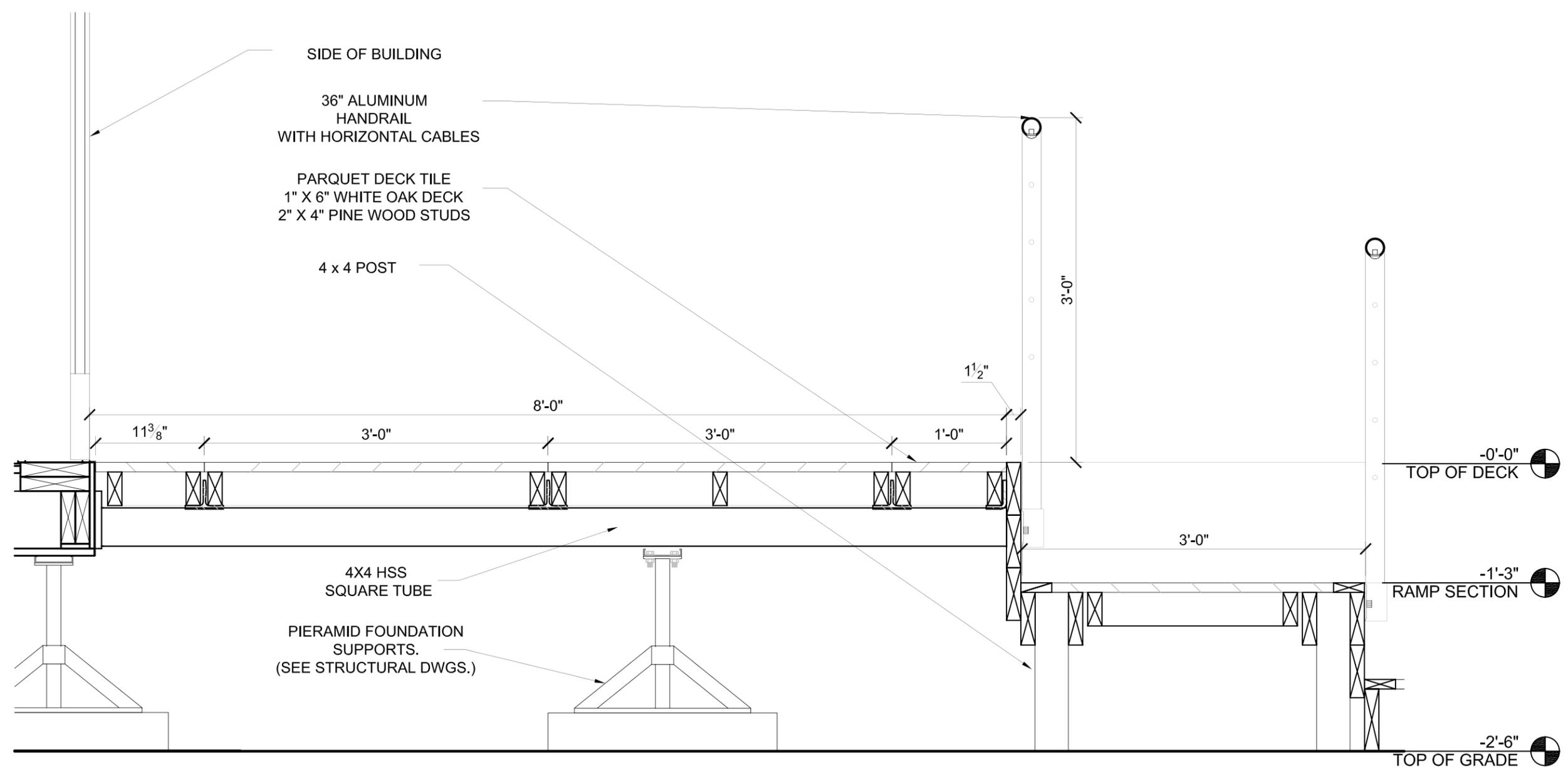
prepared by:
Toni Cliett
Barbara Hearon
 date drawn:
 12.01.06 / 3.06.07



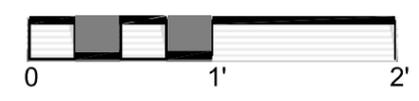
scale: 1/2" : 1' 0"

L.4.6

DECKING SECTIONS - NORTH FACE



1 NORTH DECK RAMP SECTION
L.4.8



date
description
revision

consultants:



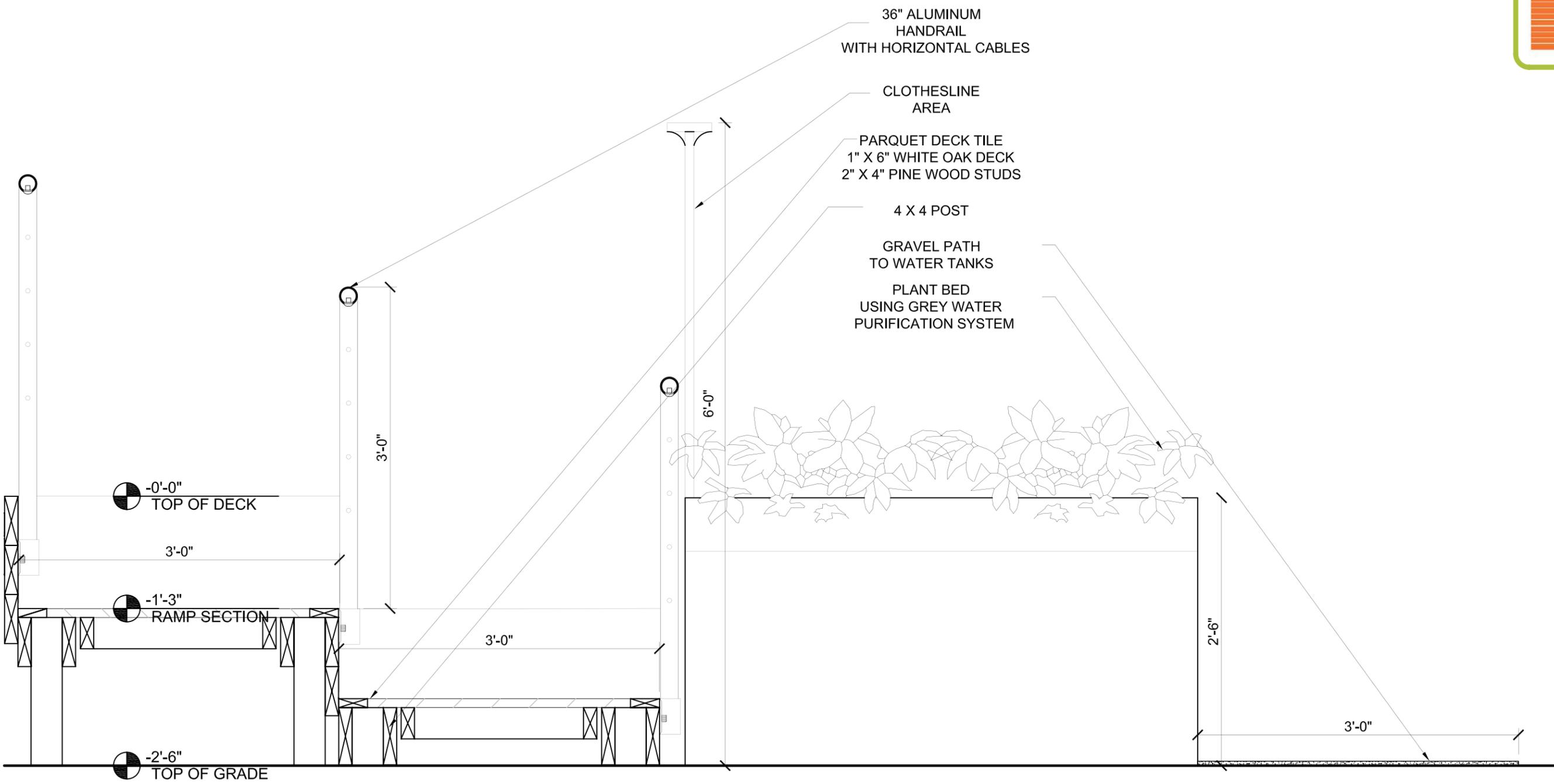
prepared by:
Toni Cliett
Barbara Hearon
date drawn:
12.01.06 / 3.06.07



scale: 1" : 1' 0"

L.4.8

DECKING SECTIONS - NORTH FACE



36" ALUMINUM
HANDRAIL
WITH HORIZONTAL CABLES

CLOTHESLINE
AREA

PARQUET DECK TILE
1" X 6" WHITE OAK DECK
2" X 4" PINE WOOD STUDS

4 X 4 POST

GRAVEL PATH
TO WATER TANKS

PLANT BED
USING GREY WATER
PURIFICATION SYSTEM

-0'-0"
TOP OF DECK

-1'-3"
RAMP SECTION

-2'-6"
TOP OF GRADE

3'-0"

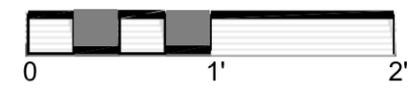
3'-0"

6'-0"

2'-6"

3'-0"

1 NORTH RAMP SECTION
L.4.9



revision	description	date

consultants:



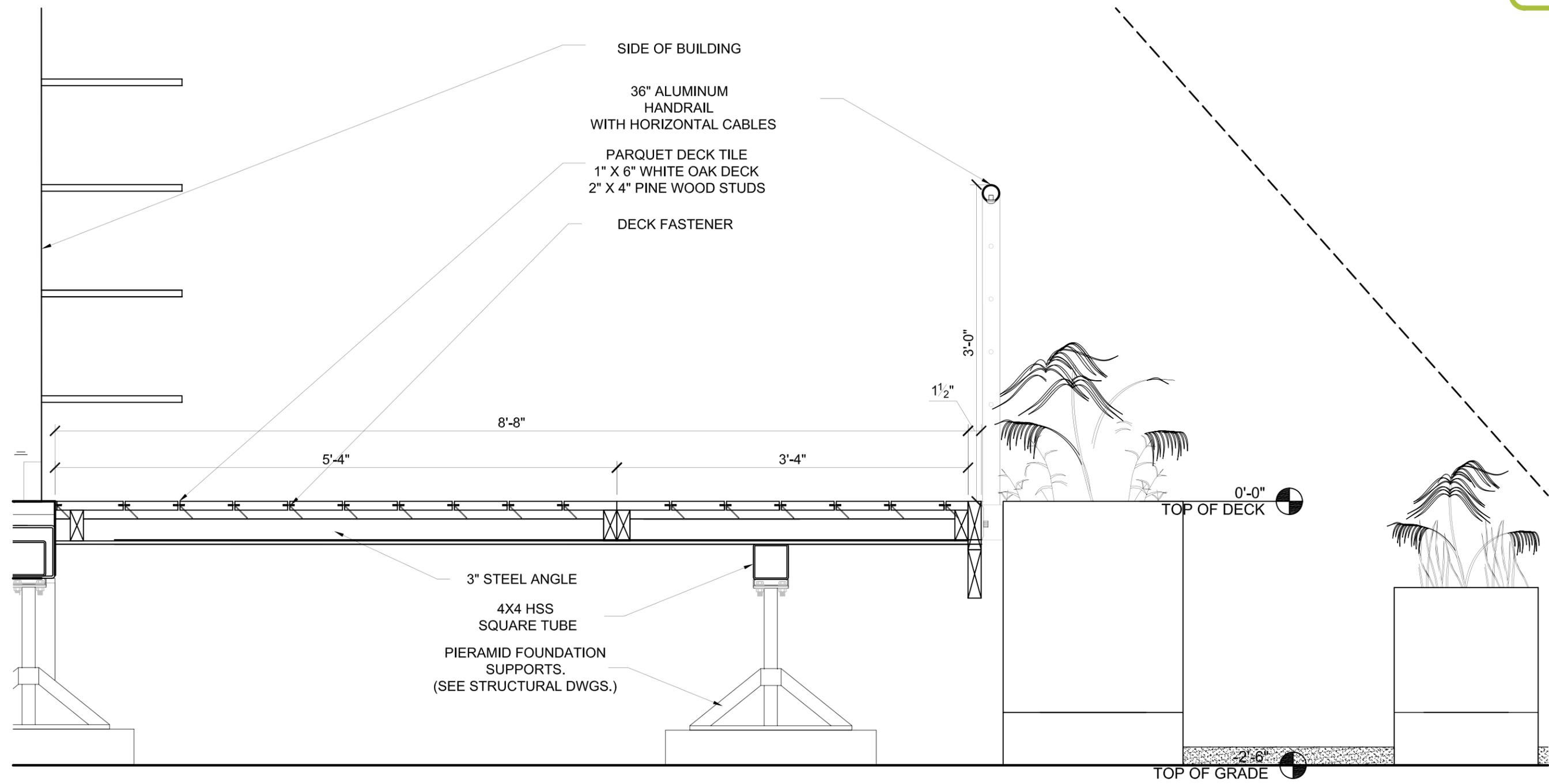
prepared by:
Toni Cliett
Barbara Hearon
date drawn:
12.01.06 / 3.06.07



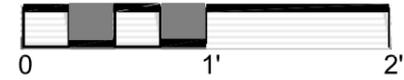
scale: 1" : 1' 0"

L.4.9

DECKING SECTIONS - NORTH FACE



1 EAST DECK SECTION
L.4.10



date	description	revision

consultants:



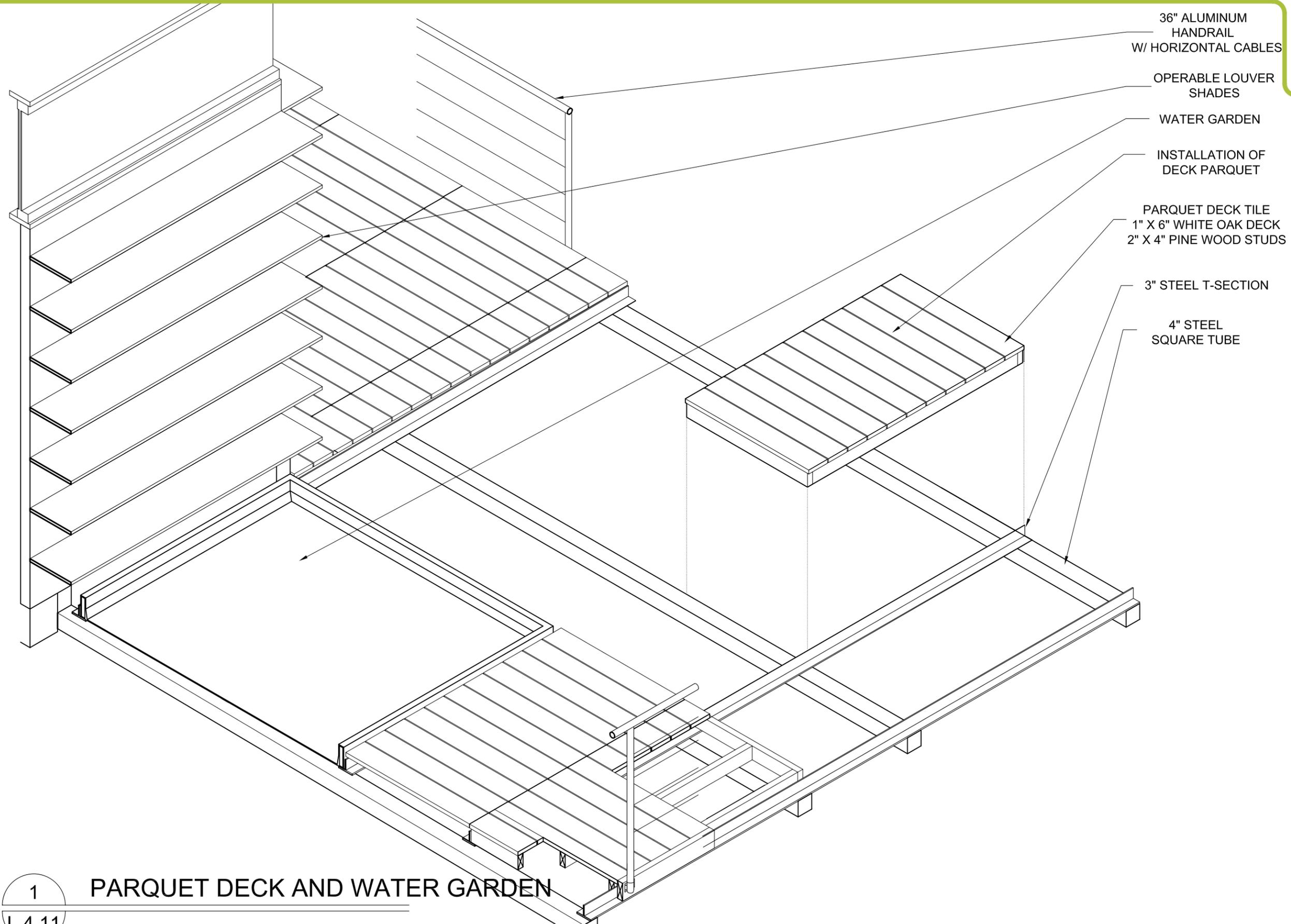
prepared by:
Toni Cliett
Barbara Hearon
date drawn:
12.01.06 / 3.06.07



scale: 1" : 1' 0"

L.4.10

DECKING SECTIONS - EAST FACE



date	description	revision

consultants:




prepared by:
Toni Cliett
Barbara Hearon
 date drawn:
 12.01.06 / 3.06.07

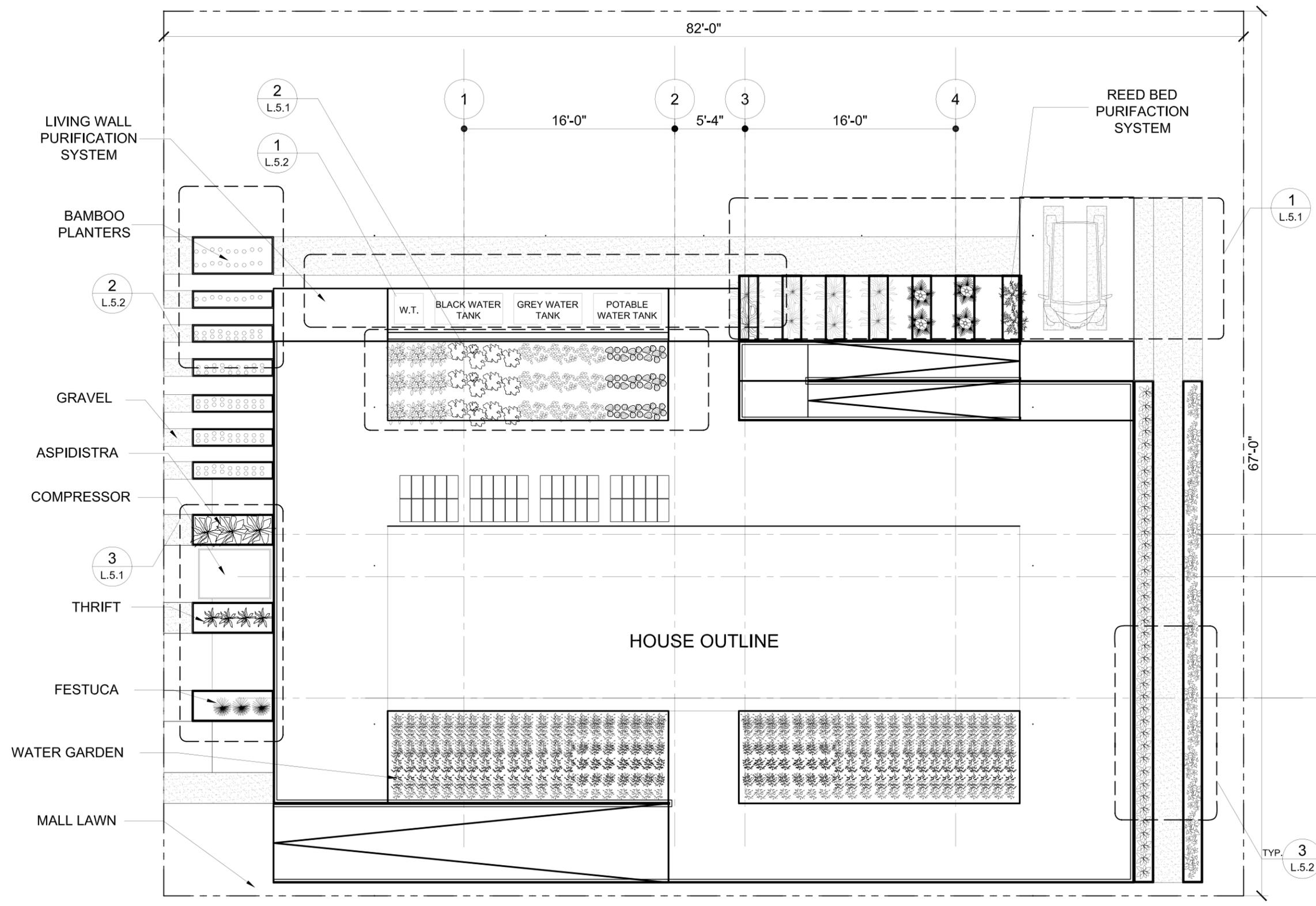


scale:

L.4.11

DECKING AXONOMETRIC

1 PARQUET DECK AND WATER GARDEN
 L.4.11



date	description	revision

consultants:

- A
- B
- C



prepared by:
Amanda Cook
Barbara Hearon
 date drawn:
11.27.06 / 03.06.07



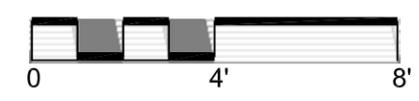
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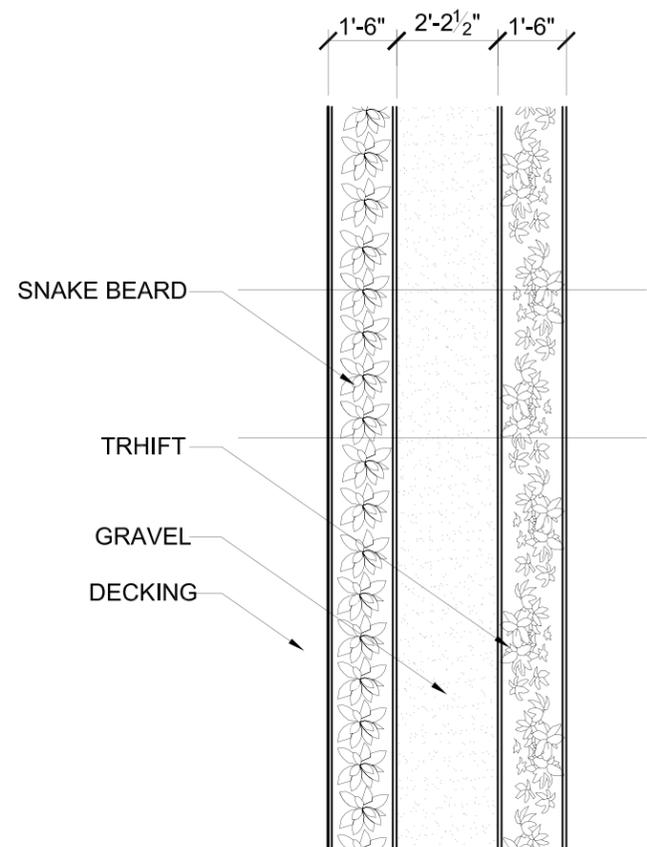
L.5.0

PLANTING PLAN

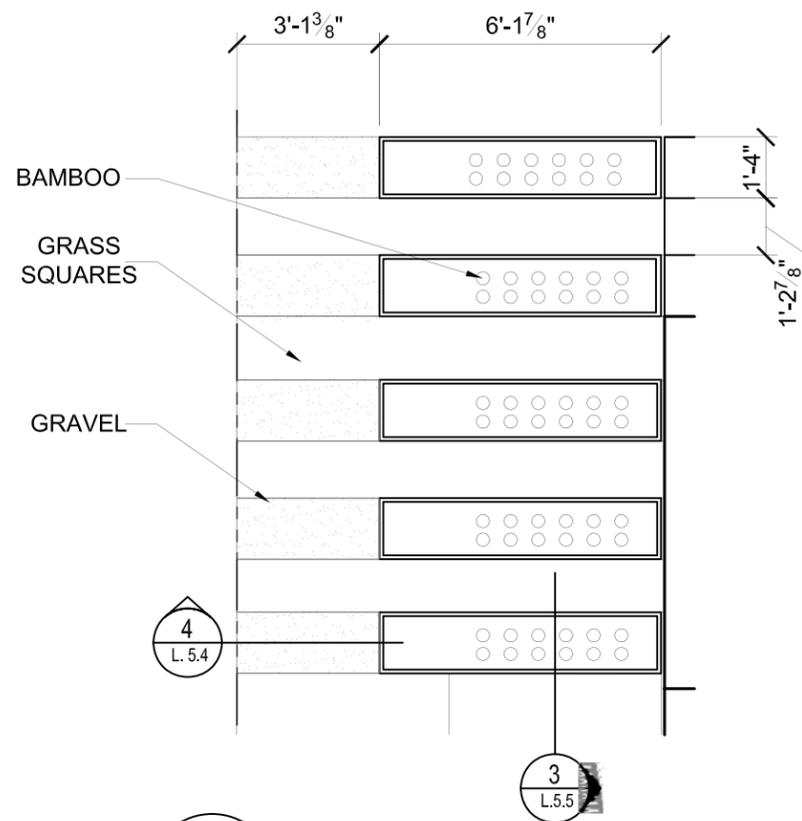
1 PLANTING PLAN
 L. 5.0

DECATHLETE WAY

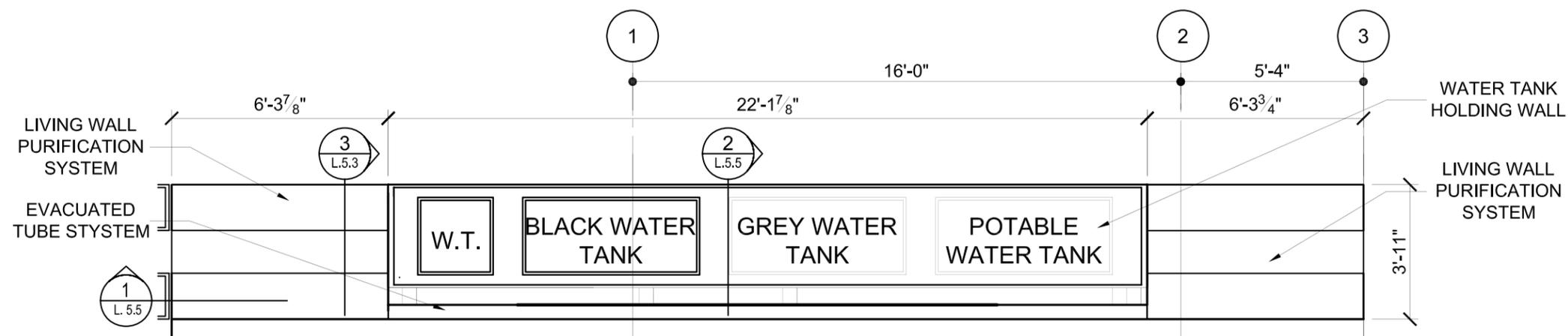




3 PLAN EAST PLANTERS - TYP.
L.5.2



2 PLAN BAMBOO PLANTERS
L.5.2



1 PLAN WATER TANKS/ LIVING WALLS
L.5.2

revision	description	date

consultants:



prepared by:
Amanda Cook
Barbara Hearon
date drawn:
12.01.06 / 03.06.07



scale: 1/4" : 1' 0"



LANDSCAPE DETAILS

A.5.2

revision	description	date

consultants:



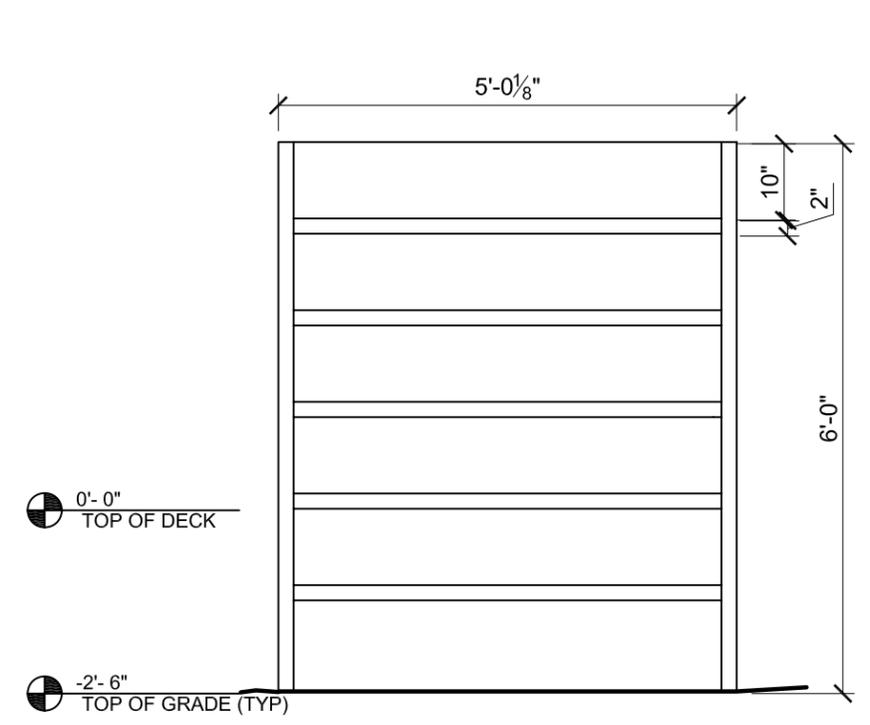
prepared by:
Amanda Cook
Barbara Hearon
 date drawn:
 12.01.06 / 03.06.07



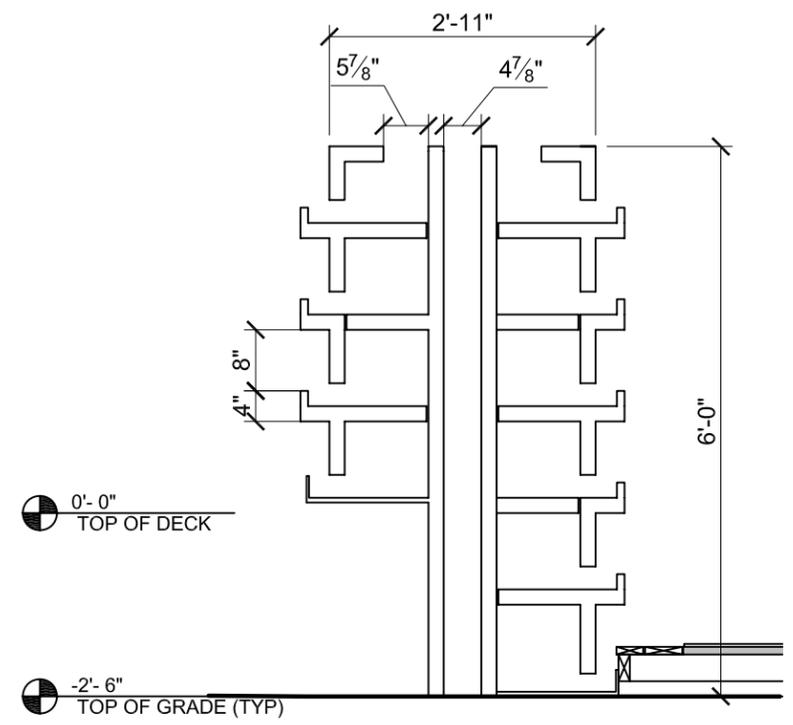
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L.5.3

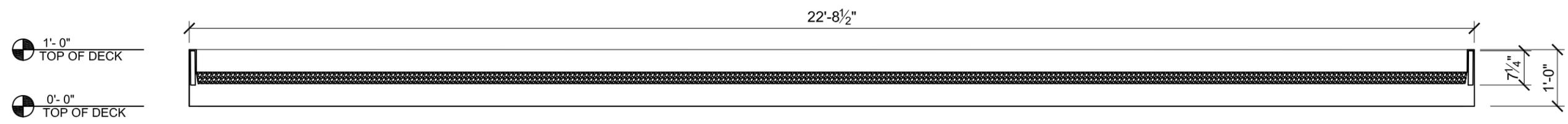
LANDSCAPING DETAILS



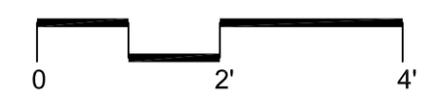
4 LIVING WALL SECTION
 L.5.3

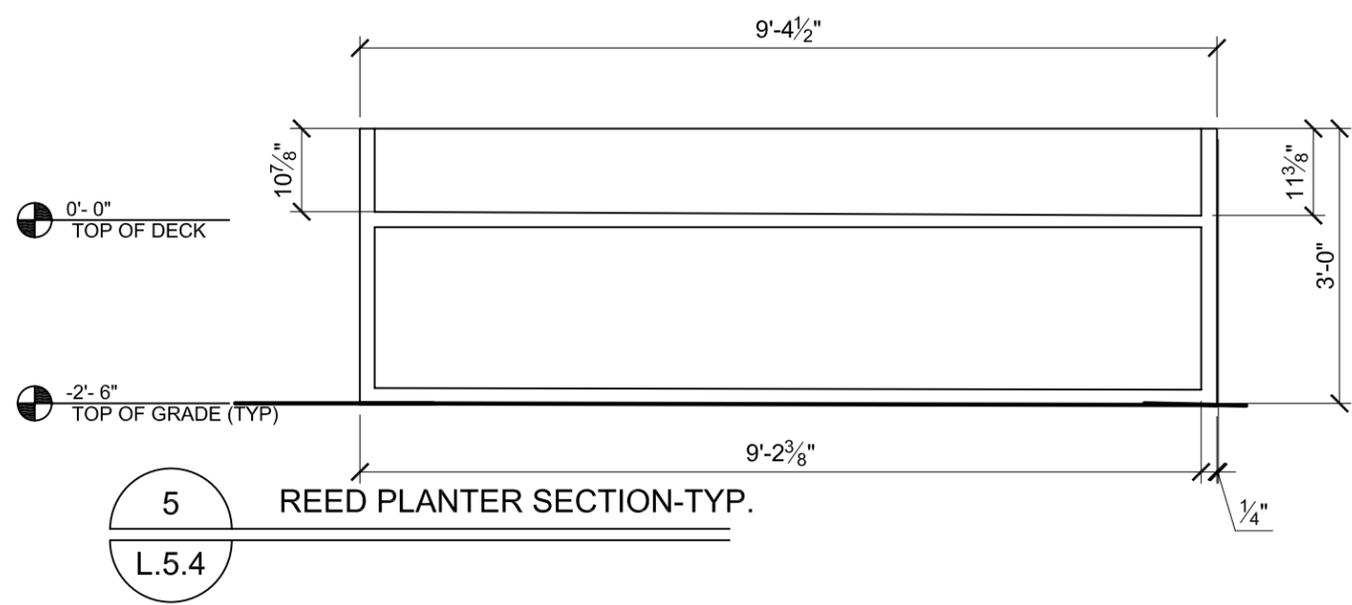
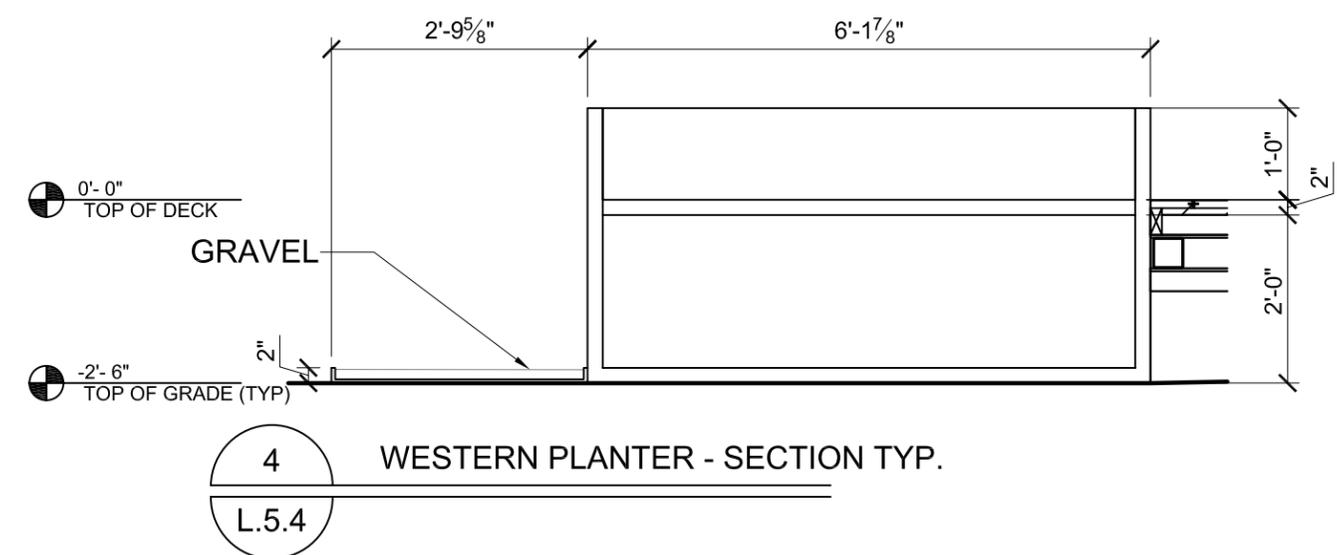
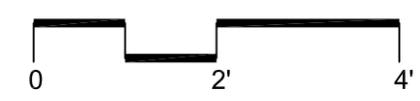
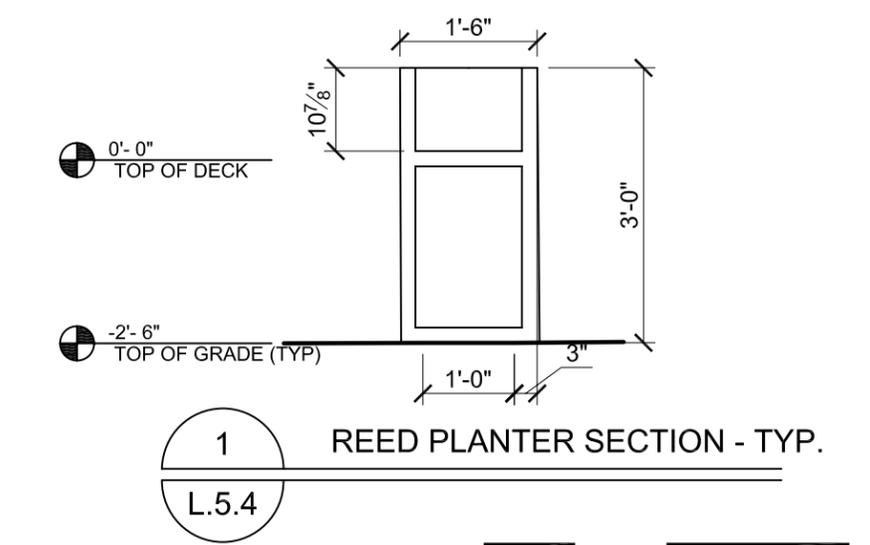
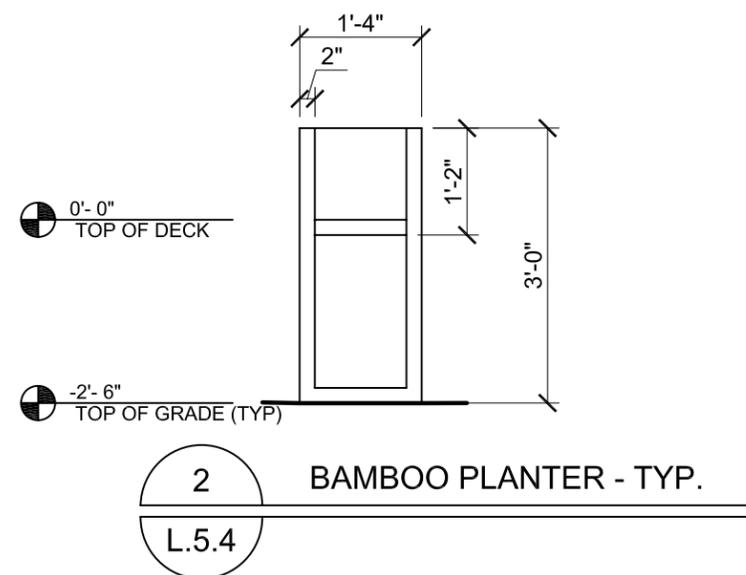
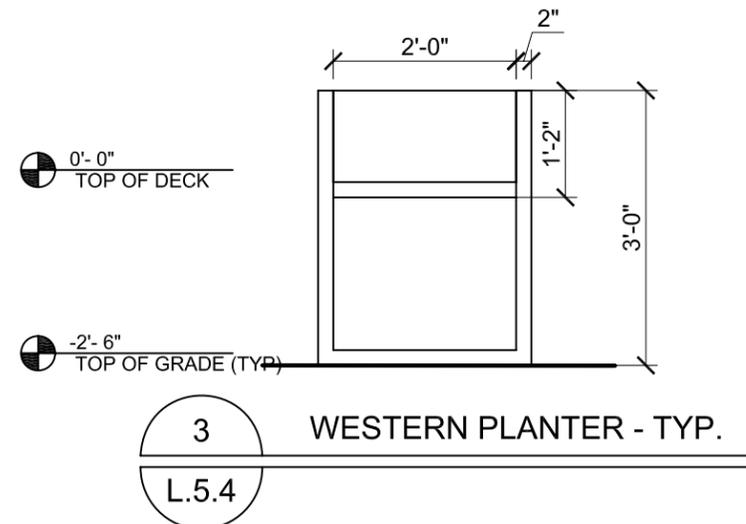


3 LIVING WALL SECTION
 L.5.3



1 HERB PLANTER SECTION
 L.5.3





date
description
revision

consultants:



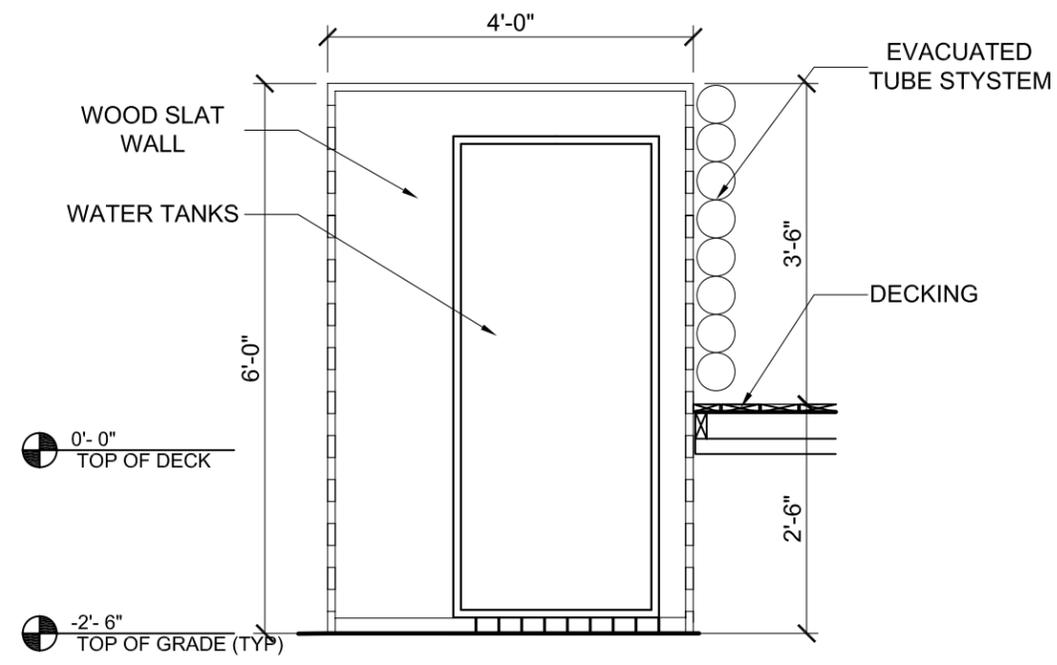
prepared by:
Amanda Cook
Barbara Hearon
 date drawn:
 12.01.06 / 03.06.07



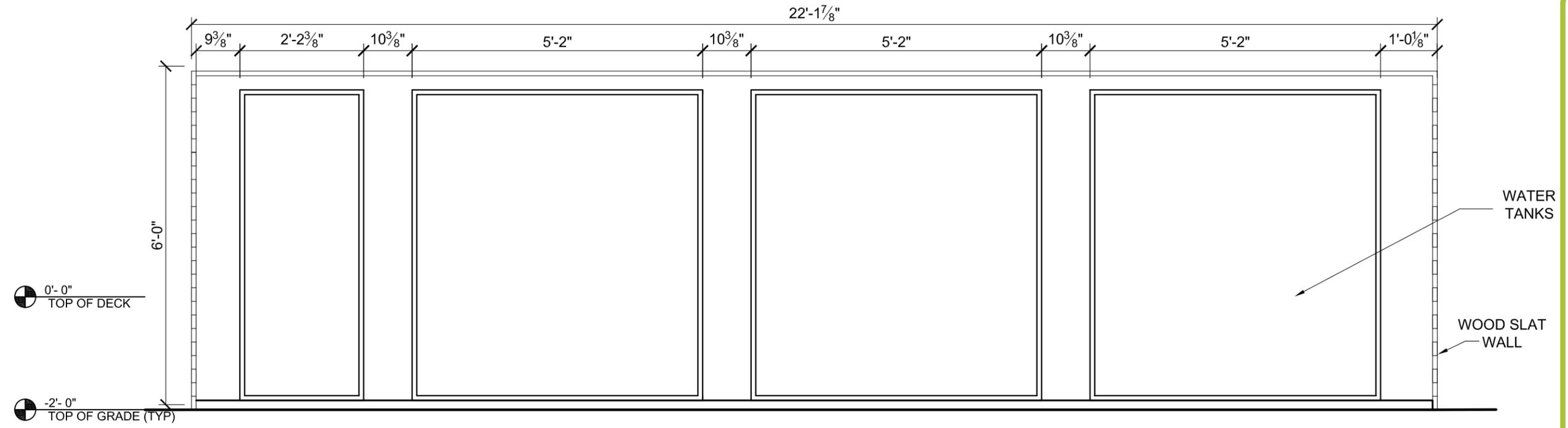
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L.5.4

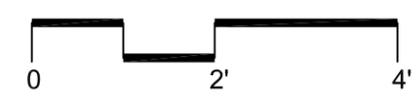
LANDSCAPING DETAILS



2 WATER TANK SECTION
L.5.5



1 WATER TANK SECTION
L.5.5



date	description	revision

consultants:



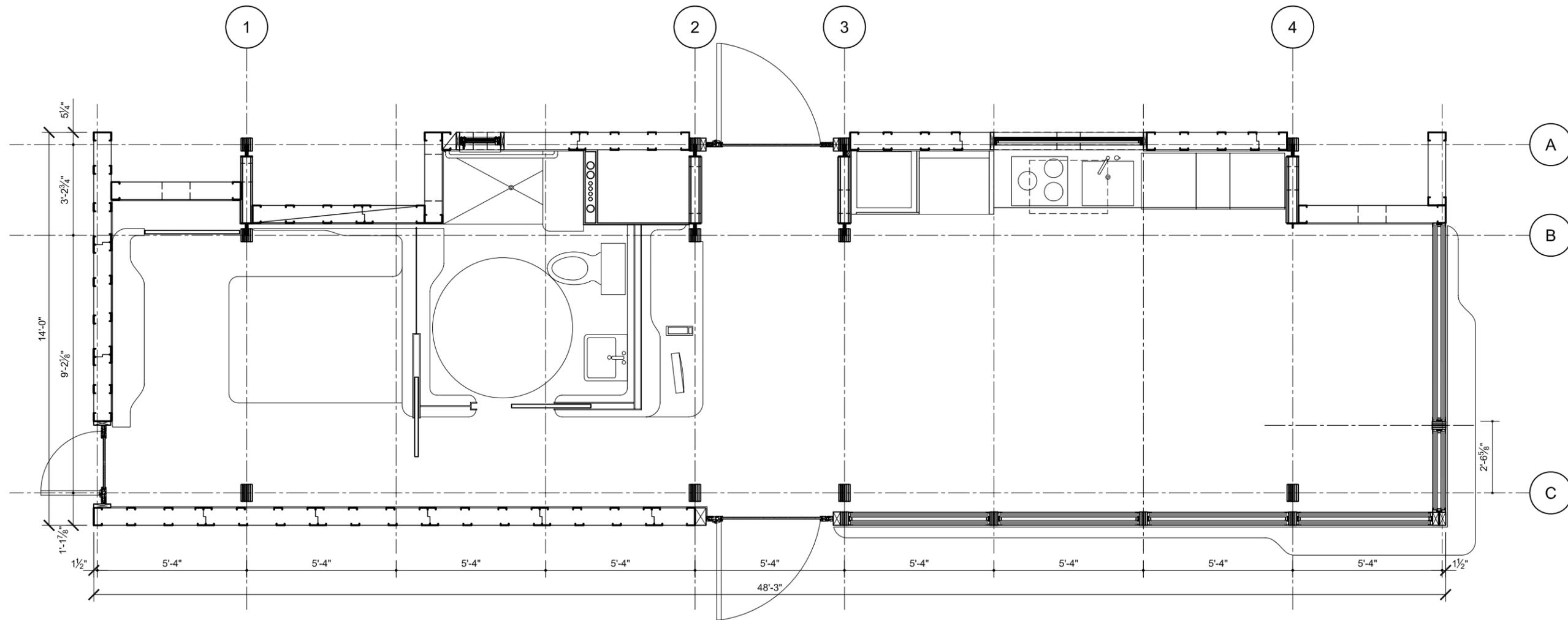
prepared by:
Amanda Cook
Barbara Hearon
date drawn:
12.01.06 / 03.06.07



scale: 1/2" = 1' 0"

L.5.5

LANDSCAPING DETAILS



1 FLOOR PLAN
A.1.0

revision	description	date

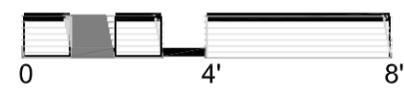
consultants:



prepared by:
Joe Jamgochian
Tony Piede
Nadine Kashlan
 date drawn:
05.24.07
03.06.07
12.06.06

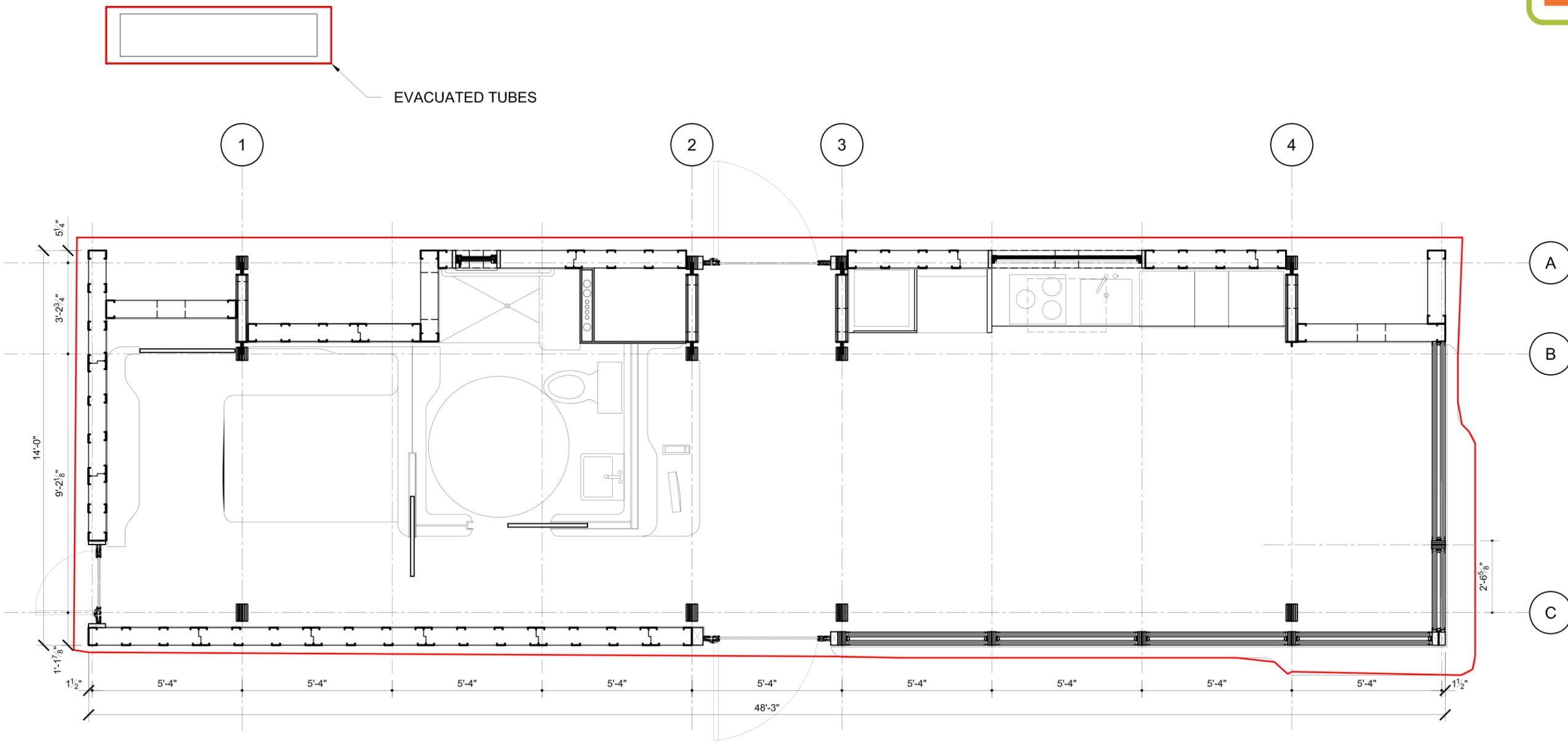


scale: 1/4" = 1'-0"



FLOOR PLAN

A.1.0



revision	description	date

consultants:



prepared by:
Joe Jamgochian
Tony Piede
Nadine Kashlan

date drawn:
05.24.07
03.06.07
12.06.06



scale: 1/4" = 1'-0"

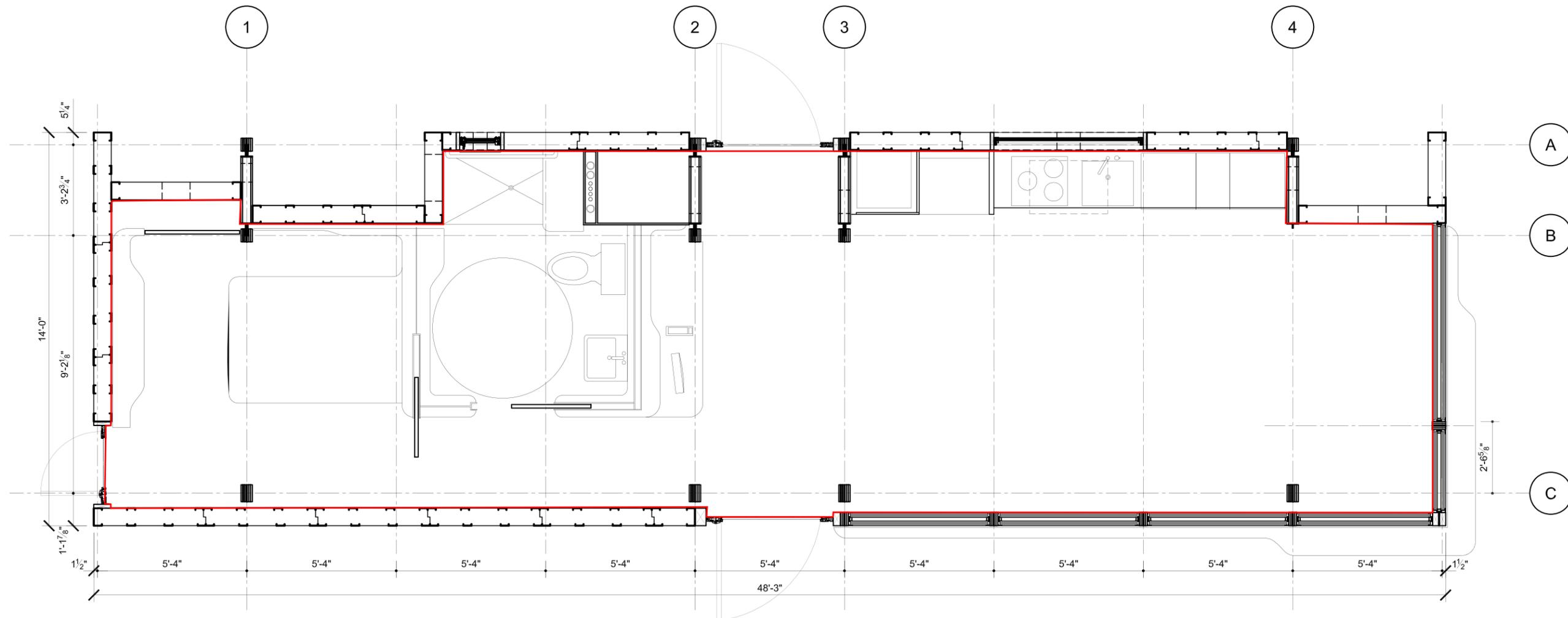
AREA CALCULATION

1 AREA CALCULATION
A.1.0a

gtg383y	8/6/2007 3:37:09 AM
Area Measurement	
Area:	
	738.80 sq ft

gtg383y	8/5/2007 1:55:41 PM
Area Measurement	
Area:	
	16.03 sq ft





gtg383y 8/5/2007 11:26:40 AM
 Area Measurement
 Area:
 563.86 sq feet

1 **CONDITIONED AREA CALCULATION**
 A.1.0.b

revision	description	date

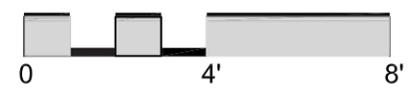
consultants:



prepared by:
Joe Jamgochian
Tony Piede
Nadine Kashlan
 date drawn:
 05.24.07
 03.06.07
 12.06.06

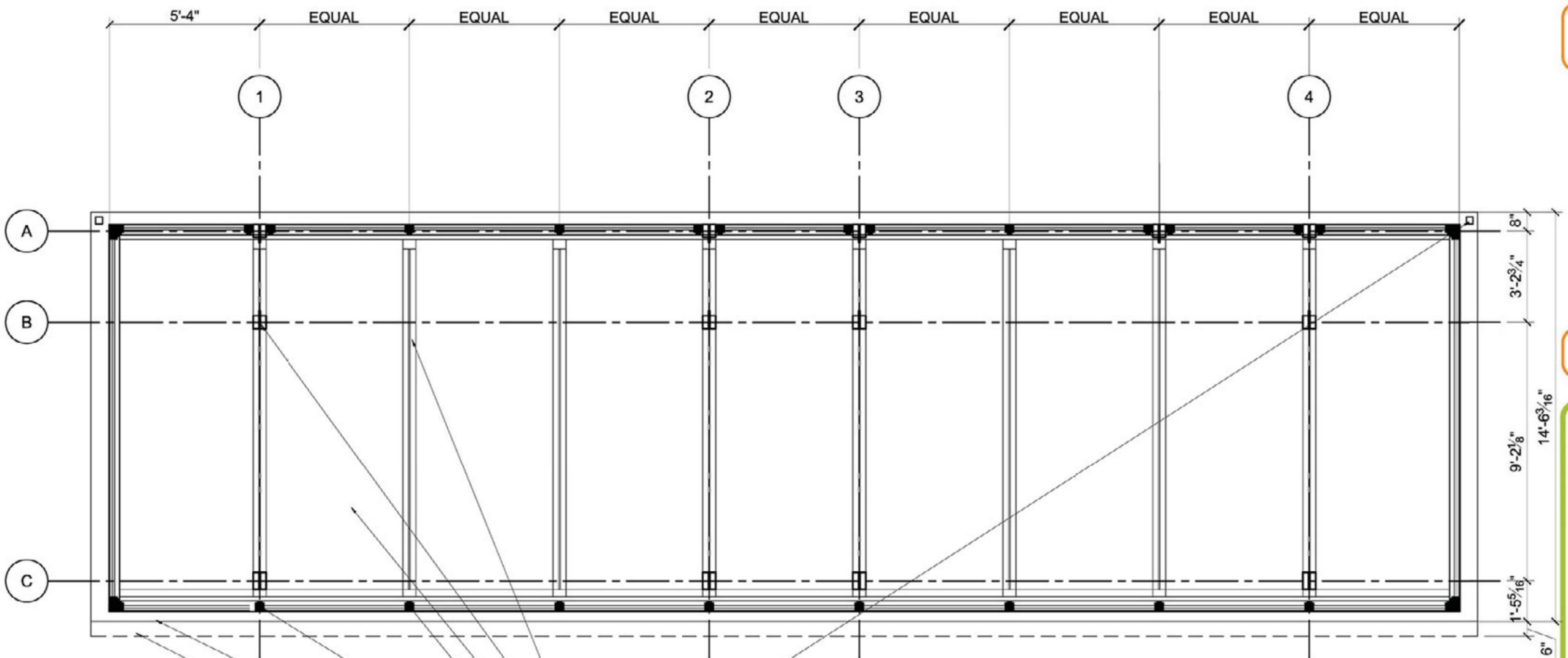
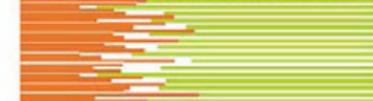


scale: 1/4" = 1'-0"



CONDITIONED AREA CALCULATION

A.1.0b



- DOWNSPOUT
- EXPOSED FLITCH PLATE STRUCTURE
- FLITCH PLATE COLUMN
- AEROGEL SANDWICH PANEL
- FIBERGLASS FRAME MULLION FOR CLERESTORY
- .019 ALUMINUM SOFFIT
- EXTENDED SHADING PANELS

A1 REFLECTED CEILING PLAN
A.1.1



date	description	revision

consultants:



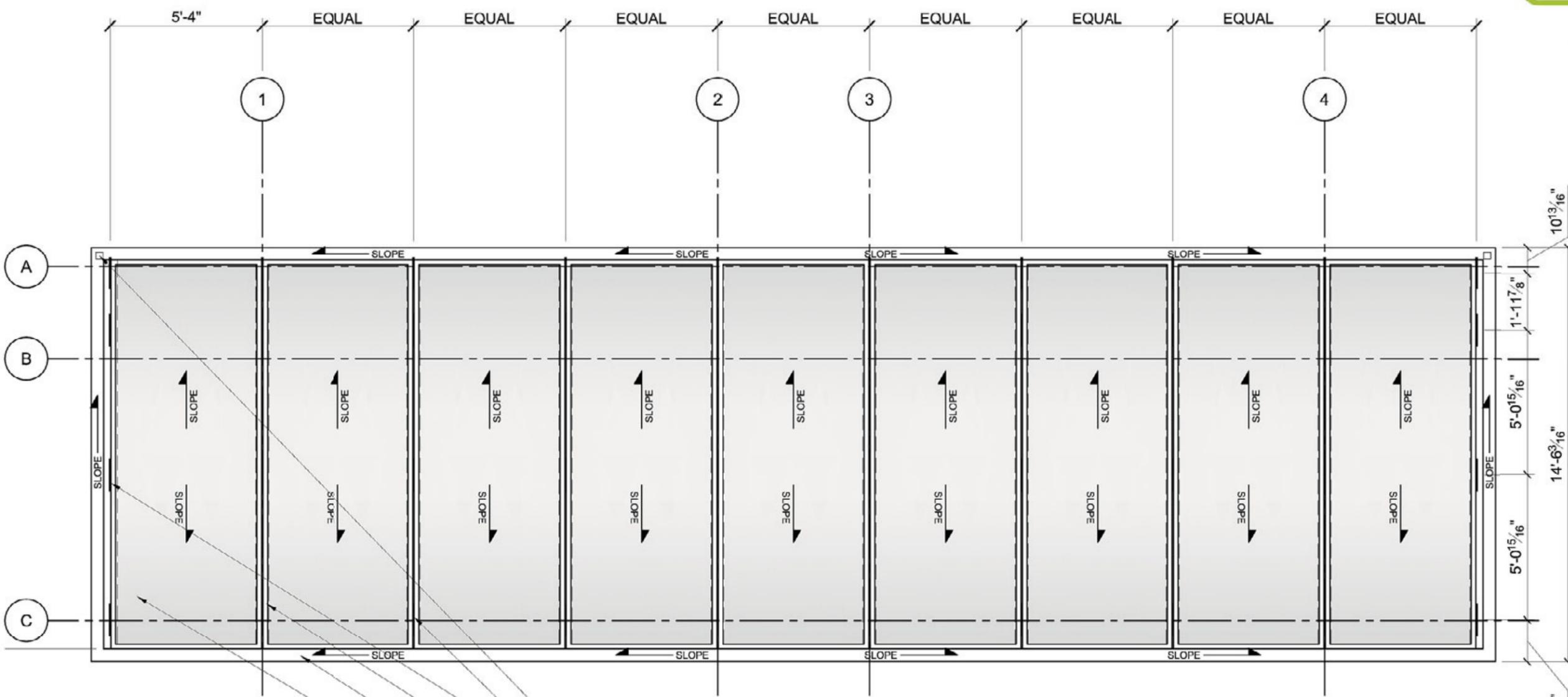
prepared by:
Alstan Jakubiec
date drawn:
12.04.06
03.03.07



scale: 1/4" : 1' 0"

REFLECTED CEILING PLAN

A.1.1



revision	description	date

consultants:



prepared by:
Aistan Jakubiec
date drawn:
12.04.06



scale: **1/4" : 1' 0"**

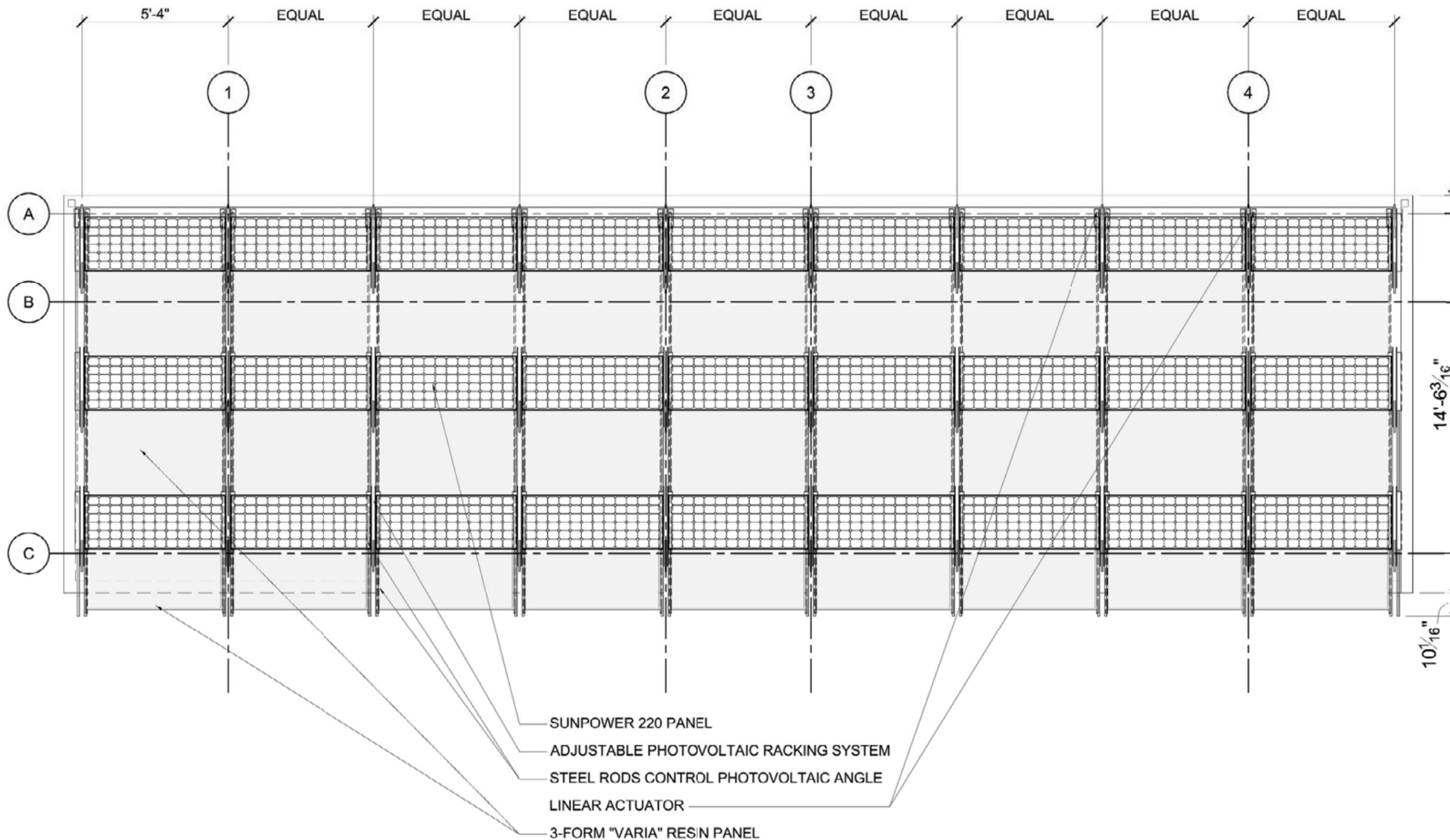
- DOWNSPOUT
- PHOTOVOLTAIC SUPPORT
- STEEL ANCHOR SUPPORT FOR ETFE RAINSCREEN
- CONTINUOUS GUTTER
- ETFE PILLOW

A1 ROOF PLAN AT THE LEVEL OF THE ETFE
A.1.2



ROOF PLAN AT ETFE

A.1.2



revision	description	date

consultants:



prepared by:
Alistan Jakubiec
 date drawn:
 12.04.06
 03.03.07

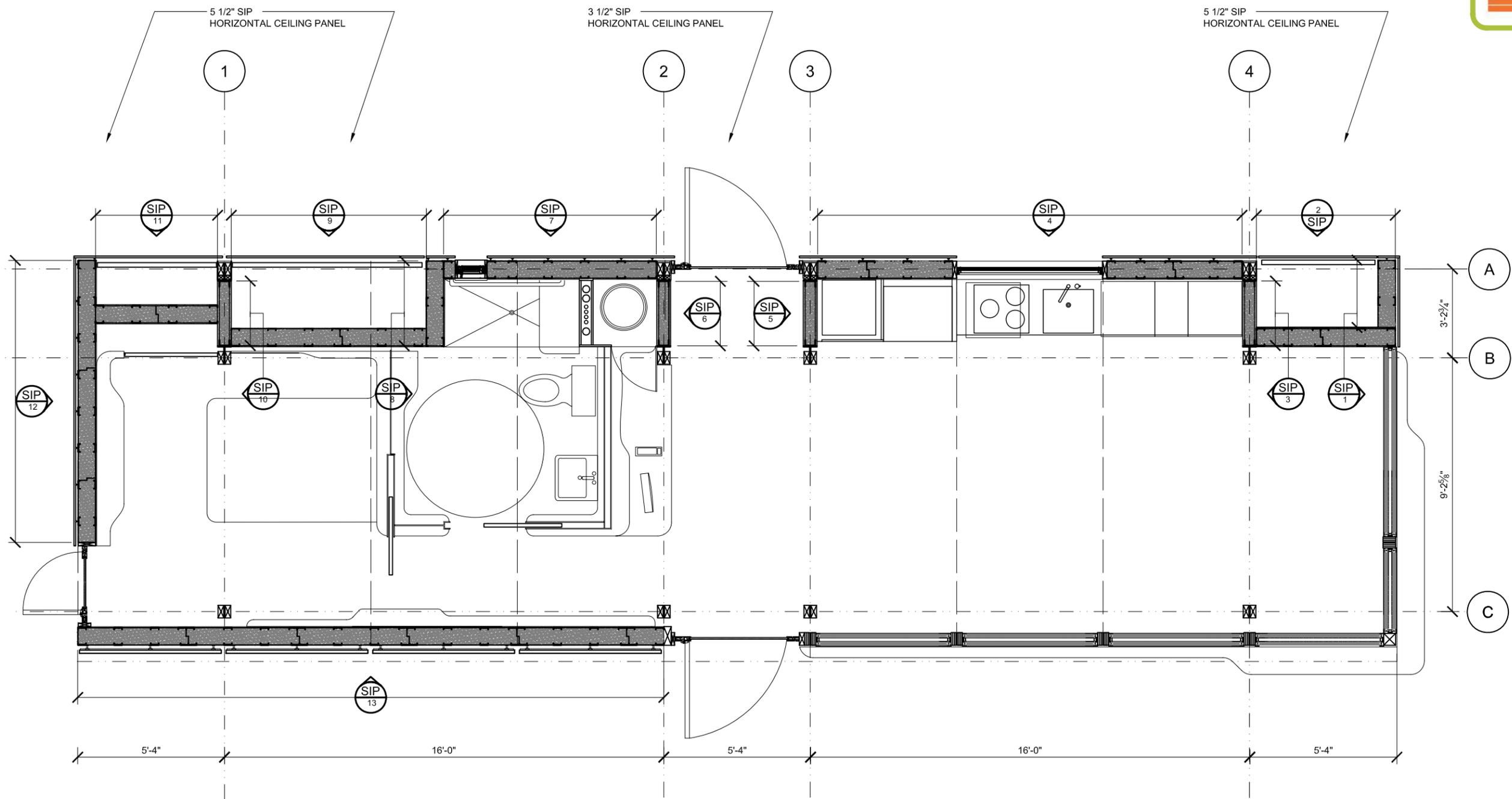


scale: 1/4" : 1' 0"

ROOF PLAN AT PV ARRAY

A1 ROOF PLAN AT PV ARRAY
A.1.3

A.1.3



revision	description	date

consultants:

prepared by:
Tony Piede
Joe Jamgochian
 date drawn:
05.08.07



scale: 1/4" = 1'-0"

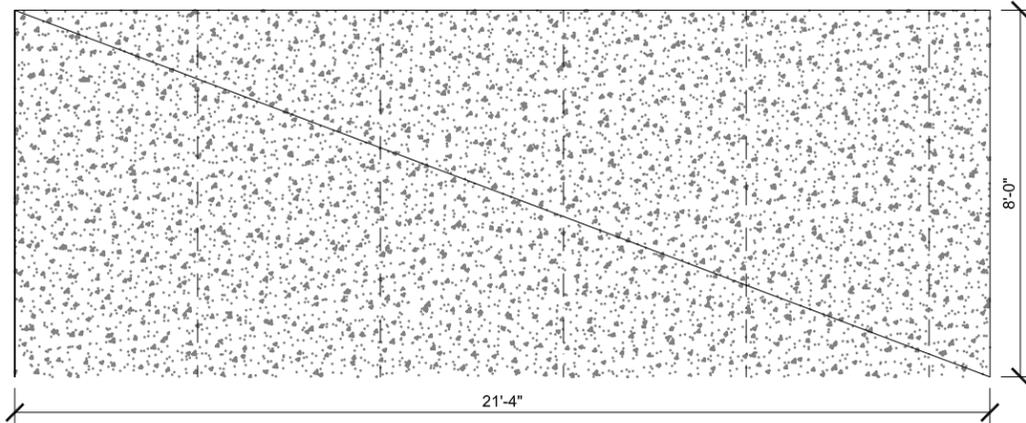
SIP FABRICATION PLAN (THERMASTEEL)

1
A.1.4
FLOOR PLAN w/ SIP FABRICATION TAGS

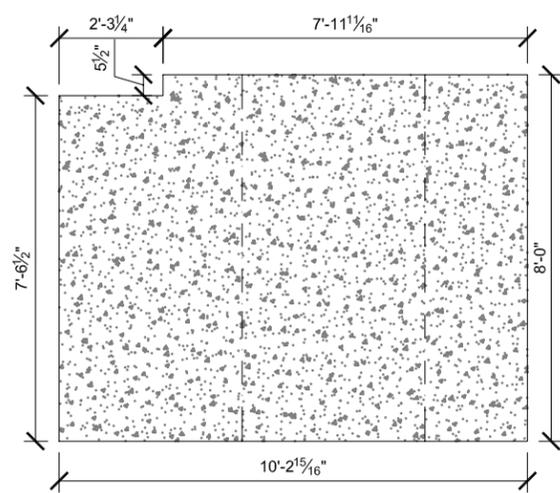
- NOTES**
1. ALL VERTICAL PANELS 7 1/2" SIP EXCEPT SHEAR PANELS WHERE LABELED.
 2. ALL HORIZONTAL CEILING PANELS 5 1/2" SIP.
 3. ALL ELEVATIONS FROM OUTSIDE OF HOUSE EXCEPT SIPs 5 AND 6.



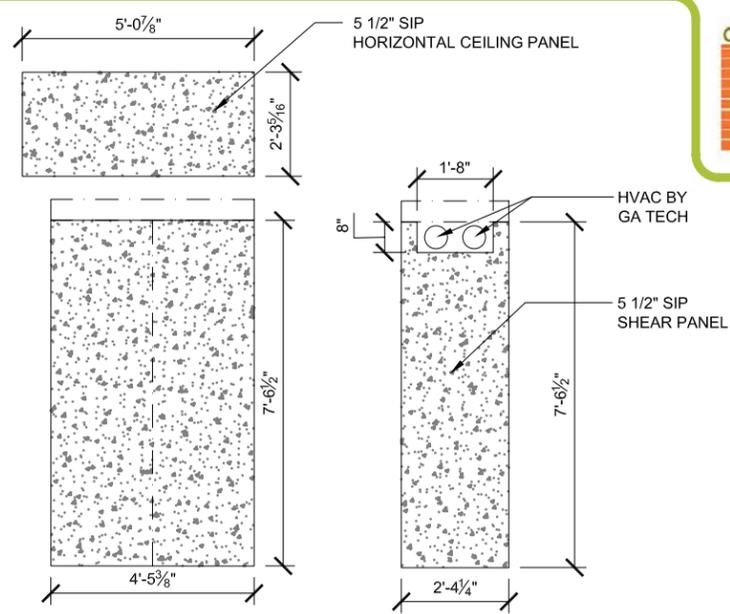
A.1.4



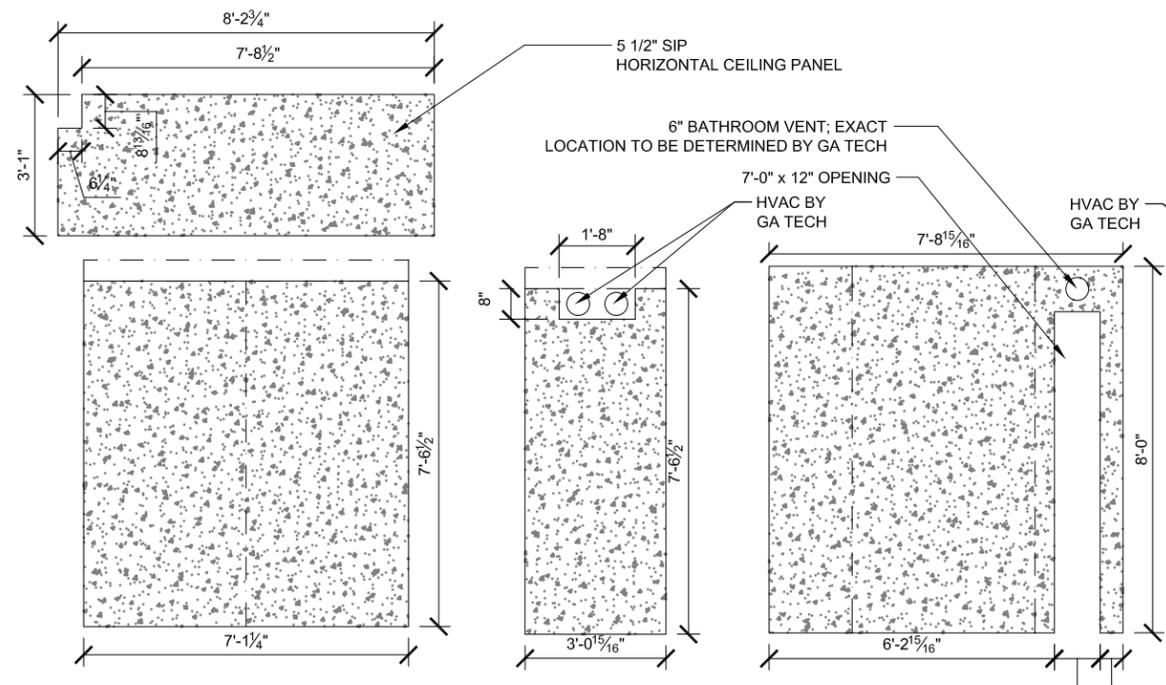
SIP 13 SOUTH ELEVATION WALL



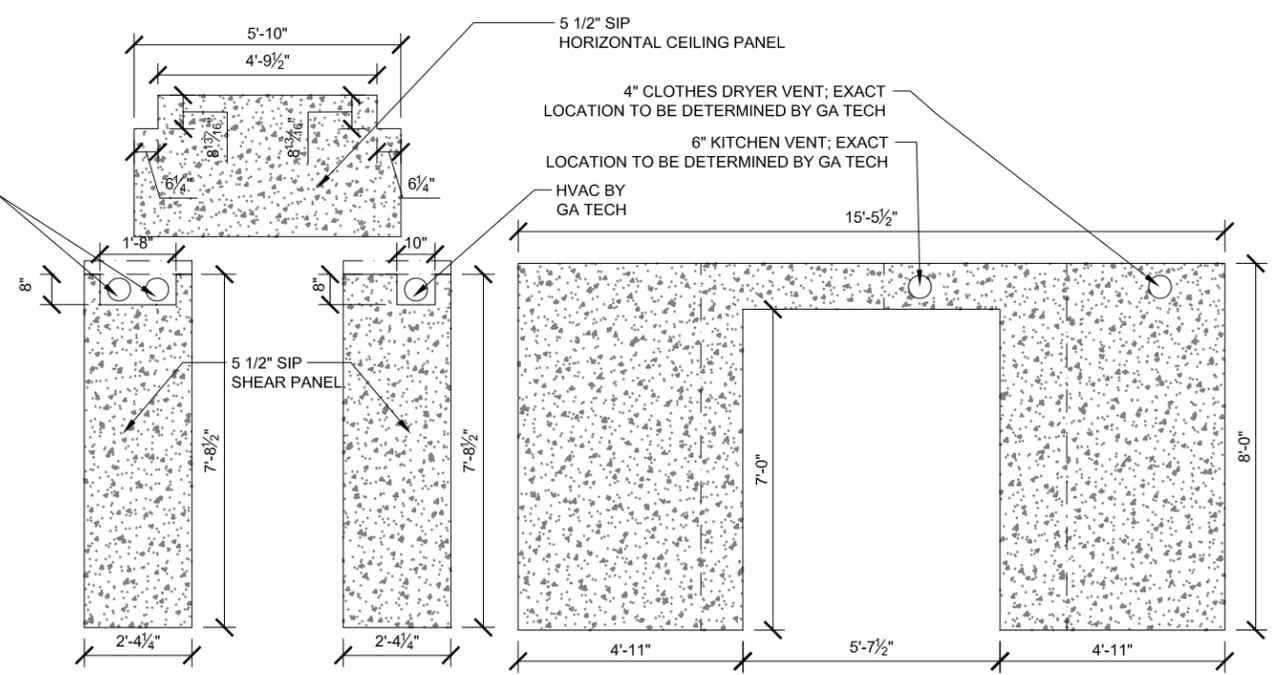
SIP 12 WEST ELEVATION WALL



SIP 11 DRAWING SIP 10 DRAWING



SIP 9 DRAWING SIP 8 DRAWING SIP 7 DRAWING



SIP 6 DRAWING SIP 5 DRAWING SIP 4 DRAWING

NOTES

1. ALL VERTICAL PANELS 7 1/2" SIP EXCEPT SHEAR PANELS WHERE LABELED.
2. ALL HORIZONTAL CEILING PANELS 5 1/2" SIP.
3. ALL ELEVATIONS FROM OUTSIDE OF HOUSE EXCEPT SIPs 5 AND 6.



revision	description	date

consultants:



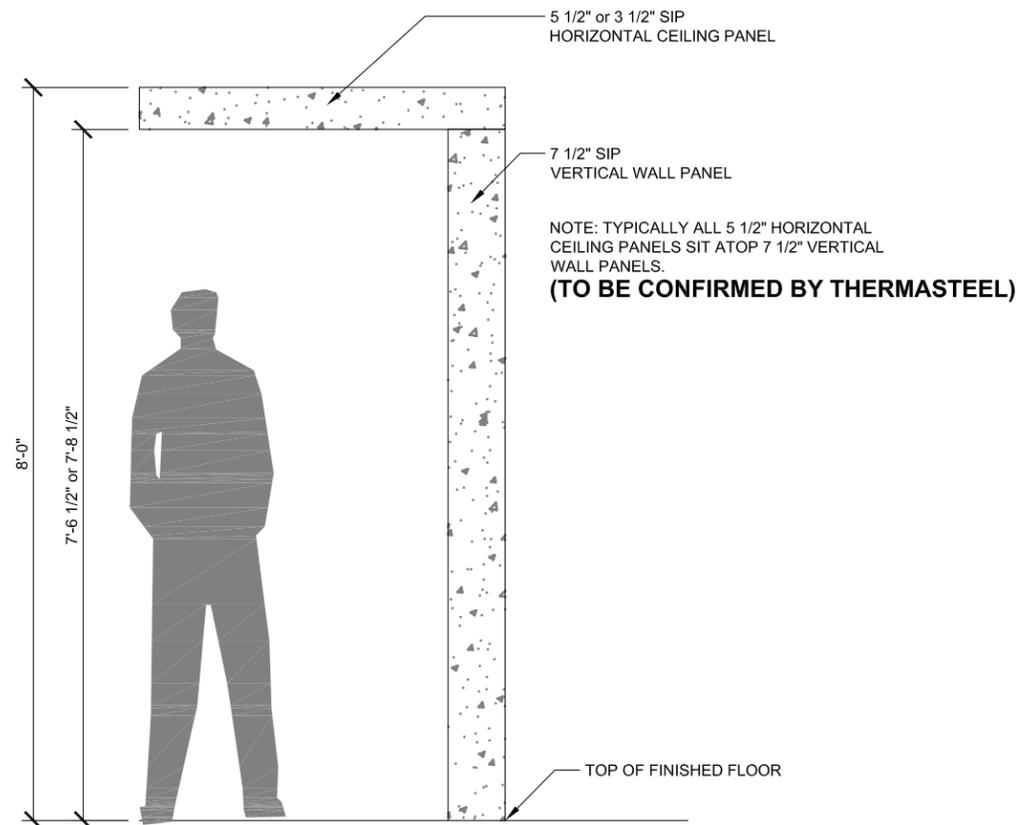
prepared by:
Tony Piede
Joe Jamgochian
 date drawn:
05.08.07



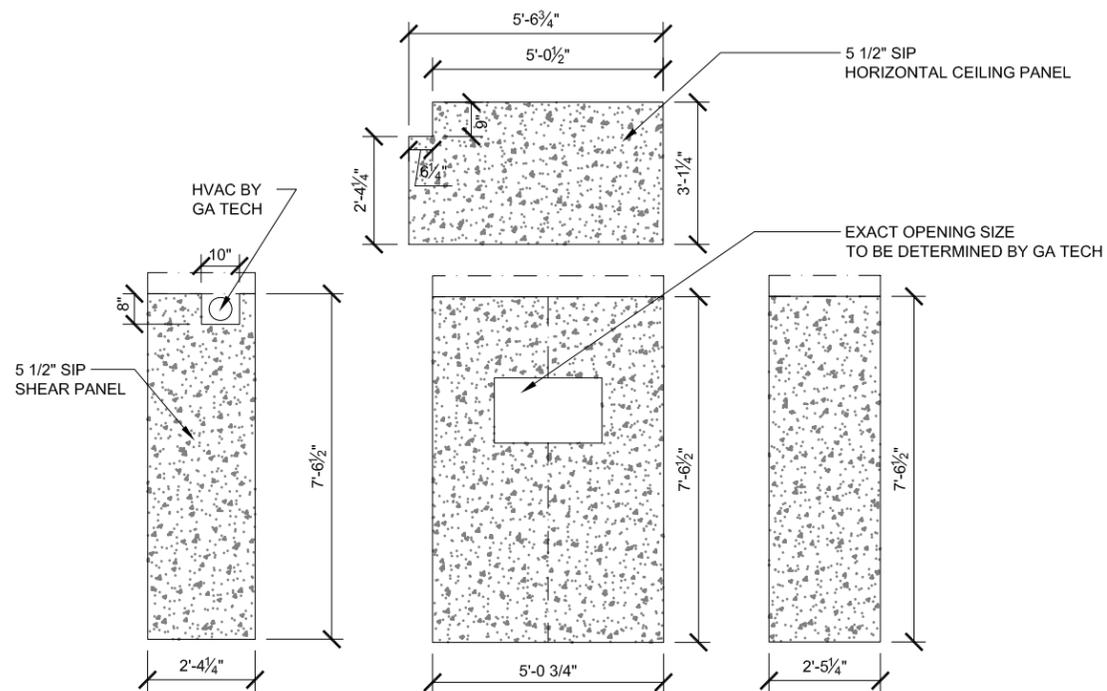
scale: 1/4" = 1'-0"

SIP FABRICATION ELEVATIONS (THERMASTEEL)

A.1.4.a



1 TYPICAL SECTION - SCALE: 1/2" : 1'-0"
A.1.2



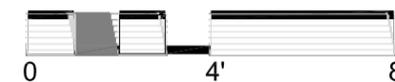
SIP DRAWING
3

SIP DRAWING
2

SIP DRAWING
1

NOTES

1. ALL VERTICAL PANELS 7 1/2" SIP EXCEPT SHEAR PANELS WHERE LABELED.
2. ALL ELEVATIONS FROM OUTSIDE OF HOUSE EXCEPT SIPs 5 AND 6.



revision	description	date

consultants:



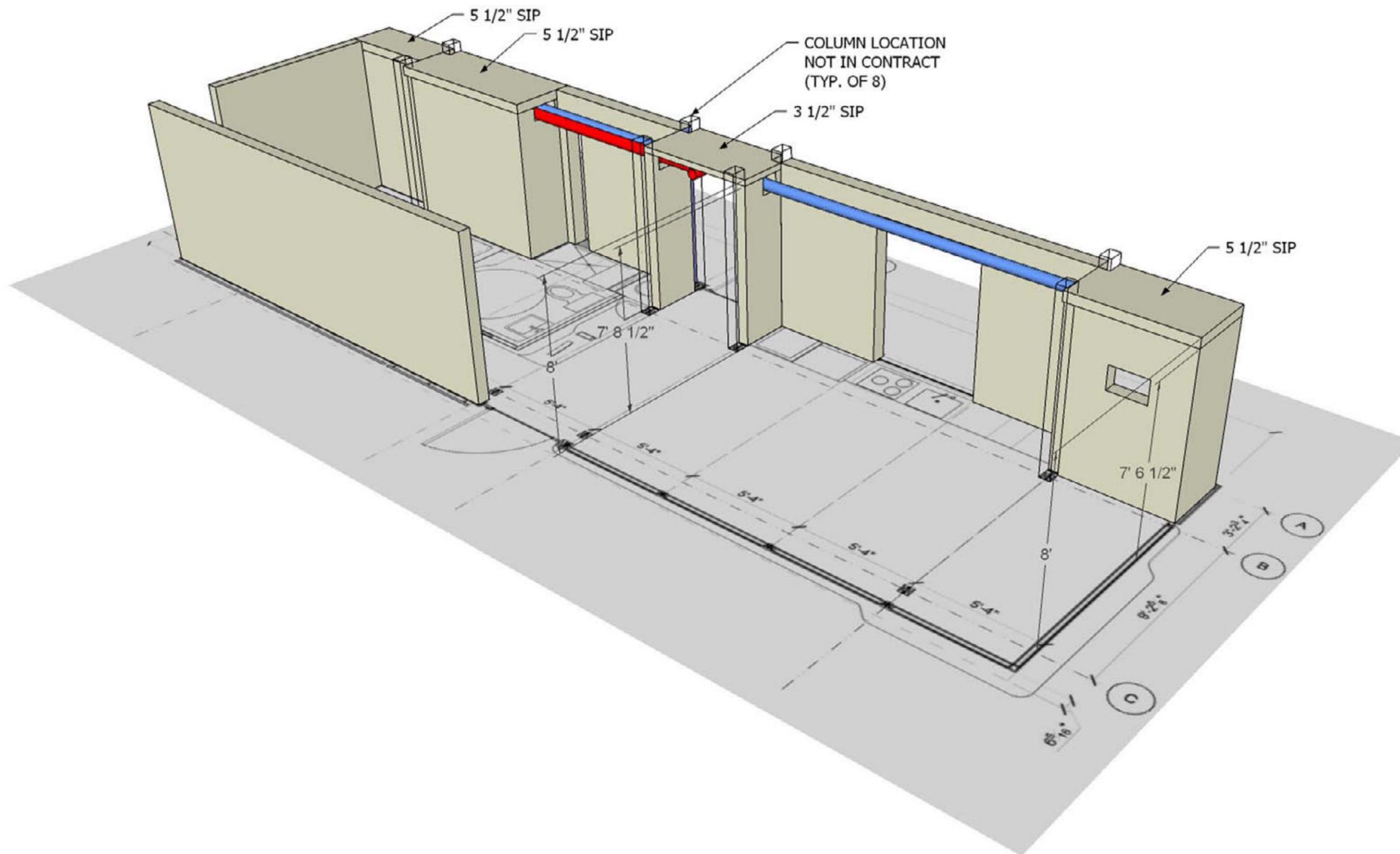
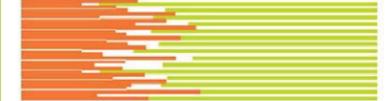
prepared by:
Tony Piede
Joe Jamgochian
date drawn:
05.08.07



scale: 1/4" = 1'-0"

SIP FABRICATION ELEVATIONS (THERMASTEEL)

A.1.4.b

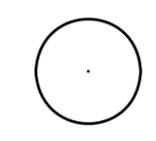


revision	description	date

consultants:



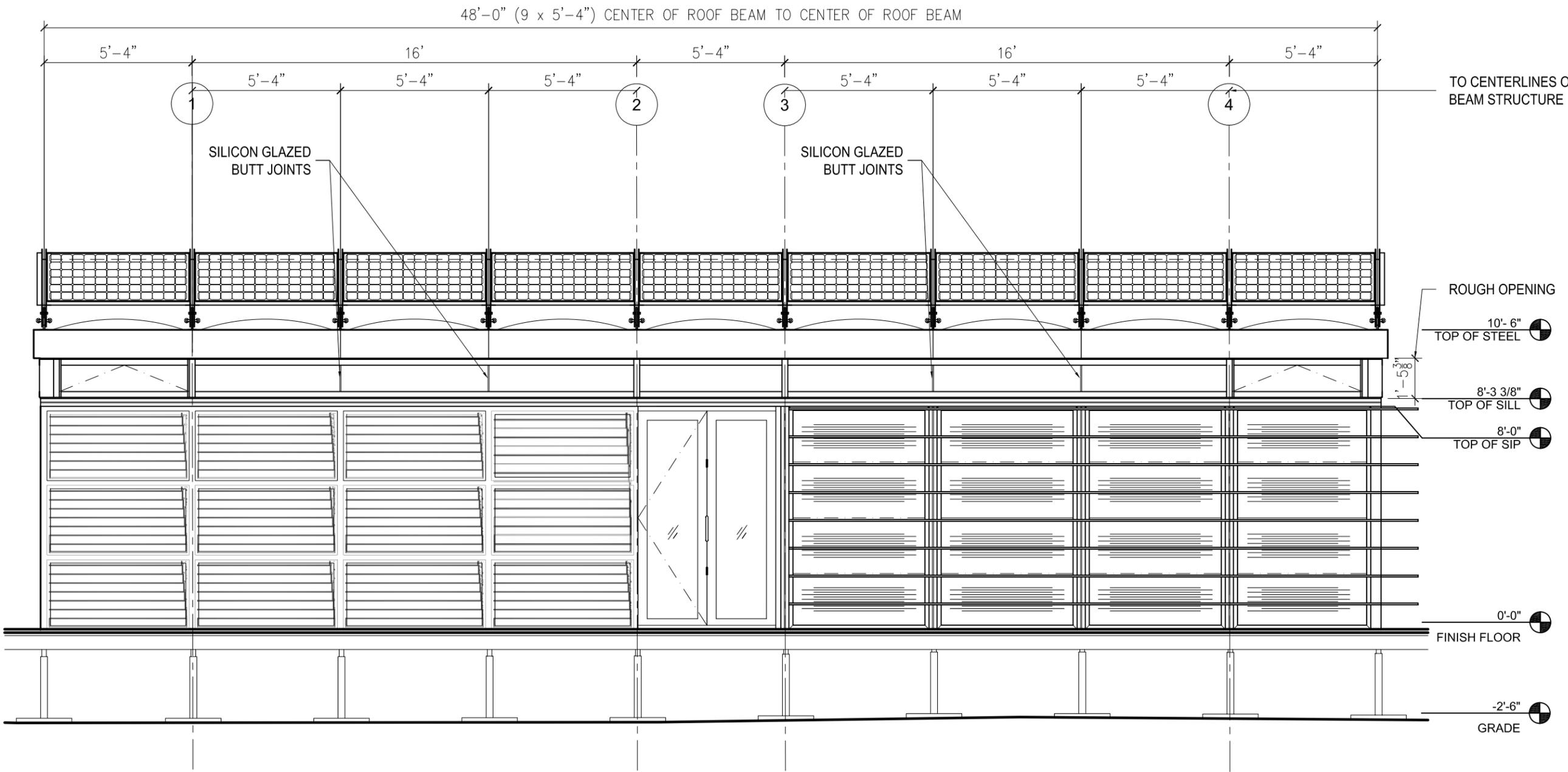
prepared by:
Tony Piede
Joe Jamgochian
 date drawn:
05.08.07



scale: **N.T.S.**

SIP FABRICATION MODEL (THERMASTEEL)

A.1.4.C



revision	description	date
A	clerestory revisions	06.01.07
B	annotation changes as per June 21	06.21.07

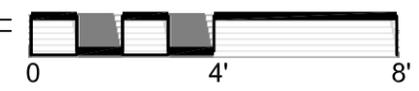
consultants:

prepared by:
C. Luchian
A. Jakubiec
J. Jamgochian

date drawn:
 11.25.06
 03.03.07
 04.20.07
 05.18.07

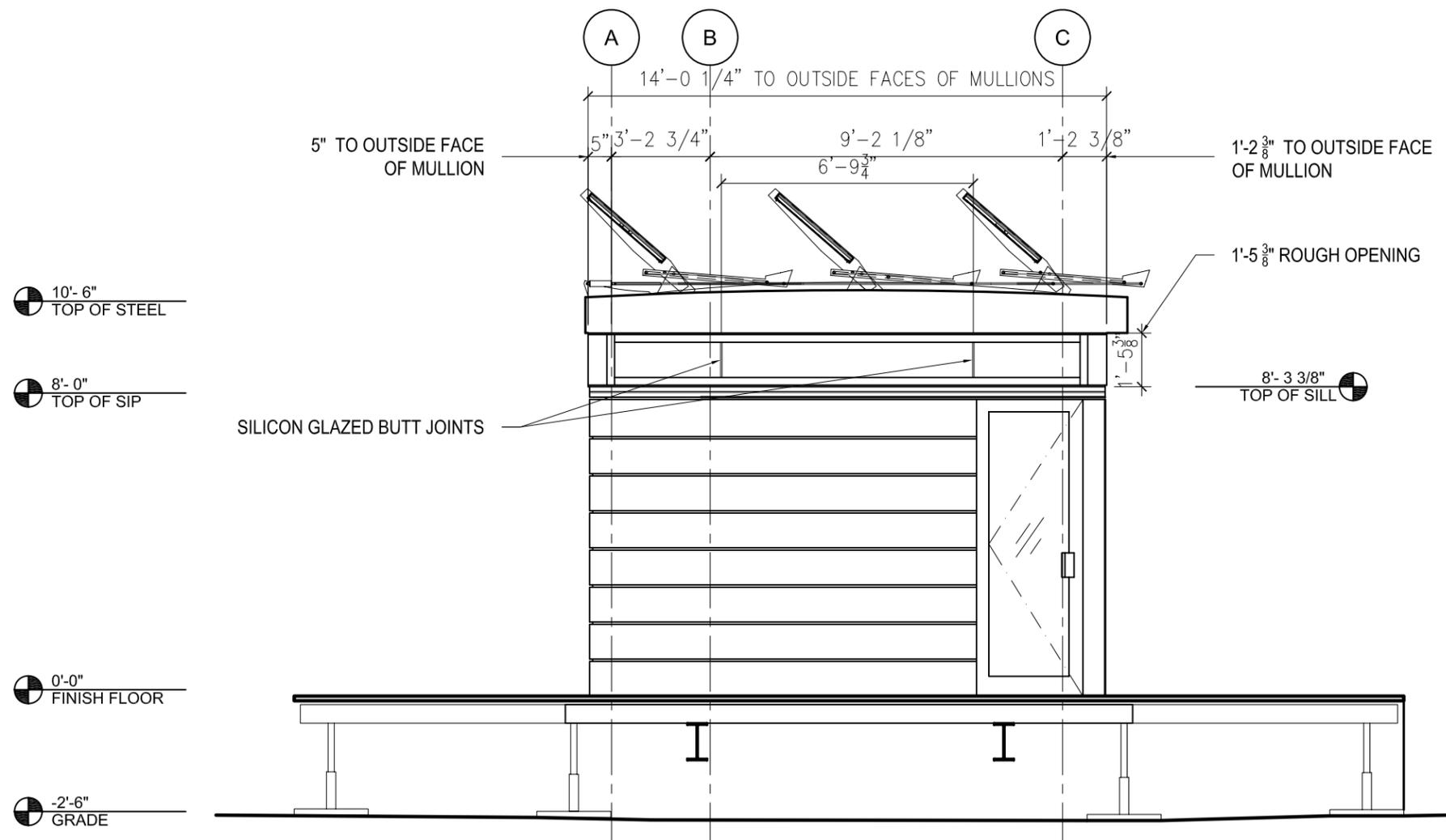
scale: 1/4" : 1' 0"

1 SOUTH ELEVATION
 A.2.0



EXTERIOR ELEVATIONS: SOUTH

A.2.0



1
A.2.1

WEST ELEVATION



revision	description	date
A	clerestory revisions	06.01.07
B	annotation changes as per June 21	06.21.07

consultants:

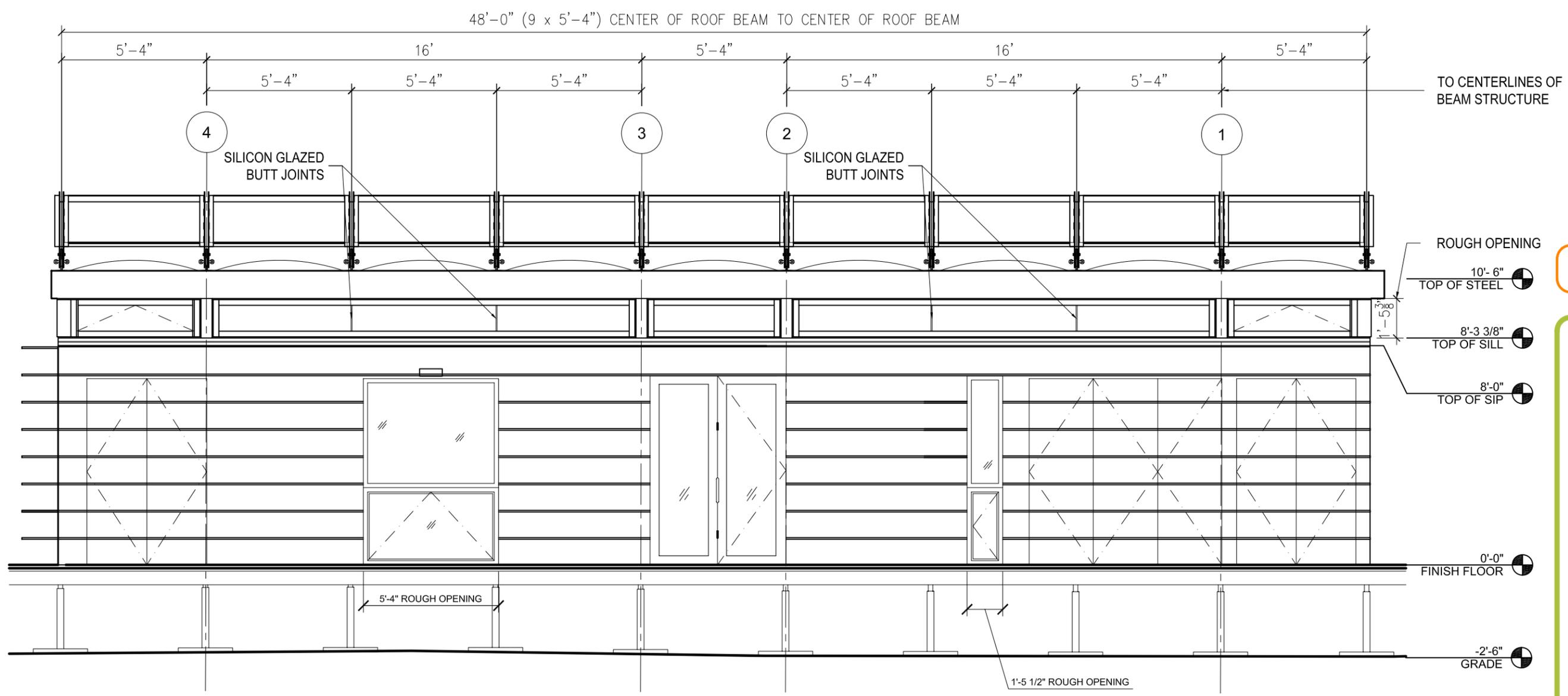


prepared by:
C. Luchian
A. Jakubiec
D. Lott
 date drawn:
 11.25.06
 03.03.07
 04.20.07

scale: 1/4" : 1' 0"

A.2.1

EXTERIOR ELEVATIONS: WEST



revision	description	date
A	clerestory revisions	06.01.07
B	annotation changes as per June 21	06.21.07

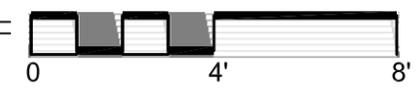
consultants:

prepared by:
C. Luchian
A. Jakubiec
J. Jamgochian

date drawn:
 11.25.06
 03.03.07
 04.20.07
 05.18.07

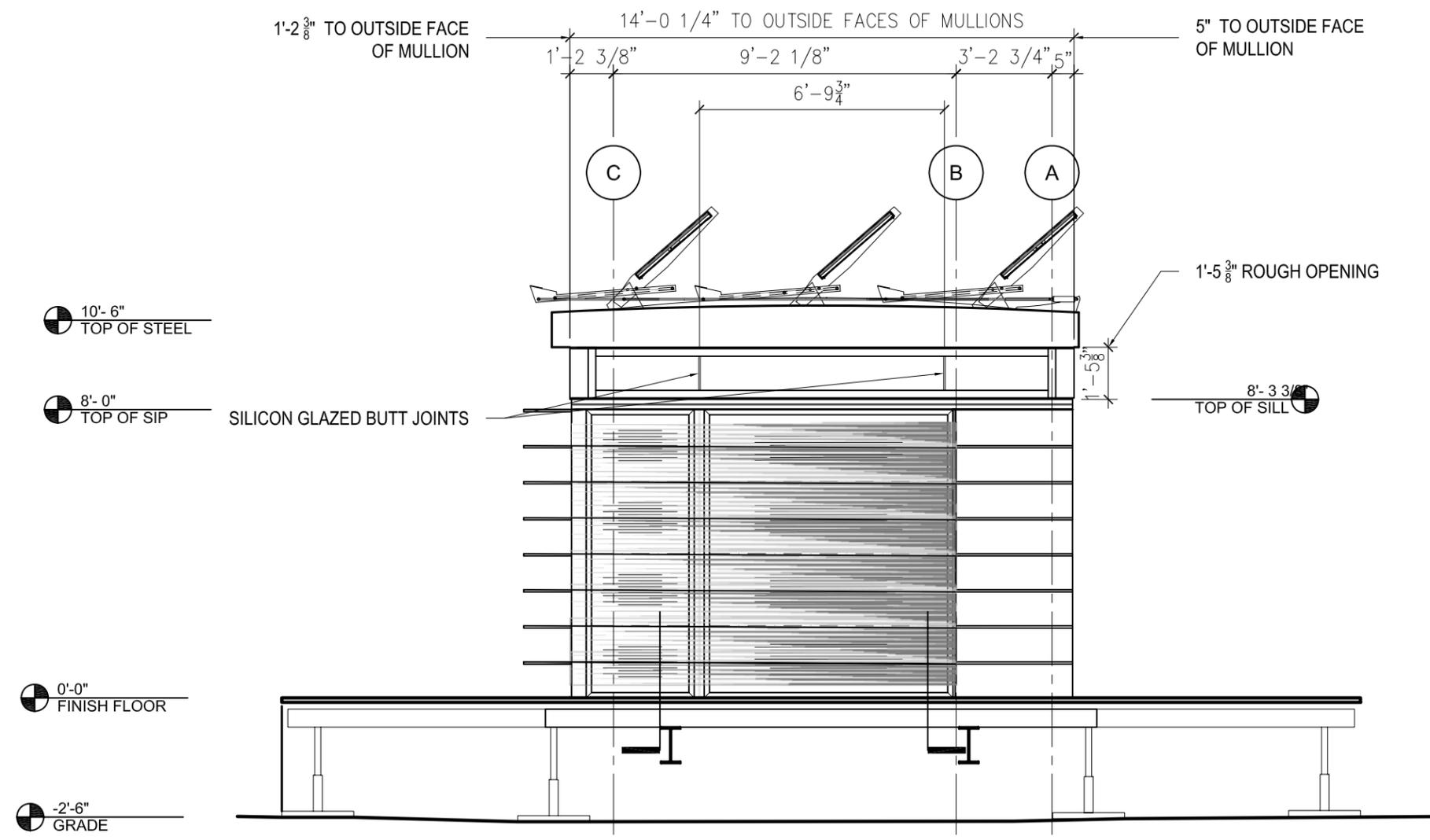
scale: 1/4" : 1' 0"

1 NORTH ELEVATION
 A.2.2



EXTERIOR ELEVATIONS: NORTH

A.2.2



revision	description	date
A	clerestory revisions	06.01.07
B	annotation changes as per June 21	06.21.07

consultants:

prepared by:
C. Luchian
A. Jakubiec
J. Jamgochian

date drawn:
11.25.06
03.03.07
04.20.07
05.18.07

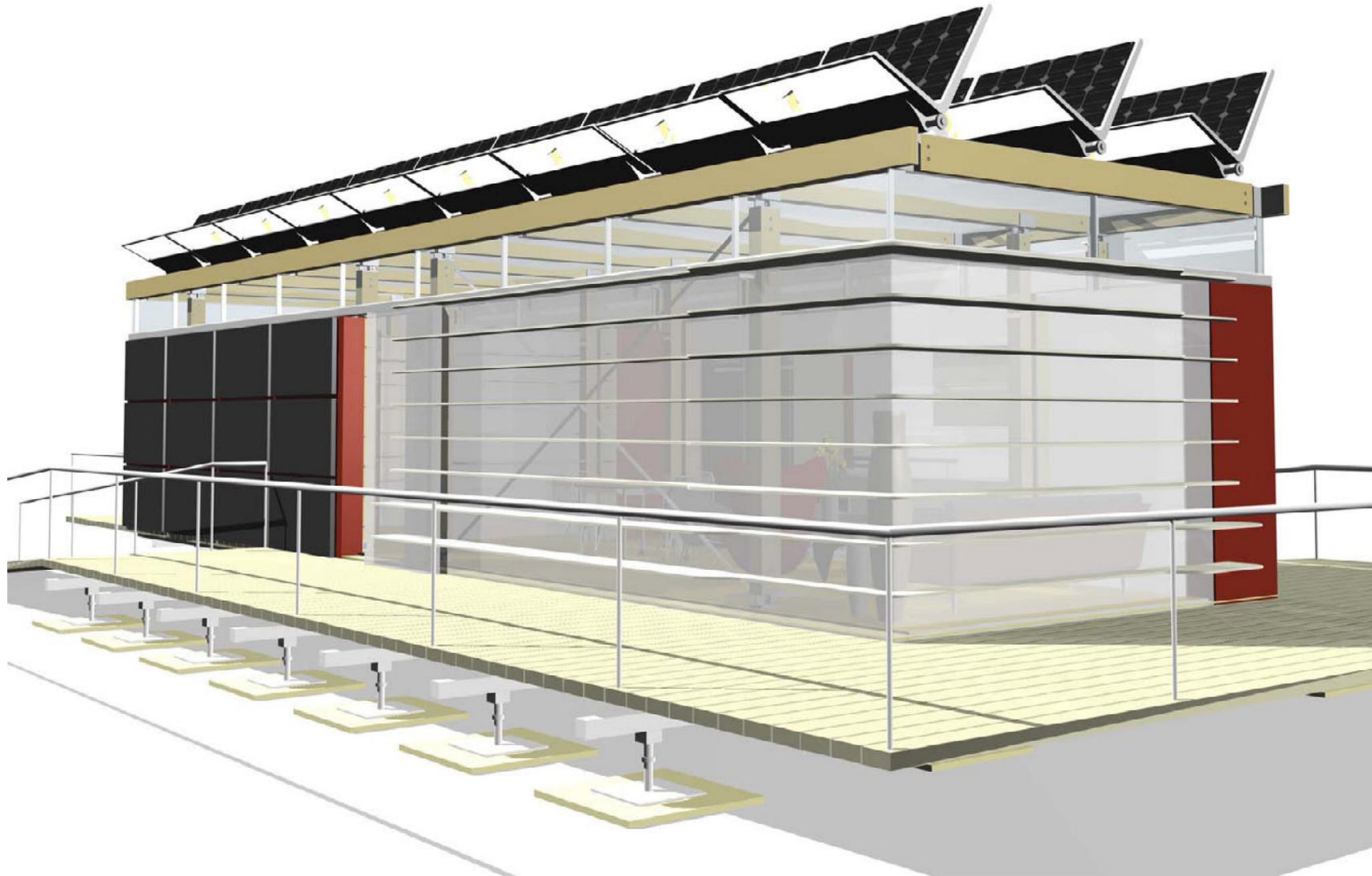
scale: 1/4" : 1' 0"

1 EAST ELEVATION
A.2.3



EXTERIOR ELEVATIONS: EAST

A.2.3



revision	description	date

consultants:



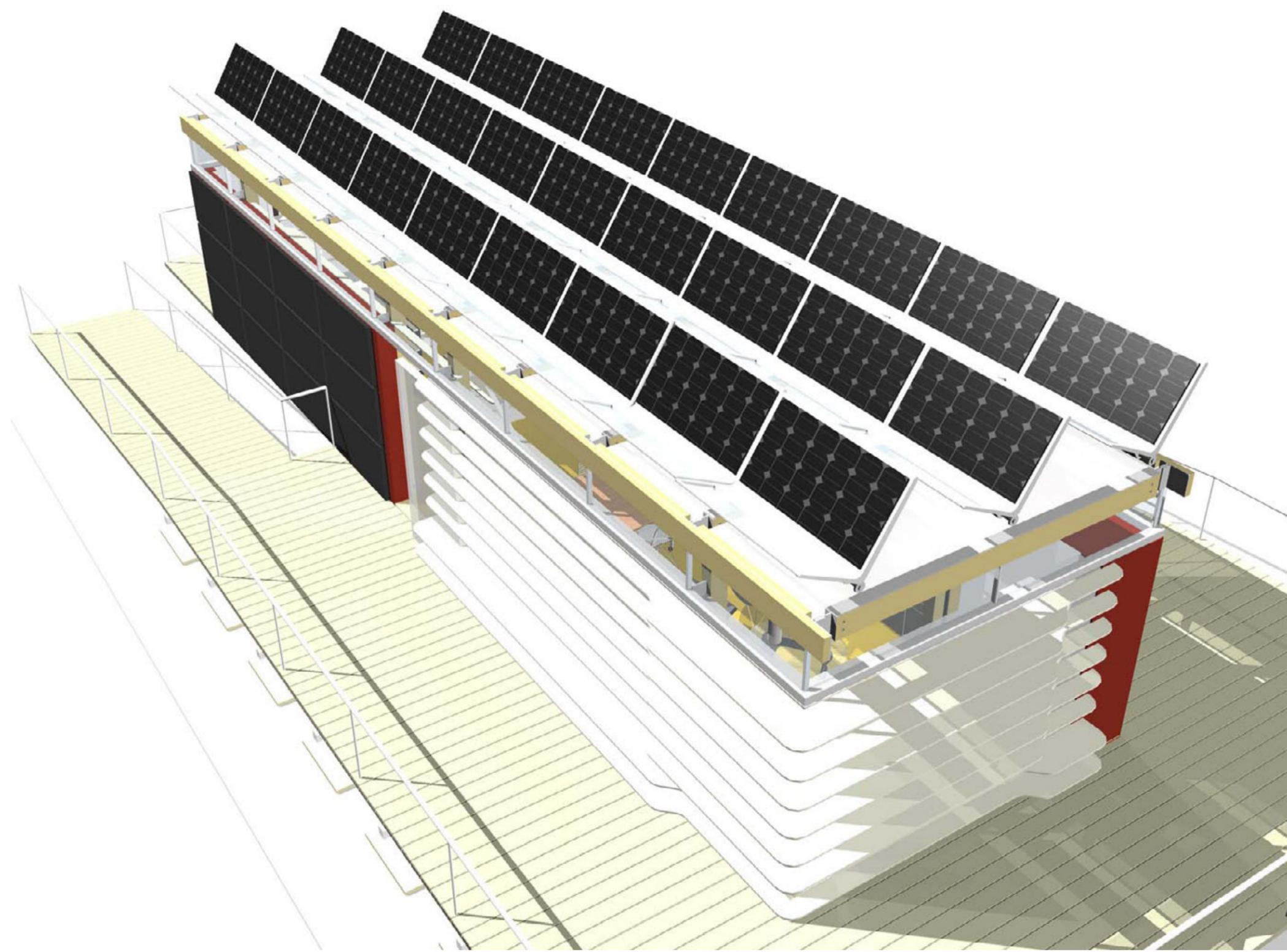
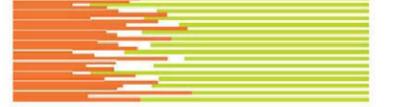
prepared by:
Nadine Kashlan
 date drawn:
 11.27.06



scale: 1/4" : 1' 0"

A.2.4

EXTERIOR VIEW : southeast corner



revision	description	date

consultants:



prepared by:
Nadine Kashlan

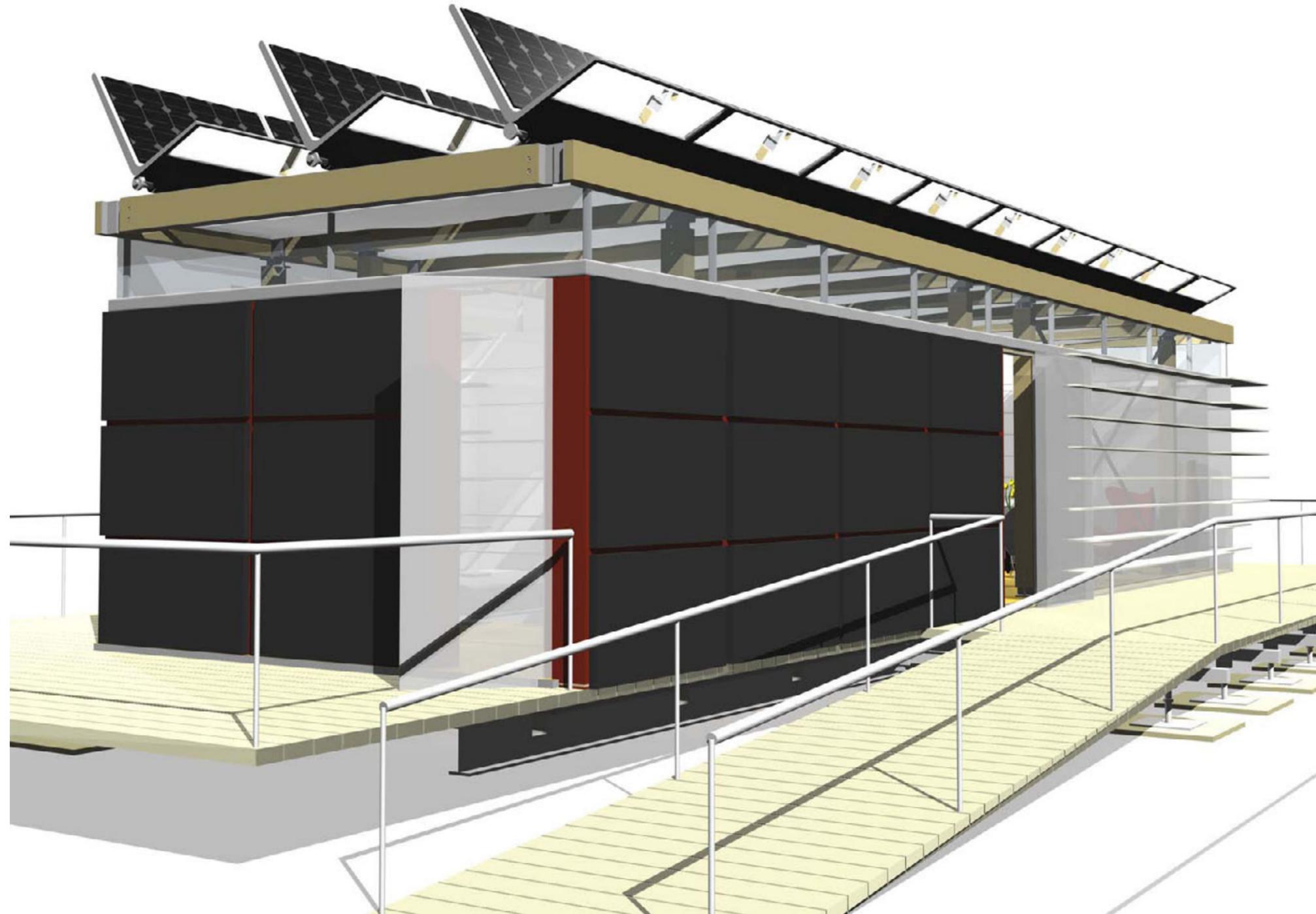
date drawn:
11.27.06



scale: 1/4" : 1' 0"

A.2.5

EXTERIOR VIEW : aerial southeast corner



revision	description	date

consultants:



prepared by:
Nadine Kashlan

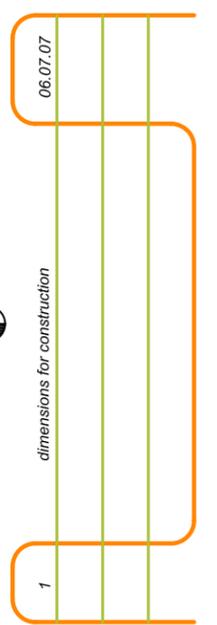
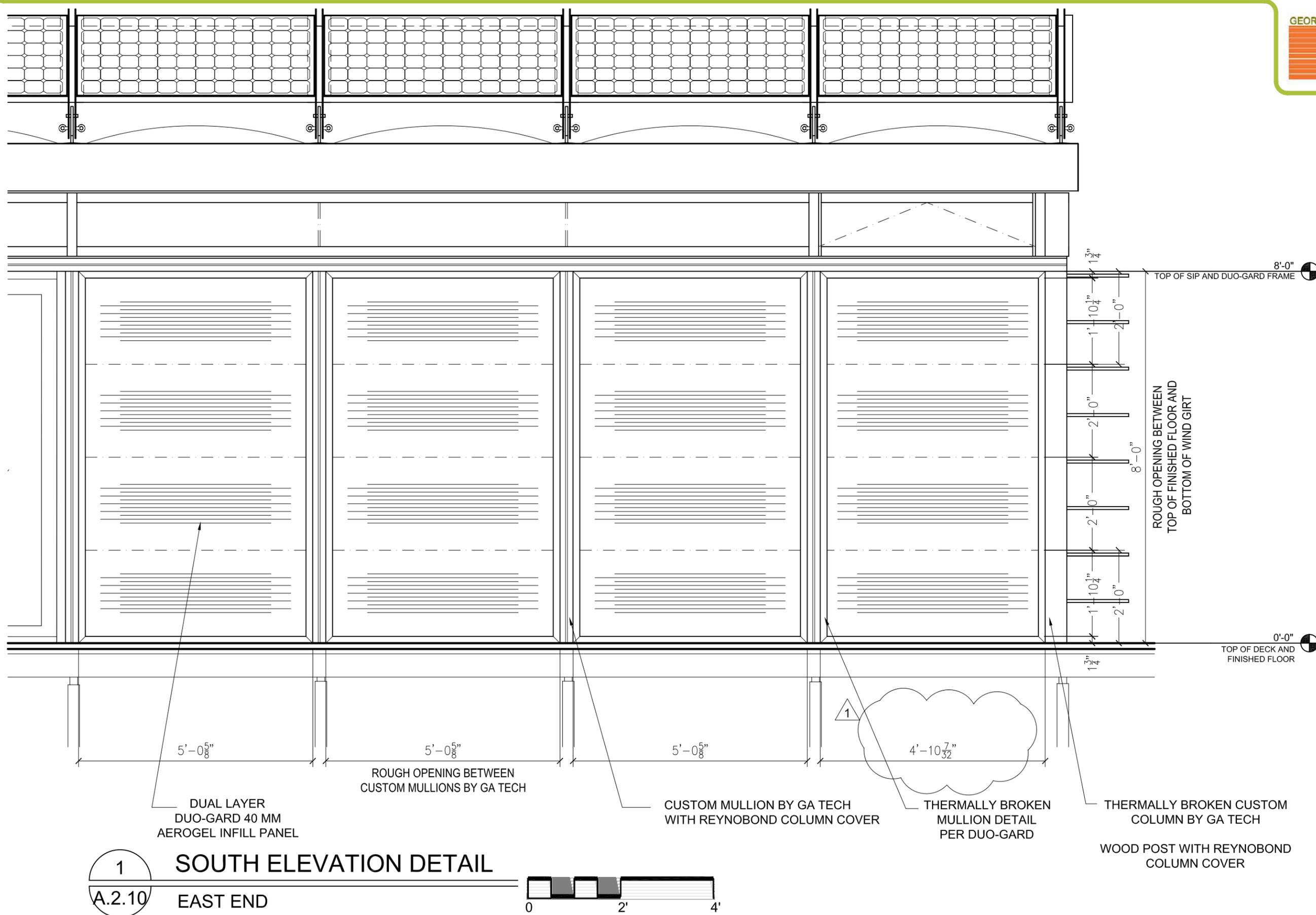
date drawn:
11.27.06



scale: 1/4" : 1' 0"

A.2.6

EXTERIOR VIEW : southwest corner



consultants:



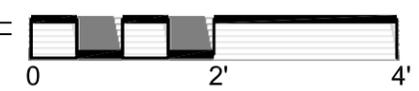
prepared by:
J. Jamgochian
date drawn:
05.22.07

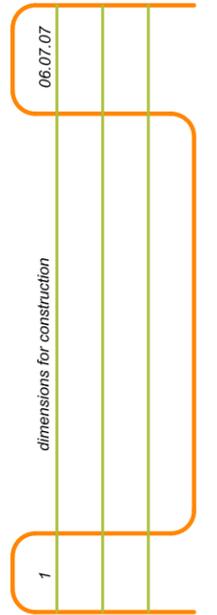
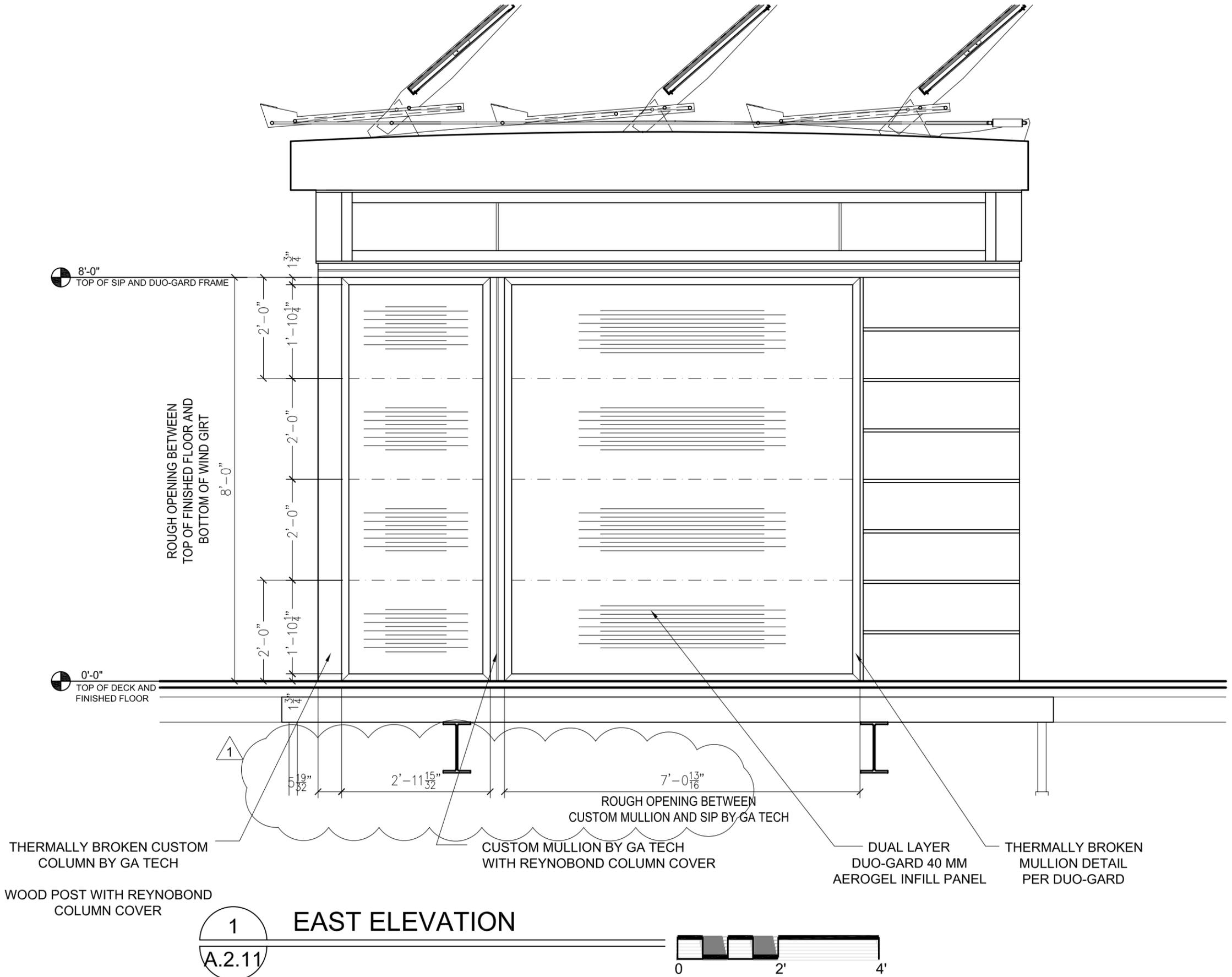
scale: 1/2" : 1' 0"

A.2.10

DUO-GARD ELEVATIONS

1 SOUTH ELEVATION DETAIL
A.2.10 EAST END





consultants:

|||||

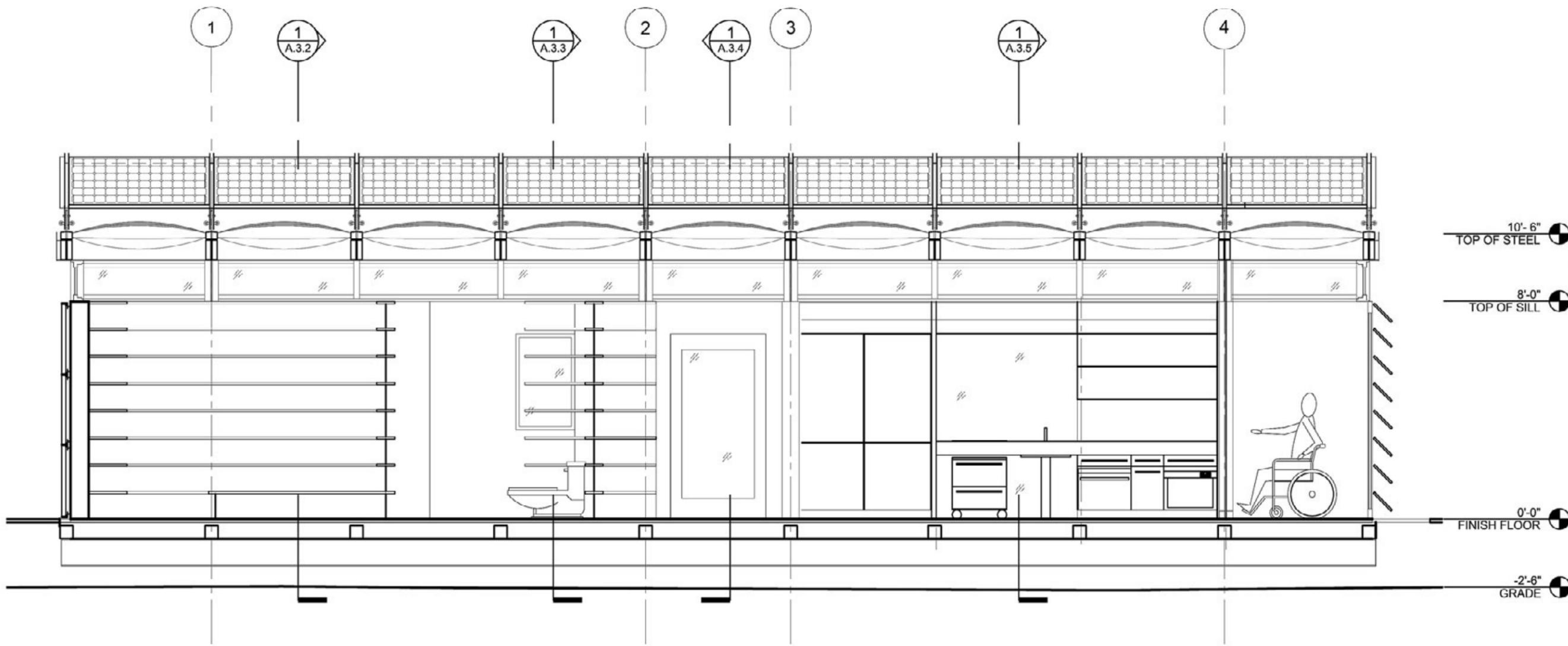


prepared by:
J. Jamgochian
 date drawn:
05.22.07

scale: 1/2" : 1' 0"

A.2.11

DUO-GARD ELEVATIONS



revision	description	date

consultants:



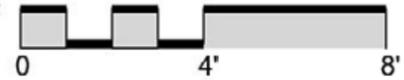
prepared by:
C. Luchian
 date drawn:
 11.25.06
 03.03.07

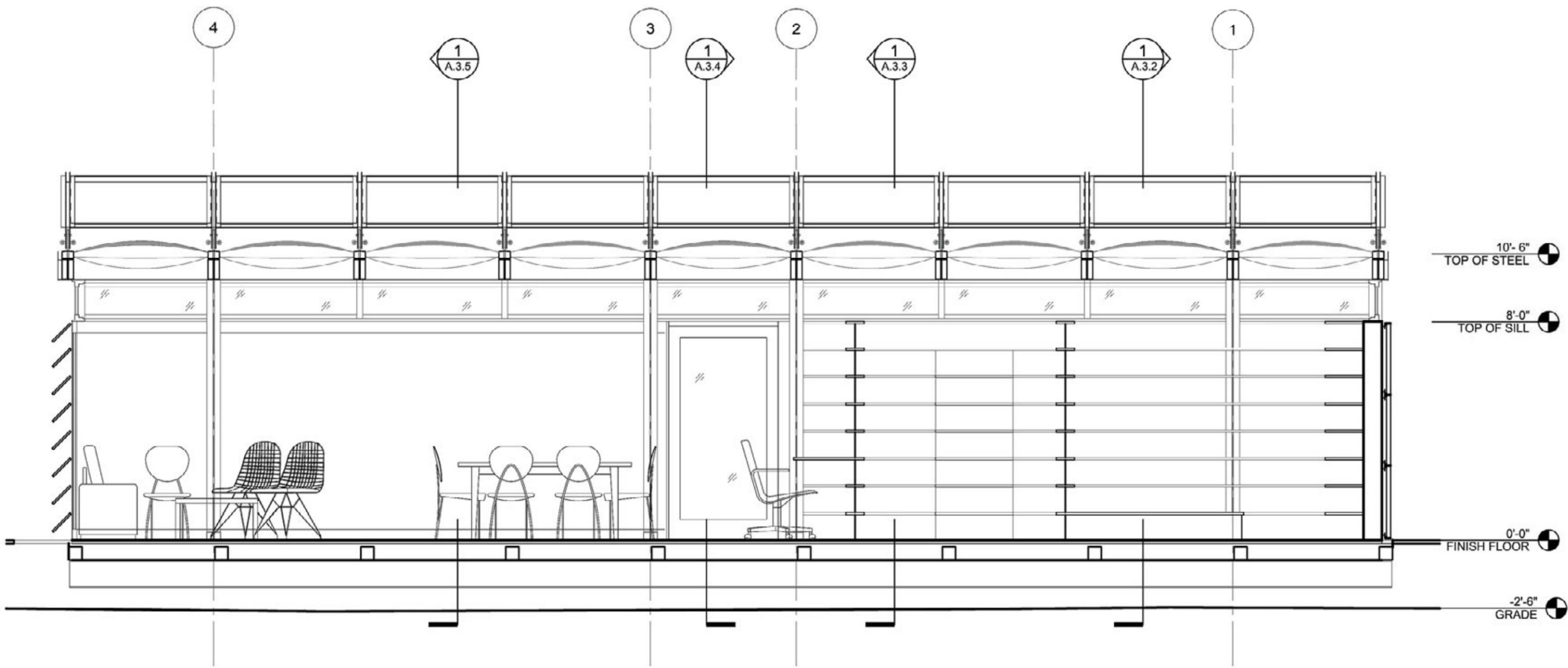
scale: 1/4" : 1' 0"

A.3.0

LONGITUDINAL SECTION

1 LONGITUDINAL SECTION
A.3.0





revision	description	date

consultants:



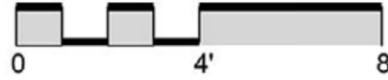

prepared by:
C. Luchian
date drawn:
11.25.06
03.03.07

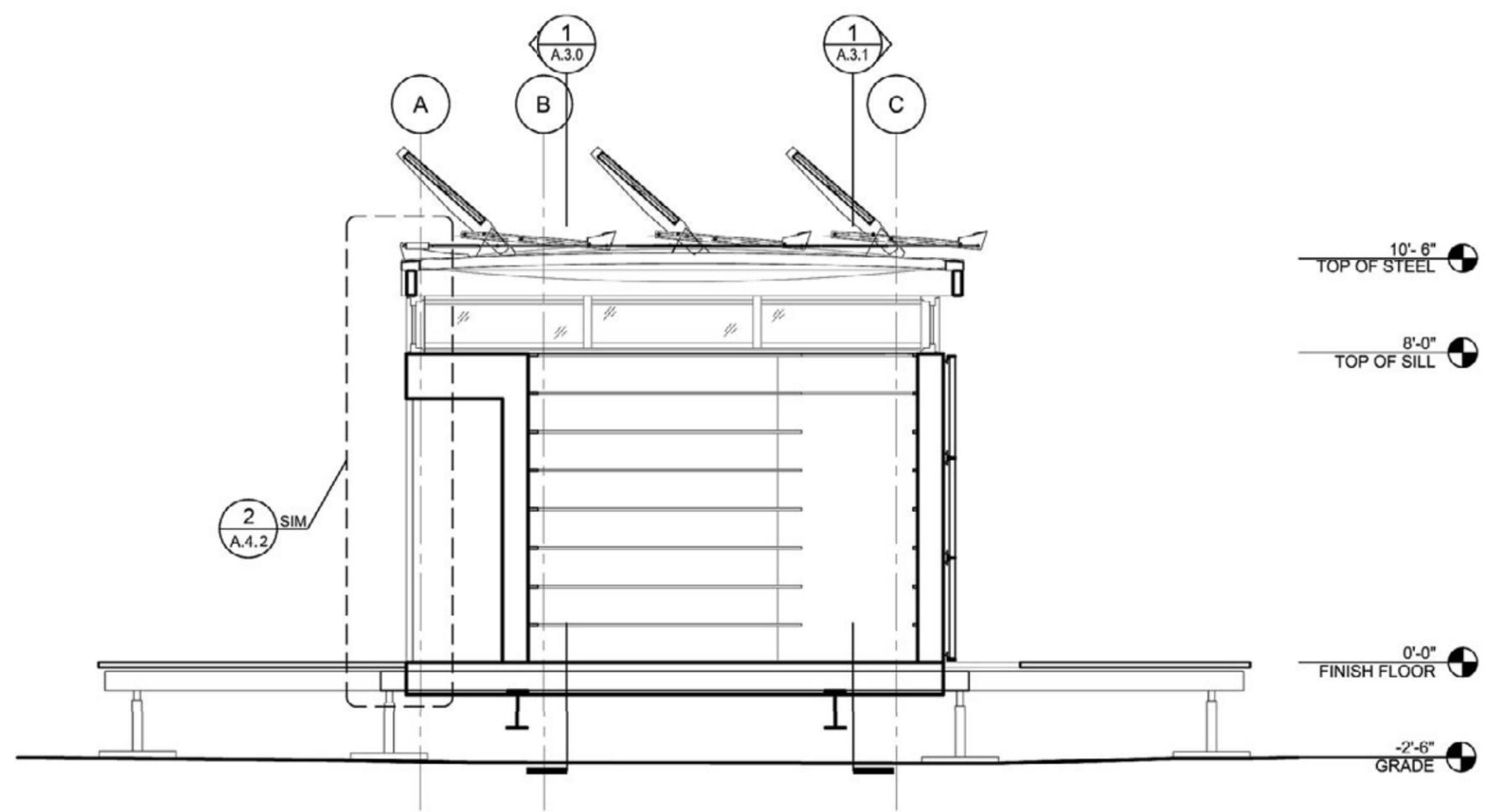
scale: 1/4" : 1' 0"

A.3.1

LONGITUDINAL SECTION

1 LONGITUDINAL SECTION
A.3.1





revision	description	date

consultants:



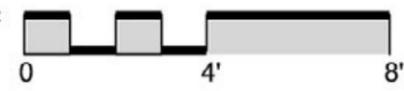
prepared by:
C. Luchian
 date drawn:
 11.25.06
 03.03.07

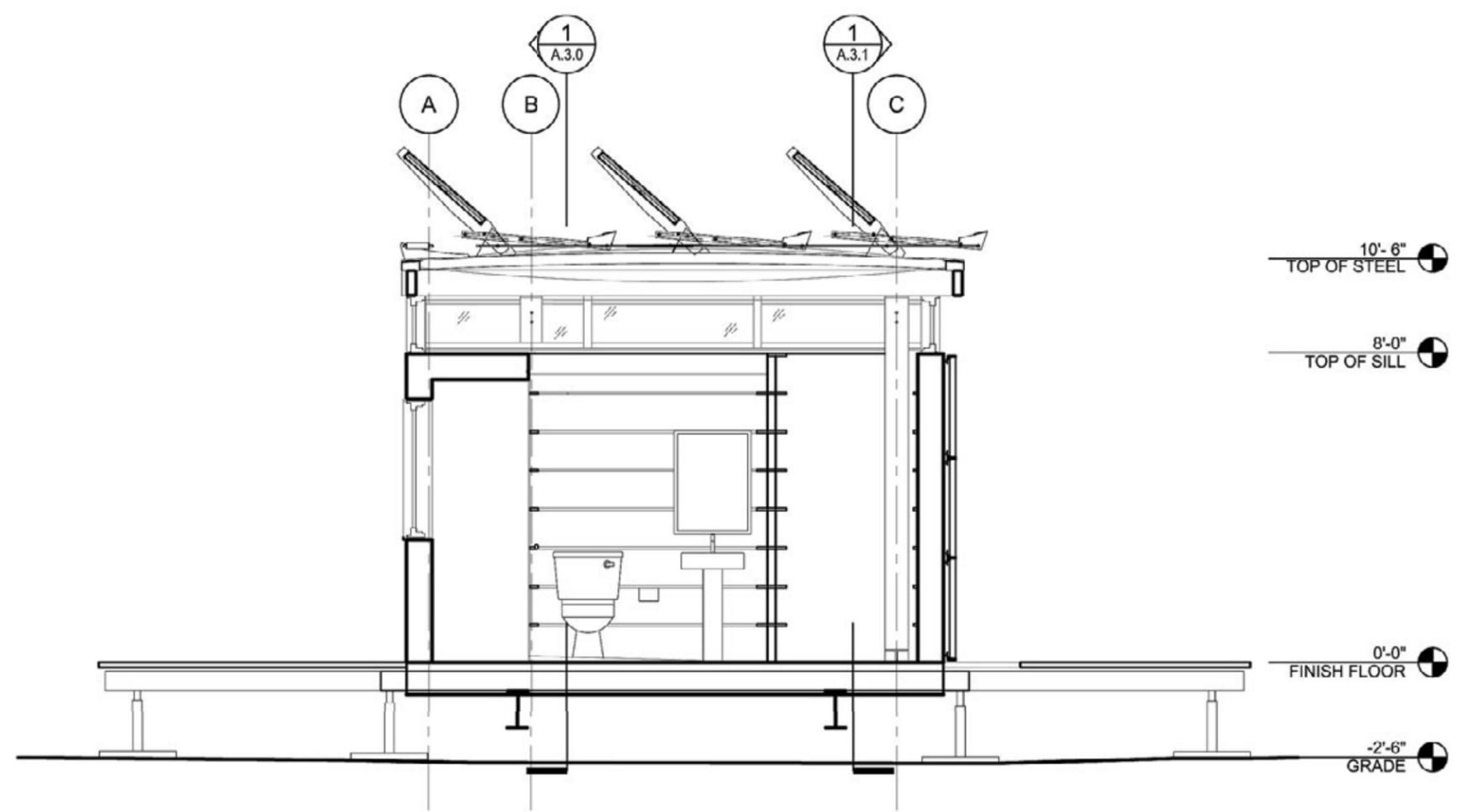
scale: 1/4" : 1' 0"

CROSS SECTION

A.3.2

1 CROSS SECTION
 A.3.2 LOOKING EAST





revision	description	date

consultants:



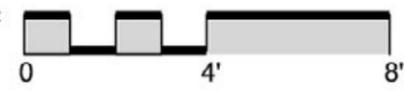
prepared by:
C. Luchian
date drawn:
11.25.06
03.03.07

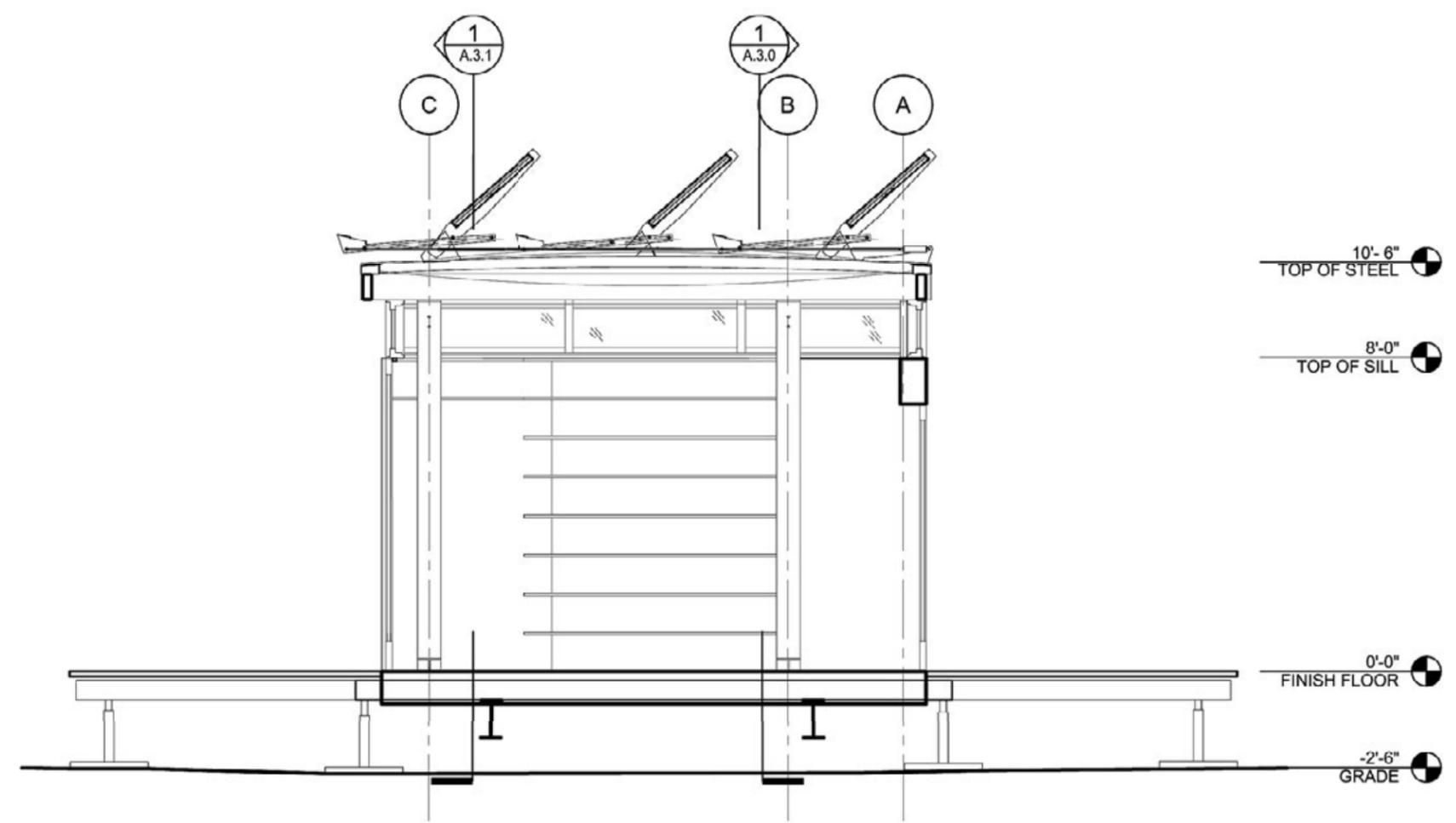
scale: 1/4" : 1' 0"

CROSS SECTION

A.3.3

1 CROSS SECTION
A.3.3 LOOKING EAST





revision	description	date

consultants:



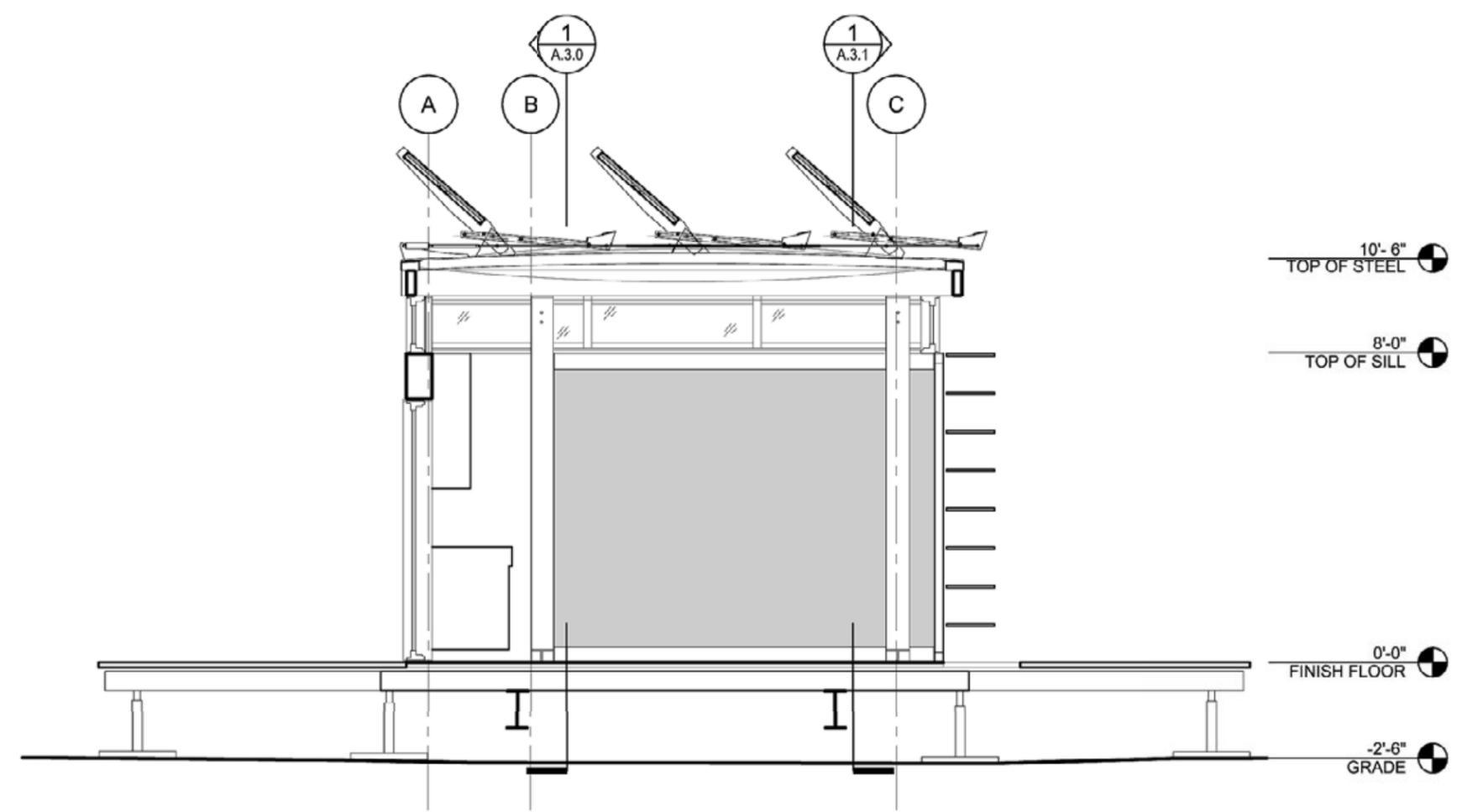
prepared by:
C. Luchian
 date drawn:
 11.25.06
 03.03.07

scale: 1/4" : 1' 0"

A.3.4

CROSS SECTION

1 CROSS SECTION
 A.3.4 LOOKING WEST



1 CROSS SECTION
A.3.5 LOOKING EAST



revision	description	date

consultants:

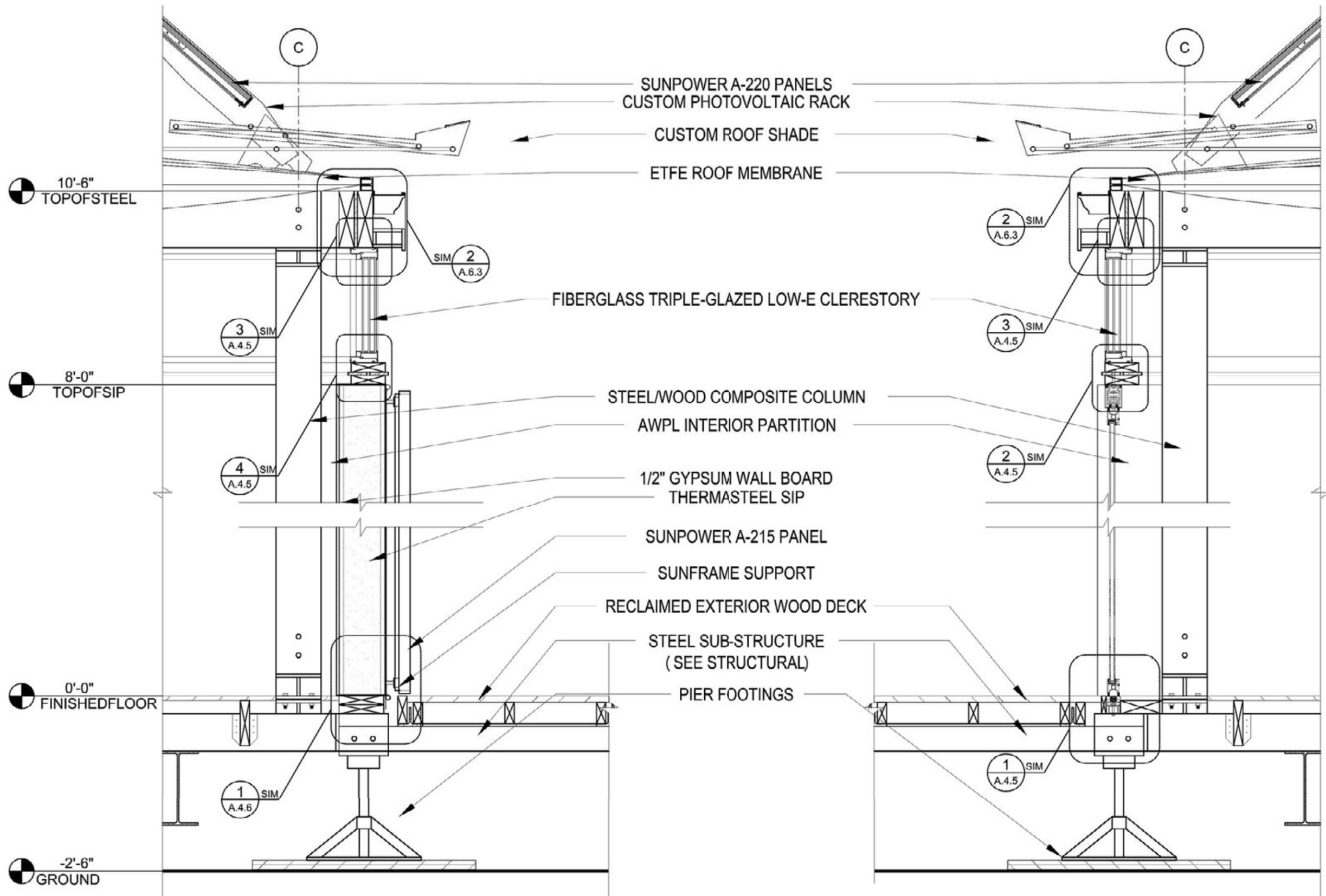


prepared by:
C. Luchian
date drawn:
11.25.06
03.03.07

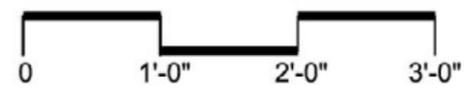
scale: 1/4" : 1' 0"

A.3.5

CROSS SECTION



2 SOUTH WALL SECTION THROUGH THE SIP
A.4.0



1 SOUTH WALL SECTION THROUGH THE ENTRANCE DOOR
A.4.0

date
description
revision

consultants:

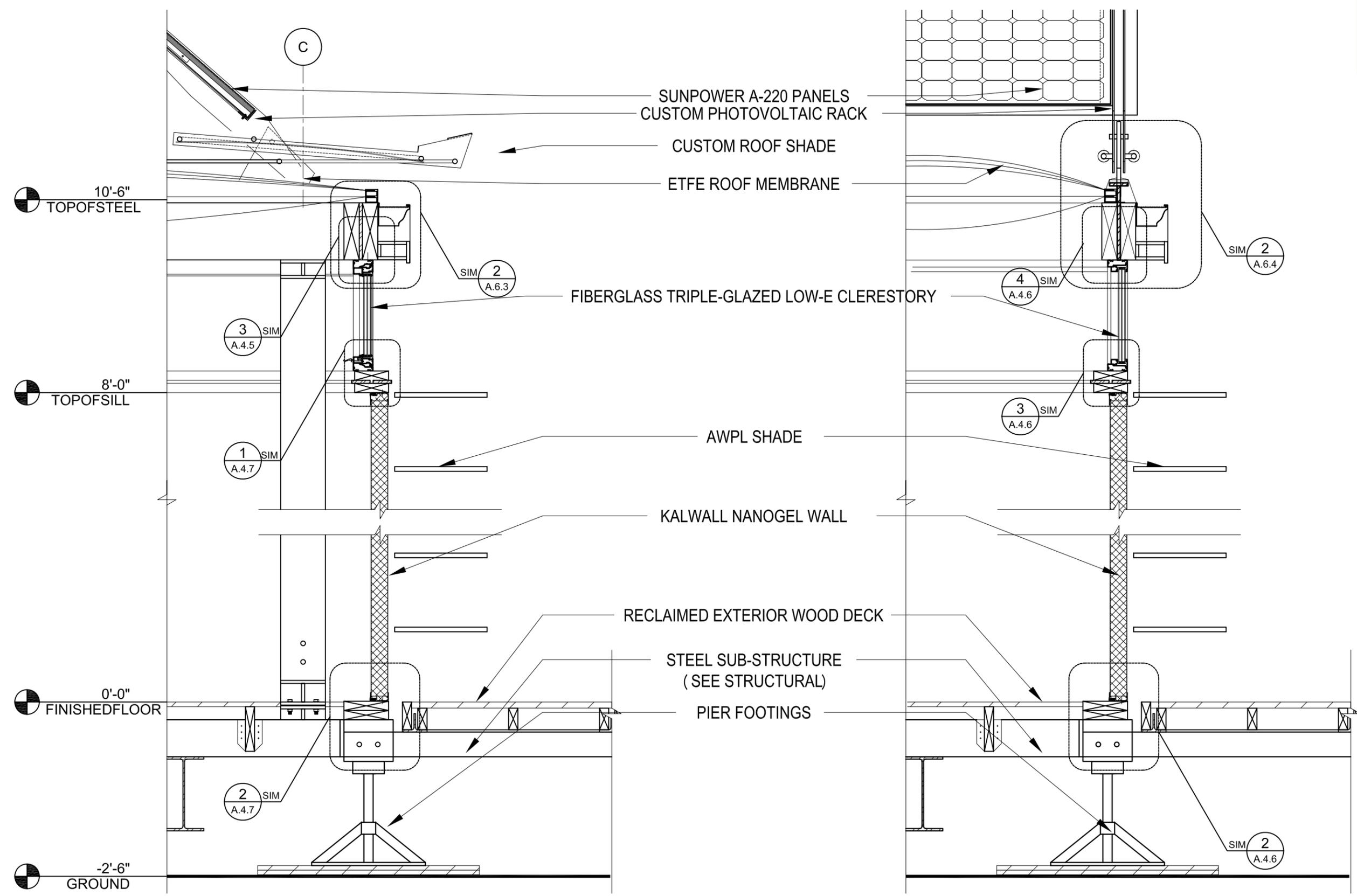


prepared by:
C. Luchian
date drawn:
12.06.06
03.03.07

scale: 3/4" = 1' 0"

A.4.0

SOUTH WALL SECTIONS - SIP & DOOR



2 SOUTH WALL SECTION
A.4.1

1 EAST WALL SECTION
A.4.1



revision	description	date

consultants:

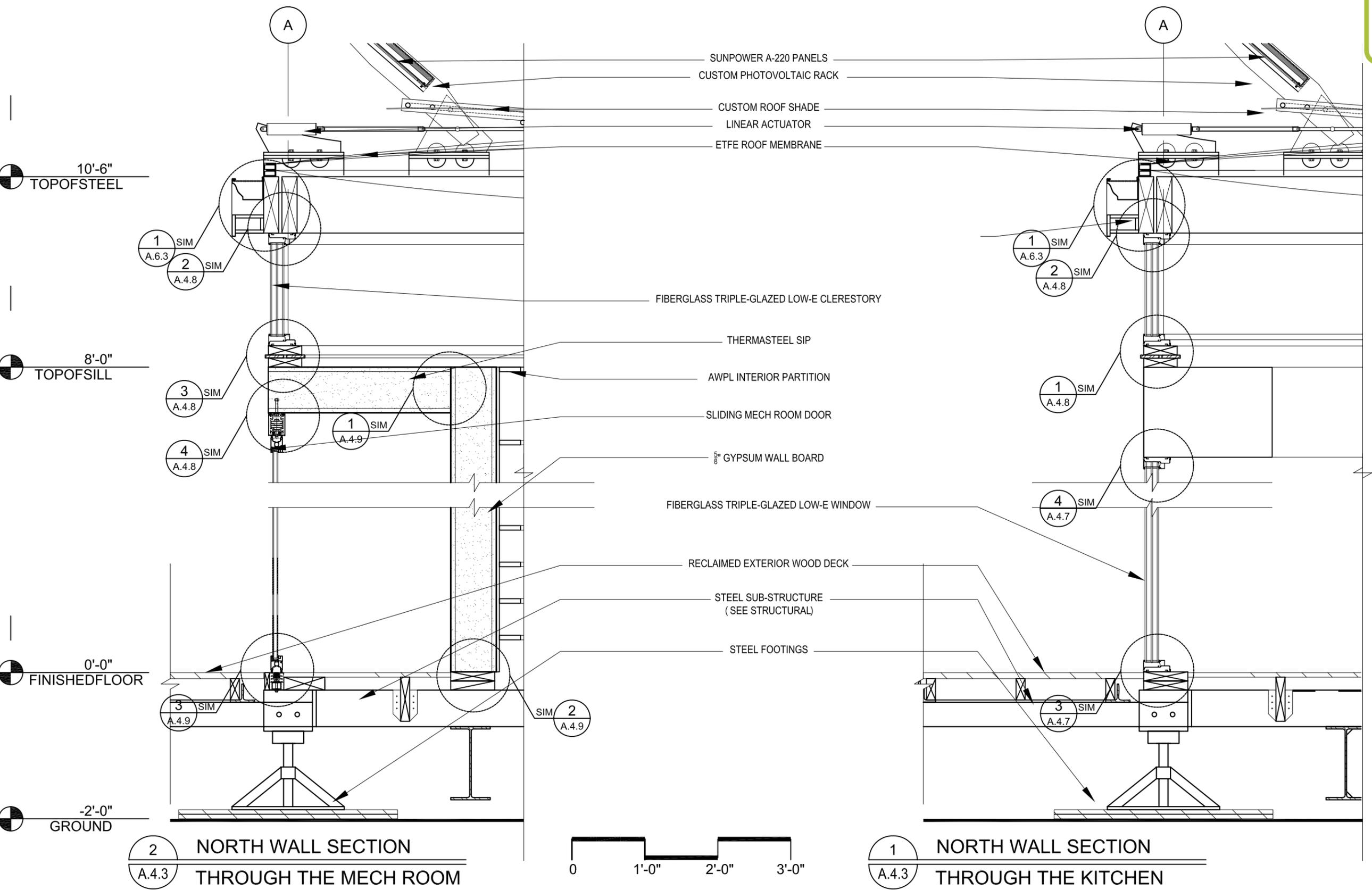
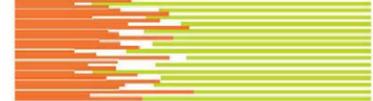


prepared by:
C. Luchian
D. Lott
 date drawn:
 12.06.06
 03.03.07
 04.20.07

scale: 3/4" = 1' 0"

A.4.1

SOUTH & EAST WALL SECTIONS



date
description
revision

consultants:



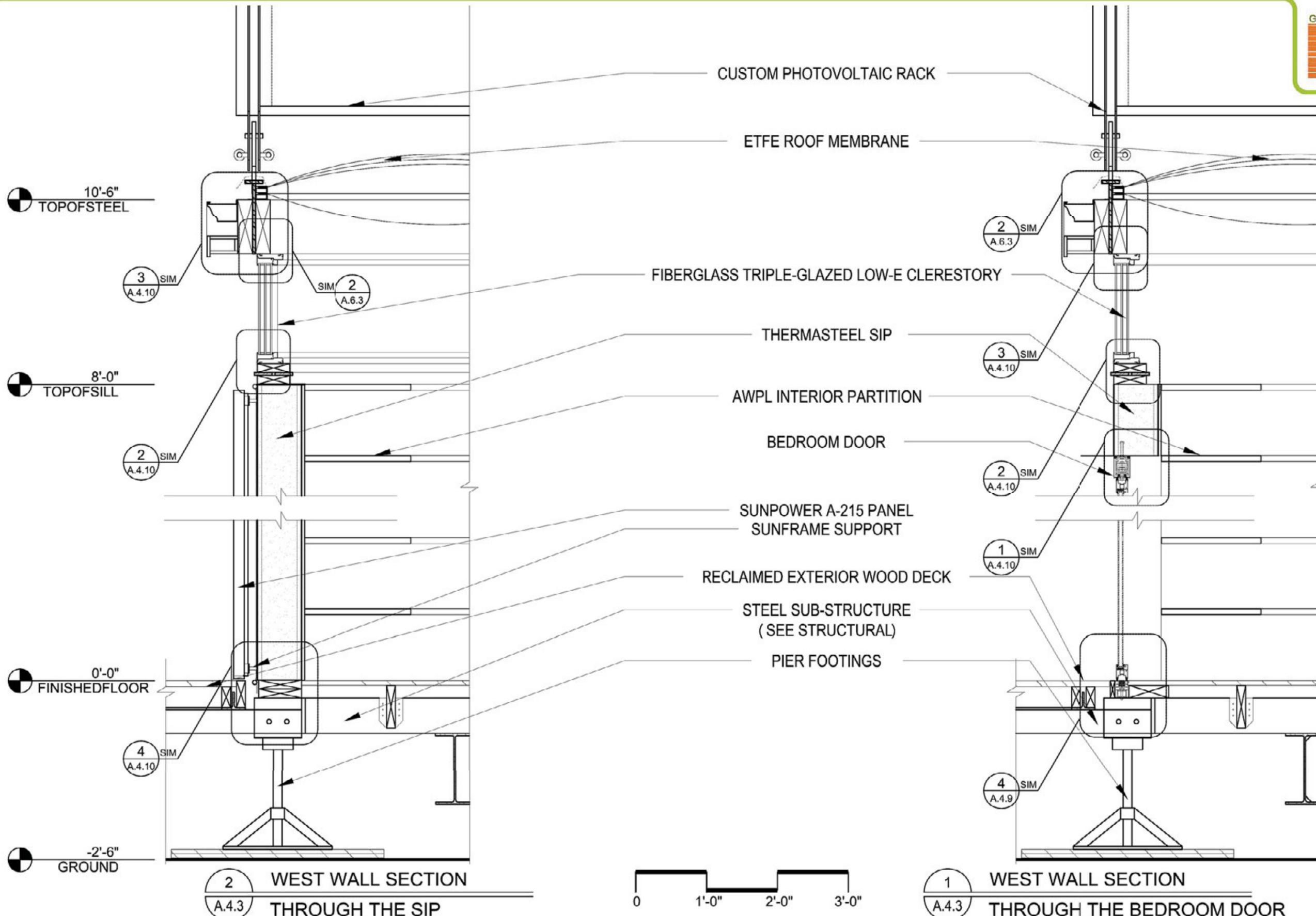
prepared by:
Robert Diamond
date drawn:
12.06.06



scale: **3/4" = 1' 0"**

NORTH WALL SECTION - MECH & KITCHEN

A.4.2



2 WEST WALL SECTION
A.4.3 THROUGH THE SIP

1 WEST WALL SECTION
A.4.3 THROUGH THE BEDROOM DOOR

date
description
revision

consultants:

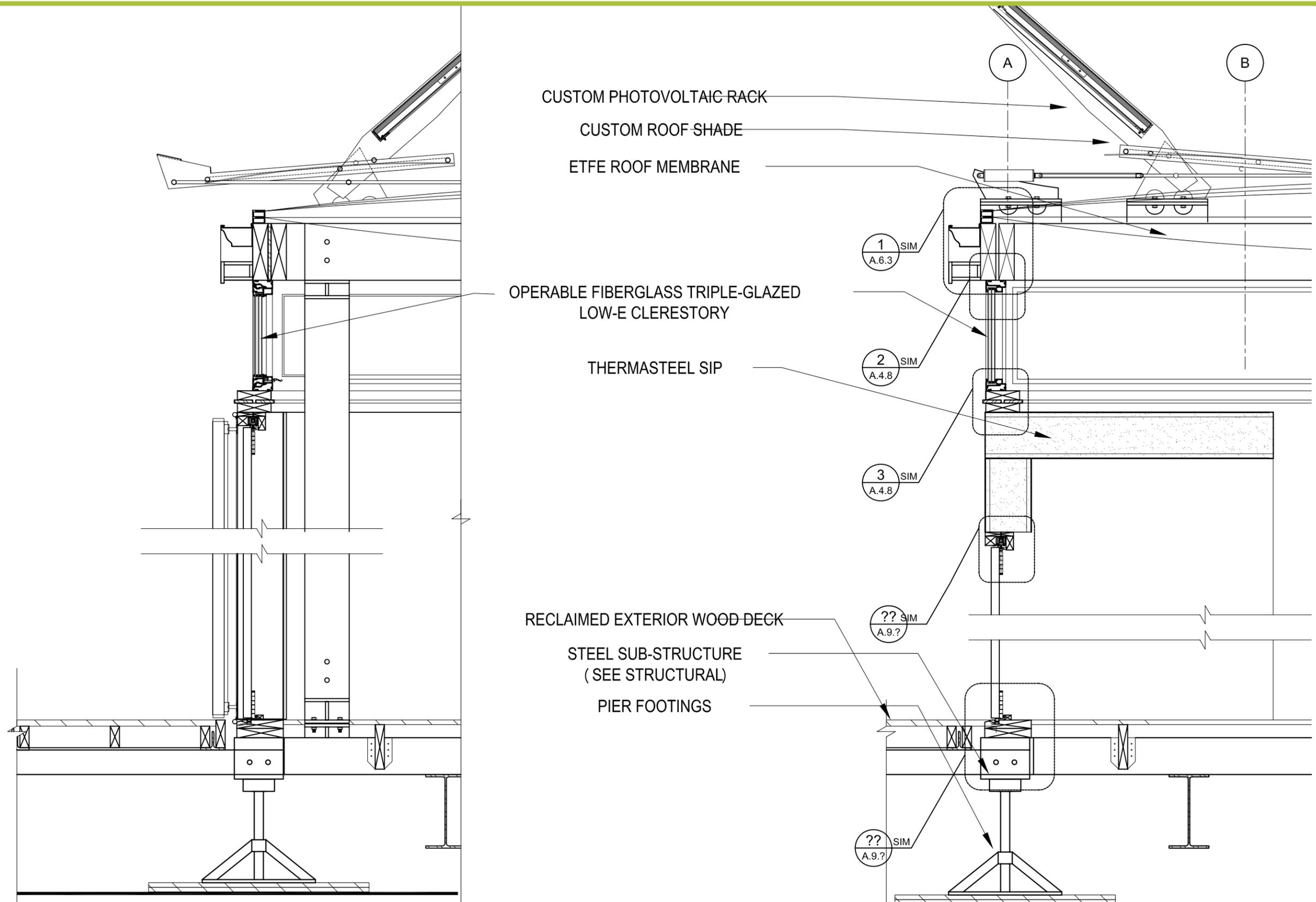


prepared by:
C. Luchian
date drawn:
11.15.06
03.03.07

scale: 3/4" = 1' 0"

A.4.3

WEST WALL SECTIONS - SIP & DOOR



CUSTOM PHOTOVOLTAIC RACK
 CUSTOM ROOF SHADE
 ETFE ROOF MEMBRANE

OPERABLE FIBERGLASS TRIPLE-GLAZED
 LOW-E CLERESTORY
 THERMASTEEL SIP

RECLAIMED EXTERIOR WOOD DECK
 STEEL SUB-STRUCTURE
 (SEE STRUCTURAL)
 PIER FOOTINGS



1 NORTH WALL SECTION
 A.4.4

date	description	revision

consultants:

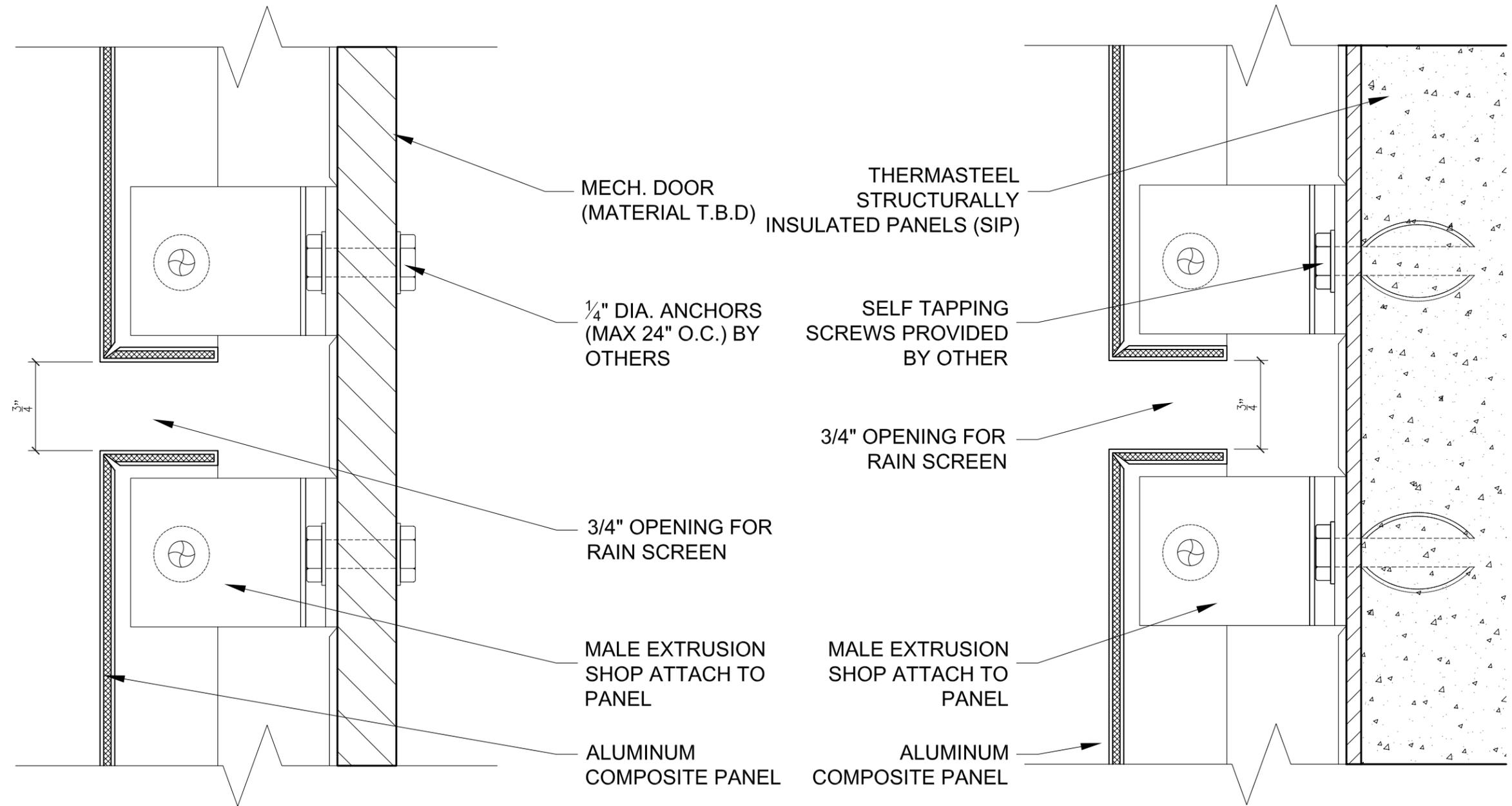


prepared by:
C. Luchian
D. Lott
 date drawn:
12.06.06
03.03.07
04.20.07

scale: 3/4" = 1' 0"

A.4.4

NORTH WALL SECTION



2 ALUM. COMPOSITE PANEL RAINSCREEN CONNECTION DETAIL

3 ALUM. COMPOSITE PANEL RAINSCREEN CONNECTION DETAIL

revision	description	date

consultants:



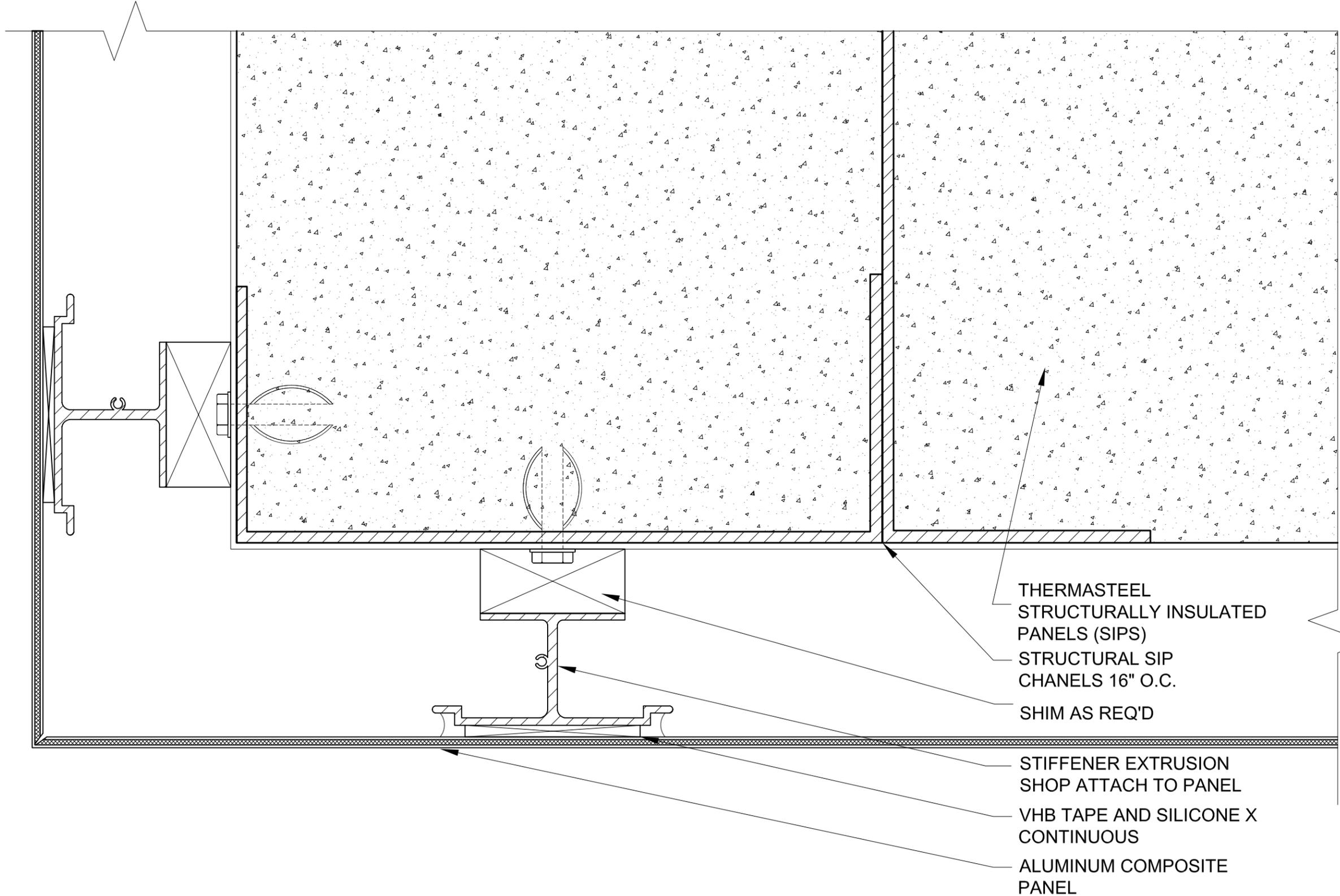
prepared by: **Anthony Piede**
 date drawn: **04.03.2007**



scale: 1" = 1"

RAINSCREEN SECTION DETAILS - CONNECTIONS

A.4.20



1 ALUM. COMPOSITE PANEL CORNER DETAIL
 A.4.21 CONNECTION DETAIL

revision	description	date

consultants:



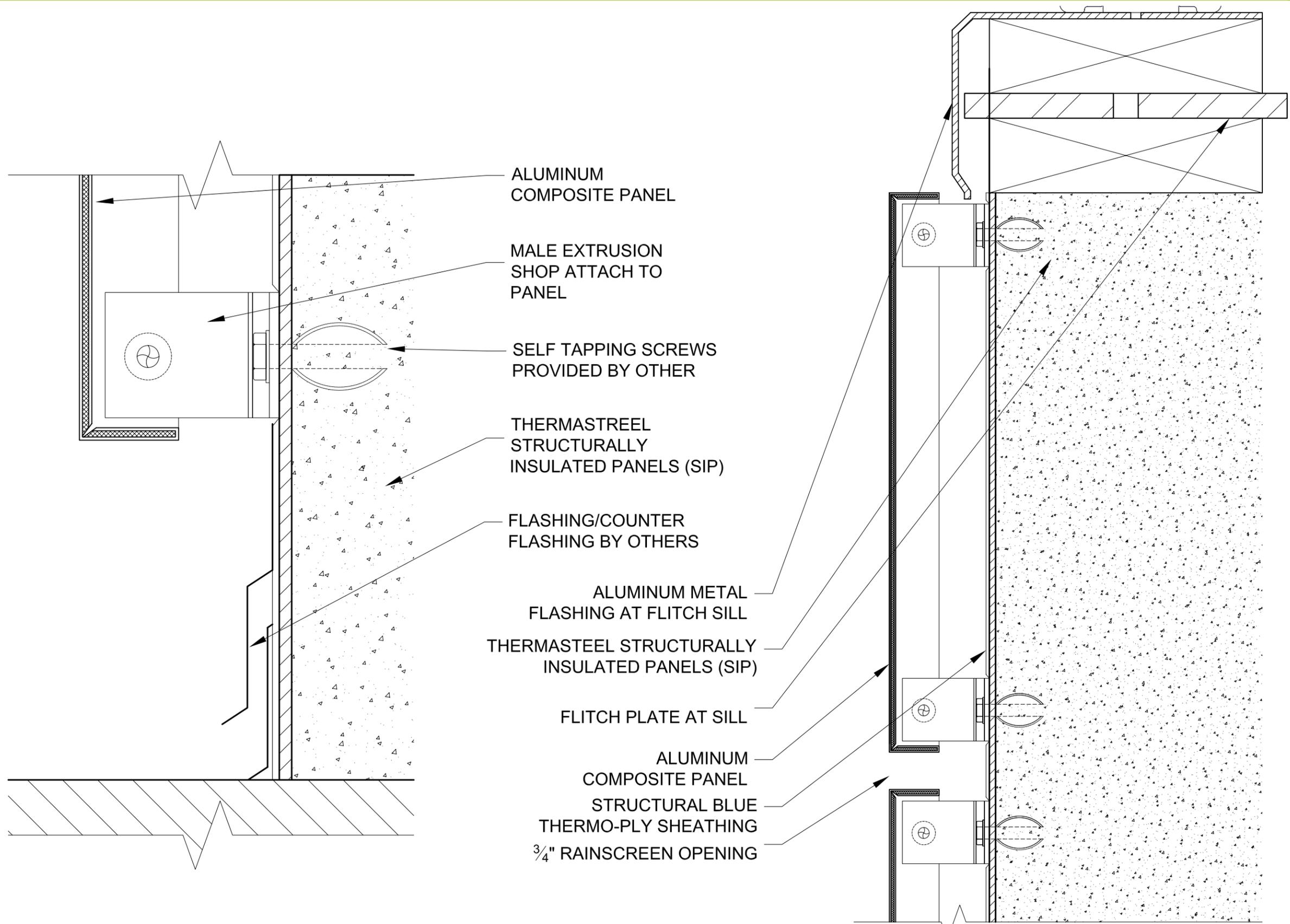
prepared by:
Anthony Piede
 date drawn:
04.03.2007



scale: 10" = 1'-0"

RAINSCREEN SECTION DETAILS - CONNECTIONS

A.4.21



- ALUMINUM COMPOSITE PANEL
- MALE EXTRUSION SHOP ATTACH TO PANEL
- SELF TAPPING SCREWS PROVIDED BY OTHER
- THERMASTEEL STRUCTURALLY INSULATED PANELS (SIP)
- FLASHING/COUNTER FLASHING BY OTHERS
- ALUMINUM METAL FLASHING AT FLITCH SILL
- THERMASTEEL STRUCTURALLY INSULATED PANELS (SIP)
- FLITCH PLATE AT SILL
- ALUMINUM COMPOSITE PANEL
- STRUCTURAL BLUE THERMO-PLY SHEATHING
- 3/4" RAINSCREEN OPENING

5 SILL CONDITION DETAIL OCCURRING AT GRADE CONNECTION DETAIL

6 RAINSCREEN-CLERESTORY DETAIL CONDITION CONNECTION DETAIL

revision	description	date

consultants:



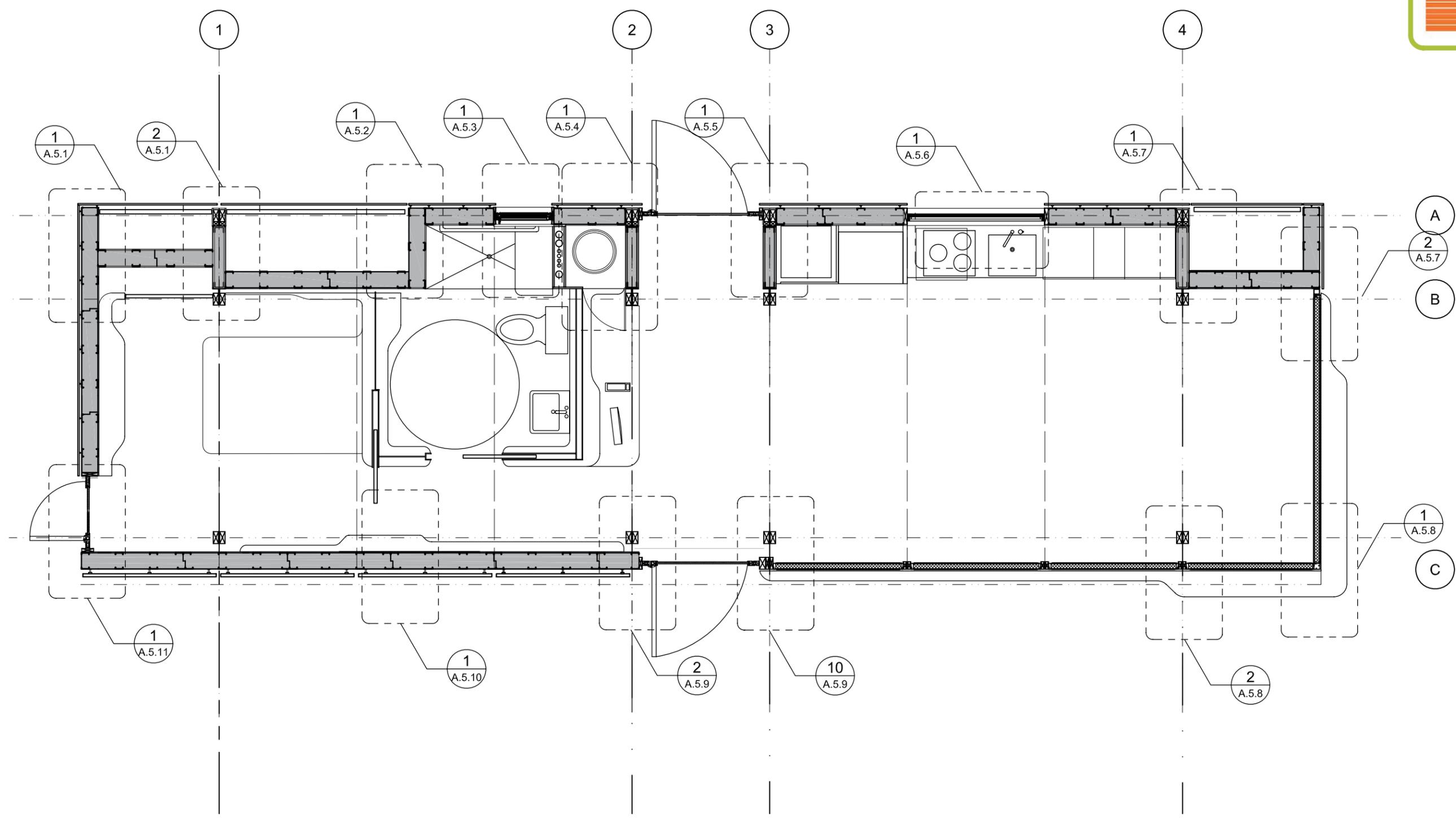
prepared by: **Anthony Piede**
 date drawn: **04.03.2007**



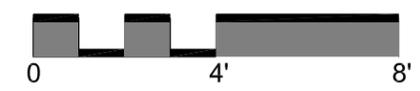
scale: 1" = 1"

A.4.22

RAINSCREEN SECTION DETAILS - CONNECTIONS



1 HORIZONTAL PLAN DETAILS
A.5.0



revision	description	date

consultants:



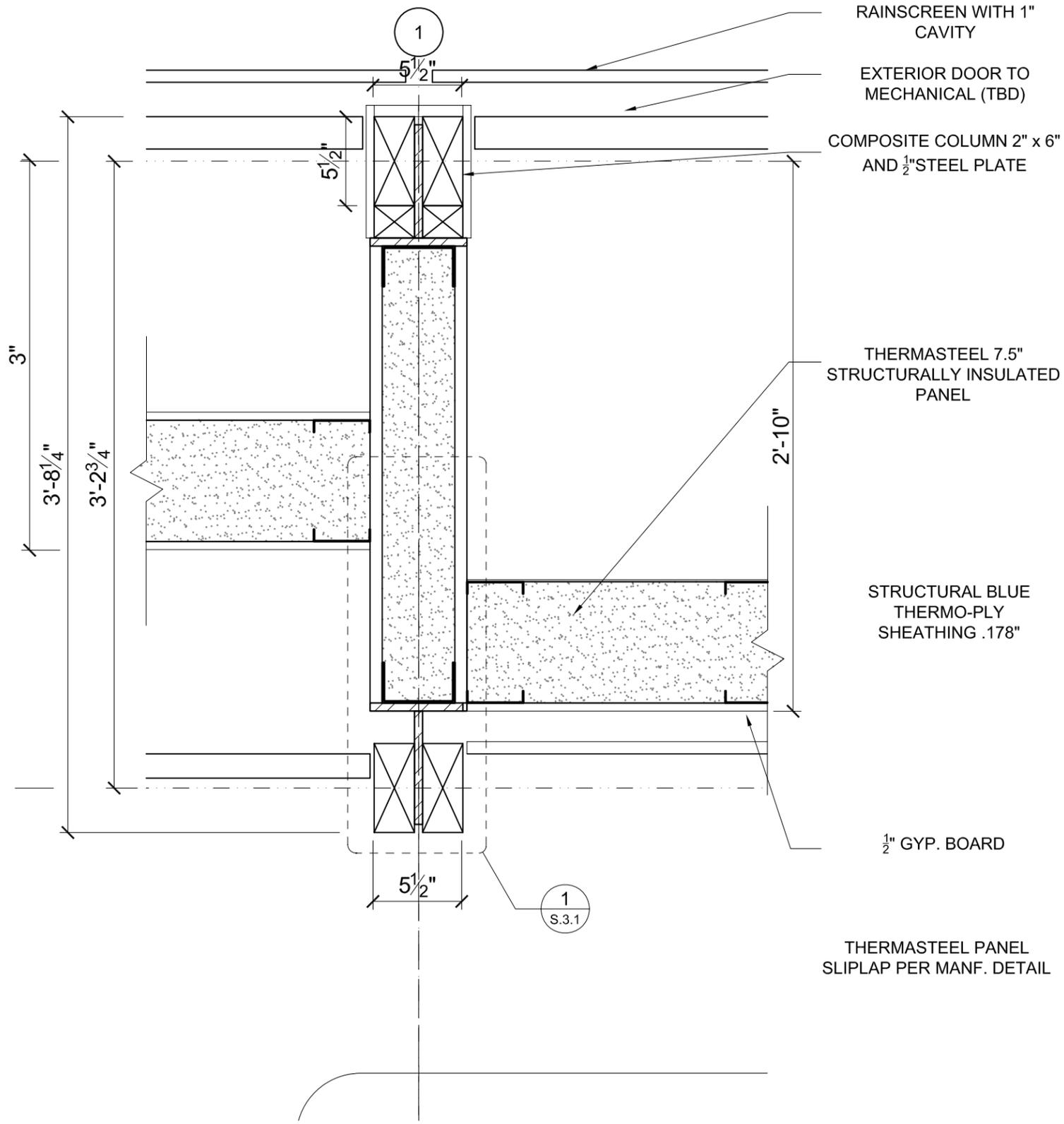
prepared by:
Tony Piede
Nadine Kashlan
date drawn:
03.06.07
12.06.06



scale: 1/4" : 1' 0"

A.5.0

FLOOR PLAN DETAILS - KEY PLAN



RAINSCREEN WITH 1" CAVITY

EXTERIOR DOOR TO MECHANICAL (TBD)

COMPOSITE COLUMN 2" x 6" AND 1/2" STEEL PLATE

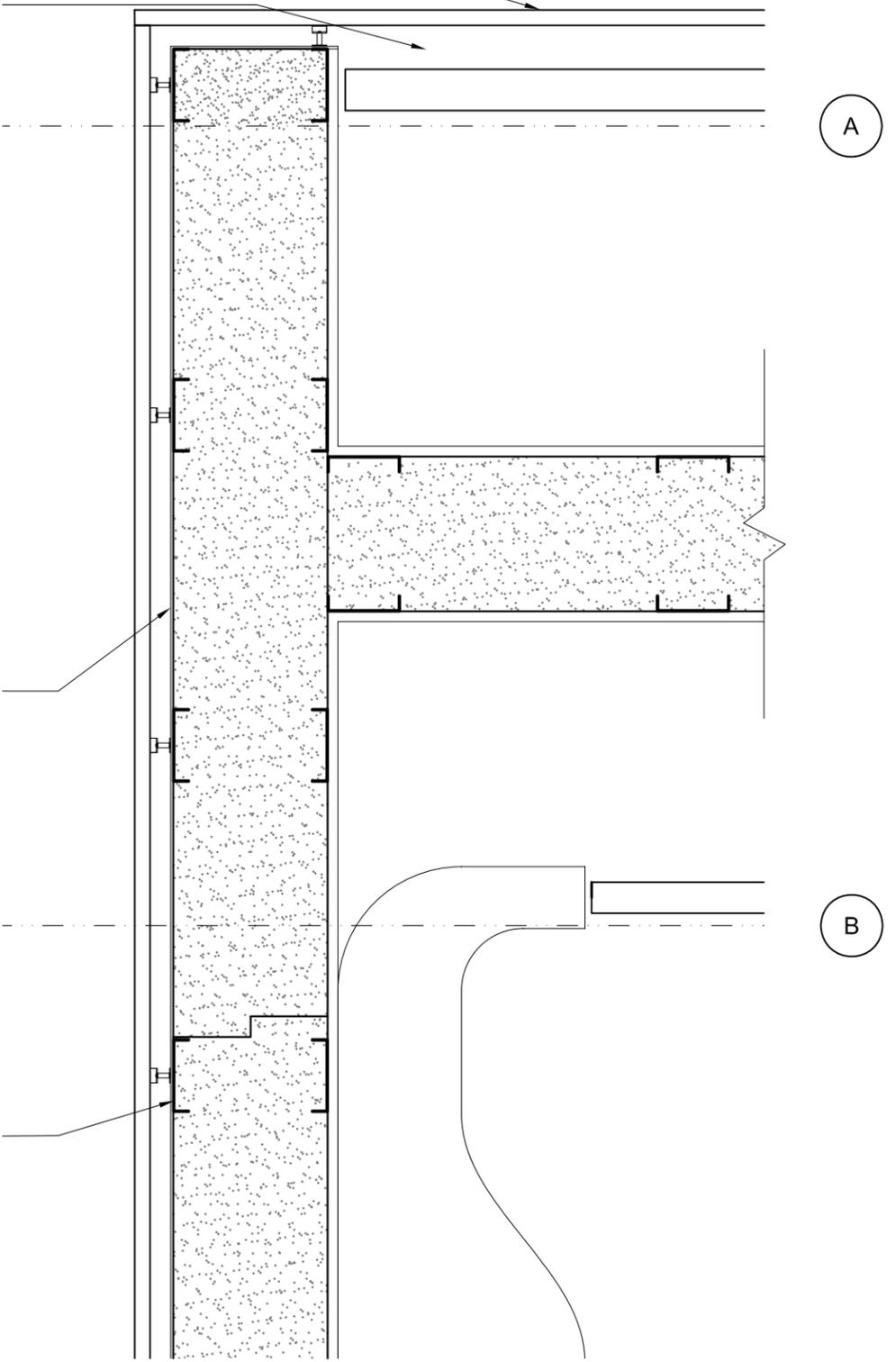
THERMASTEEL 7.5" STRUCTURALLY INSULATED PANEL

2'-10"

STRUCTURAL BLUE THERMO-PLY SHEATHING .178"

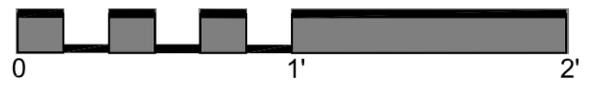
1/2" GYP. BOARD

THERMASTEEL PANEL SLIPLAP PER MANF. DETAIL



2 SIP ABUTMENT DETAIL
A.5.1 THERMASTEEL PANEL CORNER CONDITION

1 SIP ABUTMENT DETAIL
A.5.1 THERMASTEEL PANEL CORNER CONDITION



revision	description	date

consultants:



prepared by:
Tony Piede
Nadine Kashlan

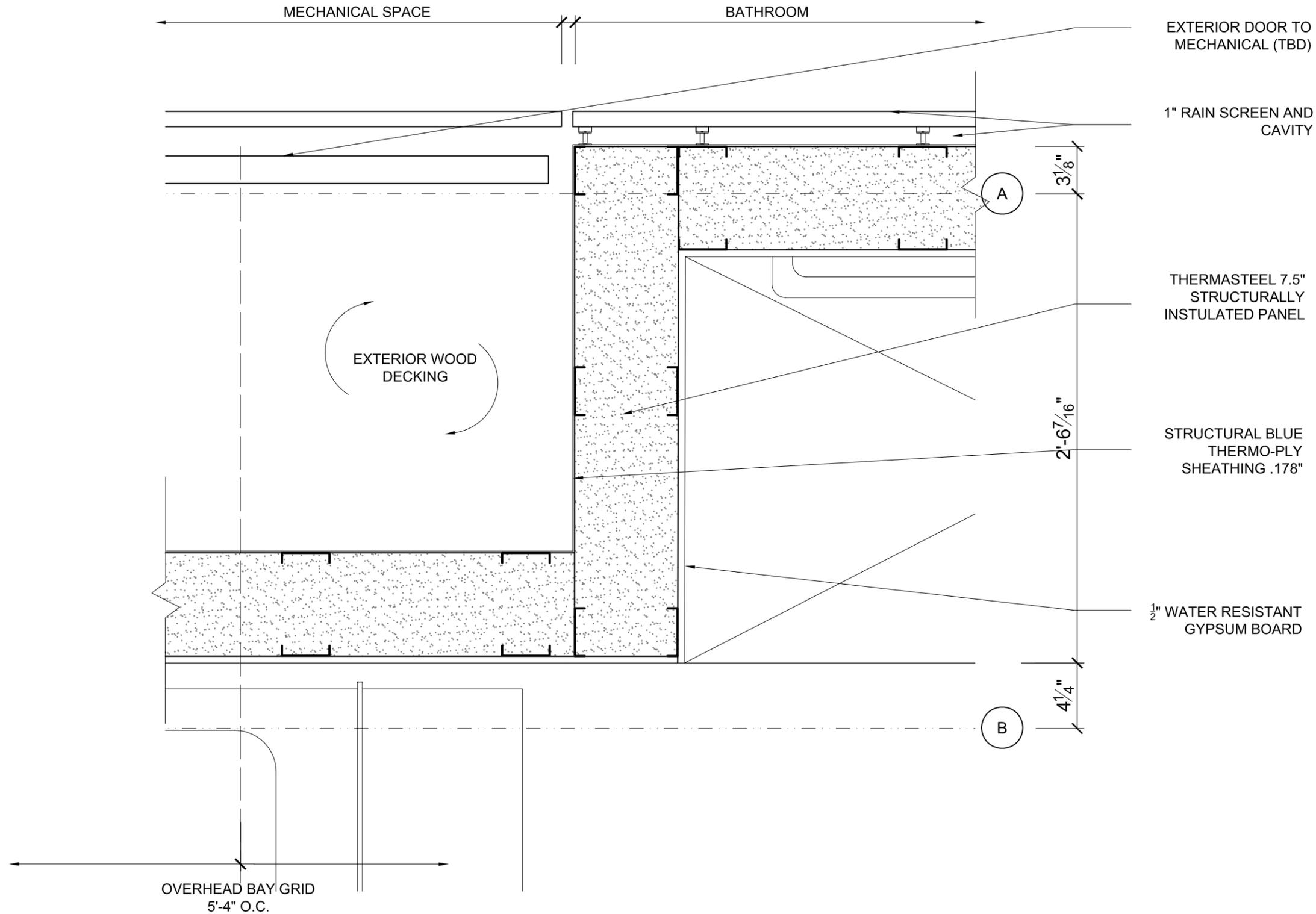
date drawn:
03.06.07
12.06.06



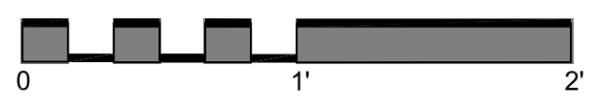
scale: 1-1/2" : 1' 0"

A.5.1

SIP ABUTMENT DETAILS - NORTH WALL



1 SIP ABUTMENT DETAIL
 A.5.2 THERMASTEEL PANEL CORNER CONDITION



revision	description	date

consultants:



prepared by:
 Tony Piede
 Nadine Kashlan

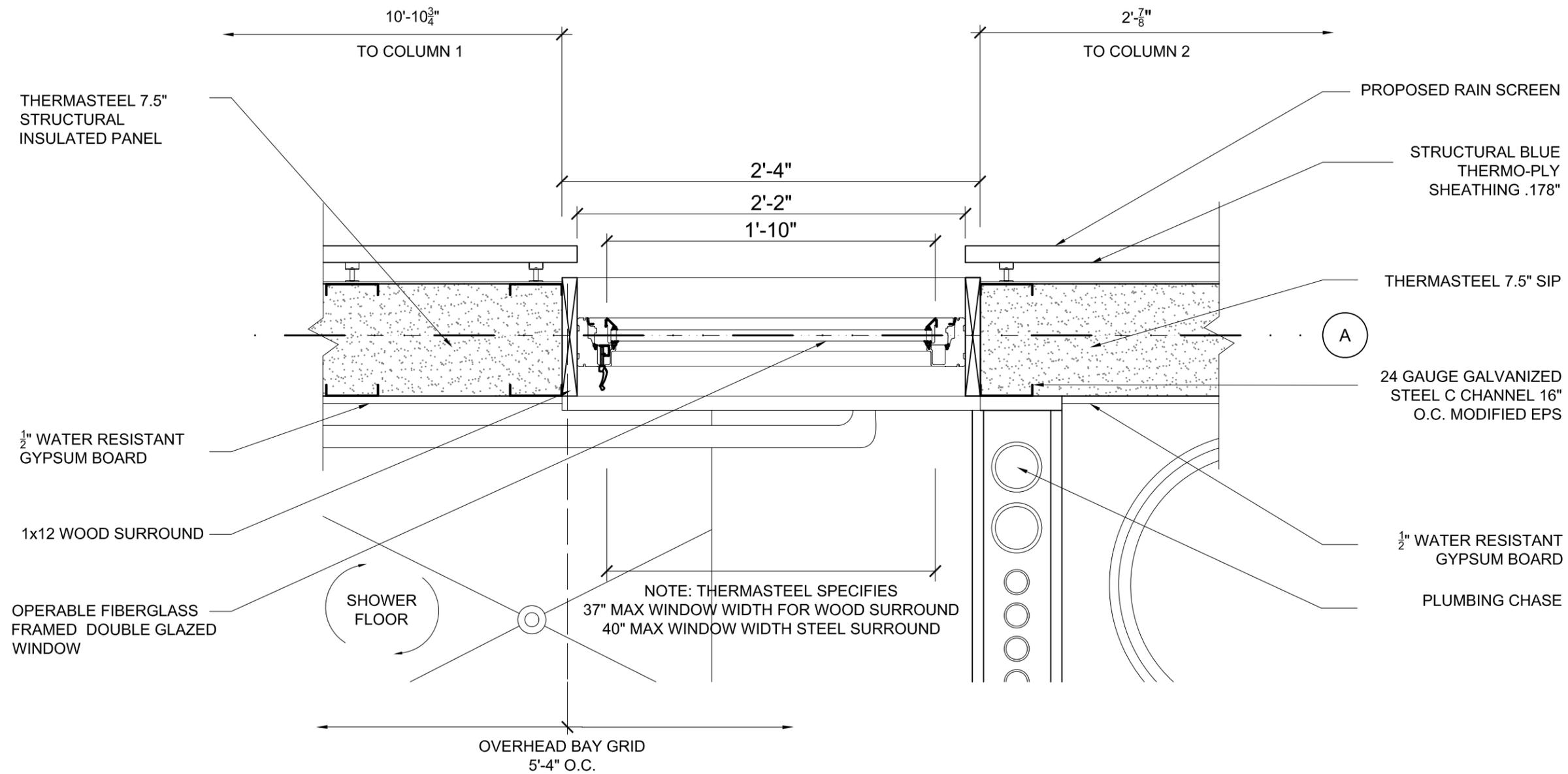
date drawn:
 03.06.07
 12.06.06



scale: 1-1/2" : 1' 0"

A.5.2

SIP ABUTMENT DETAILS - NORTH WALL



revision	description	date

consultants:



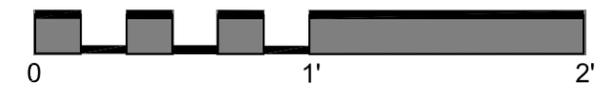
prepared by:
Tony Piede
Nadine Kashlan

date drawn:
03.06.07
12.06.06



scale: 1-1/2" : 1' 0"

1 SIP - WINDOW JOINT DETAIL
A.5.3



SIP ABUTMENT DETAILS - NORTH WALL

A.5.3

NANAWALL HSW50 LOW
-E GLASS & ARGON GAS

AIRLOCK SYSTEM
JAMB PER MANF. SPECS

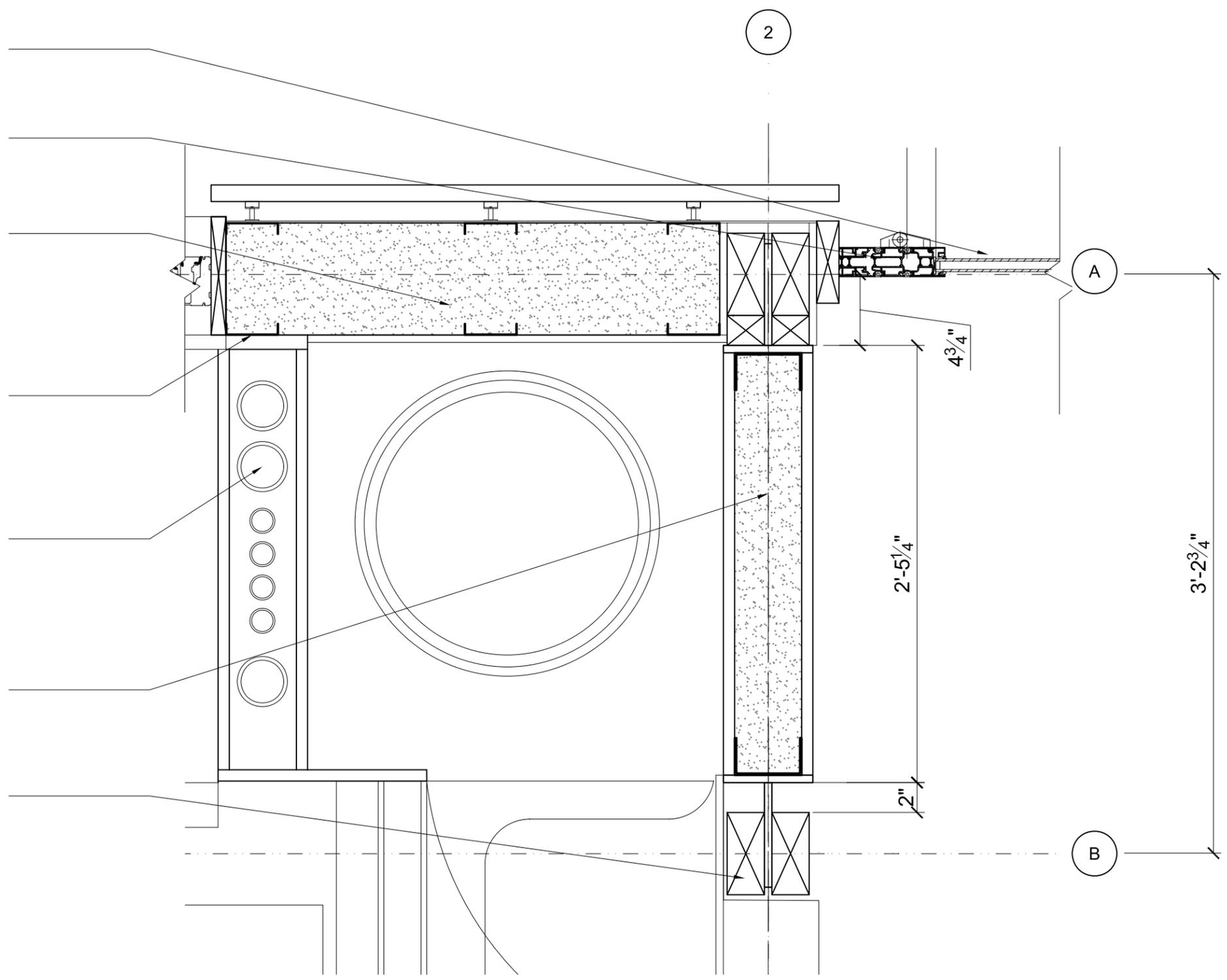
THERMASTEEL 7.5"
STRUCTURALLY
INSULATED PANEL

24 GAUGE GALVANIZED STEEL C
CHANNEL 16" O.C. MODIFIED EPS

PLUMBING CHASE

THERMASTEEL 4.5" STRUCTURALLY
INSTULATED PANEL

COMPOSITE COLUMN
SEE STRUCTURAL DRAWINGS



1 SIP - NORTH ENTRANCE DOOR
A.5.4

revision	description	date

consultants:



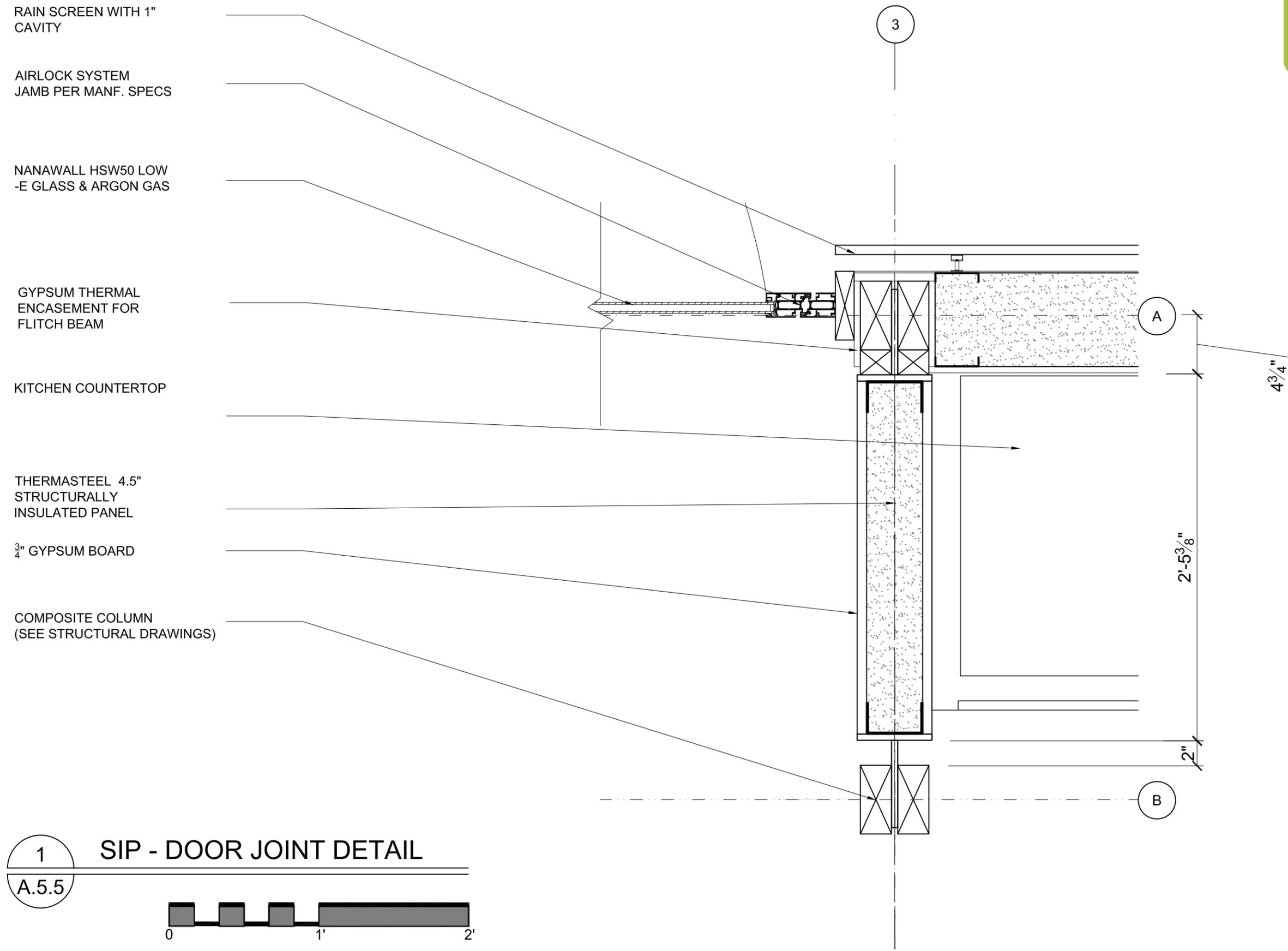
prepared by:
Tony Piede
Nadine Kashlan
date drawn:
03.06.07
12.06.06



scale: 1-1/2" : 1' 0"

A.5.4

SIP ABUTMENT DETAILS - NORTH WALL



1 SIP - DOOR JOINT DETAIL
A.5.5

revision	description	date

consultants:



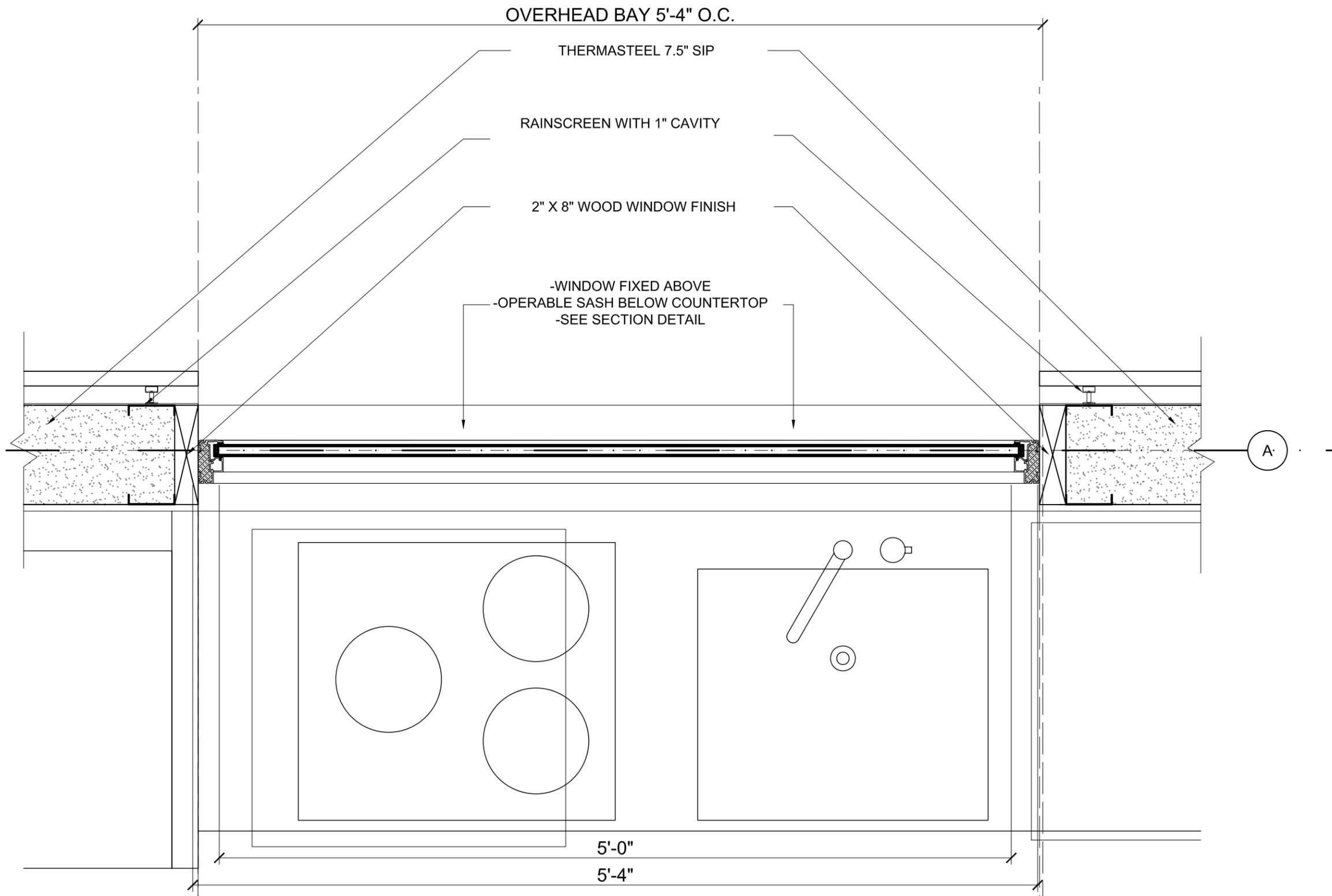
prepared by:
Tony Piede
Nadine Kashlan
 date drawn:
 03.06.07
 12.06.06



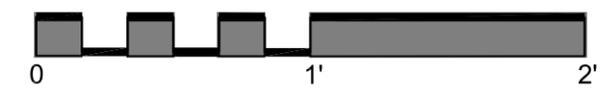
scale: 1-1/2" : 1' 0"

A.5.5

SIP ABUTMENT DETAILS - NORTH WALL



1 SIP WINDOW JOINT DETAIL AT THE KITCHEN
A.5.6



revision	description	date

consultants:



prepared by:
Tony Piede
Nadine Kashlan

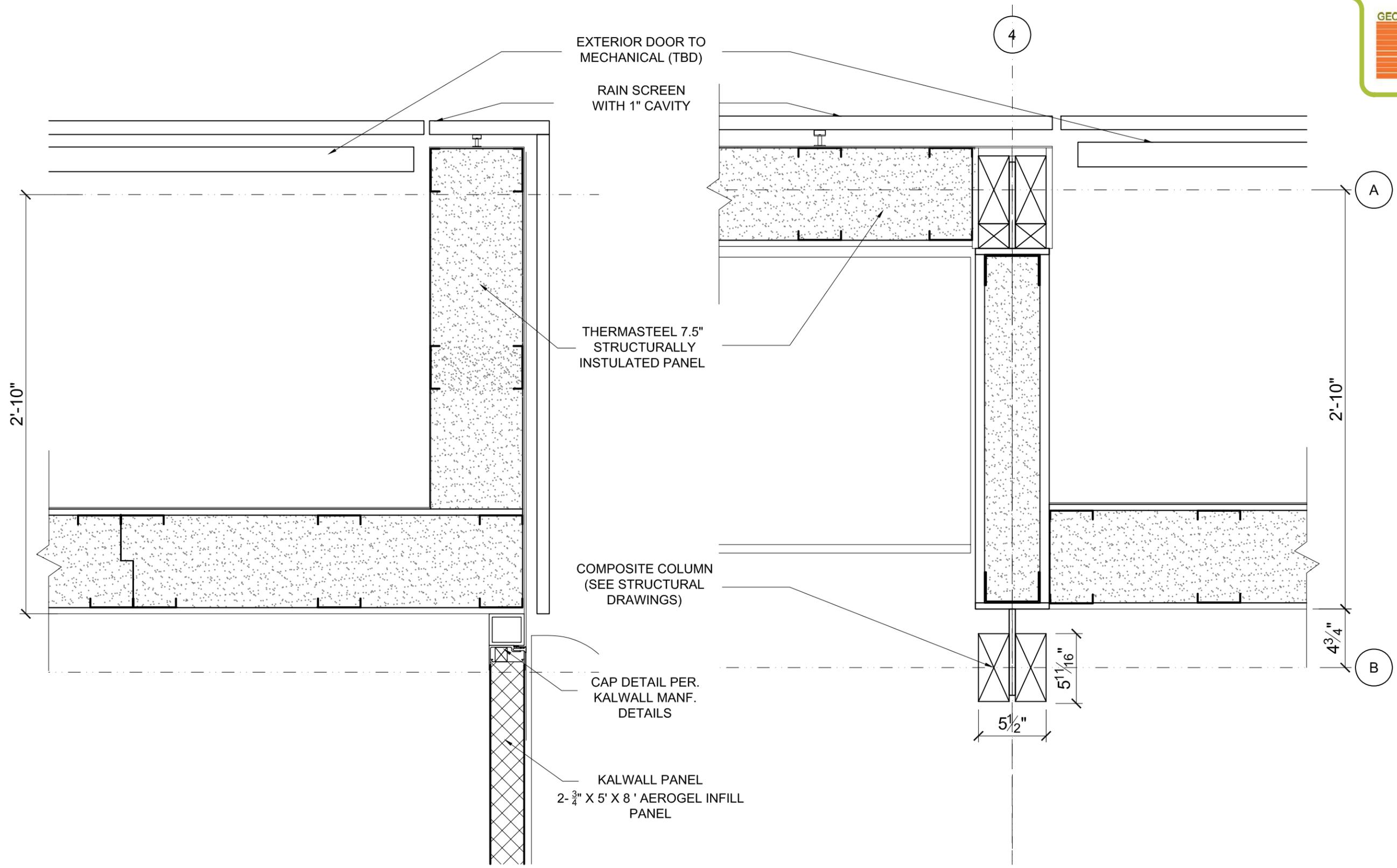
date drawn:
03.06.07
12.06.06



scale: 1-1/2" : 1' 0"

A.5.6

SIP ABUTMENT DETAILS - NORTH WALL



revision	description	date

consultants:



prepared by:
Tony Piede
Nadine Kashlan
 date drawn:
03.06.07
12.06.06

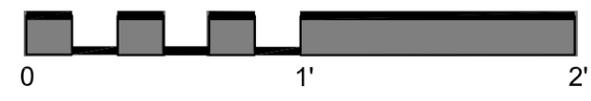


scale: 1-1/2" : 1' 0"

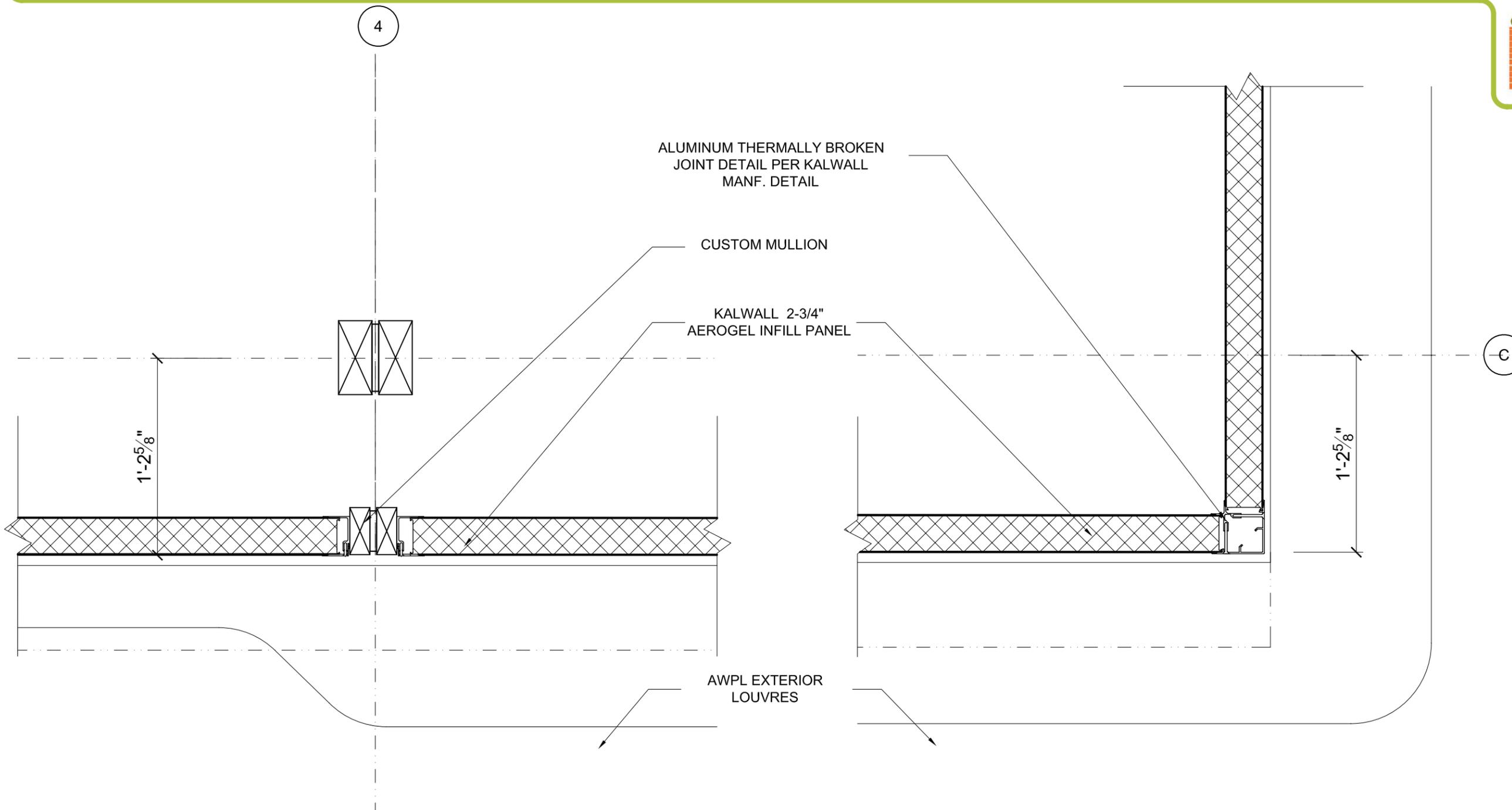
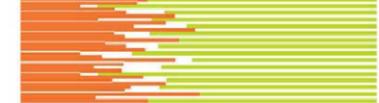
SIP ABUTMENT DETAILS

2 SIP - KALWALL JOINT, EAST FACADE
 A.5.7

1 SIP ABUTMENT DETAIL
 A.5.7

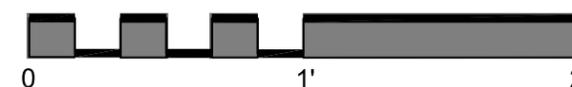


A.5.7



2 KALWALL PANEL JOINT - SOUTH WALL
A.5.8

1 KALWALL CORNER DETAIL - SE CORNER
A.5.8



revision	description	date

consultants:



prepared by:
Tony Piede
Nadine Kashlan

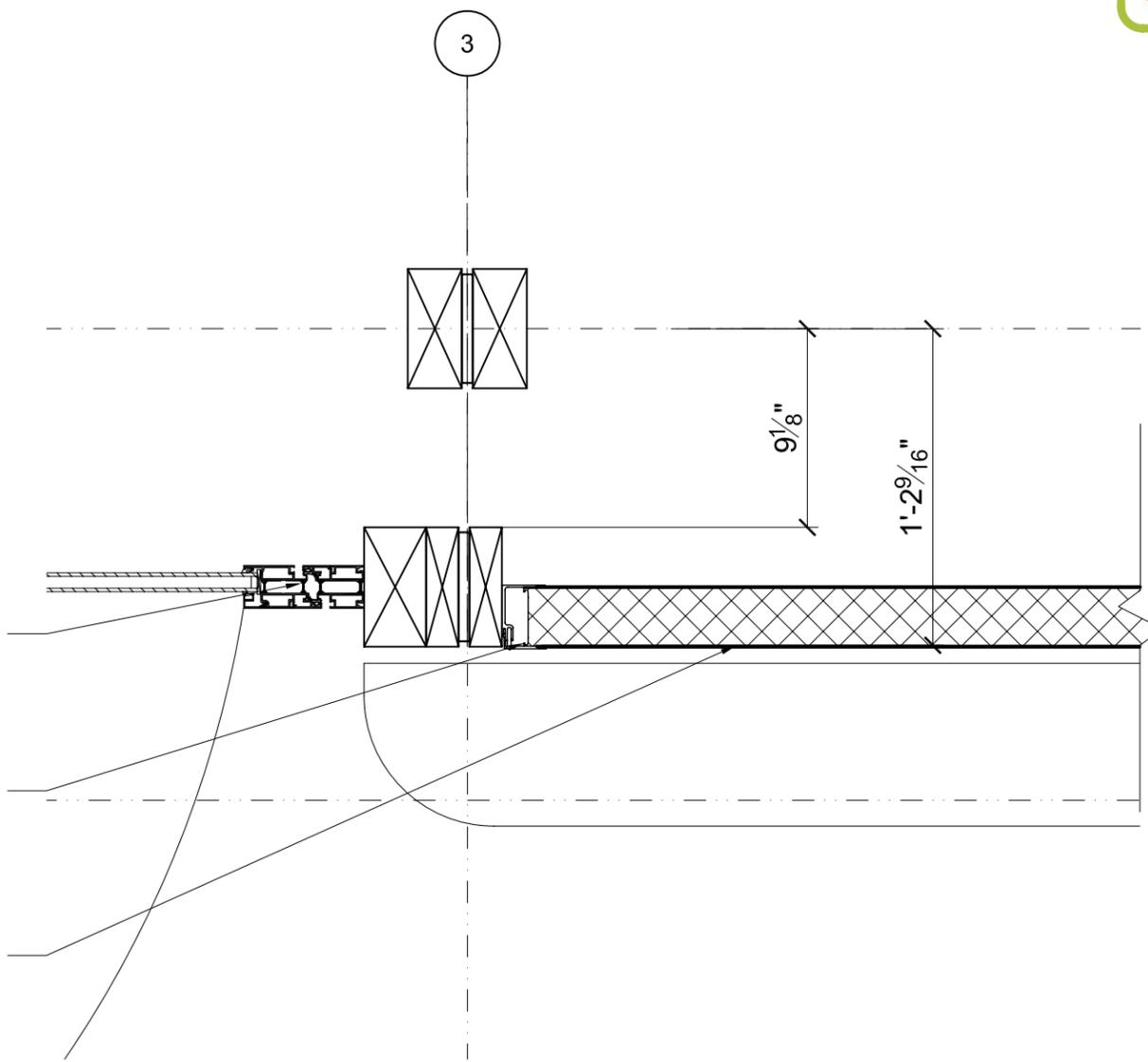
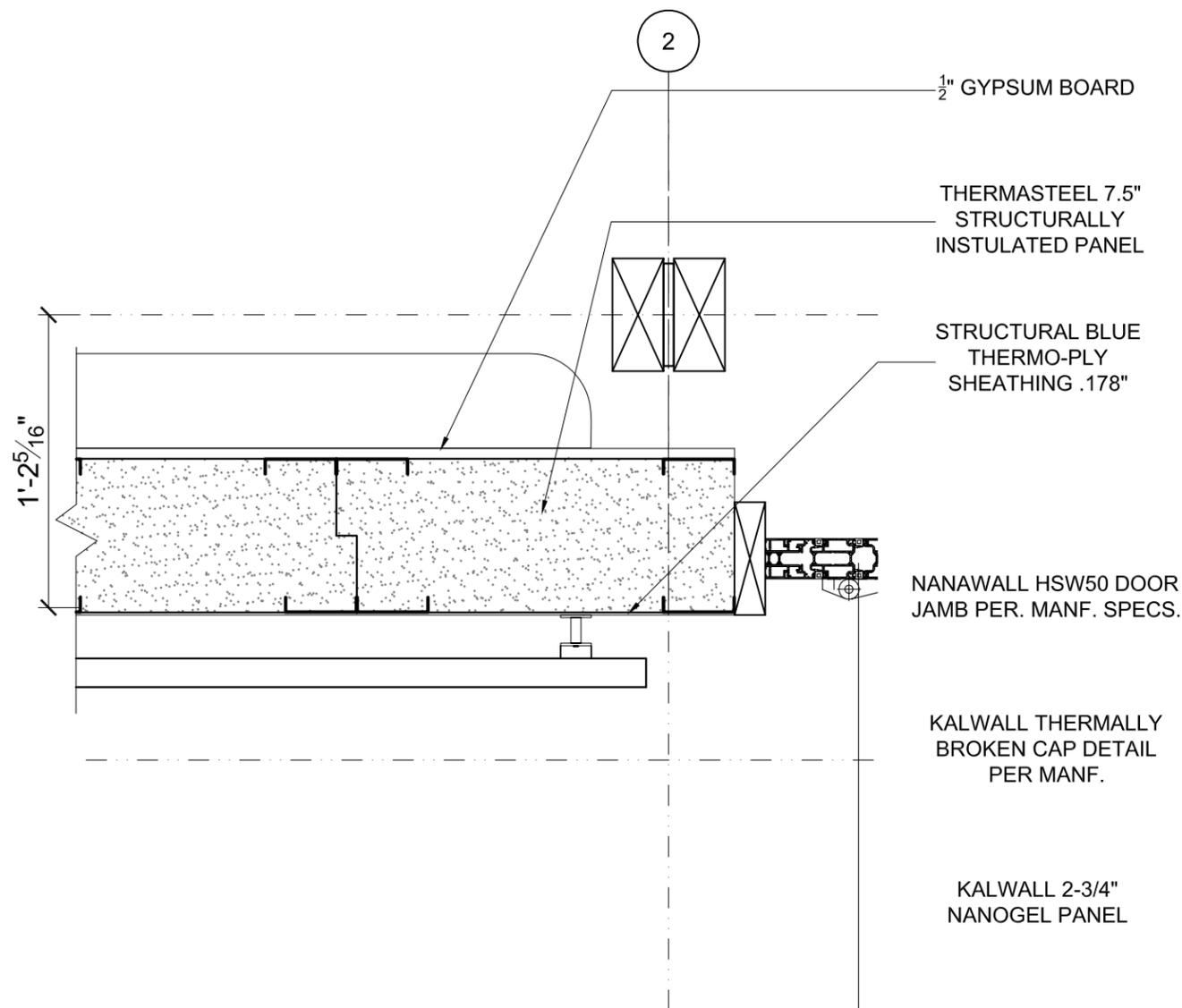
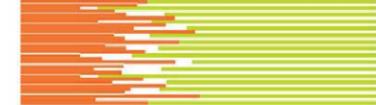
date drawn:
03.06.07
12.06.06



scale: 1-1/2" : 1' 0"

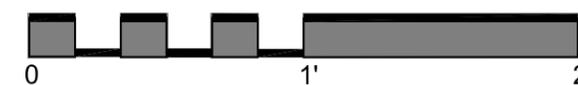
A.5.8

KALWALL ABUTMENT DETAILS



2 SIP - DOOR DETAIL
A.5.9

1 KALWALL - DOOR DETAIL
A.5.9



revision	description	date

consultants:



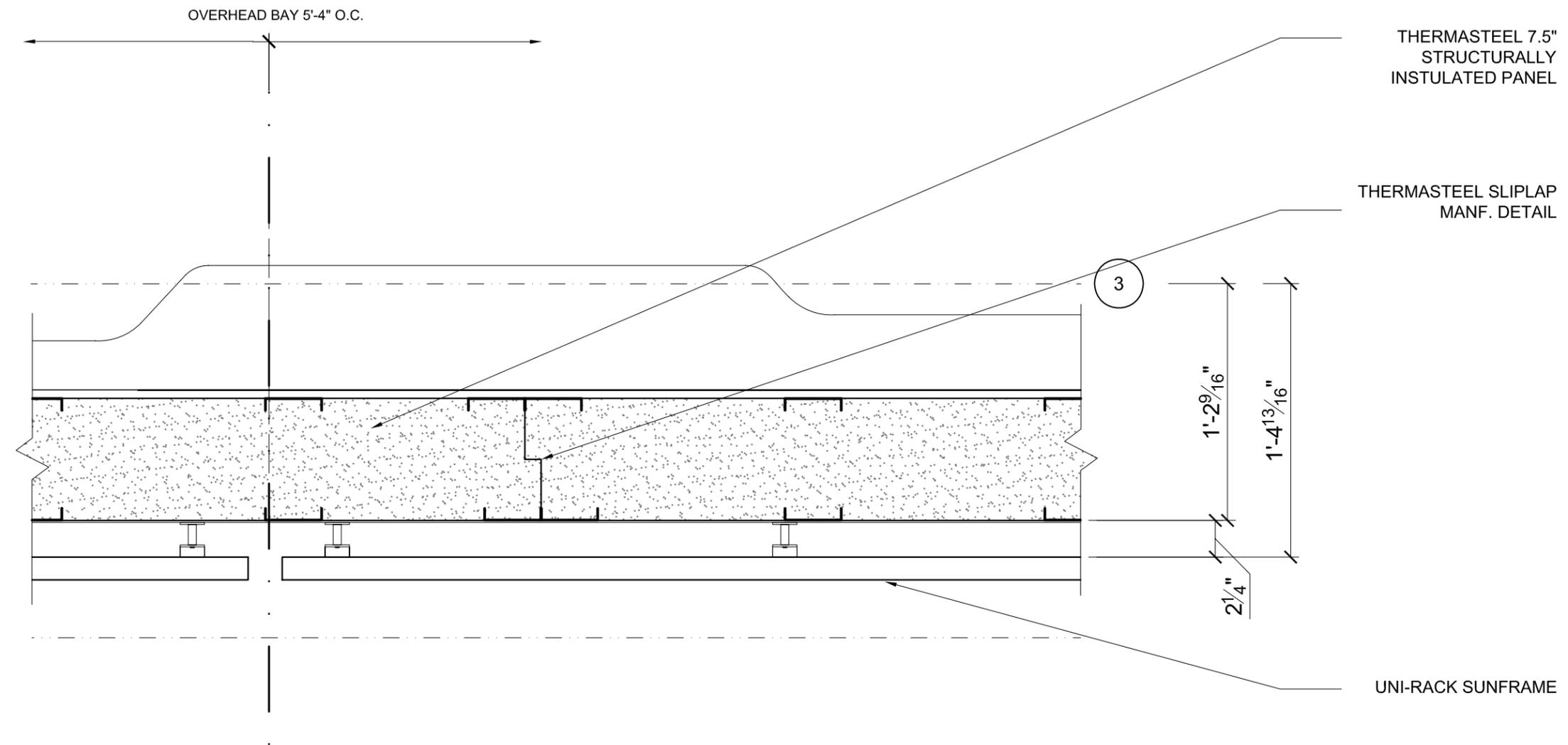
prepared by:
Tony Piede
Nadine Kashlan
date drawn:
03.06.07
12.06.06



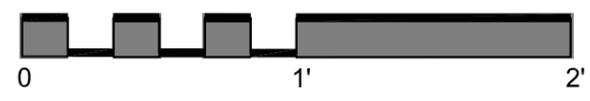
scale: 1-1/2" : 1' 0"

A.5.9

KALWALL - DOOR JOINT DETAIL - SOUTH WALL



1 SIP - PV JOINT DETAIL - SOUTH WALL
A.5.10



revision	description	date

consultants:



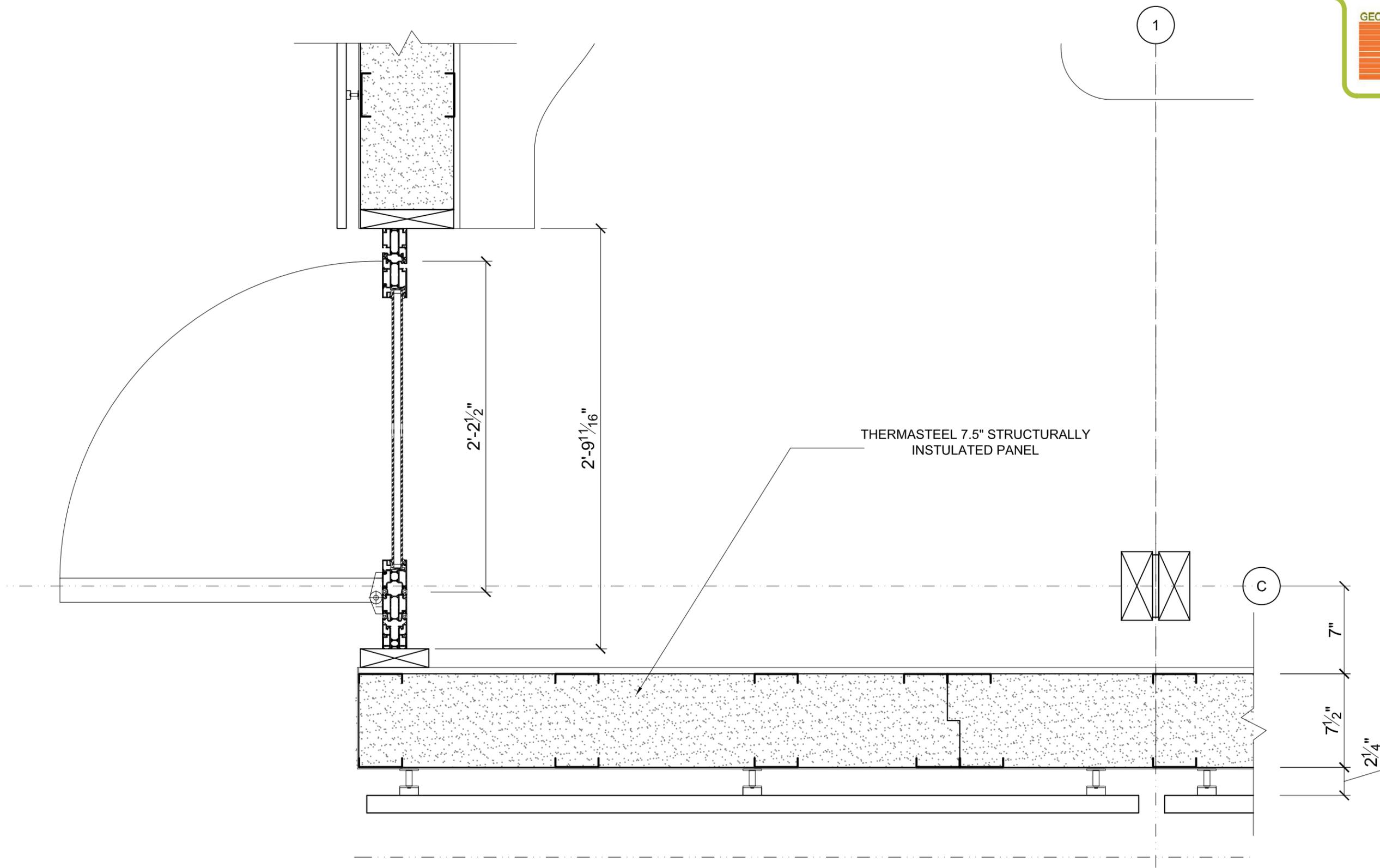
prepared by:
Tony Piede
Nadine Kashlan
 date drawn:
03.06.07
12.06.06



scale: 1-1/2" : 1' 0"

A.5.10

SIP - PV JOINT DETAIL-SOUTH WALL



1 SIP - PV JOINT DETAIL - SOUTH WALL
A.5.11

revision	description	date

consultants:

|||

|||

|||



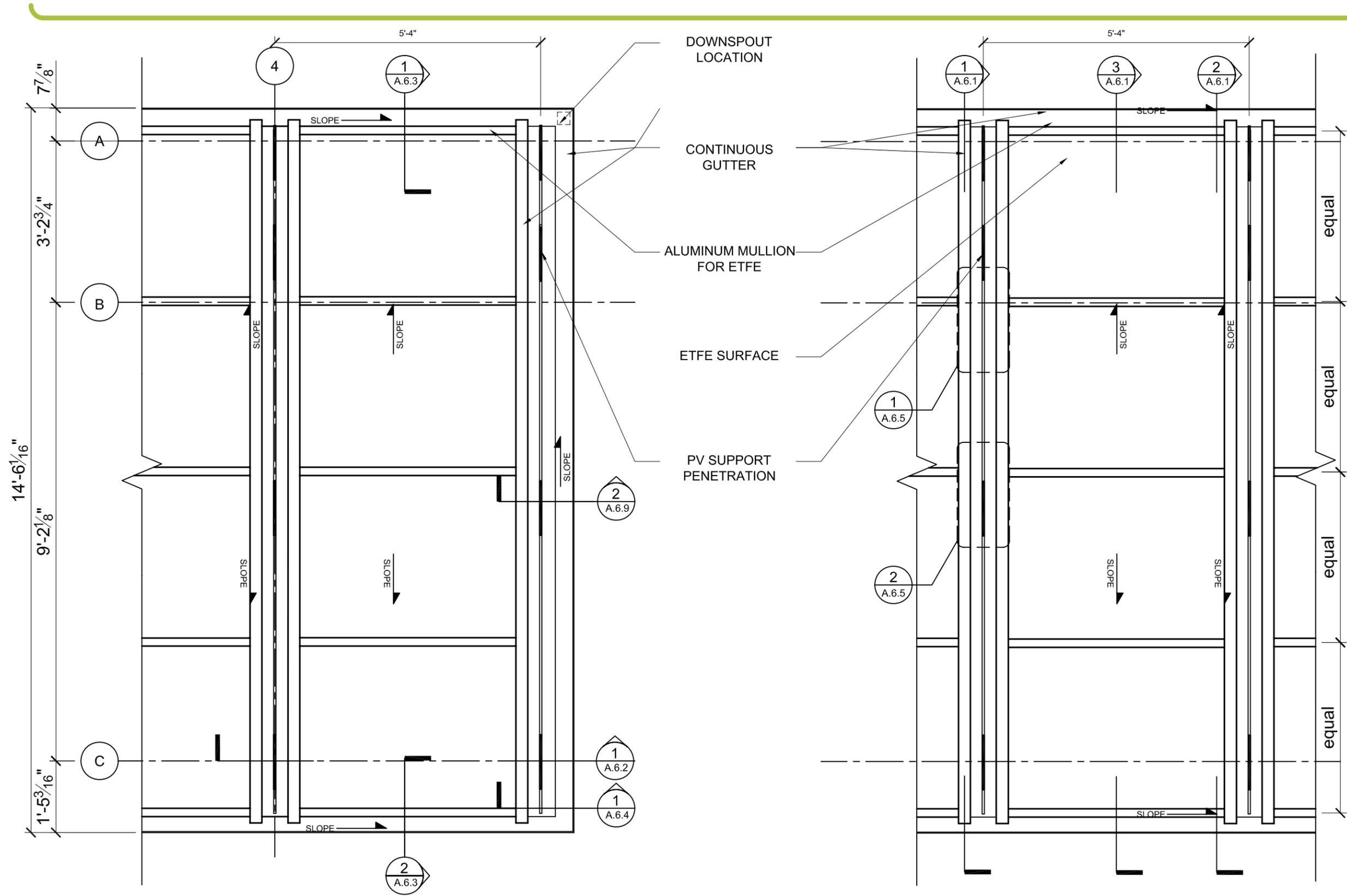
prepared by:
Tony Piede
Nadine Kashlan
 date drawn:
03.06.07
12.06.06



scale: 1-1/2" : 1' 0"

A.5.11

SIP - PV JOINT DETAIL - SOUTH WALL



2
A.6.0

DETAIL ROOF BAY AT ENDS

1
A.6.0

TYPICAL DETAIL ROOF BAY

revision	description	date

consultants:



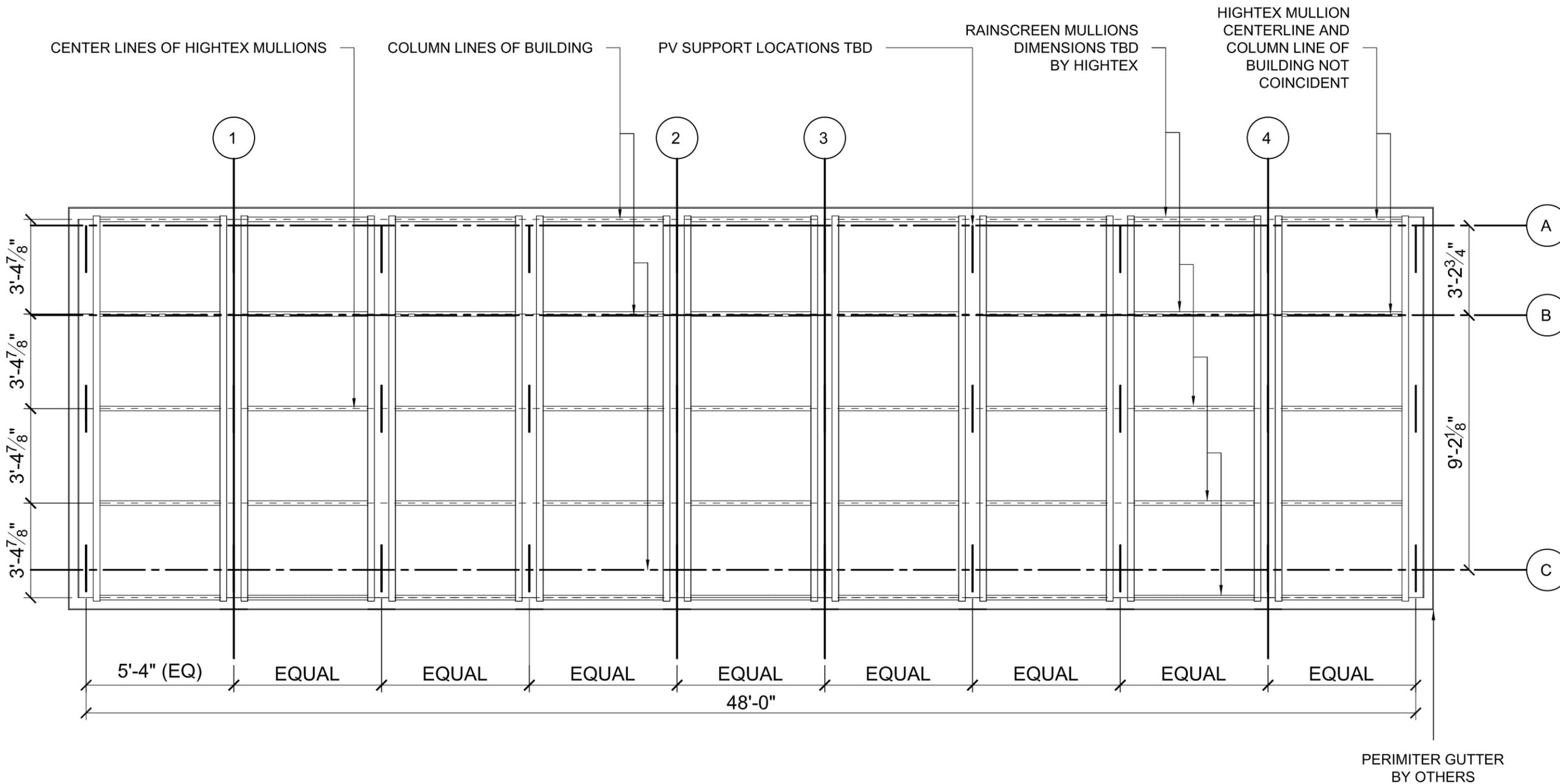
prepared by:
A. Jakubiec
C. Luchian
 date drawn:
05.22.07



scale: **1/2" : 1' 0"**

A.6.0

ETFE ROOF DETAILS



date	description	revision

consultants:



prepared by:
A. Jakubiec

date drawn:
06.01.07



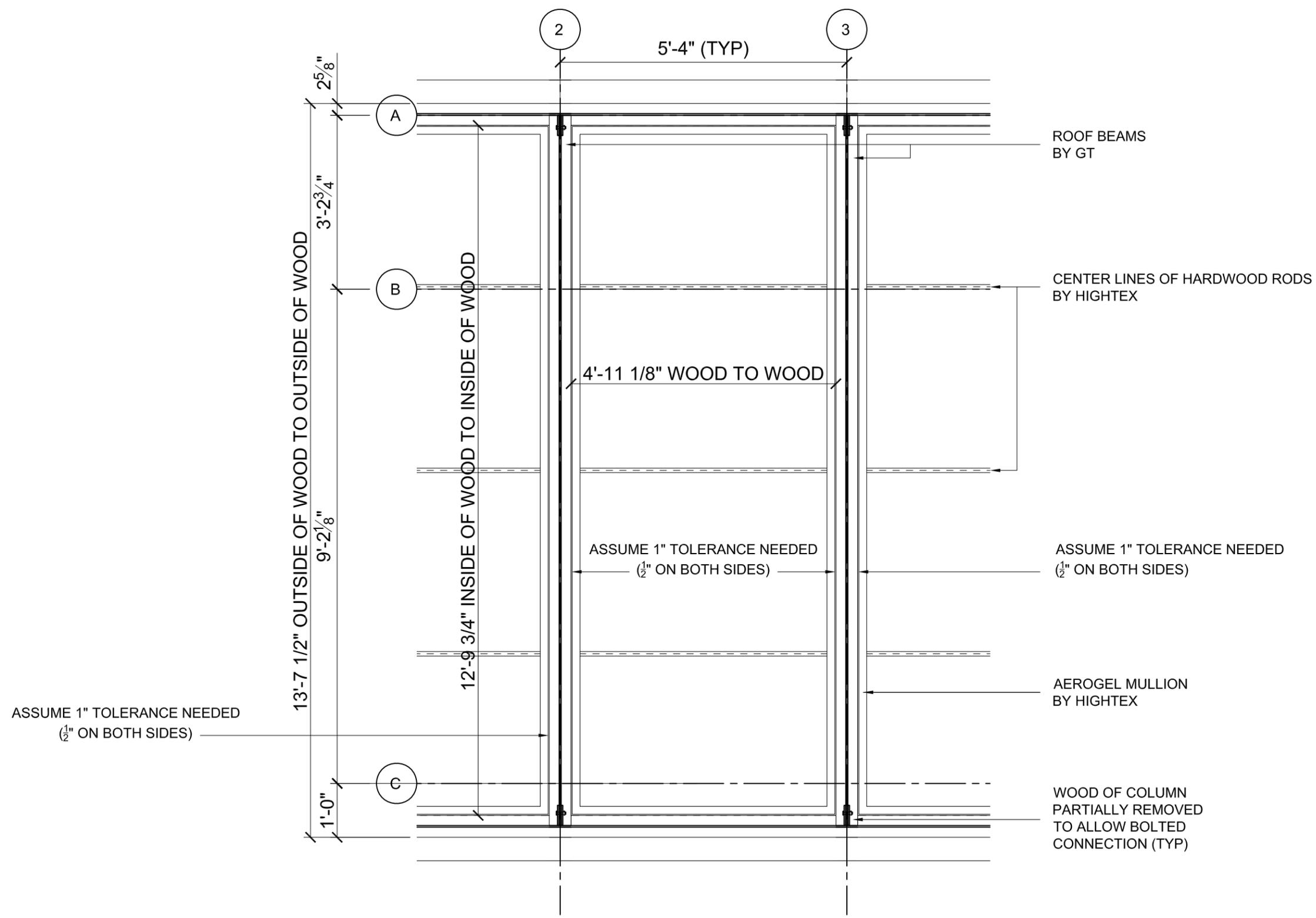
scale: 1/4" = 1'

ETFE RAINSCREEN ROOF PLAN

1
A.6.0.a

ETFE RAINSCREEN ROOF PLAN

A.6.0.a



revision	description	date
A	revised as per June 3 emails	06.03.07

consultants:



prepared by:
A. Jakubiec

date drawn:
06.01.07

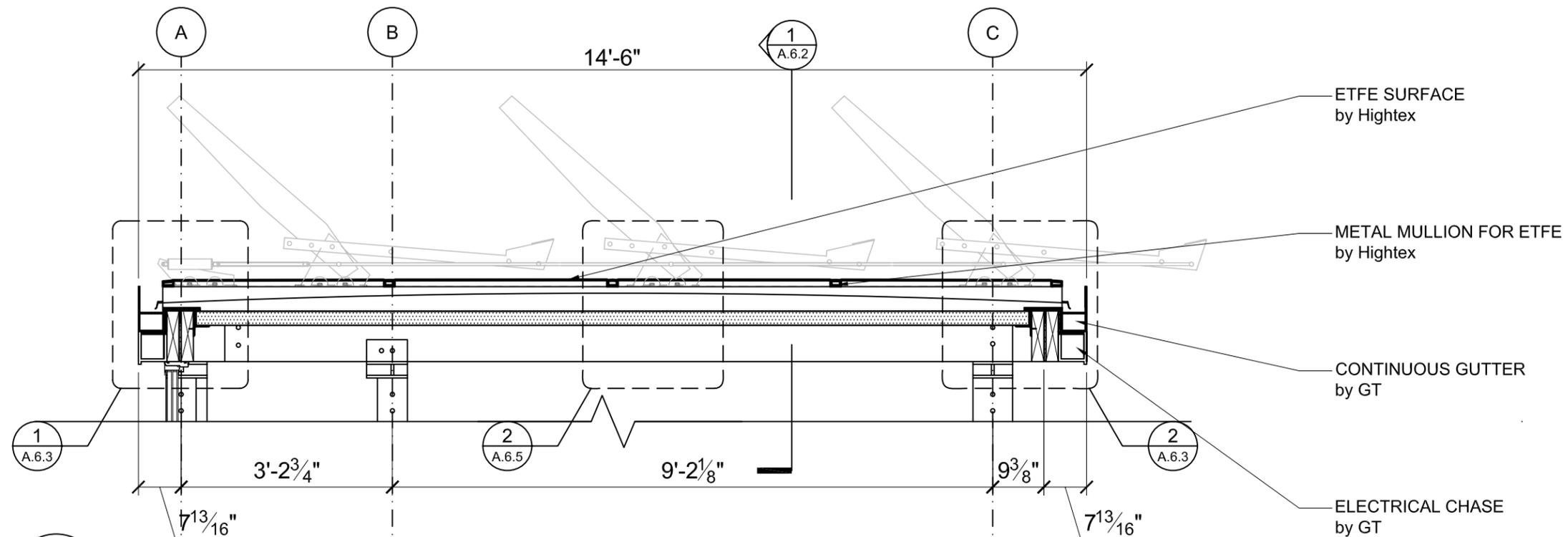


scale: 1/2" = 1'

REFLECTED CEILING PLAN AT AEROGEL / ETFE

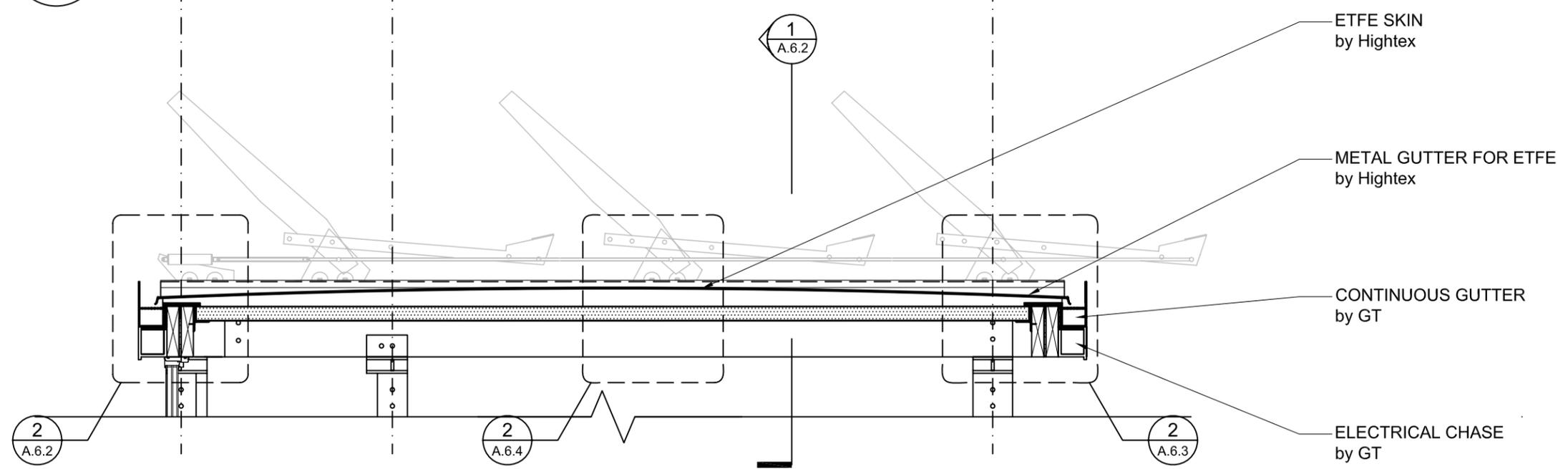
1 TYPICAL BAY - REFLECTED CEILING PLAN
A.6.0.b AT AEROGEL / ETFE LAYER

A.6.0.b



- ETFE SURFACE by Hightex
- METAL MULLION FOR ETFE by Hightex
- CONTINUOUS GUTTER by GT
- ELECTRICAL CHASE by GT

2 SECTION ILLUSTRATING ETFE PILLOW
A.6.1



- ETFE SKIN by Hightex
- METAL GUTTER FOR ETFE by Hightex
- CONTINUOUS GUTTER by GT
- ELECTRICAL CHASE by GT

1 SECTION ILLUSTRATING ETFE MULLION
A.6.1



date	description	revision

consultants:



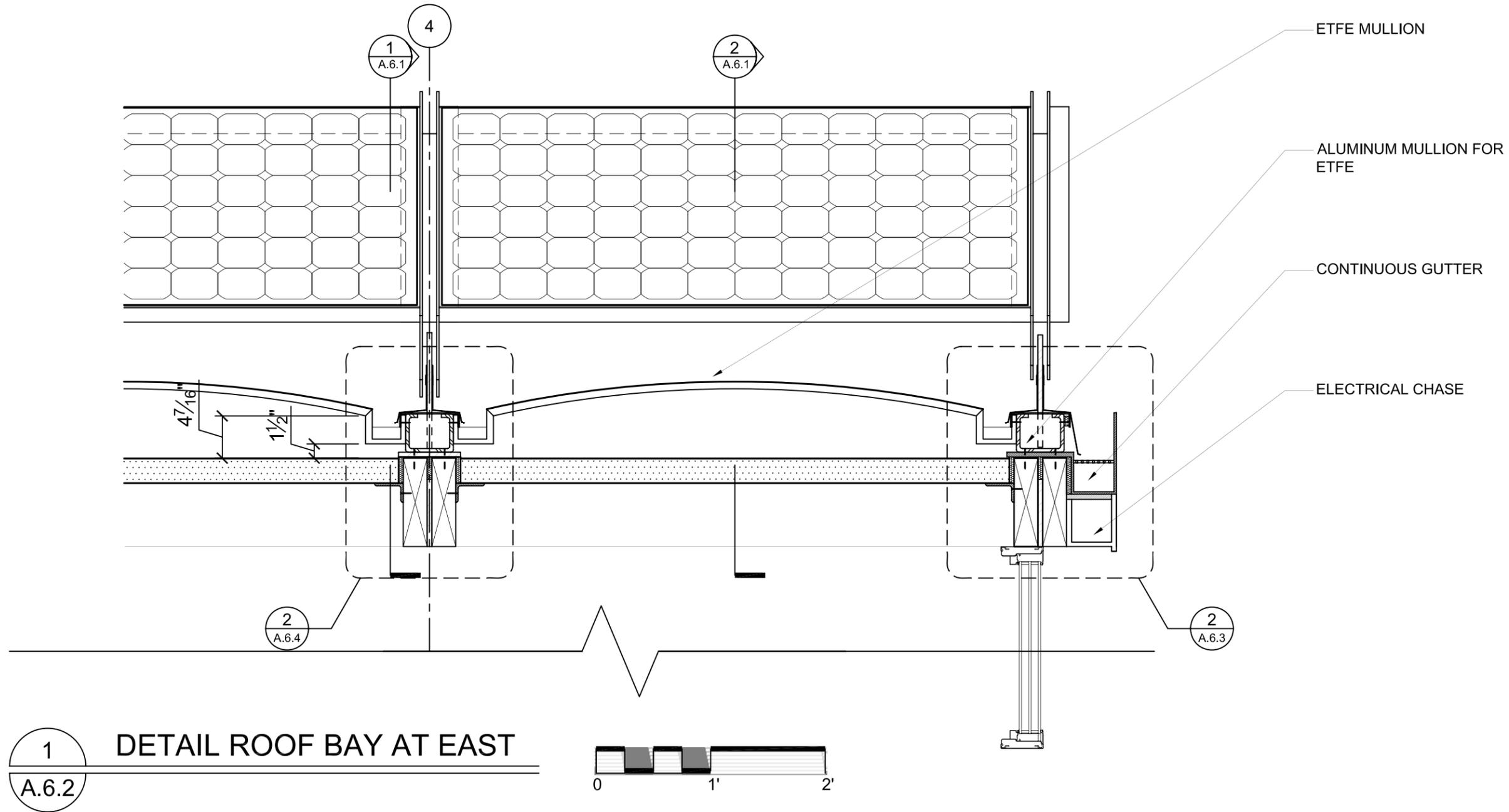
prepared by:
A. Jakubiec
C. Luchian
date drawn:
05.22.07
04.02.07



scale: **1/2" : 1' 0"**

ETFE ROOF DETAILS

A.6.1



date	description	revision

consultants:



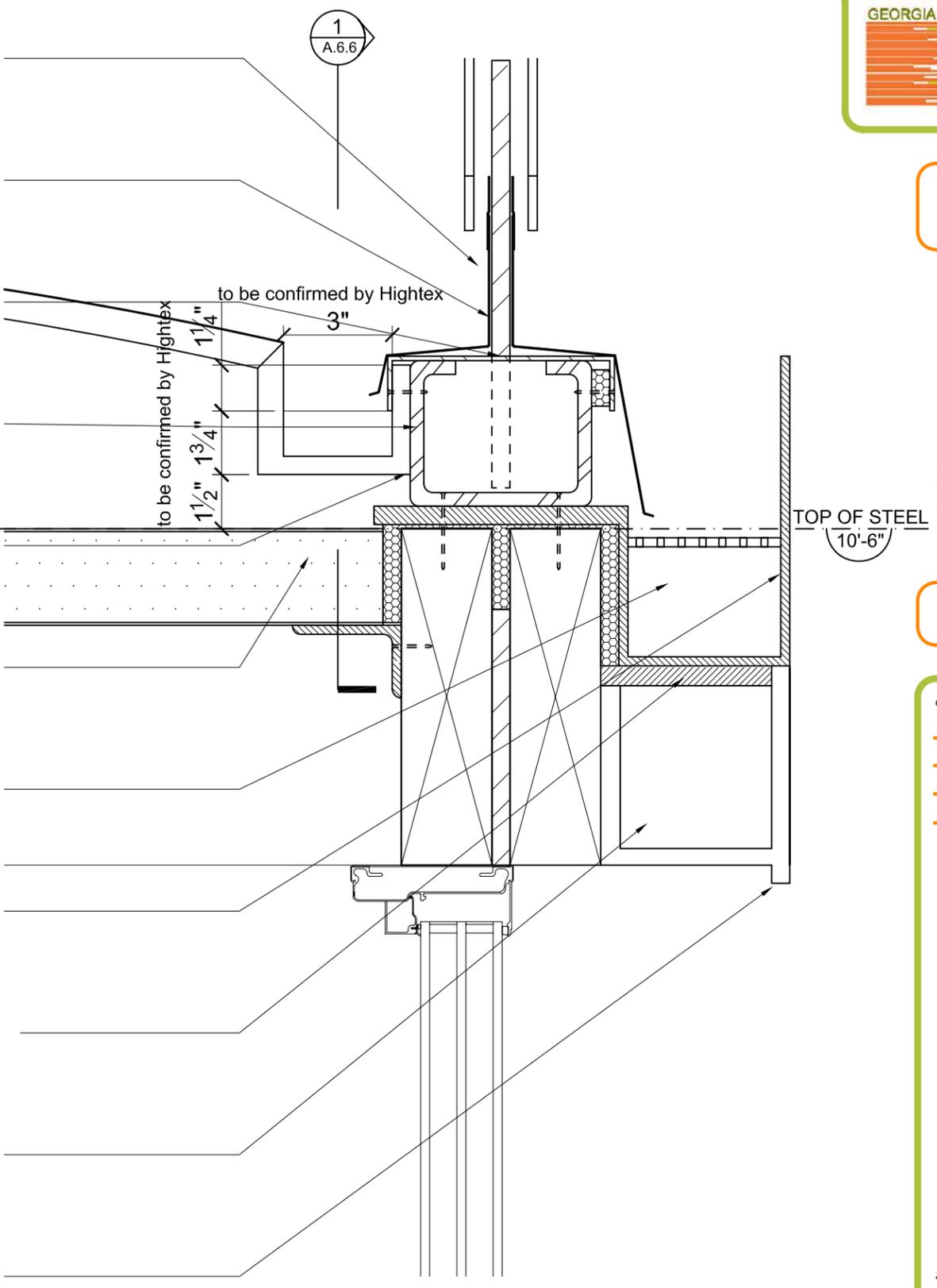
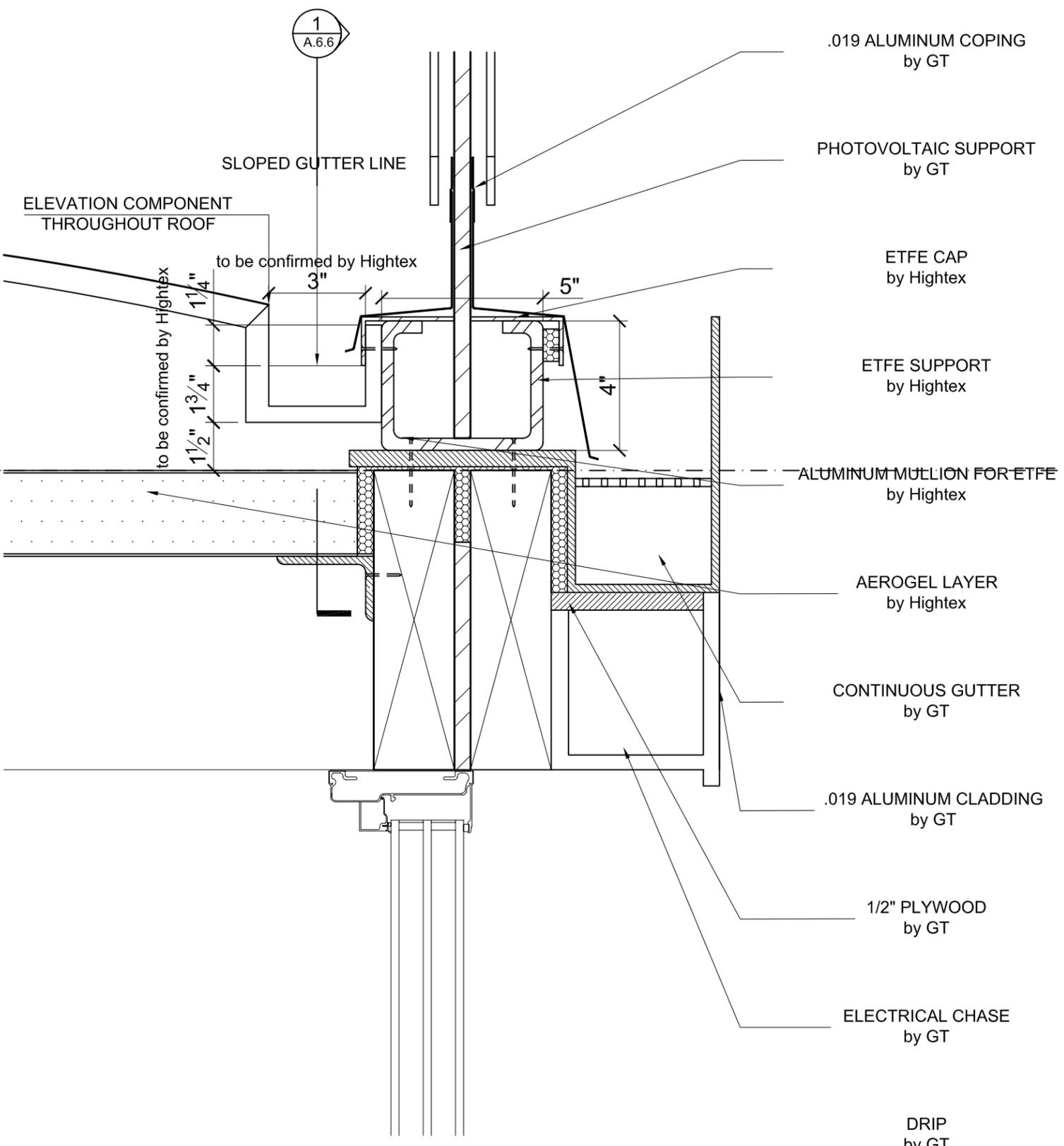
prepared by:
Alstan Jakubiec
date drawn:
11.26.06



scale: **1" : 1' 0"**

ETFE ROOF DETAILS

A.6.2



2
A.6.3
DETAIL AT EAST PV SUPPORT



1
A.6.3
TYPICAL DETAIL AT EAST

date	description
revision	description

consultants:



prepared by:
Alstan Jakubiec
date drawn:
12.04.06



scale: **3" : 1' 0"**

A.6.3

ETFE ROOF DETAILS



revision	description	date

consultants:



prepared by:

A. Jakubiec
C. Luchian

date drawn:

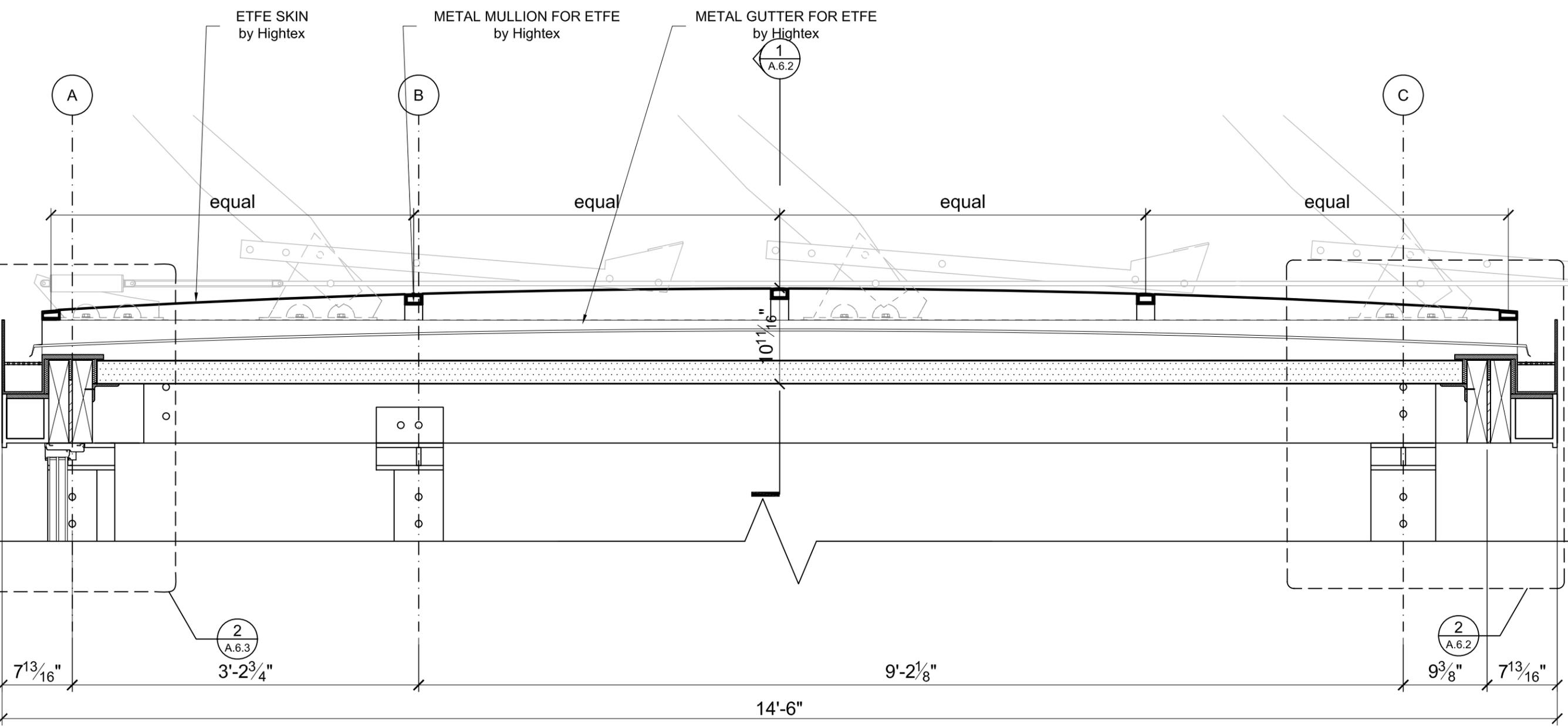
05.22.07
04.02.07



scale: 3" : 1' 0"

ETFE ROOF DRAINAGE DETAILS

A.6.4

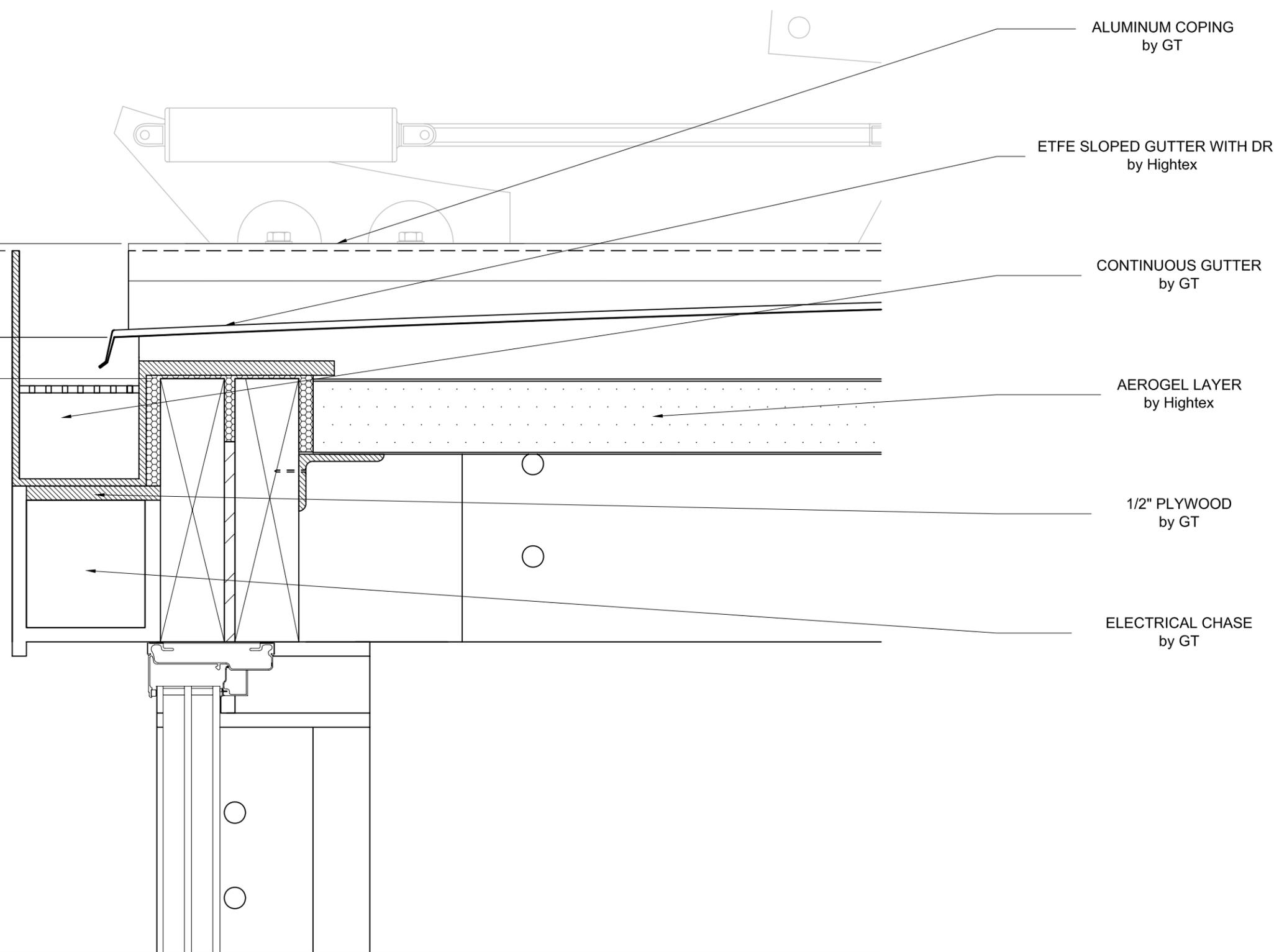


3 SECTION ILLUSTRATING ETFE MULLION
A.6.4



1 3/4" to max sloped gutter height

17/16"
15/16"
1/4"



ALUMINUM COPING
by GT

ETFE SLOPED GUTTER WITH DRIP
by Hightex

CONTINUOUS GUTTER
by GT

AEROGEL LAYER
by Hightex

1/2" PLYWOOD
by GT

ELECTRICAL CHASE
by GT

date	description	revision

consultants:



prepared by:
Alstan Jakubiec

date drawn:
11.26.06



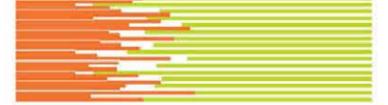
scale: **1/2" : 1' 0"**

ETFE ROOF DETAILS

1
A.6.5
DETAIL AT NORTH



A.6.5



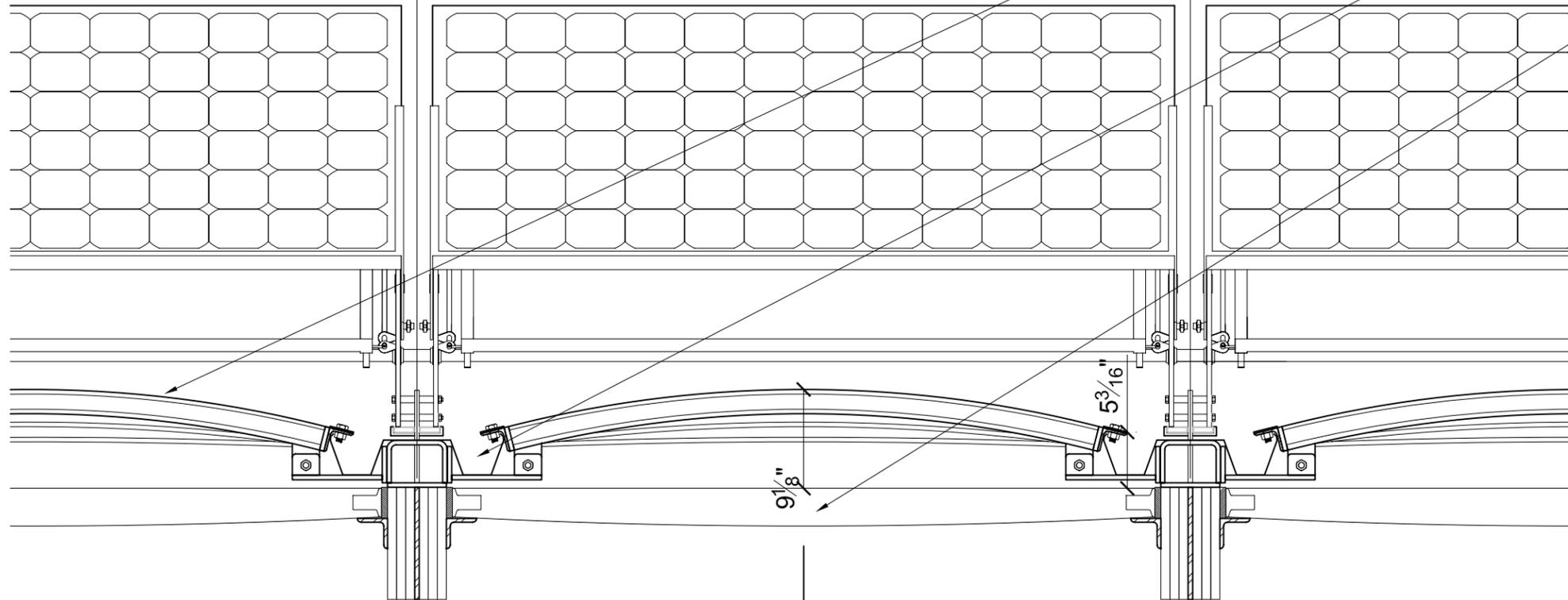
2
A.6.1

5'-4" typ.

ETFE MULLION
by Hightex

ETFE SLOPED GUTTER
by Hightex

AEROGEL LAYER
by Hightex



date

description

revision

consultants:



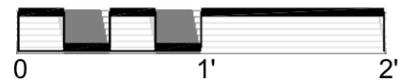
prepared by:
A. Jakubiec
C. Luchian
date drawn:
08.02.07
05.22.07
04.02.07



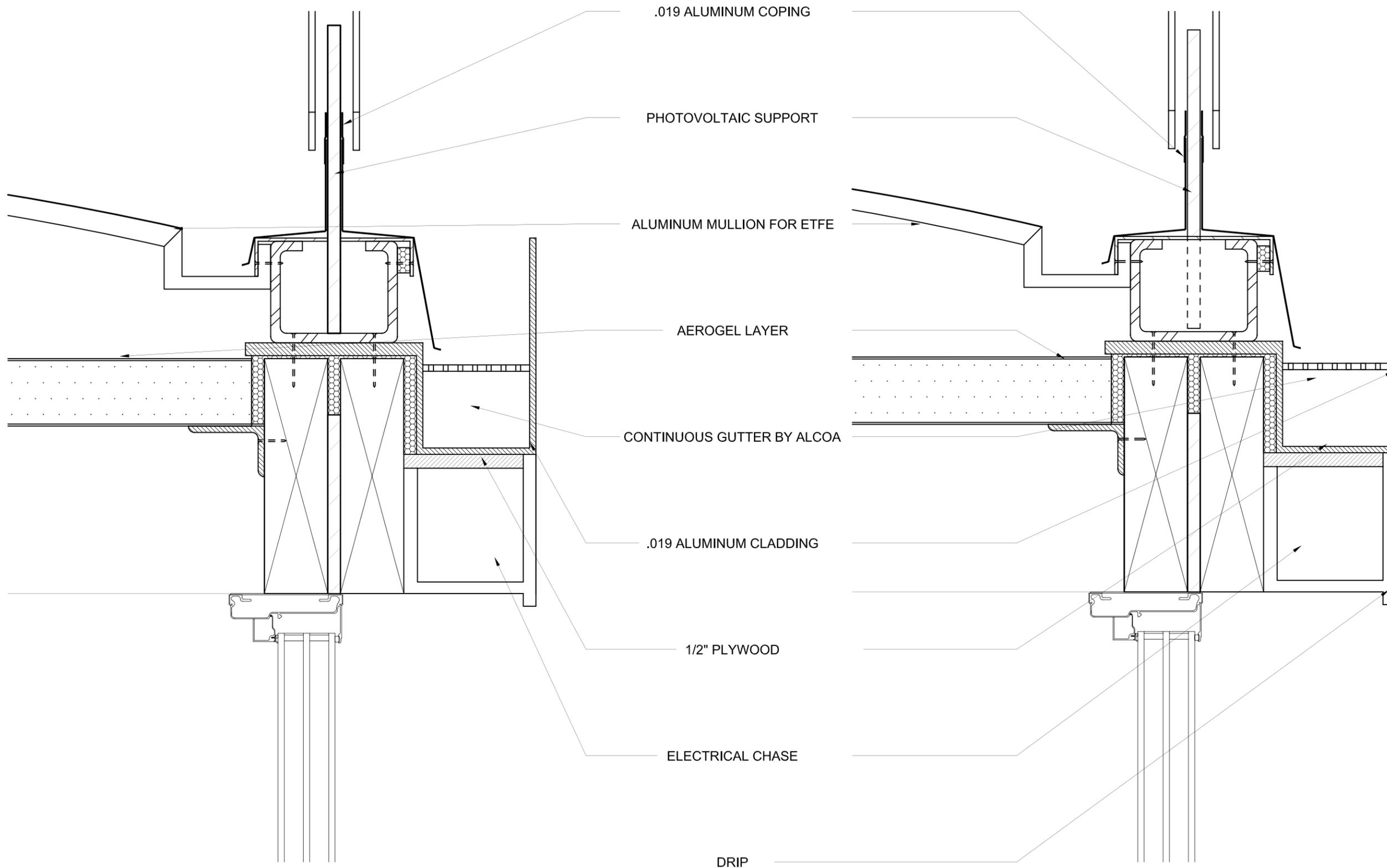
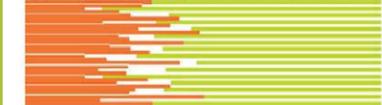
scale: 1" : 1' 0"

ETFE ROOF DETAILS

1
A.6.6
DETAIL TYPICAL ROOF BAY

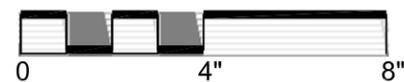


A.6.6



2
A.6.7

DETAIL AT EAST PV SUPPORT



1
A.6.7

TYPICAL DETAIL AT EAST

date	description	revision

consultants:



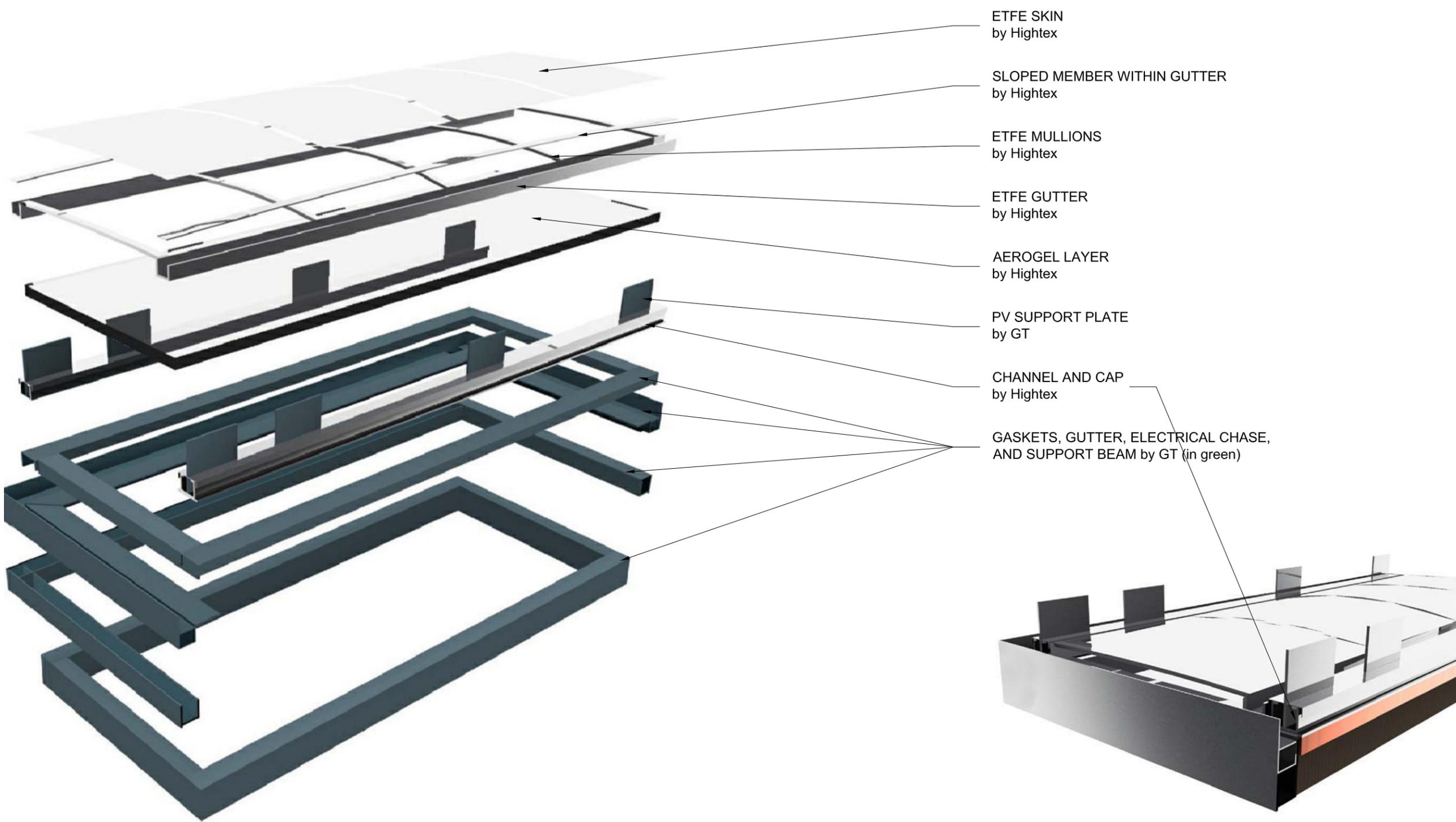
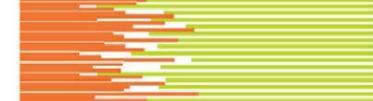
prepared by:
Alstan Jakubiec
date drawn:
12.04.06



scale: 3" : 1' 0"

A.6.7

ETFE ROOF DETAILS



date	description	revision

consultants:



prepared by:
A. Jakubiec
date drawn:
05.24.07



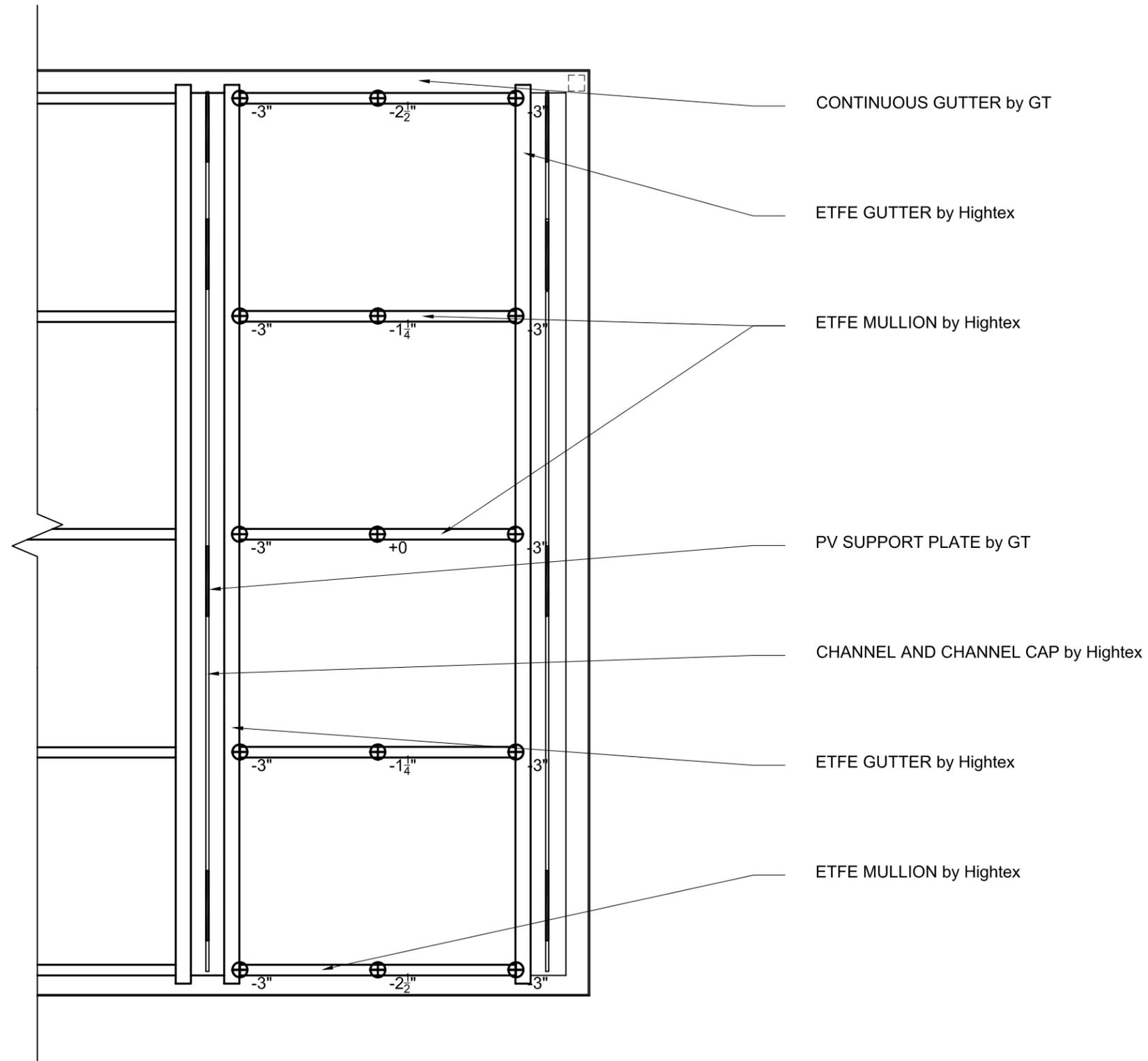
scale: **NTS**

ETFE ROOF DETAILS

2 ROOF BAY EXPLODED
A.6.8

1 ROOF BAY PERSPECTIVE
A.6.8

A.6.8



date
description
revision

consultants:



prepared by:
A. Jakubiec
 date drawn:
05.24.07

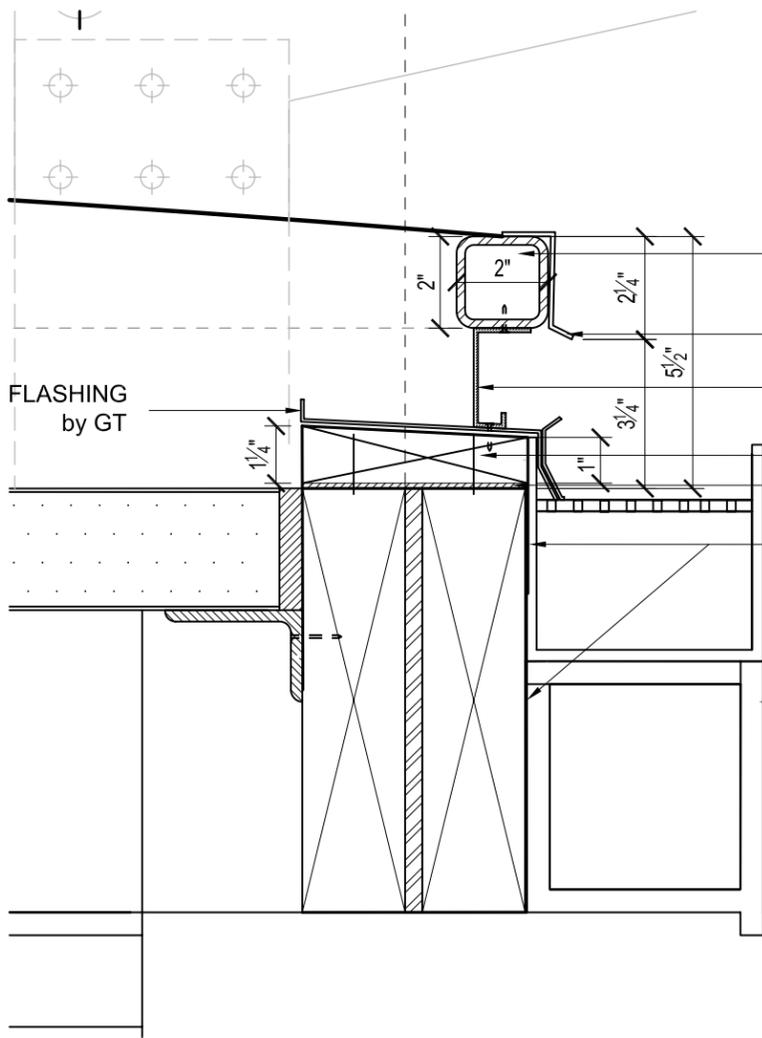
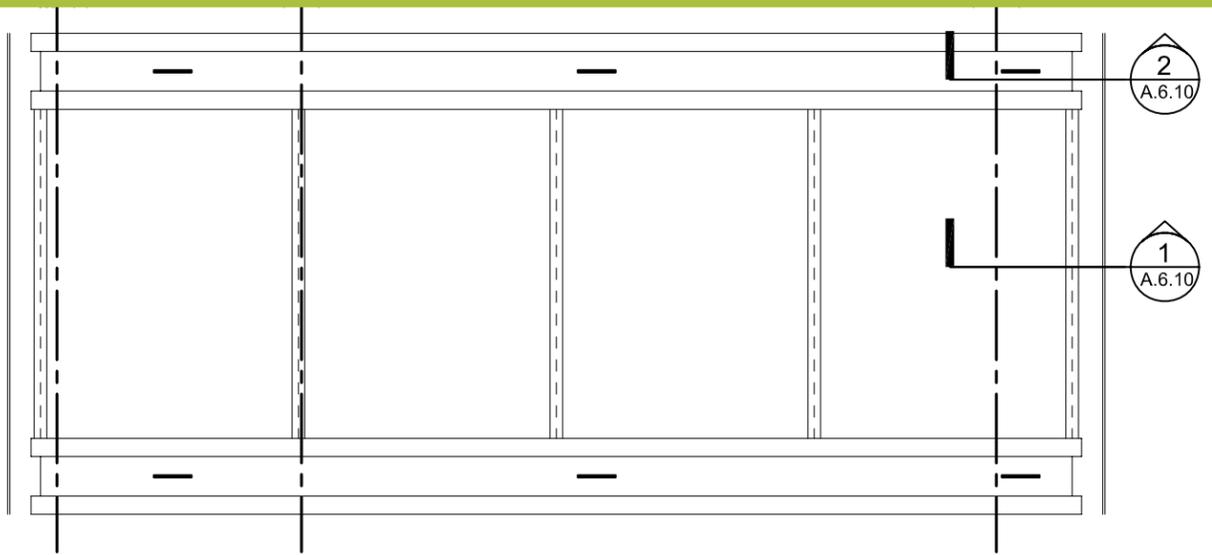


scale: 1/2" = 1'

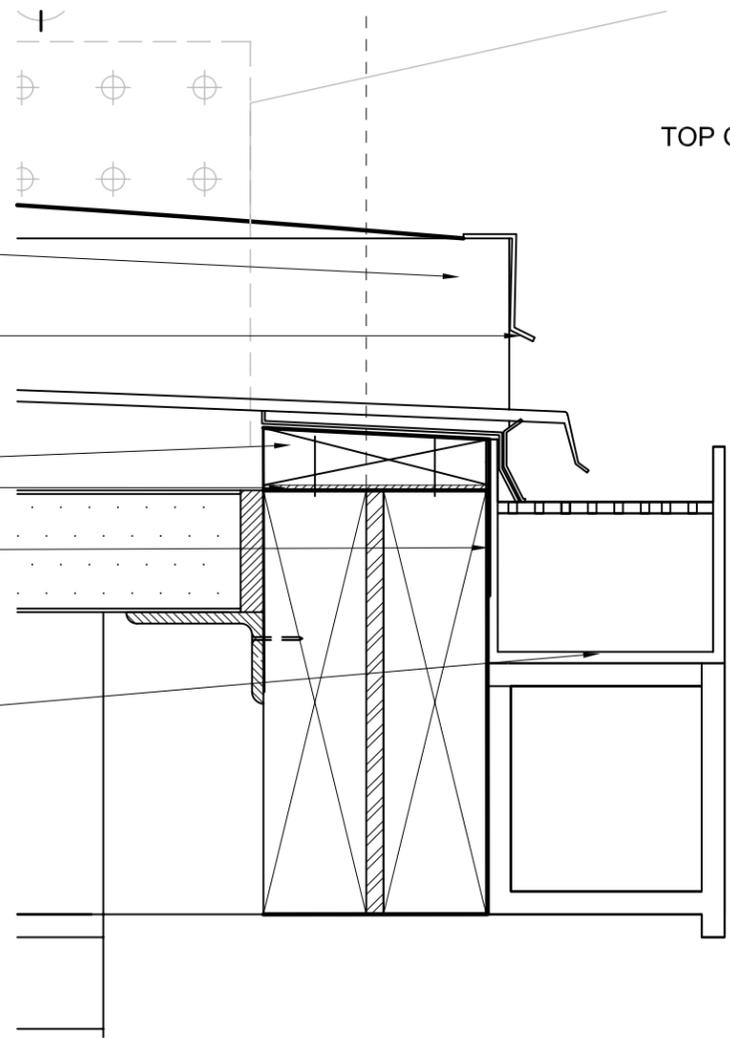
ETFE ROOF DETAILS

1 HEIGHT CHANGE IN ETFE SKIN
 A.6.9

A.6.9



- 2x2x $\frac{3}{16}$ MULLION by Hightex
- CONTINUOUS PVC FLASHING by Hightex
- BUGSCREEN by Hightex SPOT ATTACHED TO WOOD
- CONTINUOUS WOOD BLOCKING by GT
- $\frac{1}{8}$ " RUBBER GASKET by GT
- OPTIFLASH BUTYL RUBBER TAPE WRAPS BEAM by GT
- ALUMINUM GUTTER and ELECTRICAL CHASE by GT



1 TYPICAL DETAIL AT CENTER OF BAY
A.6.10

2 TYPICAL DETAIL AT HIGHTEX GUTTER
A.6.10

revision	description	date
A	bug screen details	07.02.07

consultants:



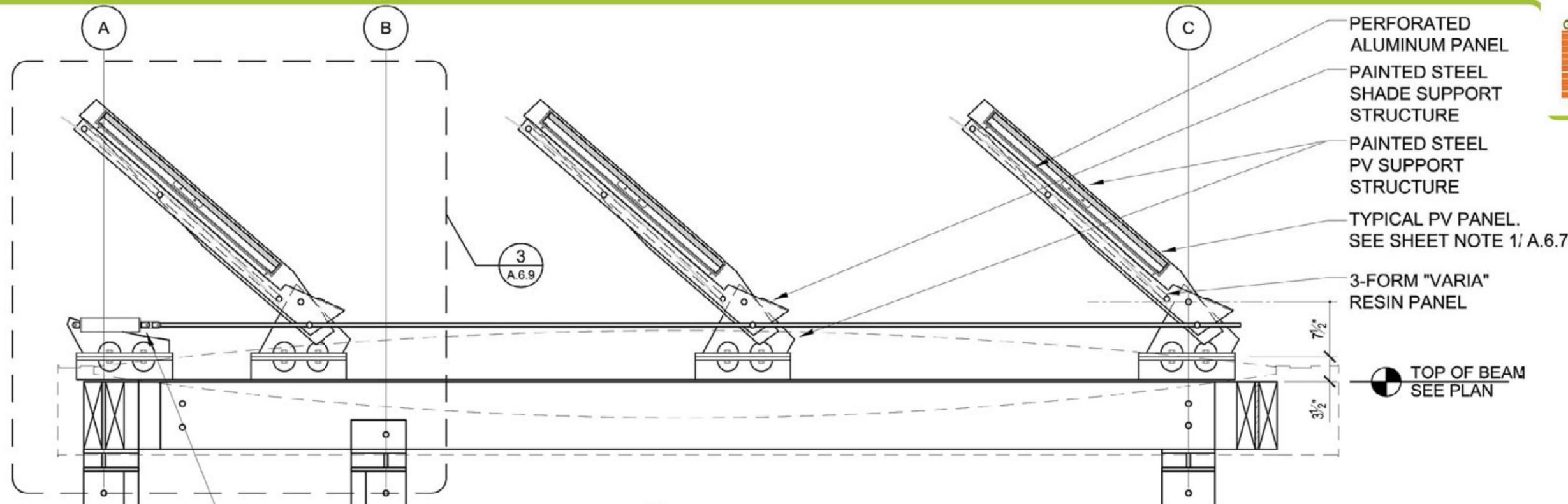
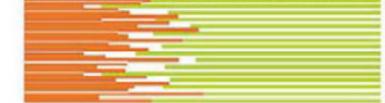
prepared by:
A. Jakubiec
date drawn:
05.24.07



scale: 3" = 1'

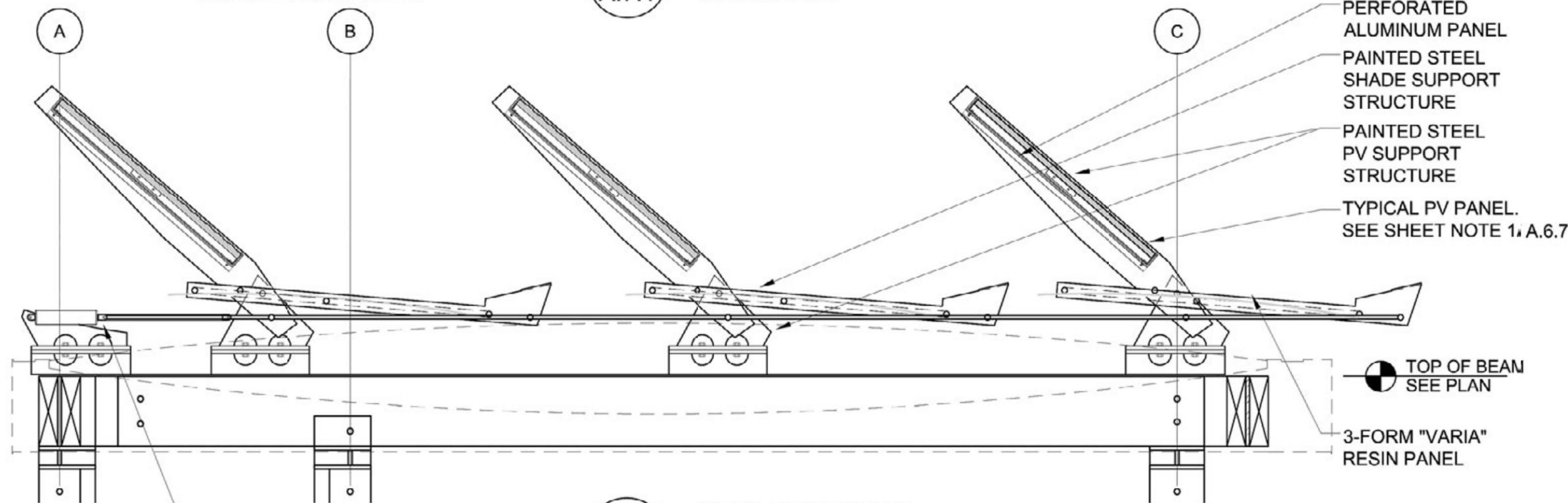
ETFE ROOF DETAILS

A.6.10



LINEAR ACTUATOR FOR PV ARMATURE
SEE SHEET NOTE 2/A.6.7

2 TYP. SECTION AT FULLY RETRACTED SHADE CONDITION
A.7.1 SCALE: 3/4" = 1'-0"



LINEAR ACTUATOR FOR SHADE ARMATURE
SEE SHEET NOTE 3/A.6.7

1 TYP. SECTION AT FULLY EXTENDED SHADE CONDITION
A.7.1 SCALE: 3/4" = 1'-0"

date
description
revision

consultants:

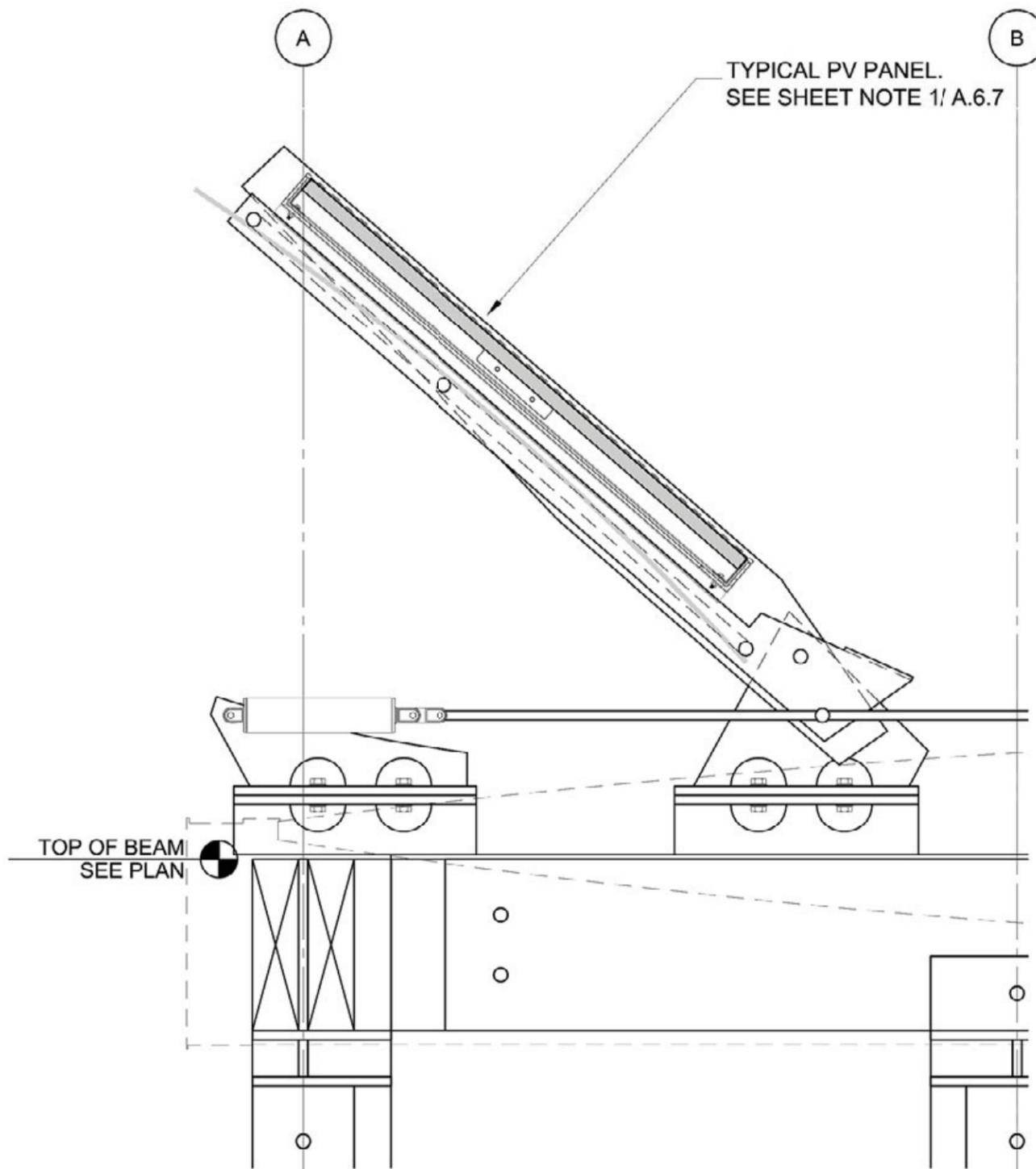
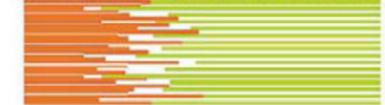


prepared by:
Jamie O'Kelley
date drawn:
12.04.06
03.03.07

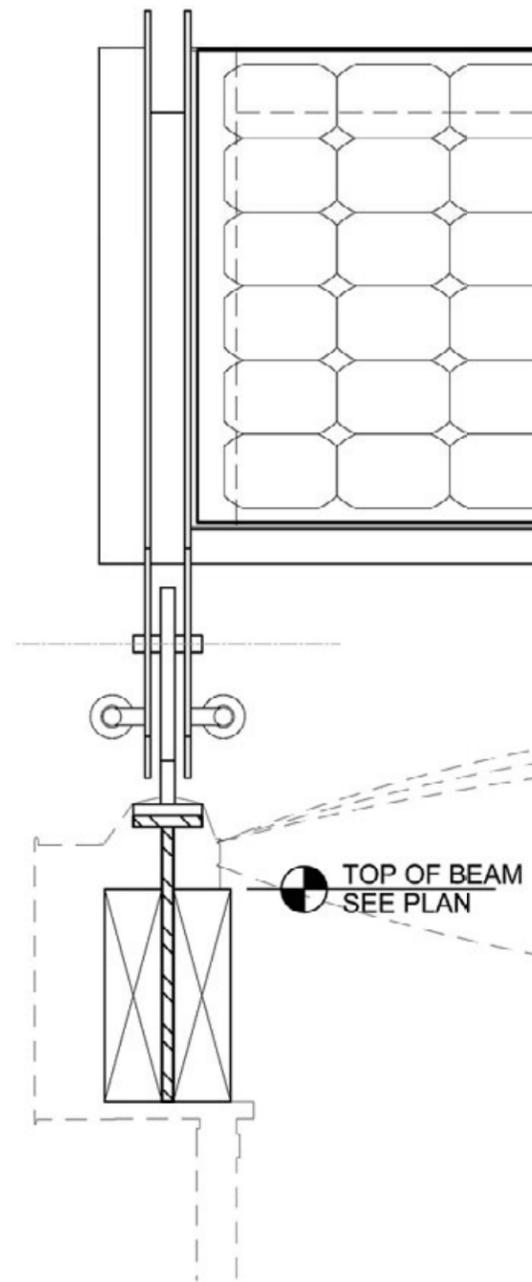
scale: as noted

PHOTOVOLTAIC SUPPORTS

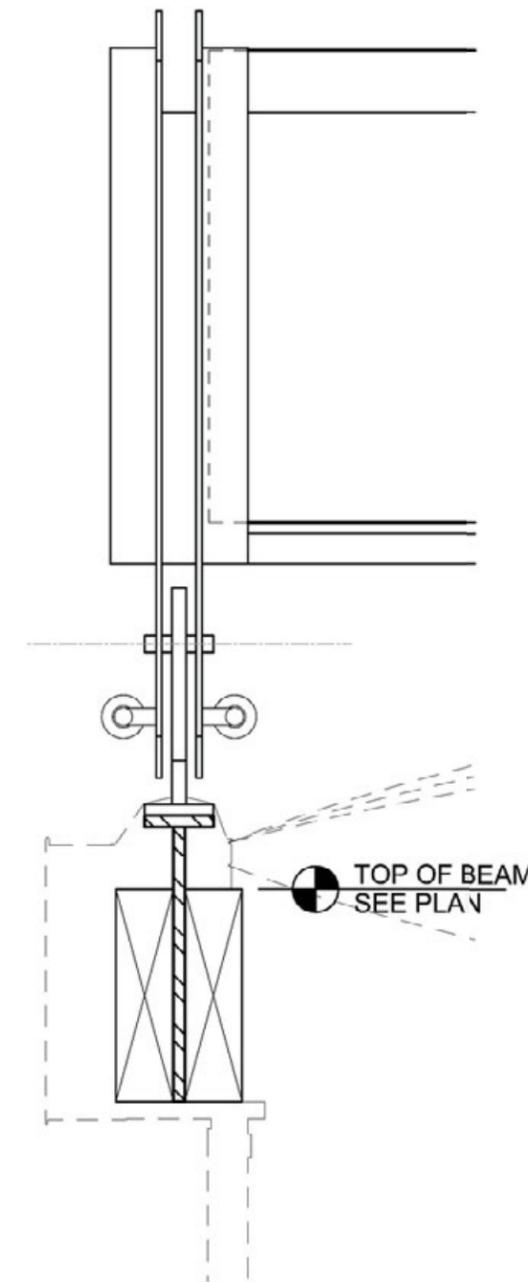
A.7.1



3 SECTION
A.7.2 SCALE: 1-1/2" = 1'-0"



2 SECTION
A.7.2 SCALE: 1-1/2" = 1'-0"



1 SECTION
A.7.2 SCALE: 1-1/2" = 1'-0"

date	description	revision

consultants:

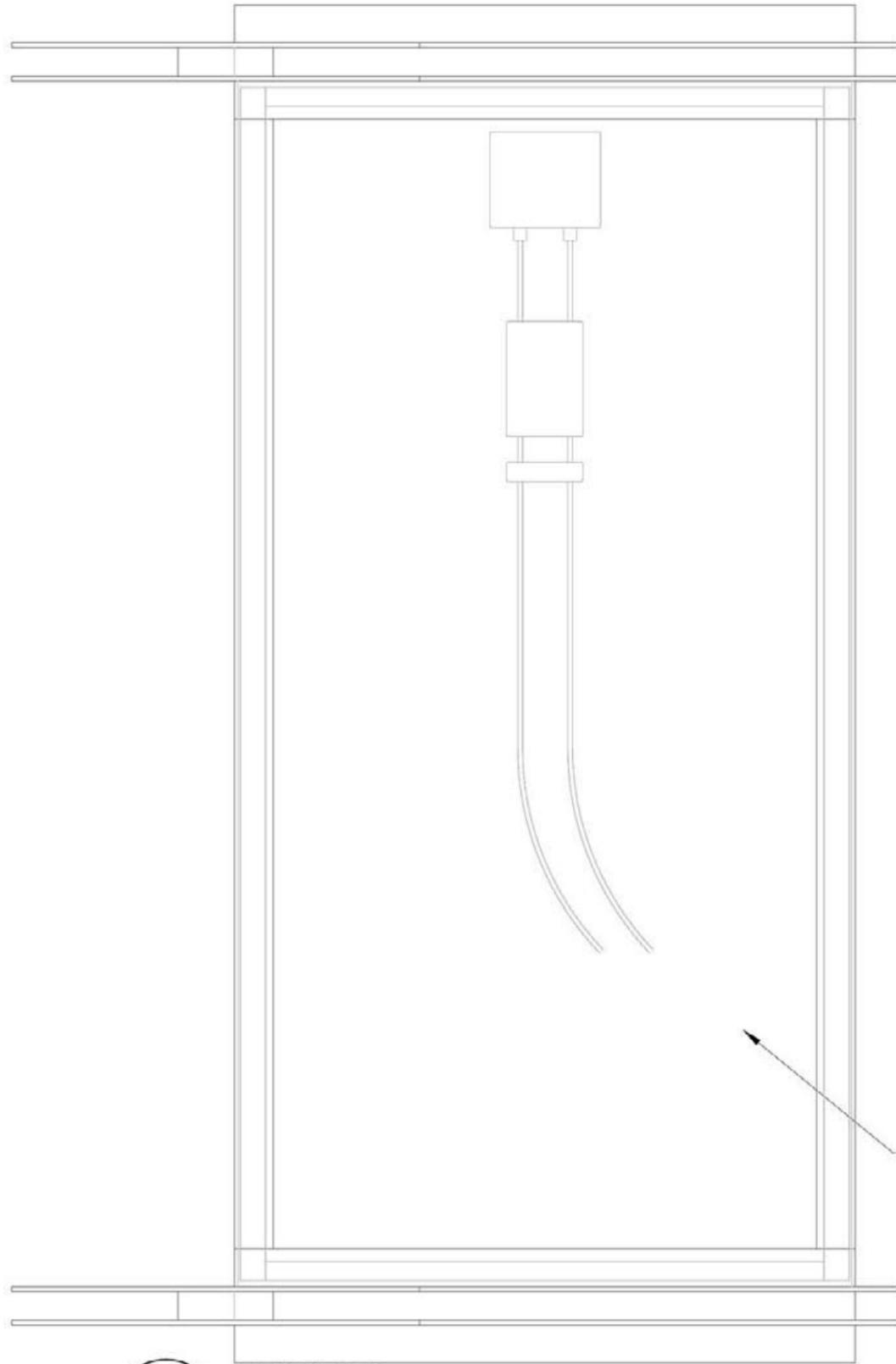


prepared by:
Jamie O'Kelley
 date drawn:
12.04.06
03.03.07

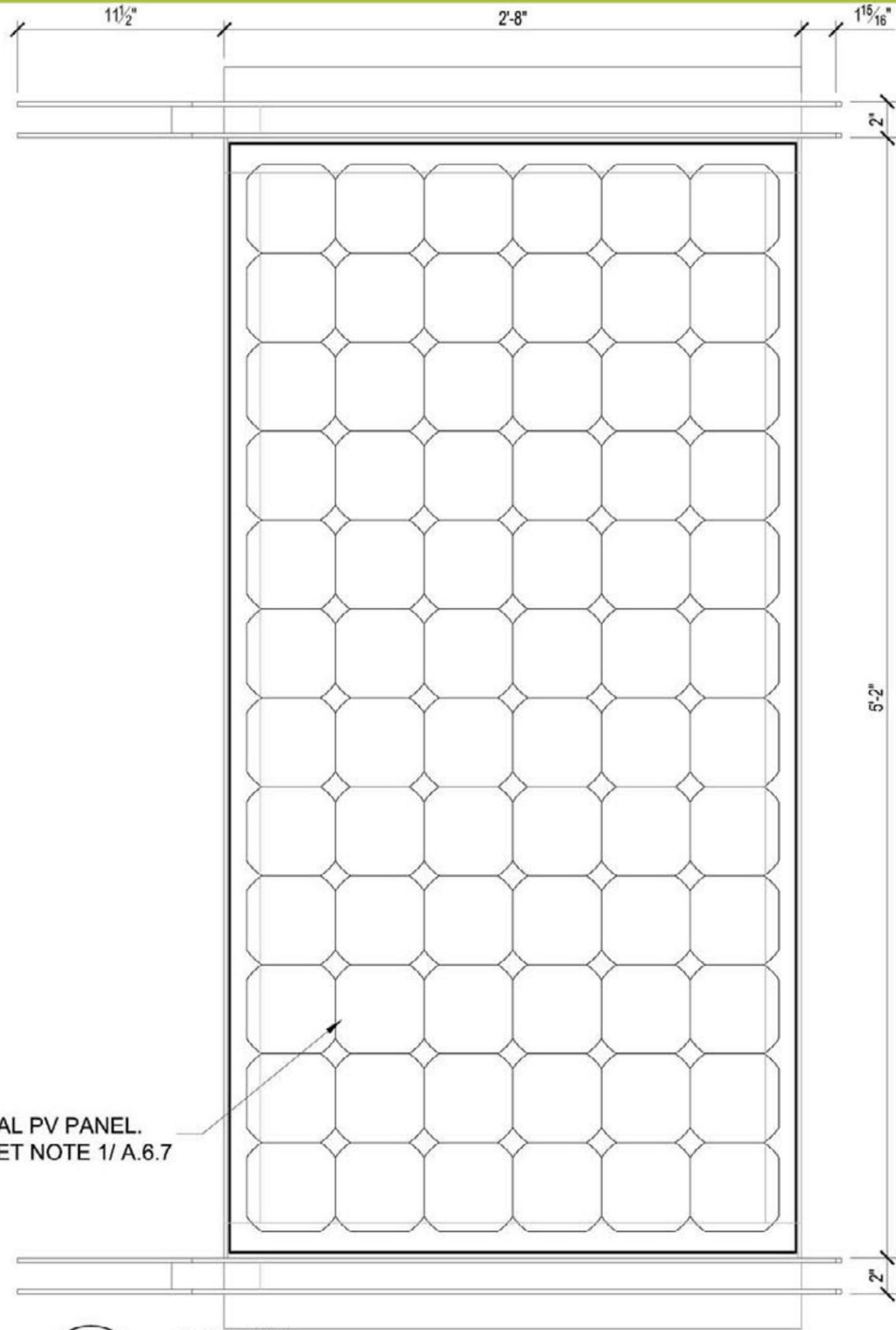
scale: **as noted**

A.7.2

PHOTOVOLTAIC SUPPORTS



2 **DETAIL** AT TYP. PV MODULE REAR
A.7.3 SCALE: 1-1/2" = 1'-0"



1 **DETAIL** AT TYP. PV MODULE FRONT
A.7.3 SCALE: 1-1/2" = 1'-0"

TYPICAL PV PANEL.
SEE SHEET NOTE 1/ A.6.7

date
revision
description

consultants:

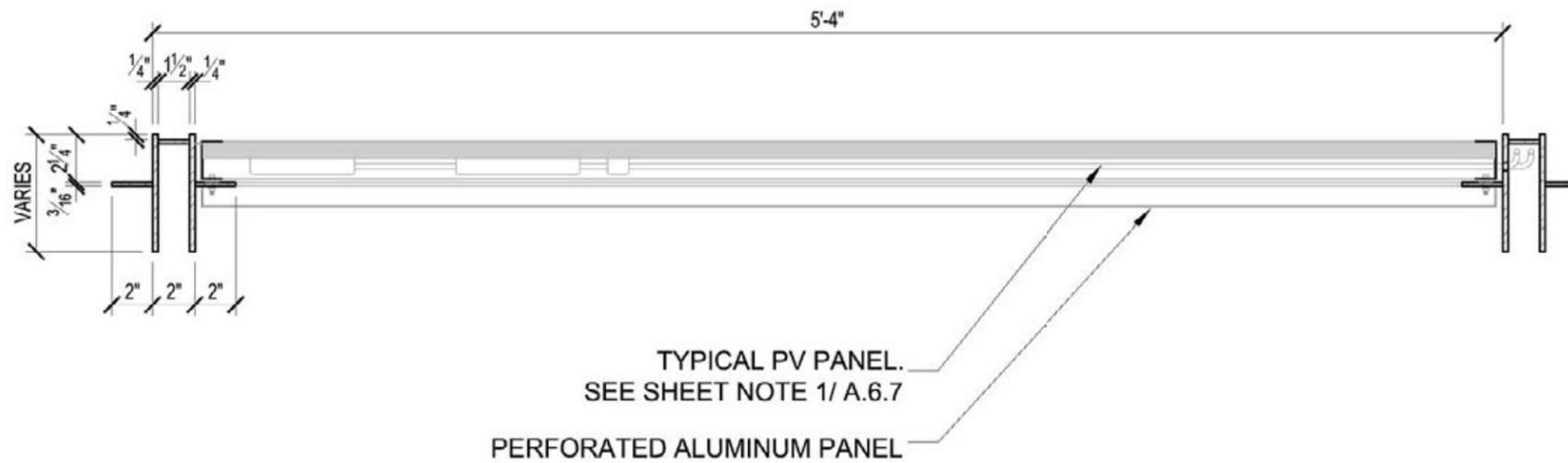


prepared by:
Jamie O'Kelley
date drawn:
12.04.06

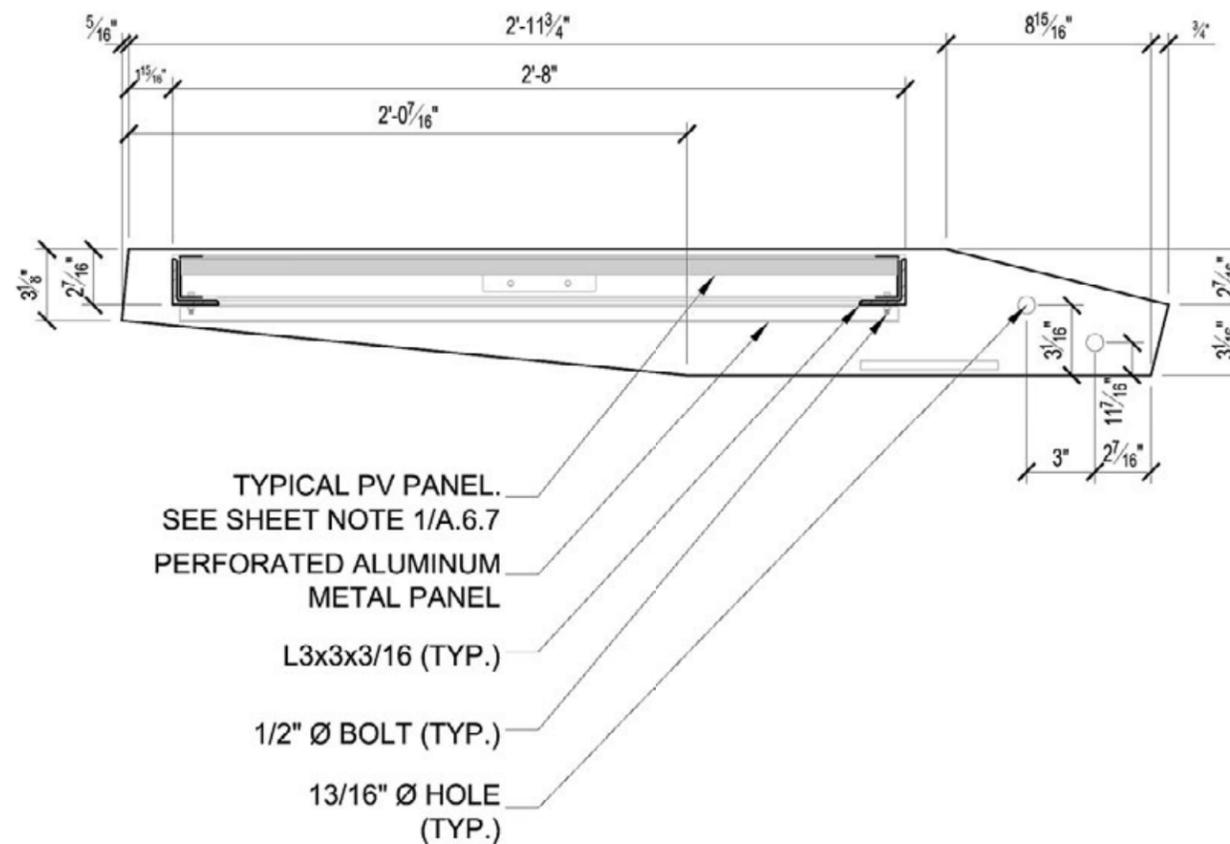
scale: **as noted**

PHOTOVOLTAIC SUPPORTS

A.7.3



2 DETAIL TYP. PV MODULE
A.7.5 SCALE: 1-1/2" = 1'-0"



1 DETAIL TYP. PV MODULE
A.7.4 SCALE: 1-1/2" = 1'-0"

date	description	revision

consultants:

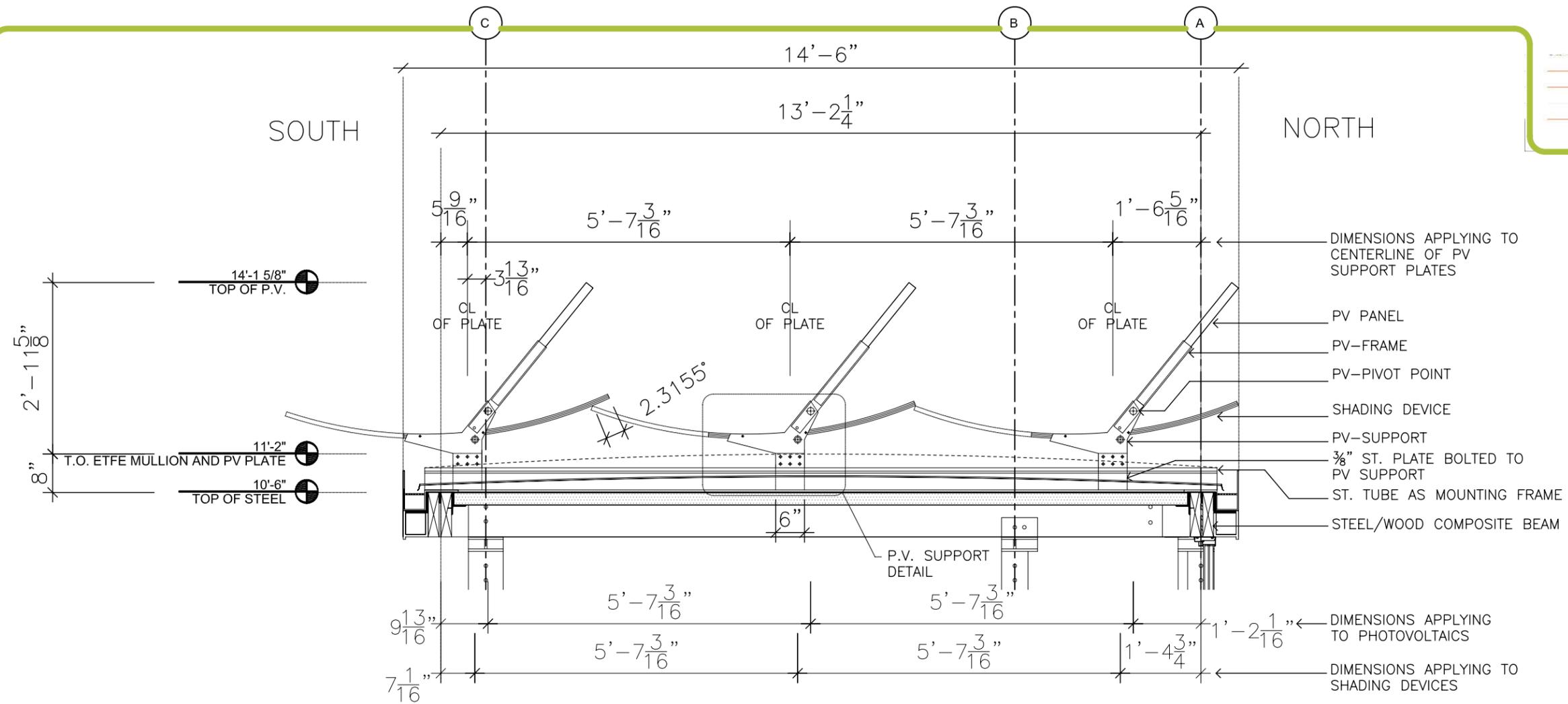


prepared by:
Jamie O'Kelley
 date drawn:
12.04.06

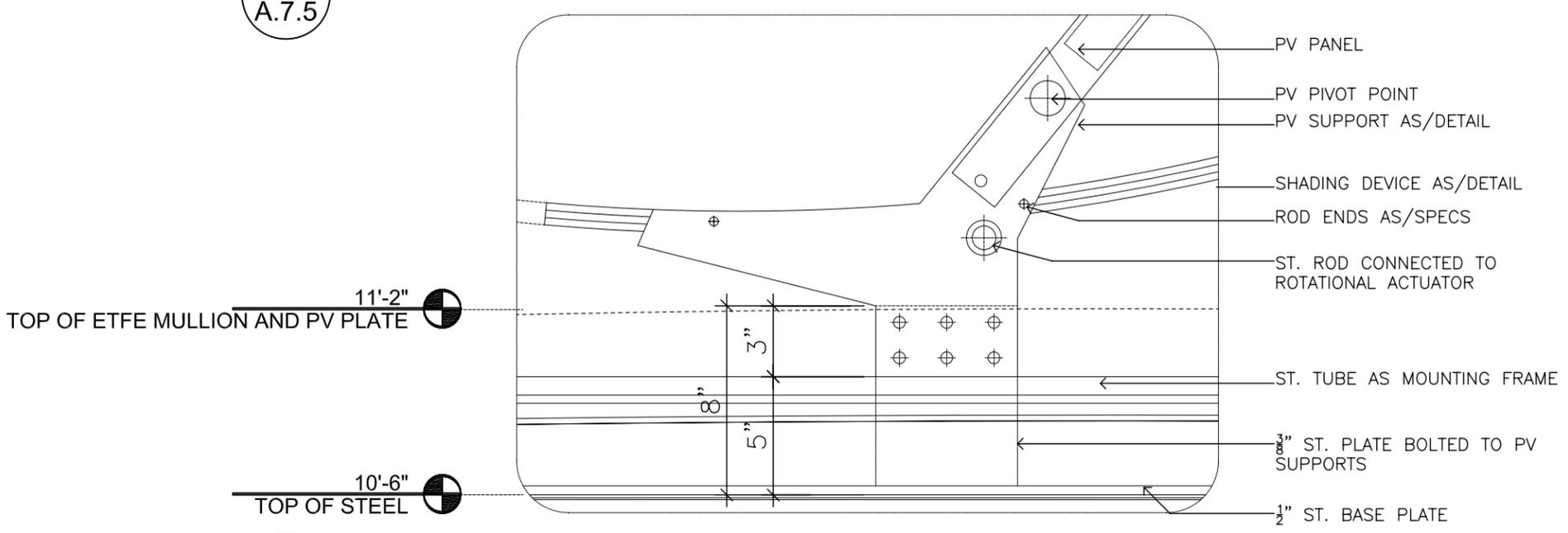
scale: **as noted**

A.7.4

PHOTOVOLTAIC SUPPORTS



2 PHOTOVOLTAIC SUPPORTS
A.7.5



1 PHOTOVOLTAIC SUPPORTS
A.7.5

date	
description	
revision	

consultants:

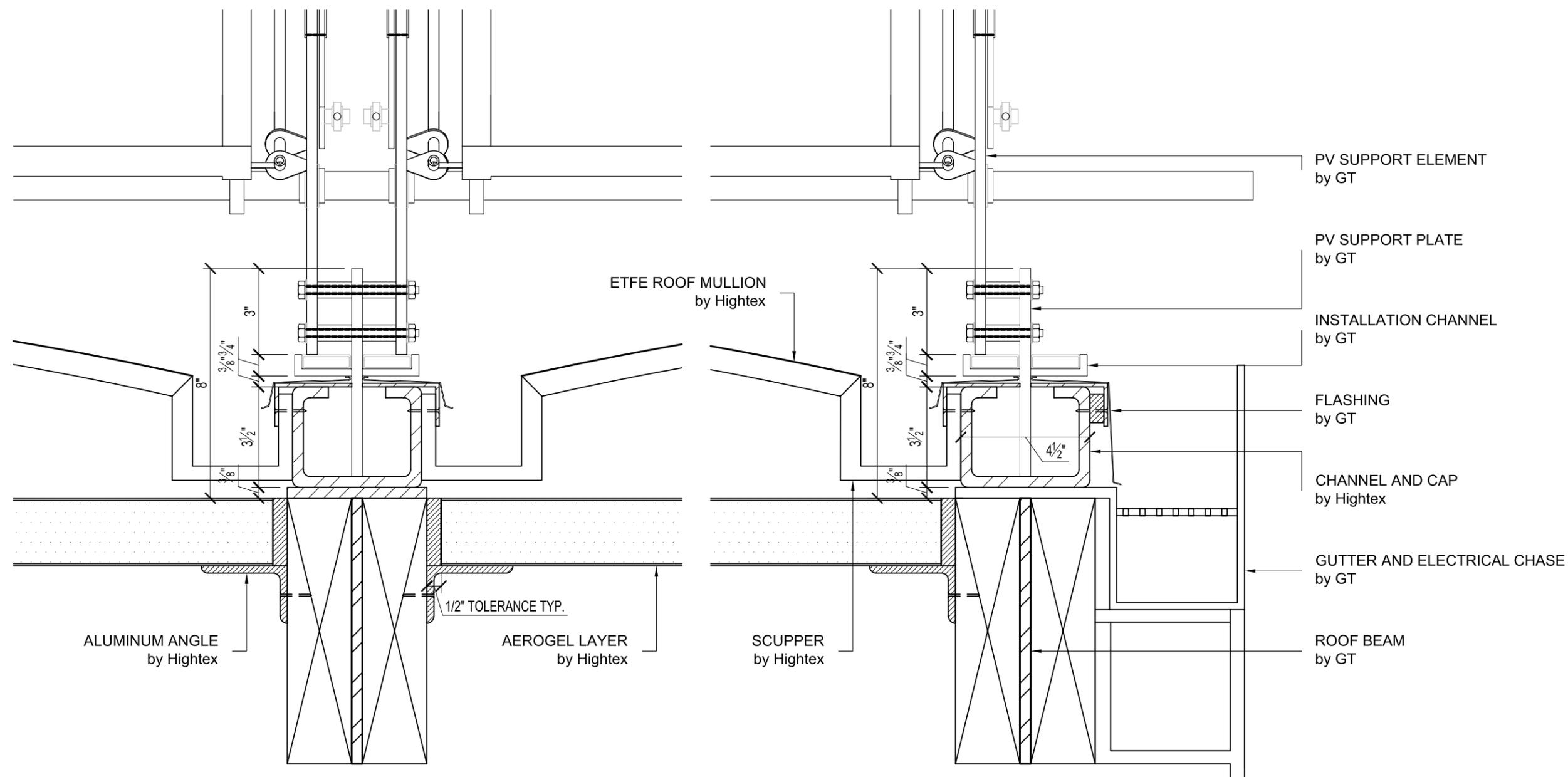
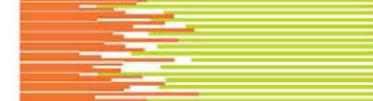
prepared by:
V. Deo
A. Jakubiec
date drawn:
06.02.07
06.06.07



scale: **1" : 2' 2"**

P.V. MOTION DETAILS

A.7.5



1 SECTION AT TYP. PV PLATE SUPPORTS
A.7.6

2 SECTION AT END PV PLATE SUPPORTS
A.7.6

date	description	revision

consultants:



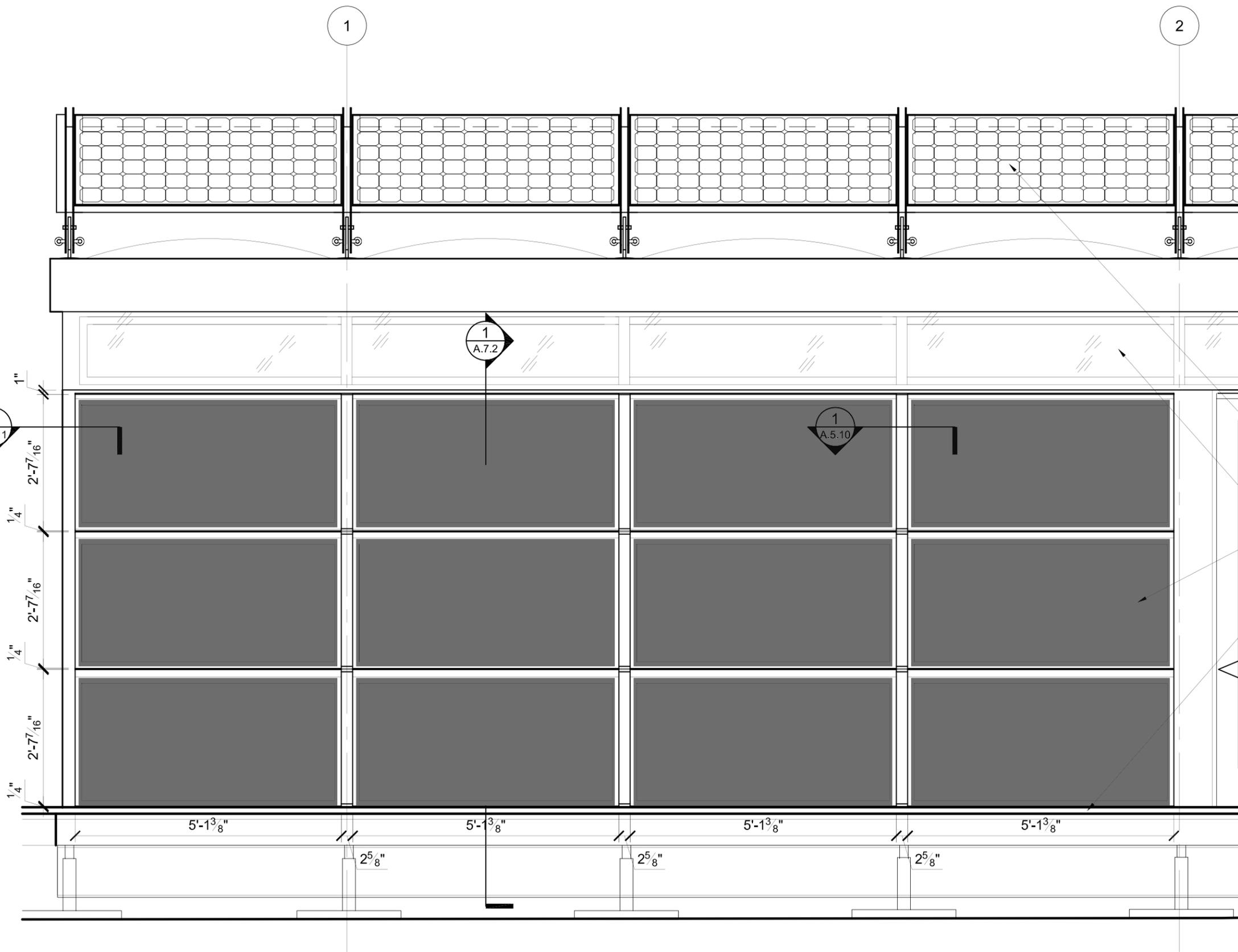
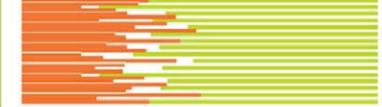
prepared by:
A. Jakubiec
V. Deo
 date drawn:
06.06.07



scale: 3" = 1'

PV SUPPORT DETAILS

A.7.6



10'-6"
TOP OF STEEL

8'-0"
TOP OF SILL

SPR-220 PV MODULE
5'-1 3/8" x 2'-7 7/16"
CUSTOM RACKING SYSTEM
(TYP. OF 4)

CLERESTORY GLAZING

SPR-215-BLK PV MODULE
5'-1 3/8" x 2'-7 7/16"
SUNFRAME RACKING SYSTEM
(TYP. OF 12)

EXTERIOR WOOD DECK

0'-0"
FINISHED FLOOR

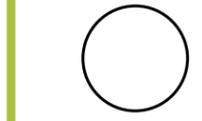
-2'-6"
GRADE

date	description	revision

consultants:



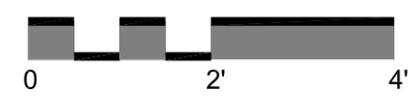
prepared by:
Tony Piede
Joe Jamgochian
date drawn:
03.06.07
12.06.06

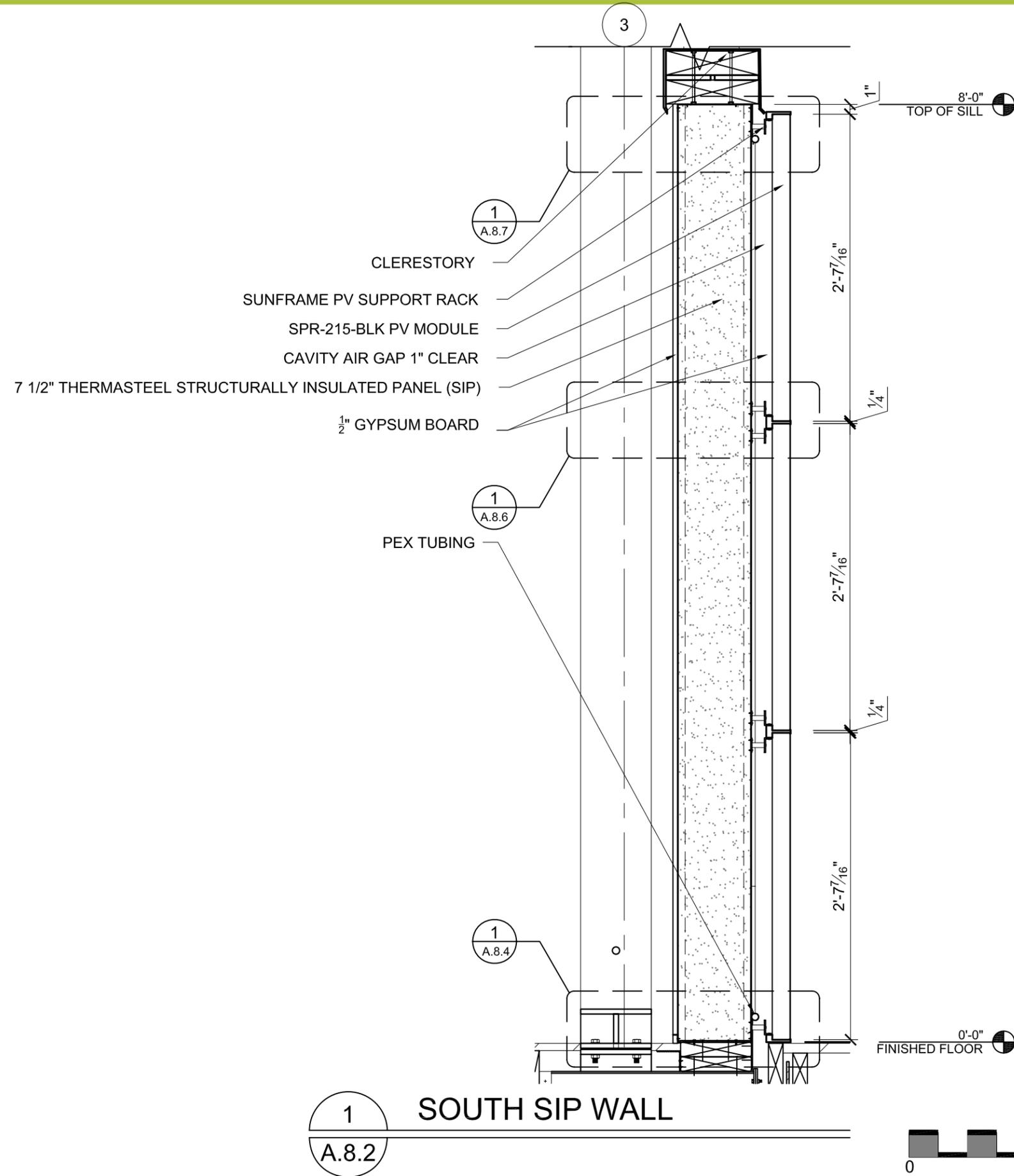


scale: 1/2" : 1' 0"

SOUTH ELEVATION - PV PANEL

1 SOUTH ELEVATION - PV PANEL
A.8.0





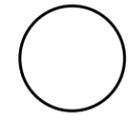
revision	description	date

consultants:



prepared by:
Tony Piede
Joe Jamgochian

date drawn:
03.06.07
12.05.06

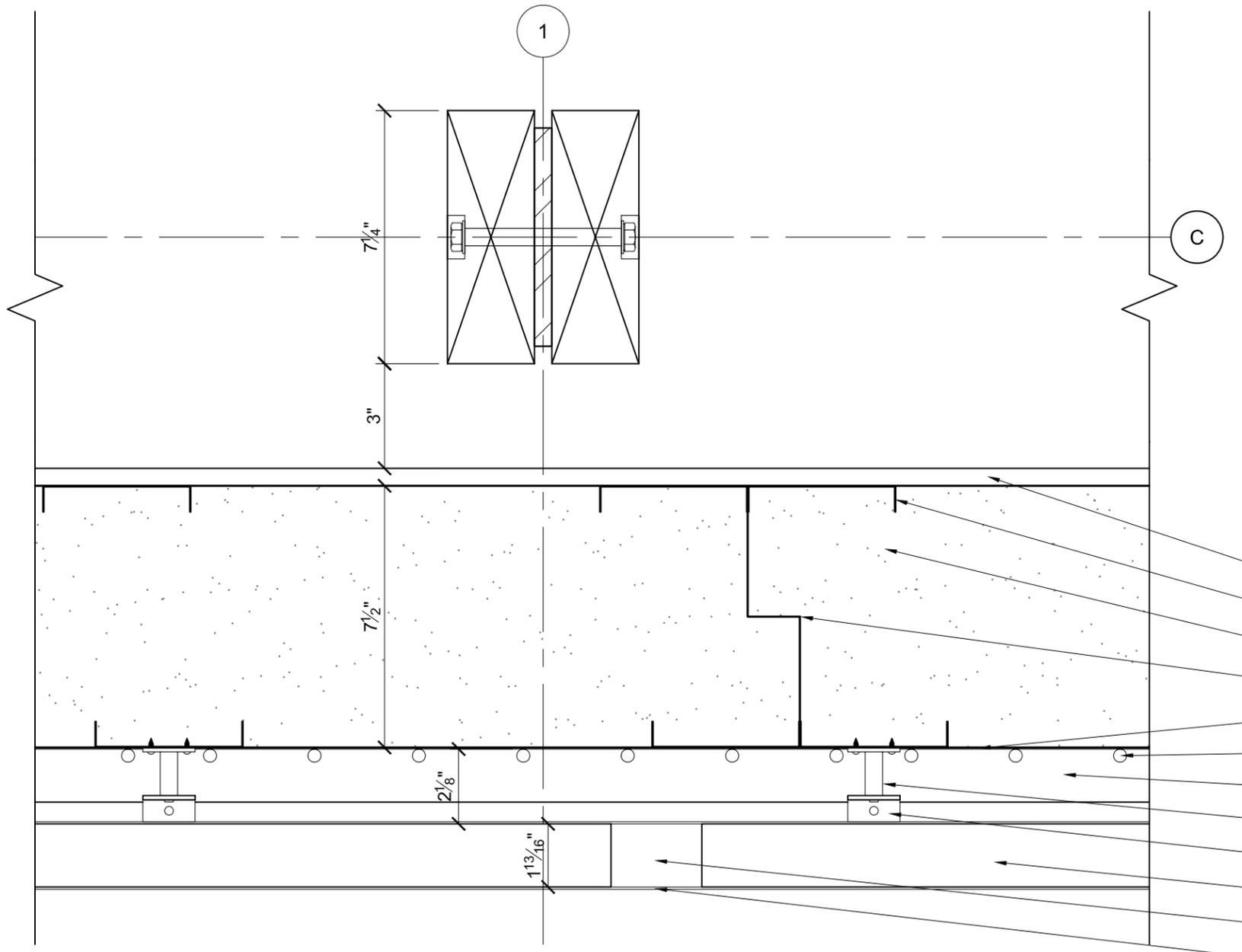


scale: **1" : 1' 0"**

A.8.2

WALL SECTION - SOUTH SIP WALL





- 1/2" GYPSUM WALL BOARD
- 3/4" x 3 1/2" x 3/4" THERMASTEEL 20 GA. METAL 'C' STUD
- THERMASTEEL EXPANDED POLYSTYRENE INSULATION
- THERMASTEEL SHIPLAP JOINT
- .045" EPDM WATER BARRIER
- 3/8" PEX TUBING (SHW)
- CAVITY AIR GAP 1" CLEAR
- 1 1/2" ALUMINUM SUNFRAME STANDOFF
- 3/4" x 3/4" x 1 1/2" ALUMINUM SUNFRAME 'L' BRACKET
- SPR-215-BLK PV MODULE
- 1 3/4" ALUMINUM SUNFRAME HORIZONTAL SUPPORT RAIL
- SUNFRAME CAP STRIP

revision	description	date

consultants:



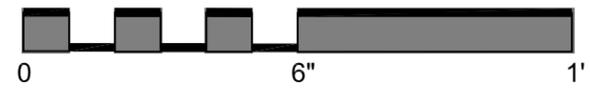
prepared by:
Tony Piede
Joe Jamgochian

date drawn:
03.06.07
12.05.06



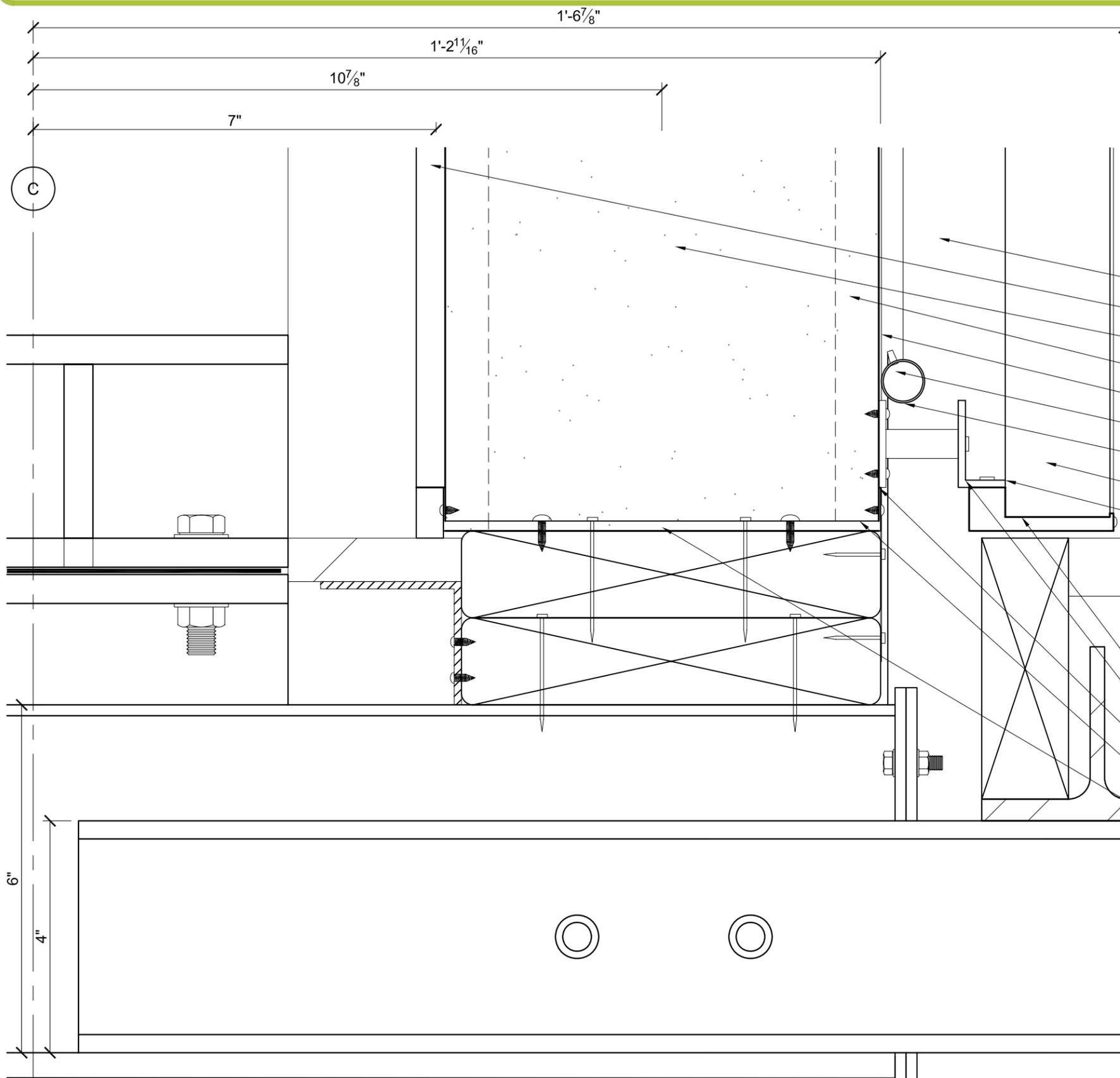
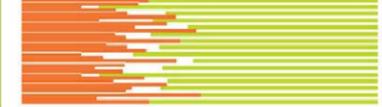
scale: **3" : 1' 0"**

1 PV CONNECTION PLAN
A.8.3



SIP WALL DETAILS HORIZONTAL

A.8.3



- CAVITY AIR GAP 1" CLEAR
- 1/2" GYPSUM WALL BOARD
- THERMASTEEL EXPANDED POLYSTYRENE INSULATION
- 3/4" x 3 1/2" x 3/4" THERMASTEEL 20 GA. METAL 'C' STUD
- .178" BLUE STRUCTURAL THERMO-PLY SHEATHING
- 3/8" PEX TUBING (SHW)
- PEX TUBING HEADER INLET (SHW)
- SPR-215-BLK PV MODULE
- SUNFRAME CAP STRIP

0'-0"
FINISHED FLOOR

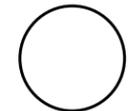
- 1 3/4" ALUMINUM SUNFRAME HORIZONTAL SUPPORT RAIL
- 3/4" x 3/4" x 1 1/2" ALUMINUM SUNFRAME 'L' BRACKET
- 1 1/2" ALUMINUM SUNFRAME STANDOFF
- 3" x 5" THERMASTEEL 20 GA. METAL ATTACHMENT PLATE
- 3/4" x 7 1/2" x 3/4" THERMASTEEL 20 GA. METAL 'C' TRACK

revision	description	date

consultants:



prepared by:
Tony Piede
Joe Jangochian
 date drawn:
03.06.07
12.05.06



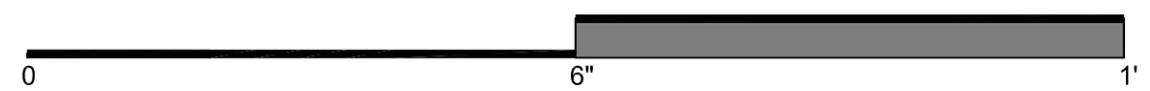
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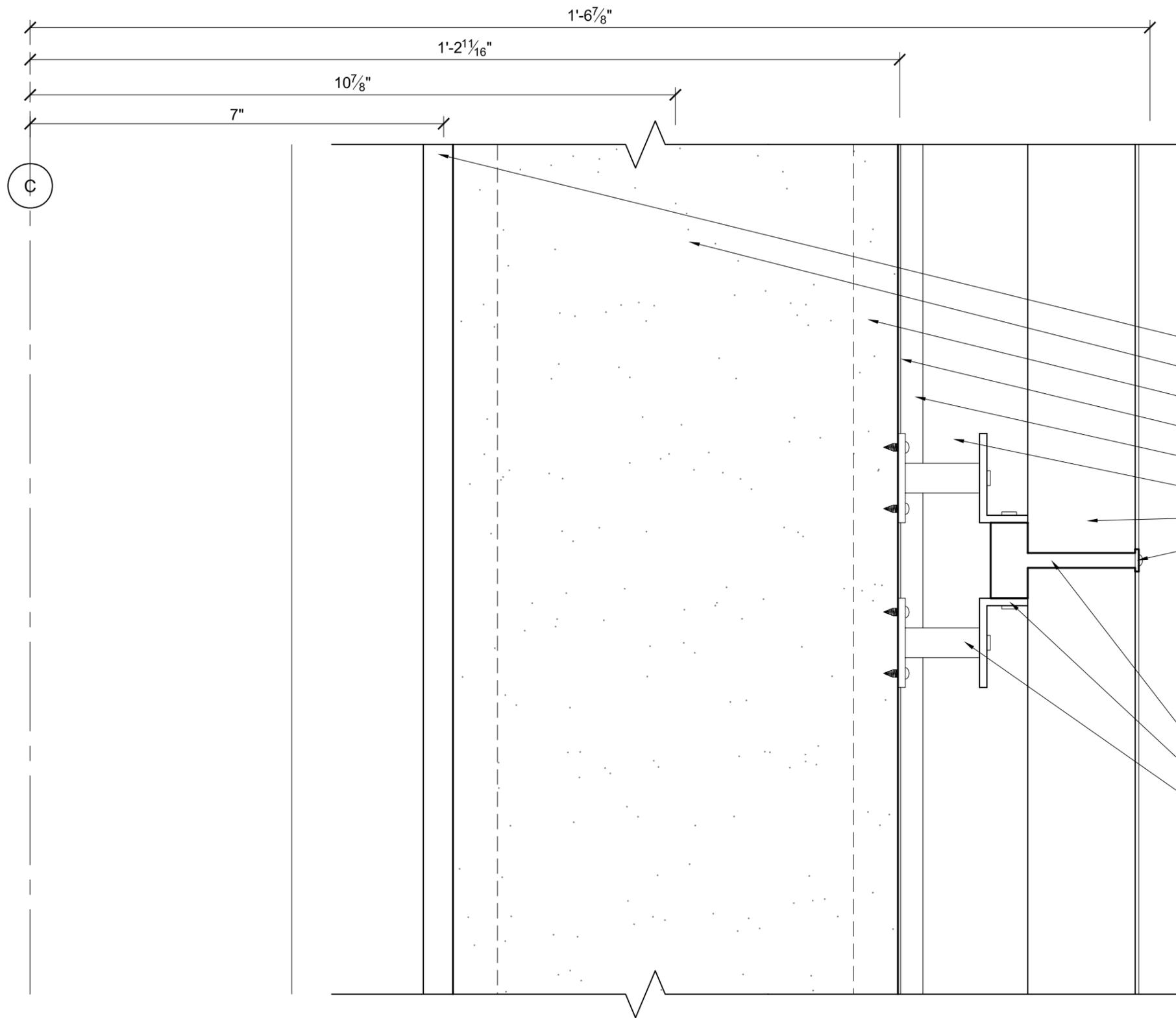
A.8.4

PV CONNECTION DETAILS VERTICAL

1 PV CONNECTION AT FLOOR

A.8.4





- 1/2" GYPSUM WALL BOARD
- THERMASTEEL EXPANDED POLYSTYRENE INSULATION
- 3/4" x 3 1/2" x 3/4" THERMASTEEL 20 GA. METAL 'C' STUD
- .1/8" STRUCTURAL BLUE THERMO-PLY WATER BARRIER
- 3/8" PEX TUBING (SHW)
- CAVITY AIR GAP 1" CLEAR
- SPR-215-BLK PV MODULE
- SUNFRAME CAP STRIP

- 1 3/4" ALUMINUM SUNFRAME HORIZONTAL SUPPORT RAIL
- 3/4" x 3/4" x 1 1/2" ALUMINUM SUNFRAME 'L' BRACKET
- 1 1/2" ALUMINUM SUNFRAME STANDOFF

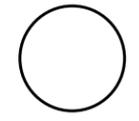
date	description	revision

consultants:



prepared by:
Tony Piede
Joe Jamgochian

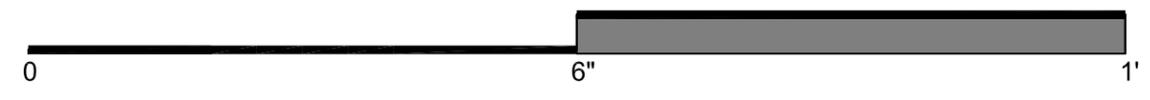
date drawn:
03.06.07
12.05.06



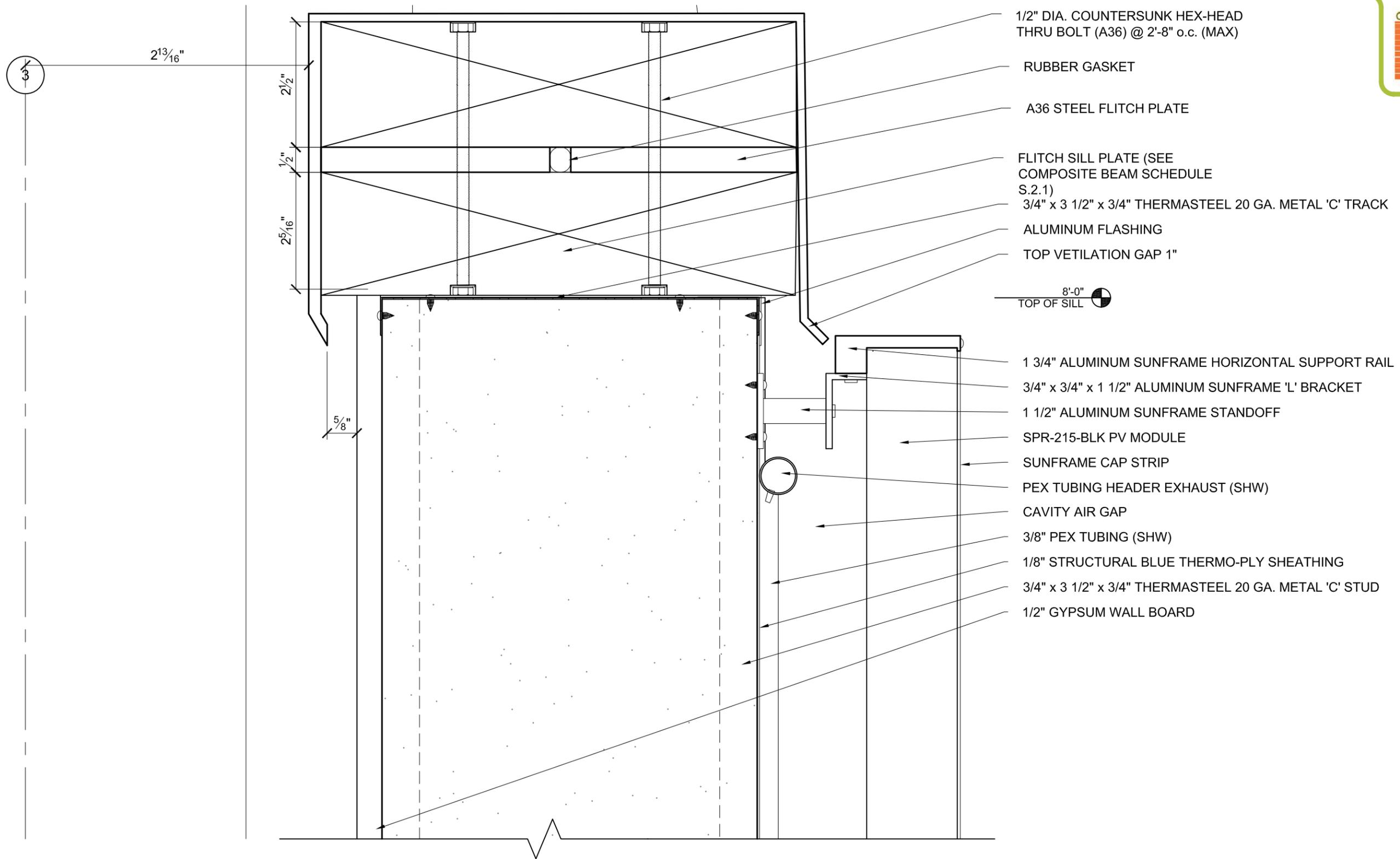
scale: **6" : 1' 0"**

PV CONNECTION DETAILS

1 PV CONNECTION AT PANELS
A.8.5



A.8.5



- 1/2" DIA. COUNTERSUNK HEX-HEAD THRU BOLT (A36) @ 2'-8" o.c. (MAX)
- RUBBER GASKET
- A36 STEEL FLITCH PLATE
- FLITCH SILL PLATE (SEE COMPOSITE BEAM SCHEDULE S.2.1)
- 3/4" x 3 1/2" x 3/4" THERMASTEEL 20 GA. METAL 'C' TRACK
- ALUMINUM FLASHING
- TOP VETILATION GAP 1"
- 8'-0" TOP OF SILL
- 1 3/4" ALUMINUM SUNFRAME HORIZONTAL SUPPORT RAIL
- 3/4" x 3/4" x 1 1/2" ALUMINUM SUNFRAME 'L' BRACKET
- 1 1/2" ALUMINUM SUNFRAME STANDOFF
- SPR-215-BLK PV MODULE
- SUNFRAME CAP STRIP
- PEX TUBING HEADER EXHAUST (SHW)
- CAVITY AIR GAP
- 3/8" PEX TUBING (SHW)
- 1/8" STRUCTURAL BLUE THERMO-PLY SHEATHING
- 3/4" x 3 1/2" x 3/4" THERMASTEEL 20 GA. METAL 'C' STUD
- 1/2" GYPSUM WALL BOARD

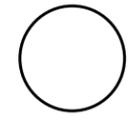
date	description	revision

consultants:



prepared by:
Tony Piede
Joe Jamgochian

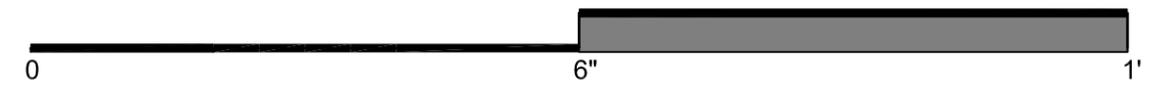
date drawn:
03.06.07
12.05.06



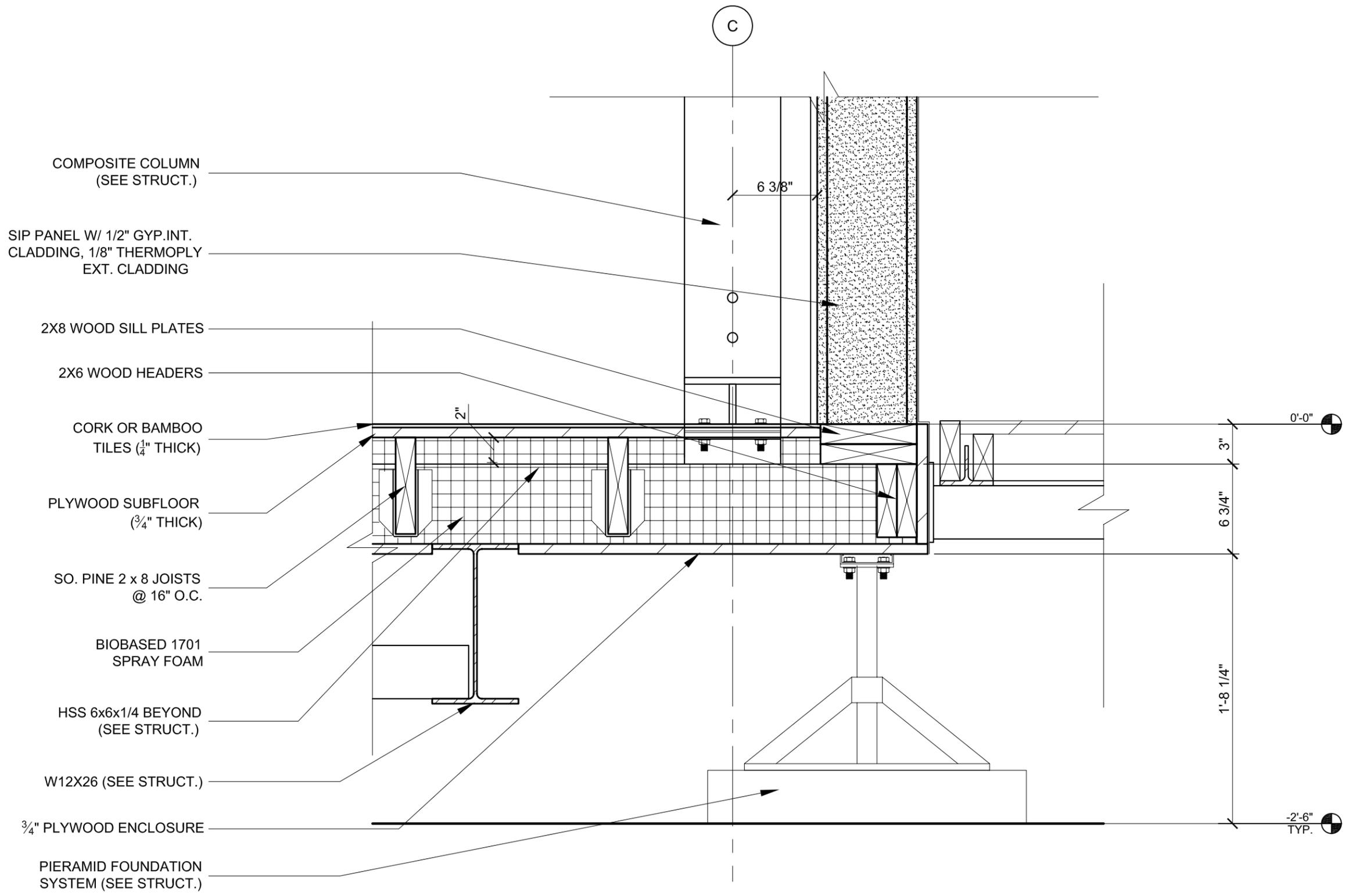
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PV CONNECTION DETAILS

1 PV CONNECTION AT SILL
A.8.6

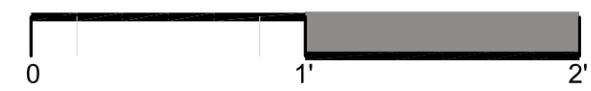


A.8.6



- COMPOSITE COLUMN
(SEE STRUCT.)
- SIP PANEL W/ 1/2" GYP.INT.
CLADDING, 1/8" THERMOPLY
EXT. CLADDING
- 2X8 WOOD SILL PLATES
- 2X6 WOOD HEADERS
- CORK OR BAMBOO
TILES (1/4" THICK)
- PLYWOOD SUBFLOOR
(3/4" THICK)
- SO. PINE 2 x 8 JOISTS
@ 16" O.C.
- BIOBASED 1701
SPRAY FOAM
- HSS 6x6x1/4 BEYOND
(SEE STRUCT.)
- W12X26 (SEE STRUCT.)
- 3/4" PLYWOOD ENCLOSURE
- PIERAMID FOUNDATION
SYSTEM (SEE STRUCT.)

1 FLOOR CONSTRUCTION @
A.9.0 SIP WALL SOUTH FACE



date	description	revision

consultants:

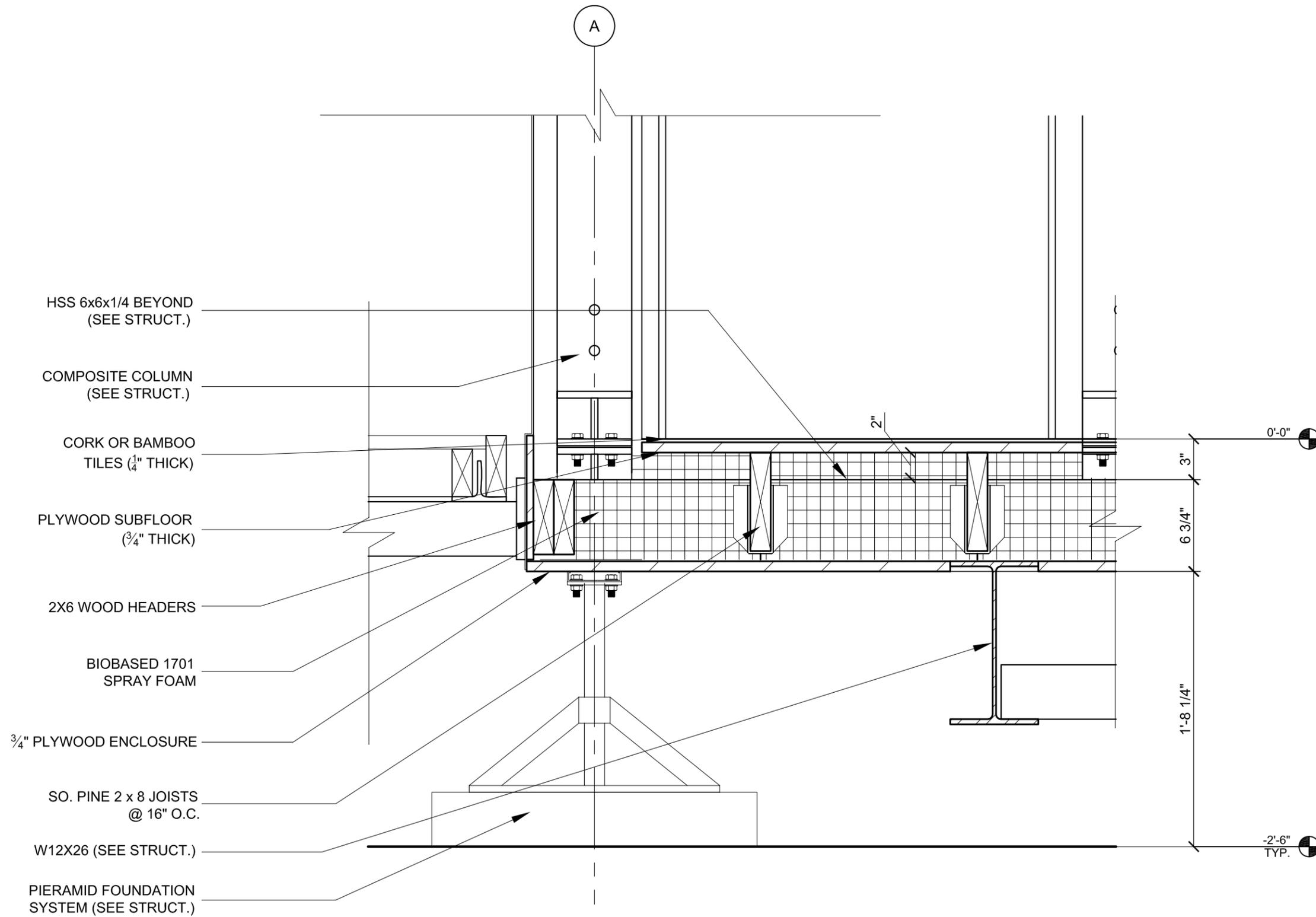


prepared by:
Jodi Bell-Quinn
C.VAN KLEY
 date drawn:
12.04.06
3.06.07

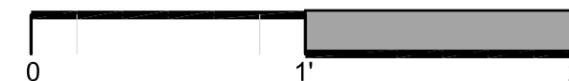
scale: 1-1/2" : 1' 0"

A.9.0

FLOOR CONSTRUCTION DETAILS (SOUTH WALL)



1 FLOOR CONSTRUCTION @
A.9.1 SIP WALL NORTH FACE



revision	description	date

consultants:

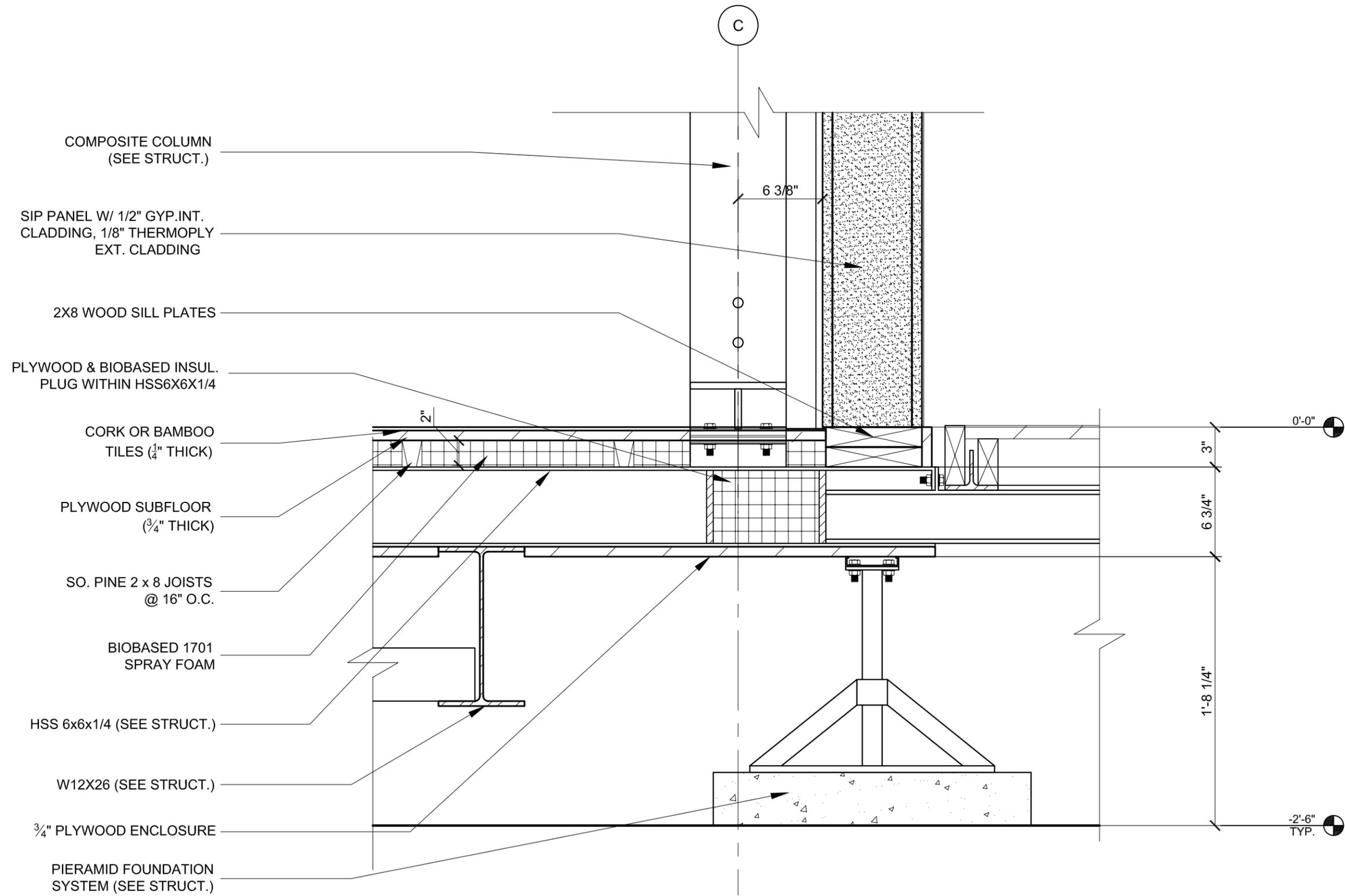


prepared by:
Jodi Bell-Quinn
C.VAN KLEY
 date drawn:
12.04.06
3.06.07

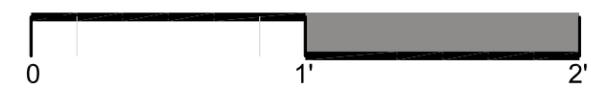
scale: 1-1/2" : 1' 0"

A.9.1

FLOOR CONSTRUCTION DETAILS (NORTH WALL)



1 FLOOR CONSTRUCTION @
A.9.2 SIP WALL SOUTH FACE



revision	description	date

consultants:

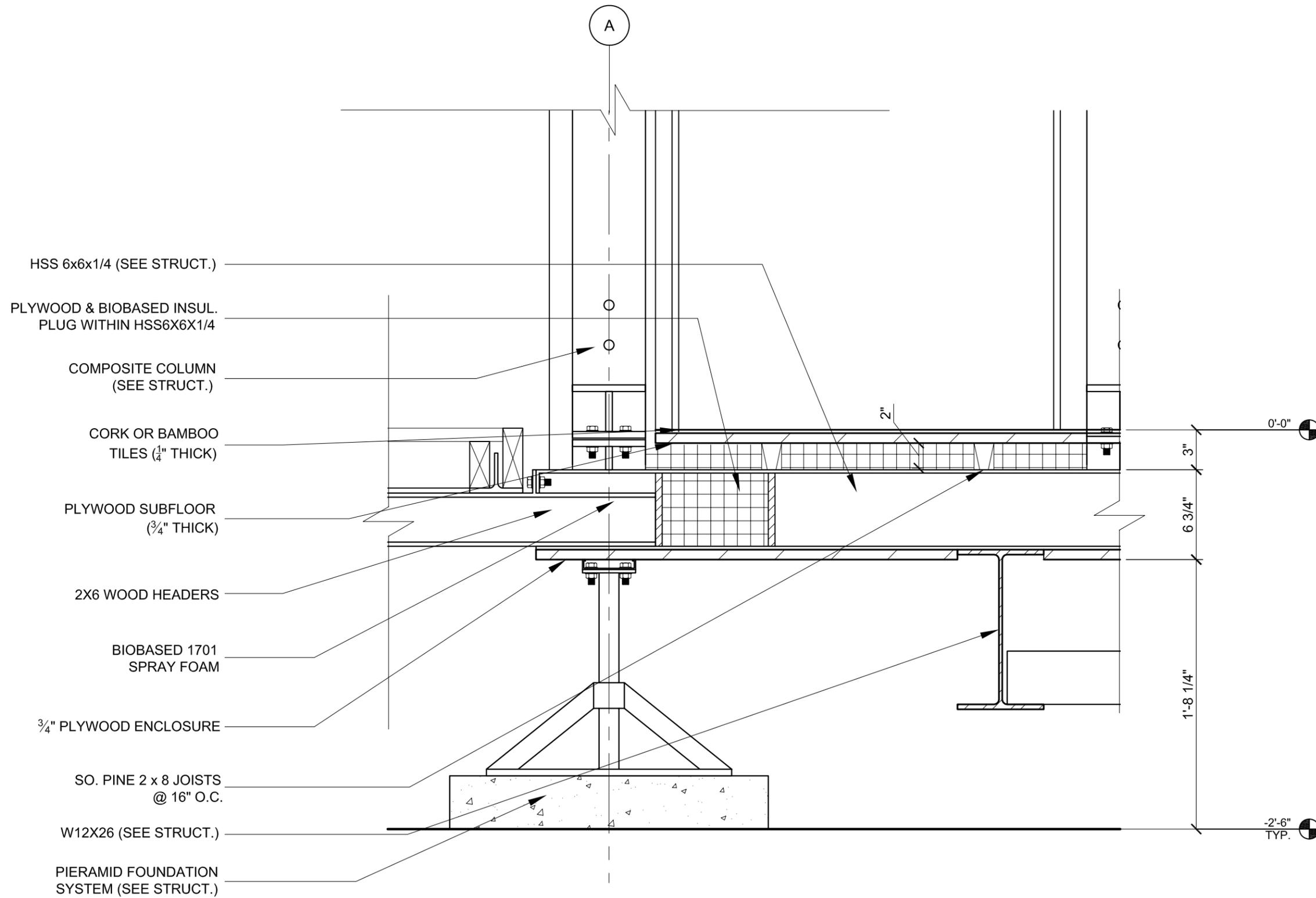


prepared by:
C.VAN KLEY
date drawn:
3.06.07

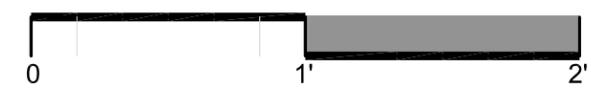
scale: 1-1/2" : 1' 0"

A.9.2

FLOOR CONSTRUCTION DETAILS (SOUTH WALL)



1 FLOOR CONSTRUCTION @
A.9.3 SIP WALL NORTH FACE



revision	description	date

consultants:

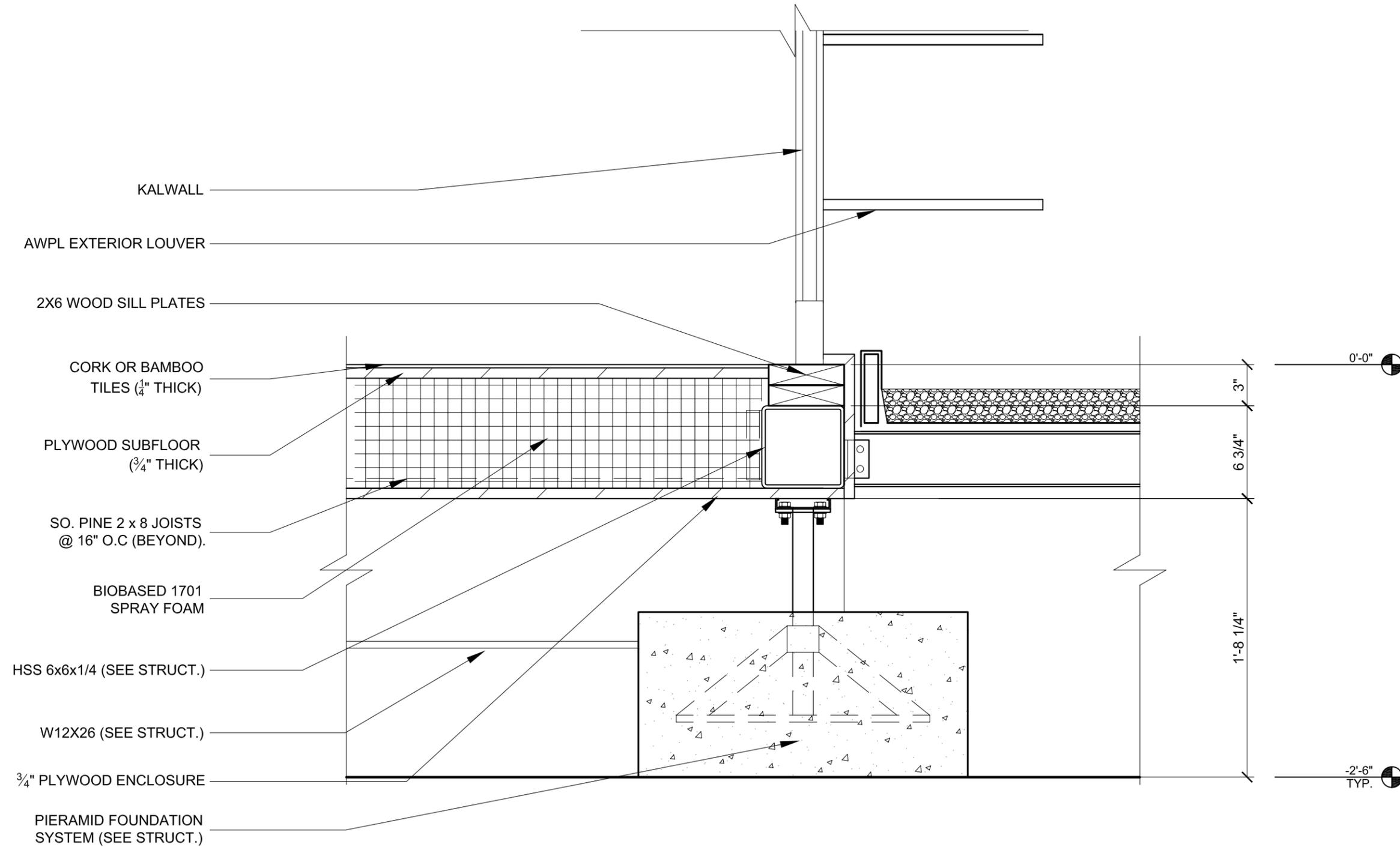


prepared by:
C.VAN KLEY
date drawn:
3.06.07

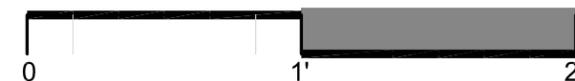
scale: 1-1/2" : 1' 0"

A.9.3

FLOOR CONSTRUCTION DETAILS (NORTH WALL)



1 FLOOR CONSTRUCTION @
A.9.4 KALWALL EAST FACE



revision	description	date

consultants:

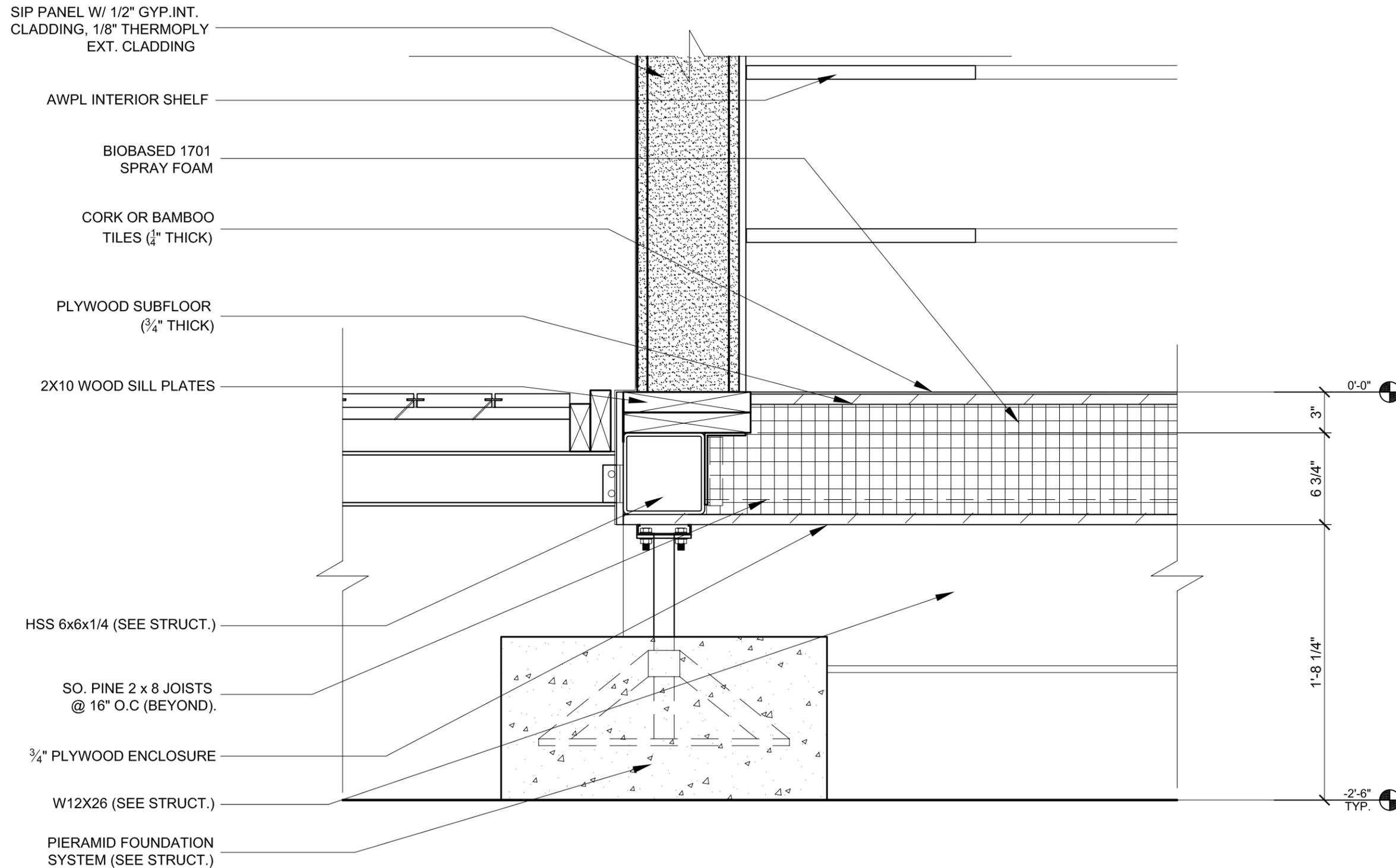


prepared by:
C.VAN KLEY
date drawn:
3.06.07

scale: 1-1/2" : 1' 0"

A.9.4

FLOOR CONSTRUCTION DETAILS (EAST WALL)



SIP PANEL W/ 1/2" GYP.INT.
CLADDING, 1/8" THERMOPLY
EXT. CLADDING

AWPL INTERIOR SHELF

BIOBASED 1701
SPRAY FOAM

CORK OR BAMBOO
TILES (1/4" THICK)

PLYWOOD SUBFLOOR
(3/4" THICK)

2X10 WOOD SILL PLATES

HSS 6x6x1/4 (SEE STRUCT.)

SO. PINE 2 x 8 JOISTS
@ 16" O.C (BEYOND).

3/4" PLYWOOD ENCLOSURE

W12X26 (SEE STRUCT.)

PIERAMID FOUNDATION
SYSTEM (SEE STRUCT.)

0'-0"

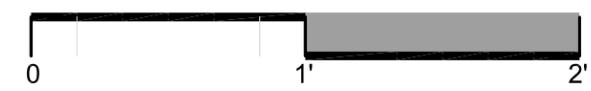
3"

6 3/4"

1'-8 1/4"

-2'-6"
TYP.

2 FLOOR CONSTRUCTION @
A.9.2 SIP WALL WEST FACE



revision	description	date

consultants:



prepared by:
C.VAN KLEY

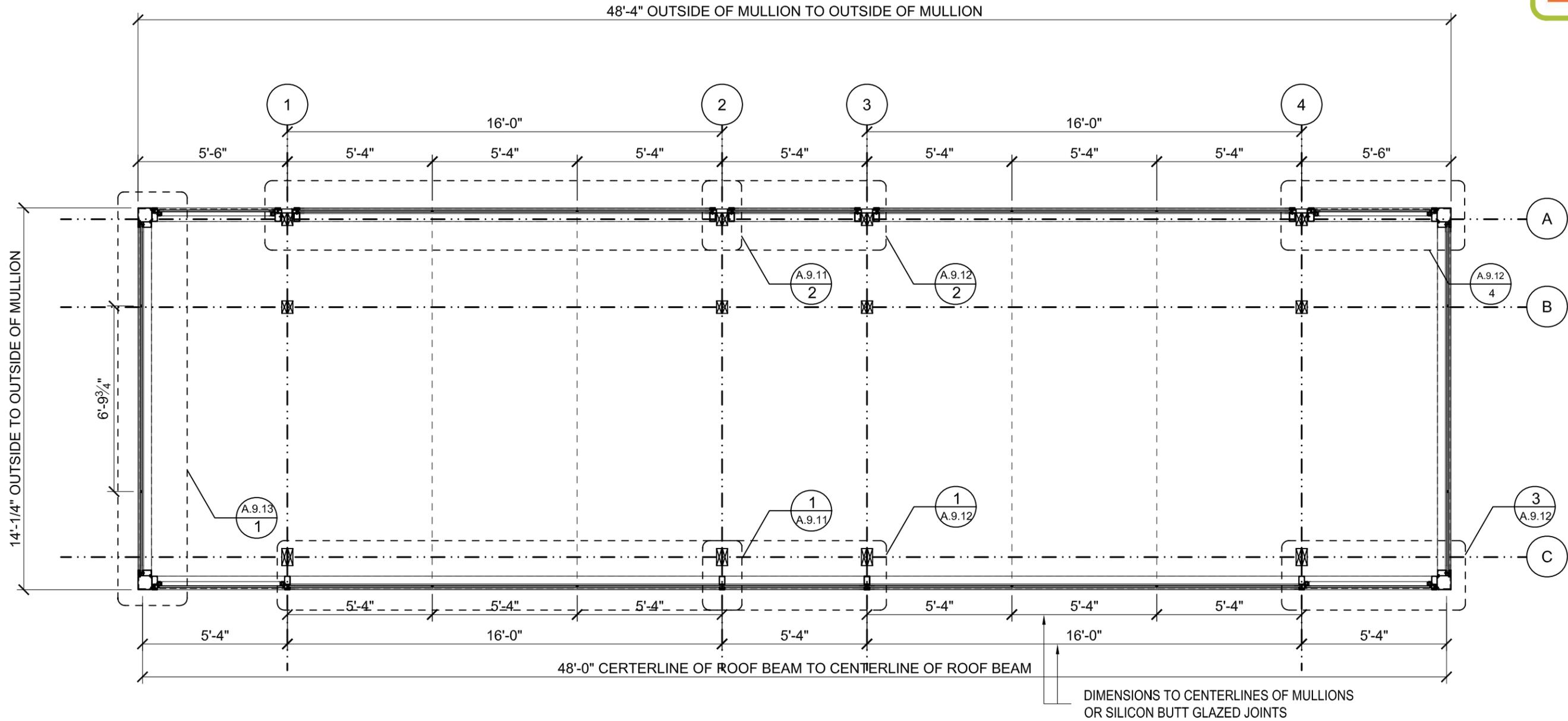
date drawn:
3.06.07



scale: 1-1/2" : 1' 0"

A.9.5

FLOOR CONSTRUCTION DETAILS (WEST WALL)



revision	description	date
A	drawing of wind girt based on current construction dimensions	05.16.07
B	detailed as per Kawneer contact with 1600 series 2 system	05.29.07
C	annotation changes as per June 21	06.21.07

consultants:



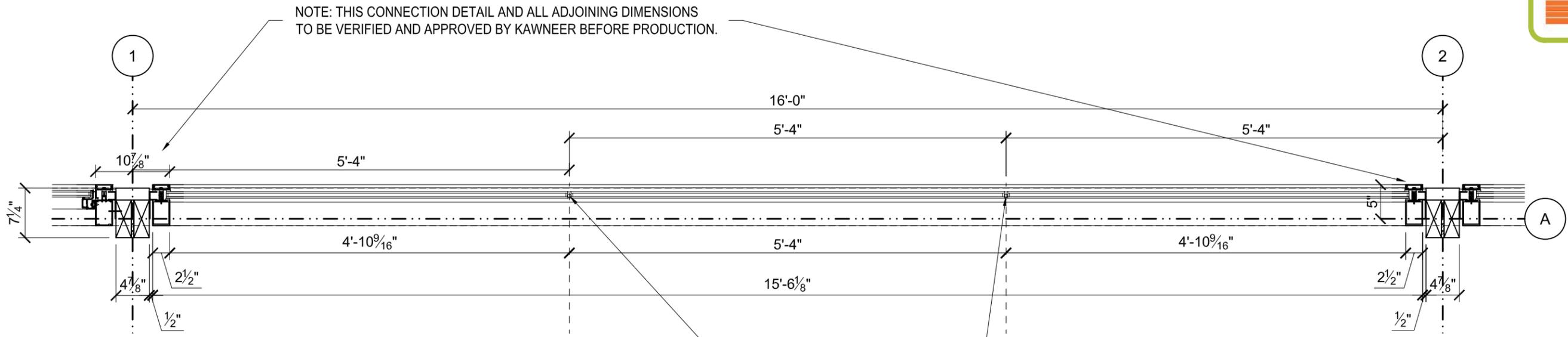
prepared by:
David Lott
Alstan Jakubiec
 date drawn:
05.16.07
03.29.07



scale: 1/4" = 1'-0"

CLERESTORY DETAILS

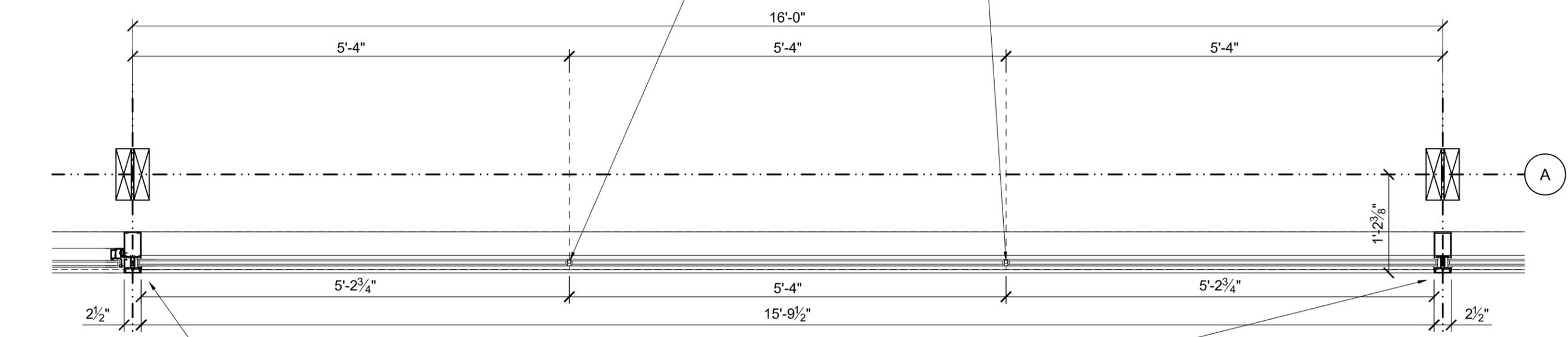
A.9.10



2 NORTHERN 3 BAY FIXED SPAN
A.9.11

SILICON BUTT GLAZED JOINTS

NOTE: ALL GLASS TO BE TEMPERED ARGON FILLED LOW-E COATED SOLARBAN 70XL STARPHIRE



1 SOUTHERN 3 BAY FIXED SPAN
A.9.11

NOTE: THIS CONNECTION DETAIL AND ALL ADJOINING DIMENSIONS TO BE VERIFIED AND APPROVED BY KAWNEER BEFORE PRODUCTION.

NOTE: ALL GLASS TO BE TEMPERED ARGON FILLED LOW-E COATED SOLARBAN 70XL STARPHIRE

date	description	revision
06.21.07	annotation changes as per June 21	A

consultants:



prepared by:
A. Jakubiec
date drawn:
05.29.07

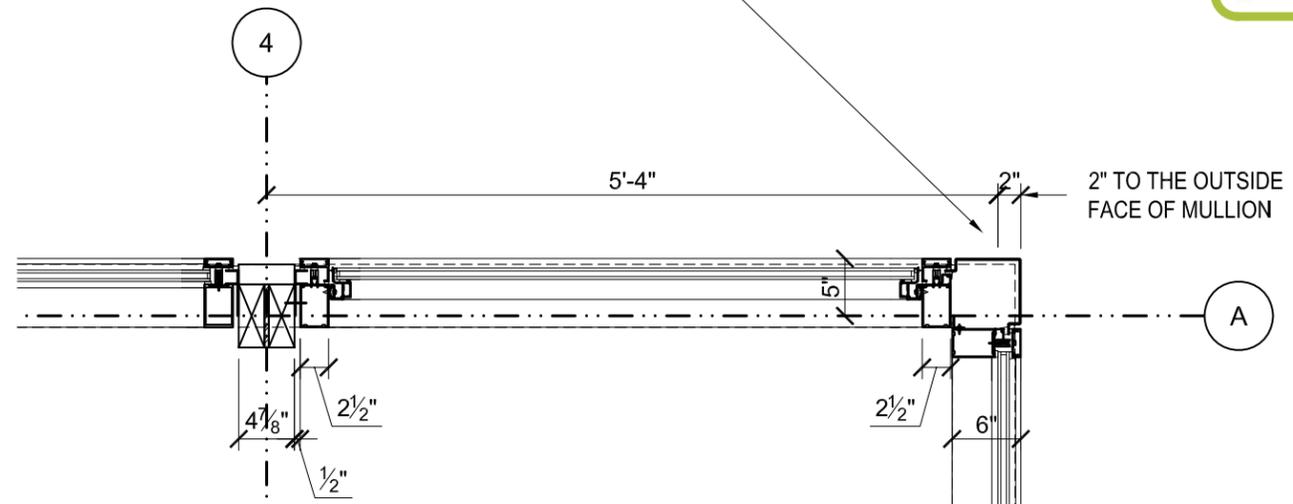
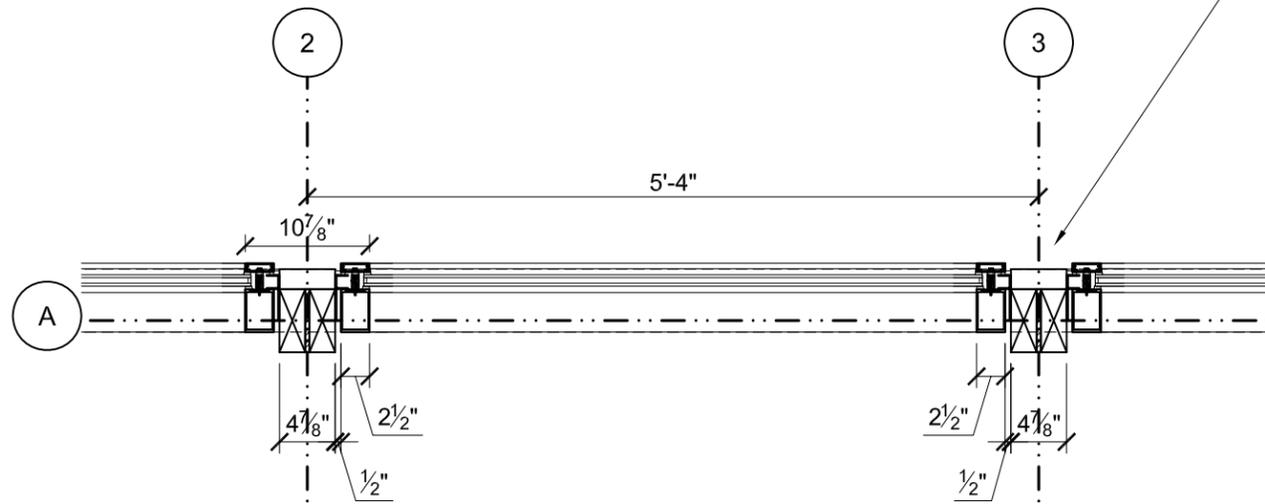


scale: 3/4" = 1'-0"

A.9.11

CLERESTORY DETAILS

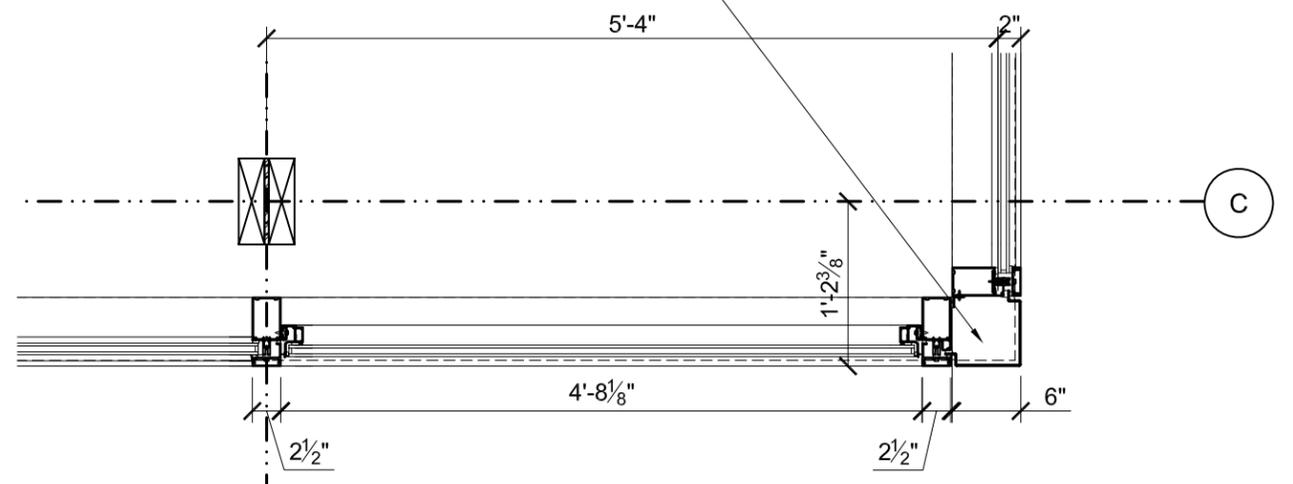
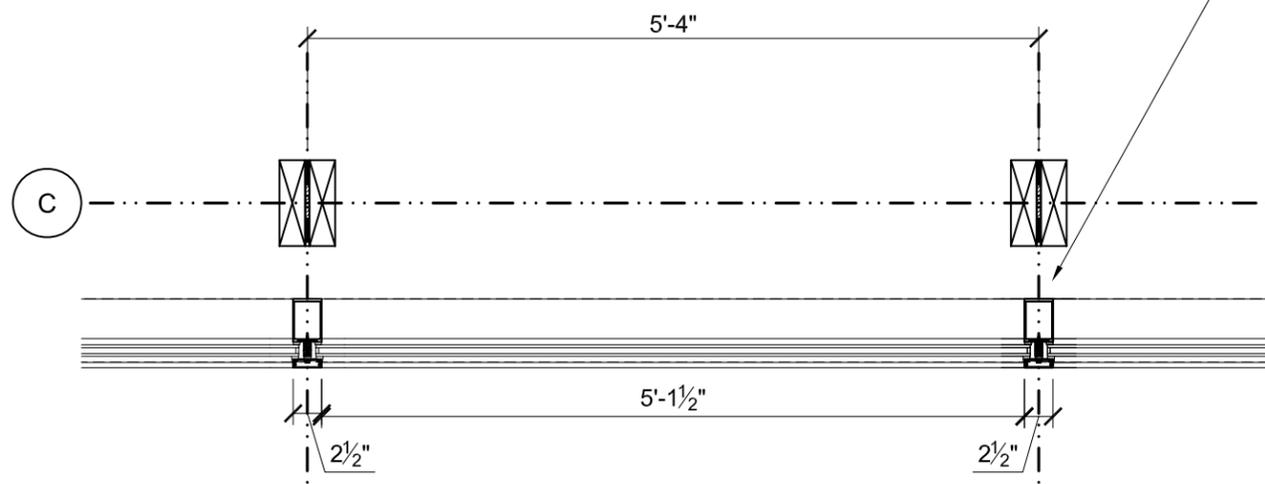
NOTE: THIS CONNECTION DETAIL AND ALL ADJOINING DIMENSIONS TO BE VERIFIED AND APPROVED BY KAWNEER BEFORE PRODUCTION.



2 NORTHERN CENTRAL BAY
A.9.12

4 NORTHERN OPERABLE CORNER BAY
A.9.12

NOTE: THIS CONNECTION DETAIL AND ALL ADJOINING DIMENSIONS TO BE VERIFIED AND APPROVED BY KAWNEER BEFORE PRODUCTION.



1 SOUTHERN CENTRAL BAY
A.9.12

3 SOUTHERN OPERABLE CORNER BAY
A.9.12

NOTE: ALL GLASS TO BE TEMPERED ARGON FILLED LOW-E COATED SOLARBAN 70XL STARPHIRE

revision	description	date
A	annotation changes as per June 21	06.21.07

consultants:



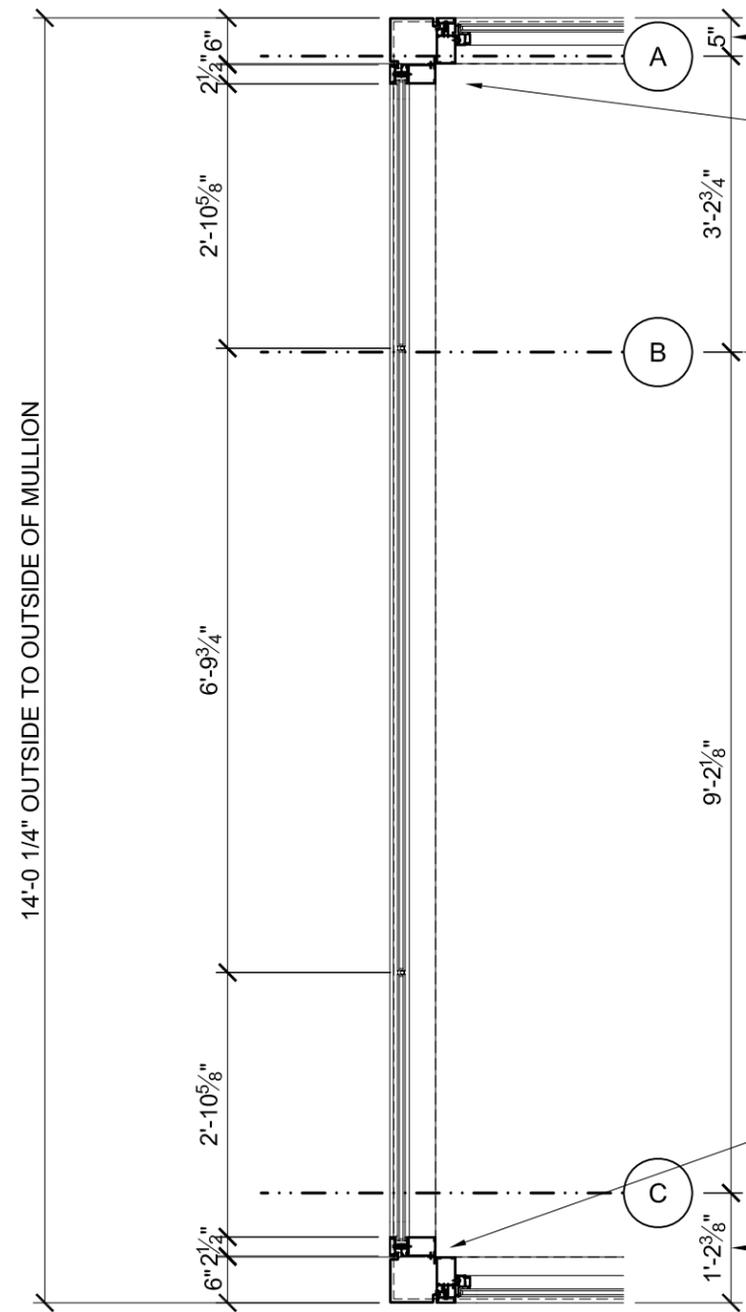
prepared by:
A. Jakubiec
date drawn:
05.29.07



scale: 3/4" = 1'-0"

A.9.12

CLERESTORY DETAILS



DIMENSION TO OUTSIDE OF MULLION

NOTE: THIS CONNECTION DETAIL AND ALL ADJOINING DIMENSIONS TO BE VERIFIED AND APPROVED BY KAWNEER BEFORE PRODUCTION.

NOTE: LOCATION OF COLUMN LINE B AND SILICON BUTT GLAZED JOINT IS NOT COINCIDENT

NOTE: THIS CONNECTION DETAIL AND ALL ADJOINING DIMENSIONS TO BE VERIFIED AND APPROVED BY KAWNEER BEFORE PRODUCTION.

DIMENSION TO OUTSIDE OF MULLION

1 WESTERN TYPICAL BAY
A.9.13 NOTE: ALL GLASS TO BE TEMPERED ARGON FILLED LOW-E COATED SOLARBAN 70XL STARPHIRE

revision	description	date
A	aligned silicon joints with eite mullion centerlines	06.01.07
B	annotation changes as per June 21	06.21.07

consultants:



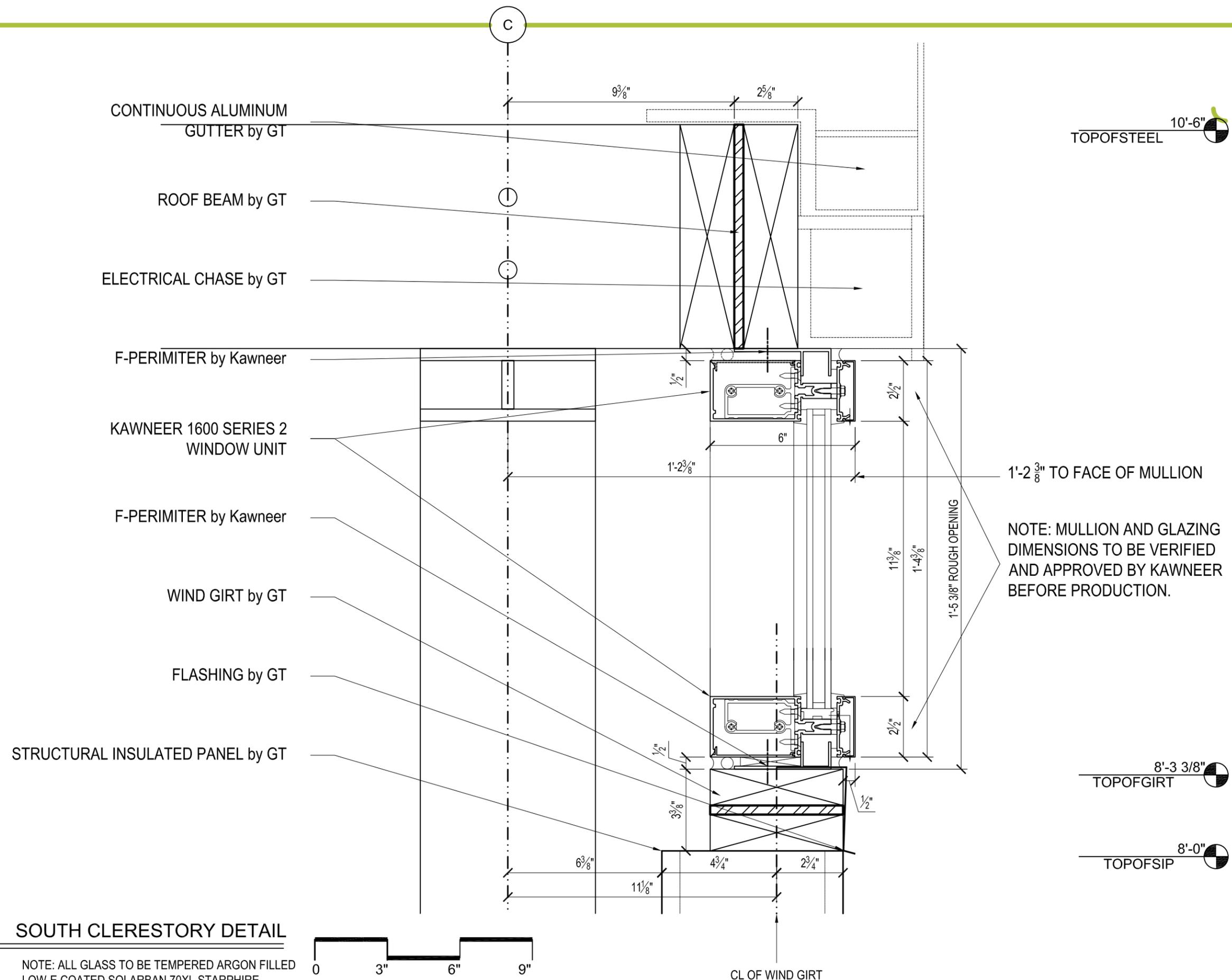
prepared by:
A. Jakubiec
 date drawn:
05.29.07



scale: 1/2" = 1'-0"

A.9.13

CLERESTORY DETAILS



TOPOFSTEEL 10'-6"

1'-2 3/8" TO FACE OF MULLION

NOTE: MULLION AND GLAZING DIMENSIONS TO BE VERIFIED AND APPROVED BY KAWNEER BEFORE PRODUCTION.

8'-3 3/8" TOPOFGIRT

8'-0" TOPOFSIP

1 SOUTH CLERESTORY DETAIL

A.9.14 NOTE: ALL GLASS TO BE TEMPERED ARGON FILLED LOW-E COATED SOLARBAN 70XL STARPHIRE



revision	description	date
A	Inserted F-Perimeter attachment system as per Kawneer email.	05.24.07
B	annotation changes as per June 21	06.21.07

consultants:



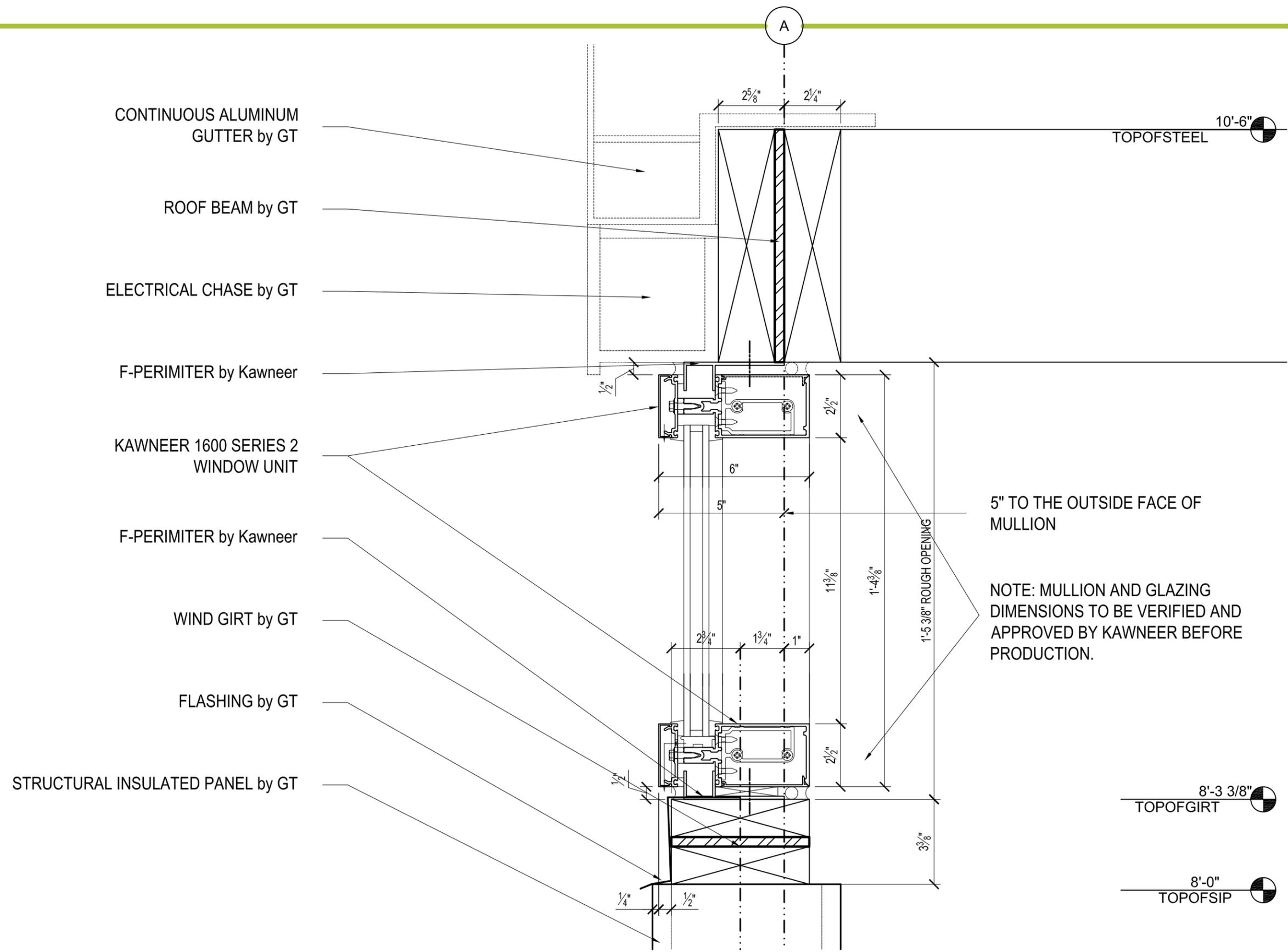
prepared by:
A. Jakubiec
date drawn:
05.24.07

scale: 3" = 1' 0"

A.9.14

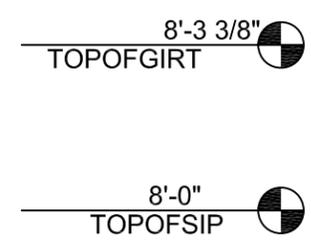
CLERESTORY CONSTRUCTION

SOUTH CLERESTORY DETAIL



5" TO THE OUTSIDE FACE OF MULLION

NOTE: MULLION AND GLAZING DIMENSIONS TO BE VERIFIED AND APPROVED BY KAWNEER BEFORE PRODUCTION.



1 NORTH CLERESTORY DETAIL
 A.9.15
 NOTE: ALL GLASS TO BE TEMPERED ARGON FILLED LOW-E COATED SOLARBAN 70XL STARPHIRE



revision	description	date
A	Inserted F-Perimeter attachment system as per Kawneer email.	05.29.07
B	annotation changes as per June 21	06.21.07

consultants:

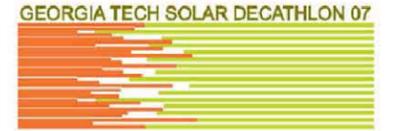
prepared by:
A. Jakubiec
 date drawn:
05.24.07



scale: **3" = 1' 0"**

NORTH CLERESTORY DETAIL

5'-4" TO COLUMN LINE 4



CONTINUOUS ALUMINUM GUTTER
AND ELECTRICAL CHASE by GT

ROOF BEAM by GT

WOOD BLOCKING by GT

F-PERIMETER by Kawneer

KAWNEER 1600 SERIES 2
WINDOW UNIT

F-PERIMETER by Kawneer

WIND GIRT by GT

FLASHING by GT

10'-6" TOPOFSTEEL

2" TO THE OUTSIDE OF MULLION

1'-5 3/8" ROUGH OPENING

NOTE: MULLION AND GLAZING
DIMENSIONS TO BE VERIFIED AND
APPROVED BY KAWNEER BEFORE
PRODUCTION.

8'-3 3/8" TOPOFGIRT

8'-0" TOPOFSIP

1
A.9.16

EAST AND WEST CLERESTORY DETAIL

NOTE: ALL GLASS TO BE TEMPERED ARGON FILLED
LOW-E COATED SOLARBAN 70XL STARPHIRE



CL OF WIND GIRT

revision	description	date
A	Inserted F-Perimeter attachment system as per Kawneer email.	05.29.07
B	changed wood blocking detail on east/west	06.04.07
C	annotation changes as per June 21	06.21.07

consultants:



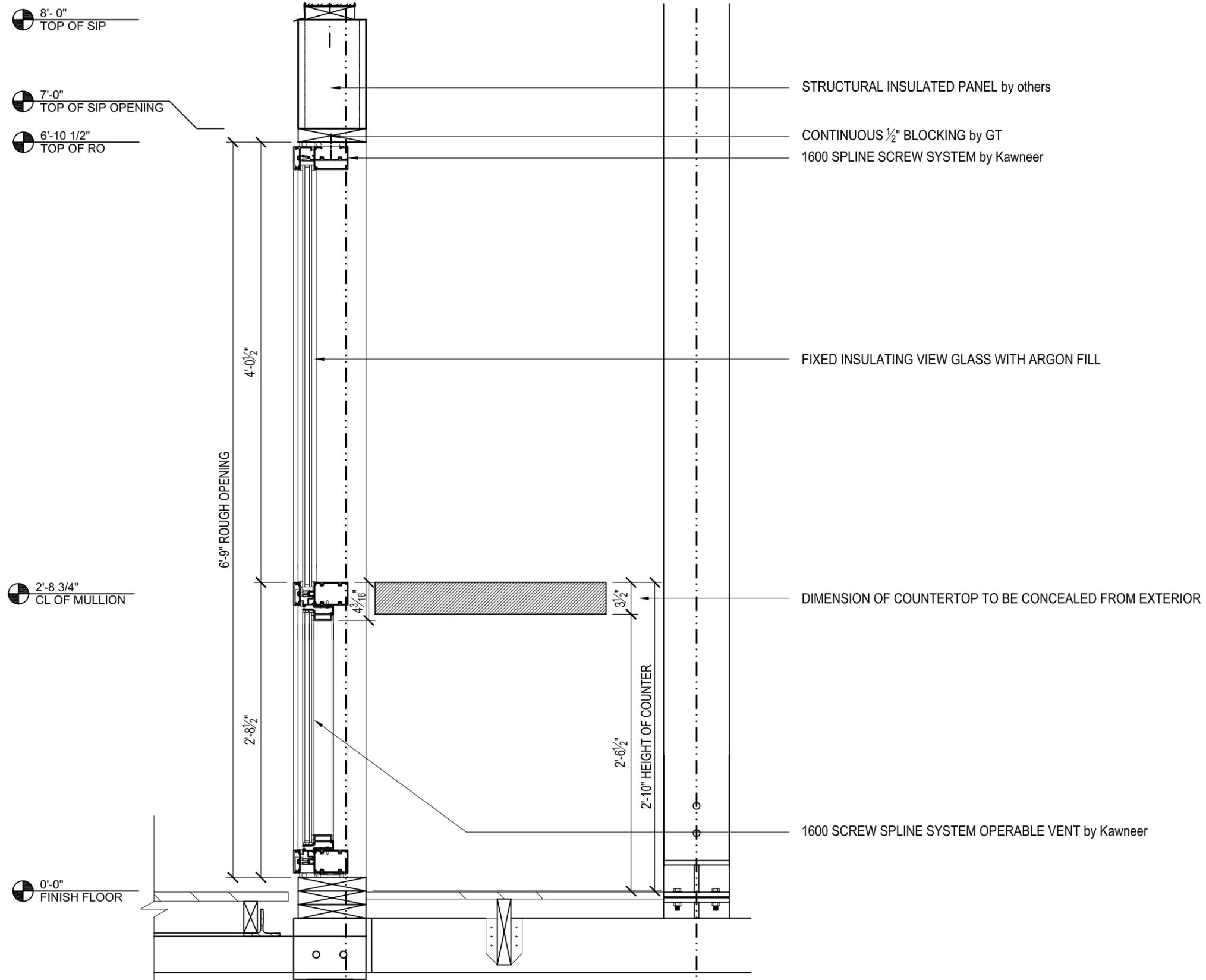
prepared by:
A. Jakubiec
date drawn:
05.24.07

scale: 3" = 1' 0"

A.9.16

CLERESTORY
CONSTRUCTION

EAST CLERESTORY DETAIL



revision	description	date

consultants:



prepared by:
A. Jakubiec

date drawn:
07.03.07

scale: 1" = 1' 0"

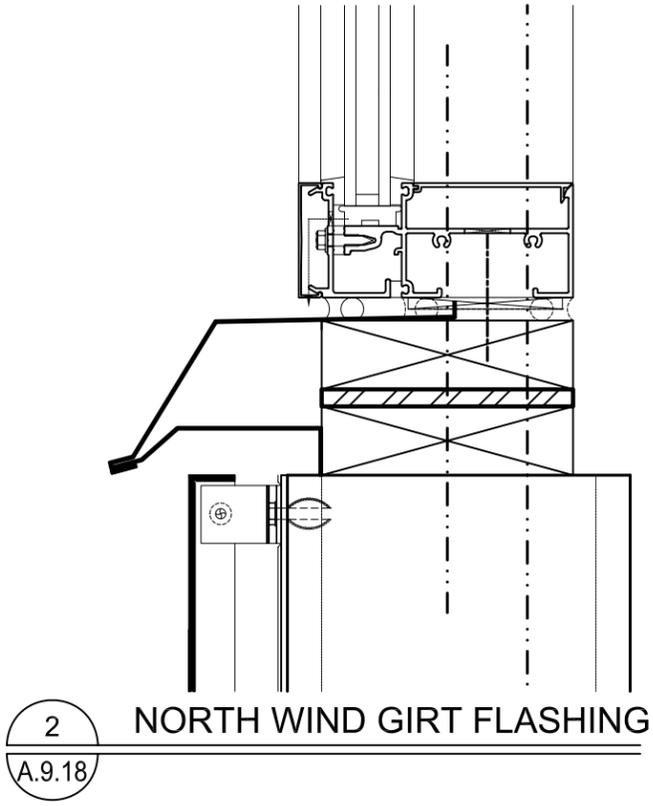
A.9.17

CLERESTORY
CONSTRUCTION

KITCHEN AND BATHROOM WINDOW DETAILS

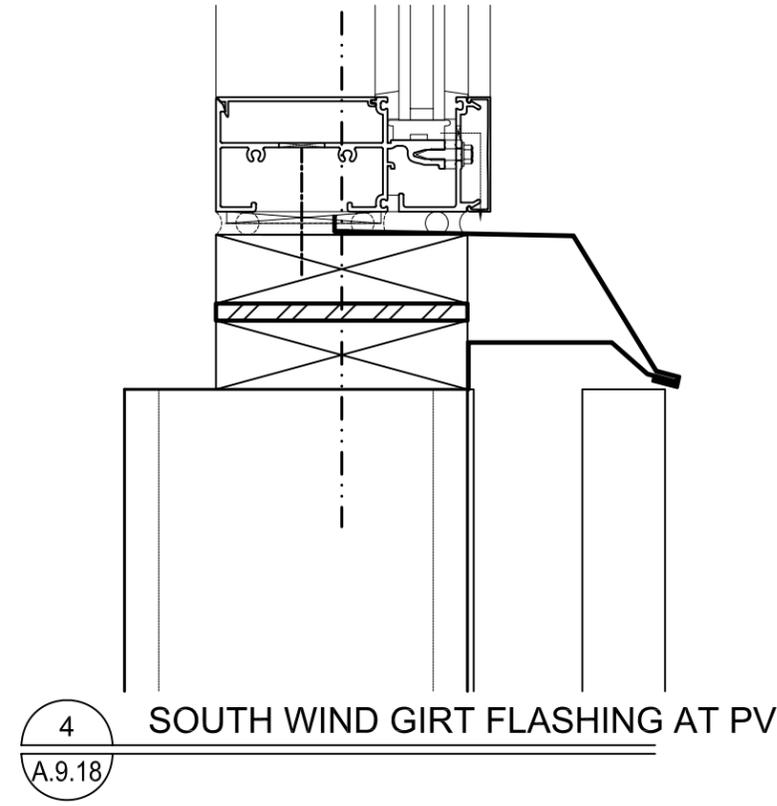
1 KITCHEN AND BATHROOM WINDOW DETAIL

A.9.17 NOTE: ALL GLASS TO BE TEMPERED ARGON FILLED LOW-E COATED SOLARBAN 70XL STARPHIRE



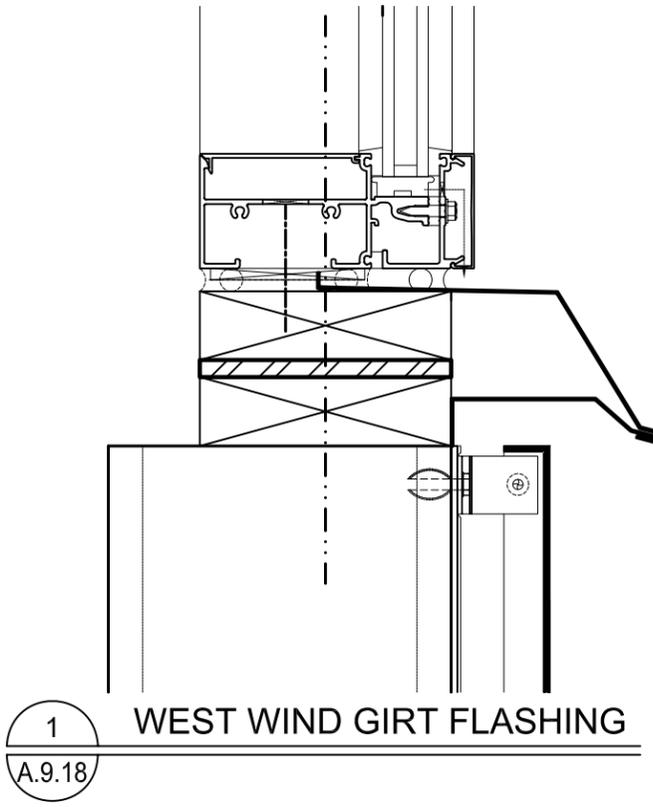
2 NORTH WIND GIRT FLASHING

A.9.18



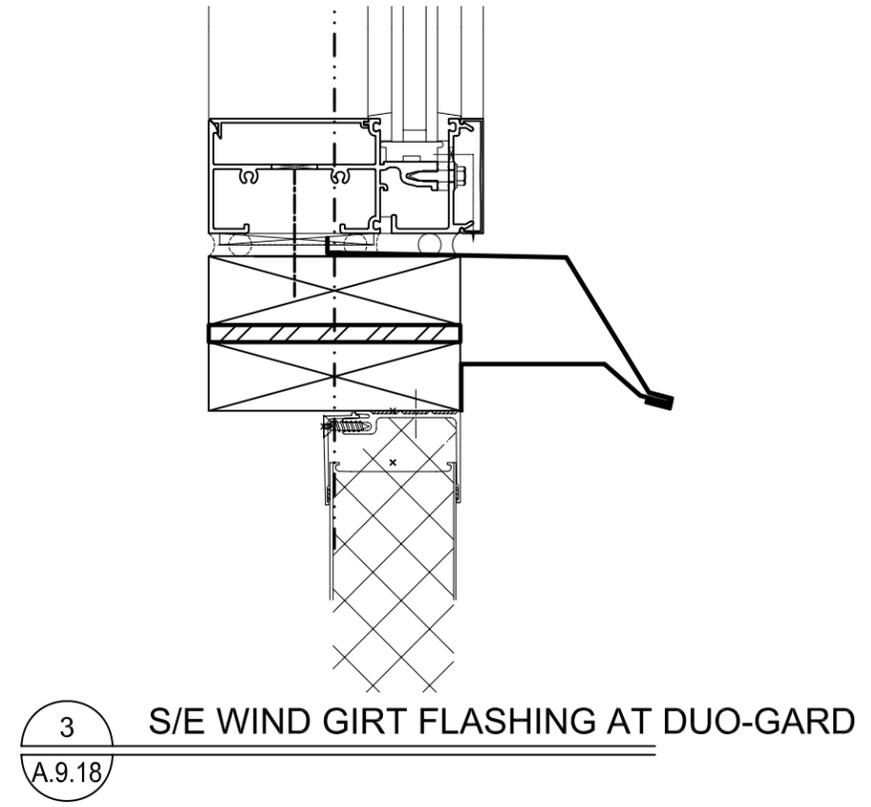
4 SOUTH WIND GIRT FLASHING AT PV

A.9.18



1 WEST WIND GIRT FLASHING

A.9.18



3 S/E WIND GIRT FLASHING AT DUO-GARD

A.9.18

revision	description	date
A	revised for 1/16" upturn under kawneer mullion	7.26.07

consultants:

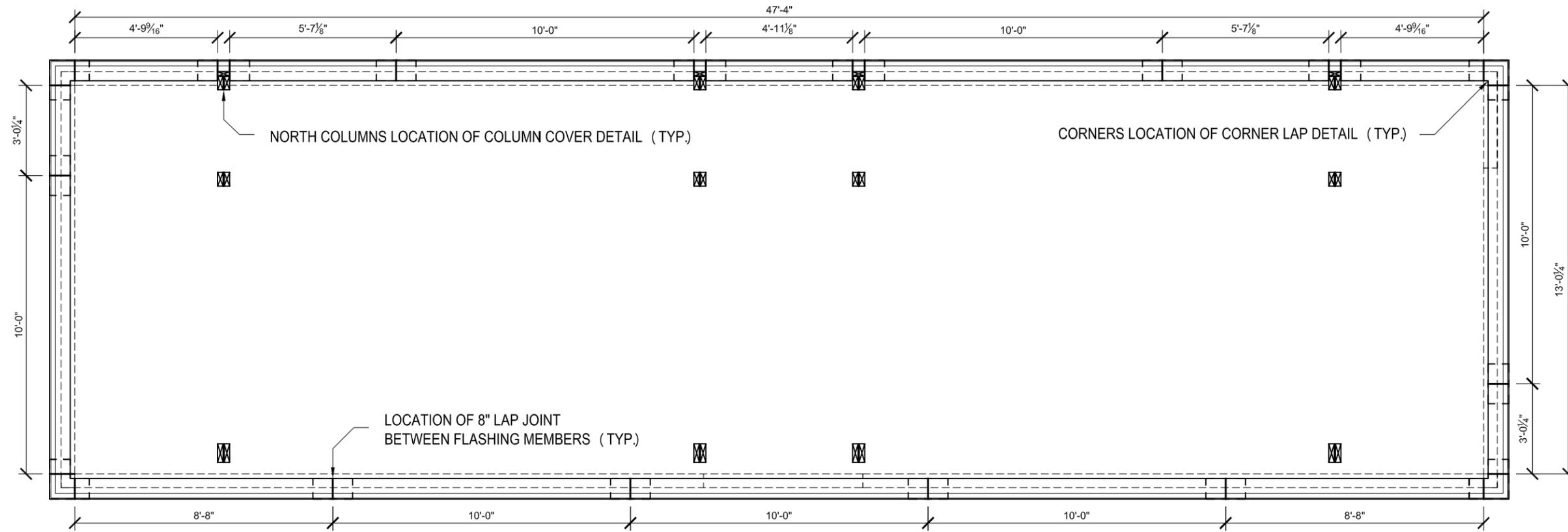


prepared by:
A. Jakubiec
date drawn:
07.24.07

scale: **3" = 1' 0"**

A.9.18

WIND GIRT FLASHING DETAILS



1 WIND GIRT FLASHING PLAN

A.9.19

NOTE:
.040" ANNOIDIZED ALUMINUM TO BE
USED FOR ALL FLASHING

PIECES REQUIRED (TOP AND BOTTOM PROFILES)

- | | |
|---------------------------|-------------------------|
| STANDARD PROFILES: | COVER PROFILES: |
| 10': 7 PIECES | 8" LAP: 8 PIECES |
| 4'-9 9/16": 2 PIECES | COLUMN COVERS: 4 PIECES |
| 5'-7 7/8": 2 PIECES | CORNER LAP: 4 PIECES |
| 4'-11 1/8": 1 PIECE | |
| 3'-0 1/4": 2 PIECES | |
| 8'-8": 2 PIECES | |

date	description	revision

consultants:



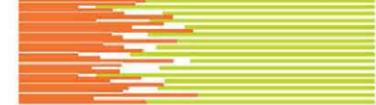
prepared by:
Alstan Jakubiec
date drawn:
07.24.07



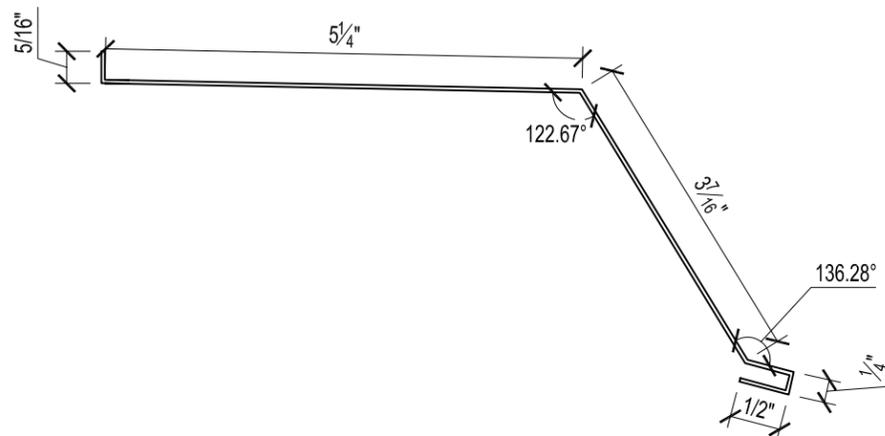
scale: 1/4" = 1'-0"

A.9.19

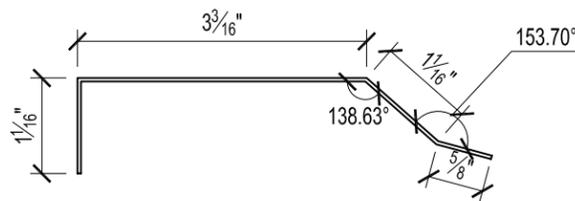
WIND GIRT FLASHING PLAN



1 FLASHING TYPE A: UPPER SECTION
A.9.20



2 FLASHING TYPE B: LOWER SECTION
A.9.20



NOTE:
.040" ANNOIDIZED ALUMINUM TO BE USED FOR ALL FLASHING
BEND ANGLES ARE APPROXIMATE

revision	description	date
A	revised for 1/16" upturn under kawneer mullion	7.26.07

consultants:

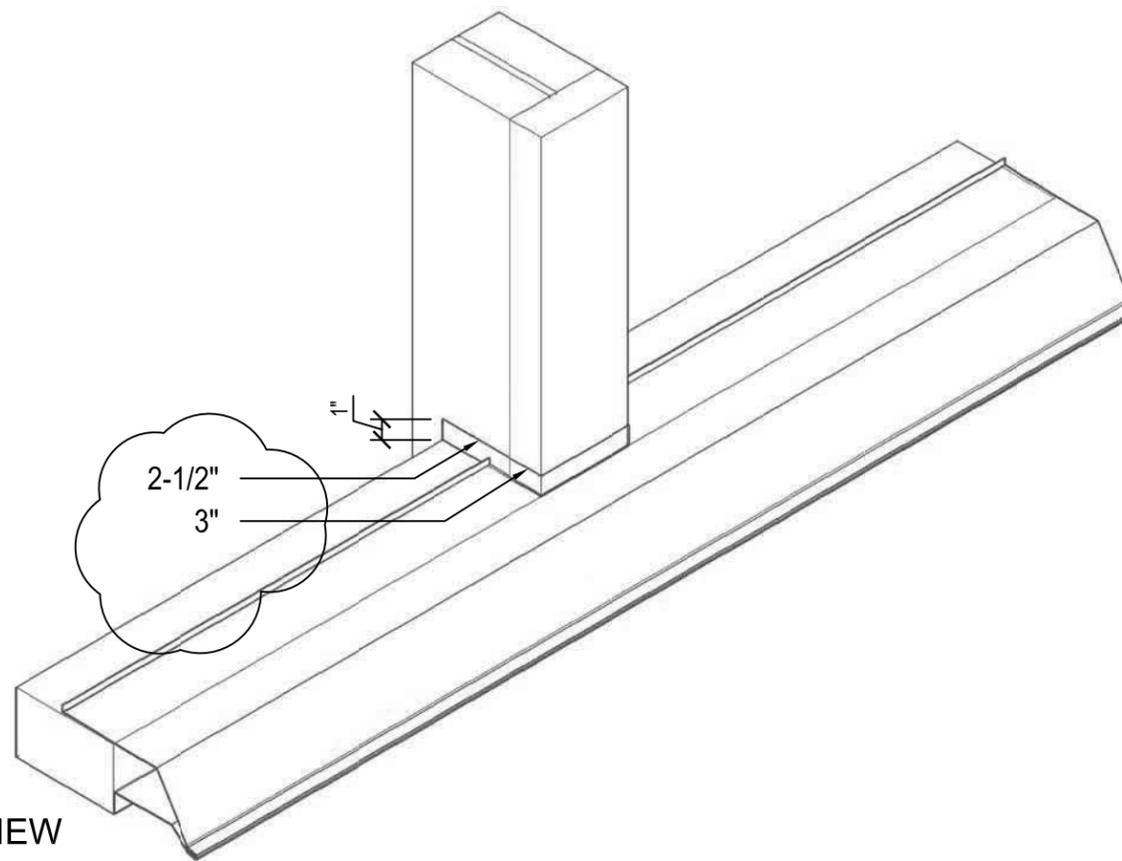


prepared by:
A. Jakubiec
date drawn:
07.24.07

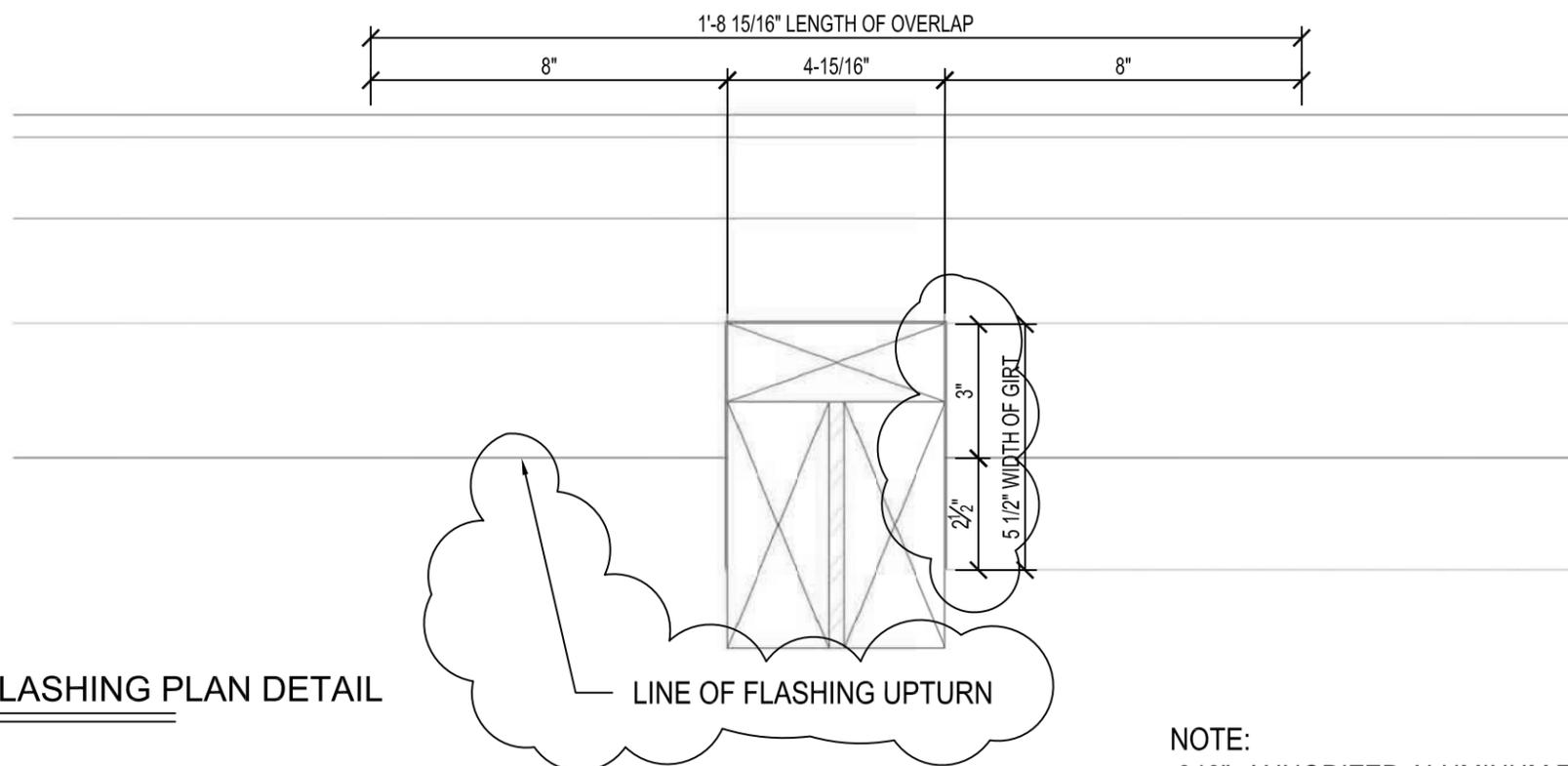
scale: 6" = 1' 0"

A.9.20

FLASHING TYPICAL PRODUCTION DETAILS



1 COLUMN COVER FLASHING 3D VIEW
A.9.21



2 COLUMN COVER FLASHING PLAN DETAIL
A.9.21

NOTE:
.040" ANNOZIZED ALUMINUM TO BE USED FOR ALL FLASHING
BEND ANGLES ARE APPROXIMATE

revision	description	date
A	revised for 5/16" upturn under kawneer mullion	7.26.07
B	dimensional verifications about column - flashing relationship	7.31.07

consultants:

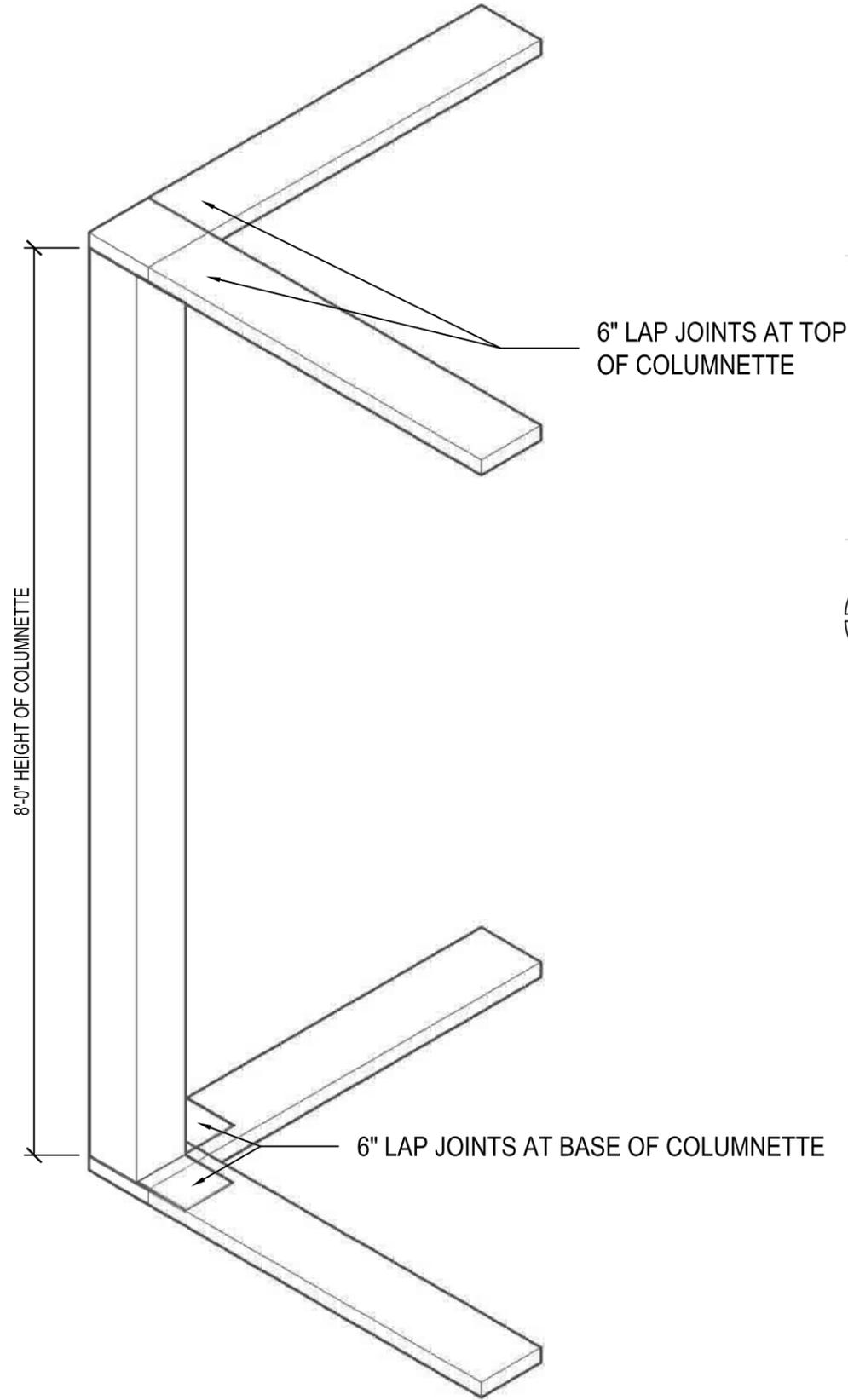


prepared by:
A. Jakubiec
date drawn:
07.24.07

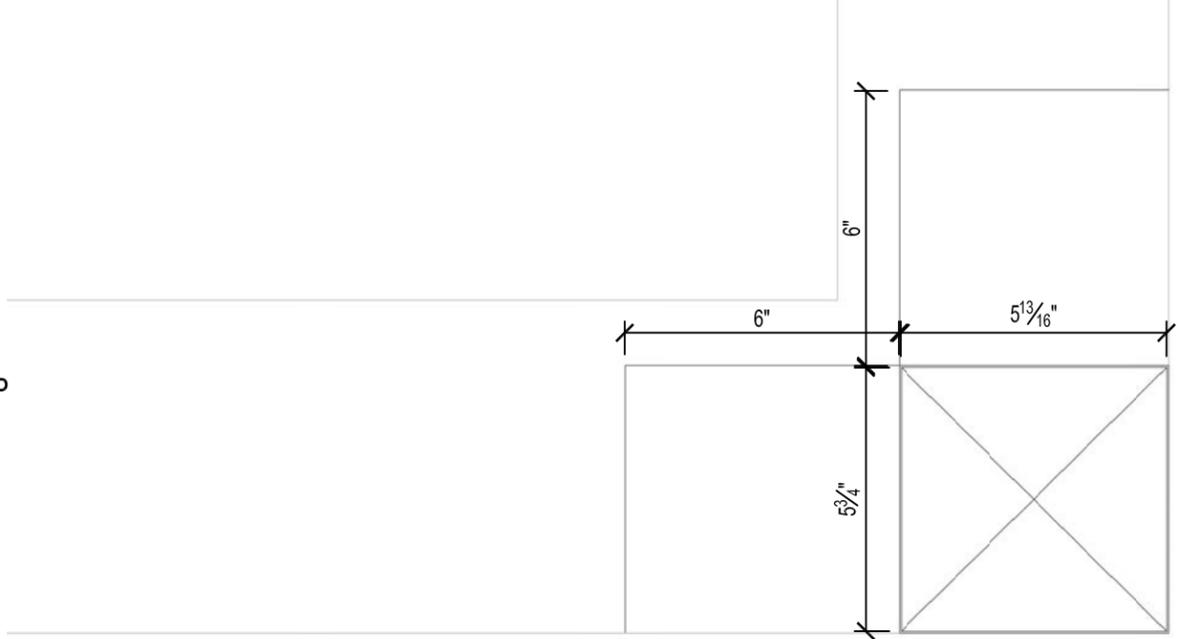
scale: 3" = 1' 0"

A.9.21

FLASHING TYPICAL PRODUCTION DETAILS

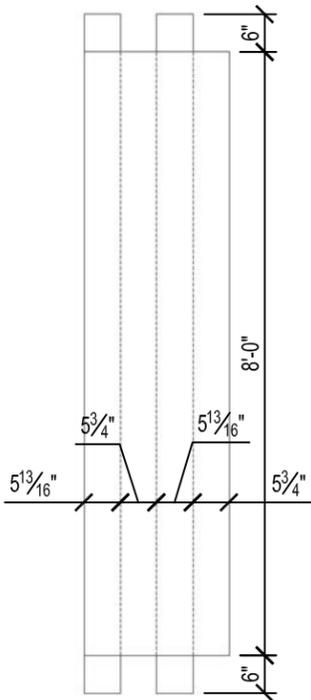


1 COLUMNETTE COVER AT CORNER 3D VIEW
 A.9.22 1 REQUIRED



2 COLUMNETTE COVER AT CORNER PLAN DETAIL
 A.9.22 1 REQUIRED

COVER AT CORNER COLUMNETTE SURROUNDS ALL 4 SIDES



2 COLUMNETTE COVER AT CORNER UNFOLDED ELEVATION DETAIL
 A.9.22 1 REQUIRED

NOTE:
 .040" ANNOZIZED ALUMINUM TO BE USED FOR ALL FLASHING

revision	description	date
A	revised for 5/16" upturn under kawneer mullion	7.26.07

consultants:

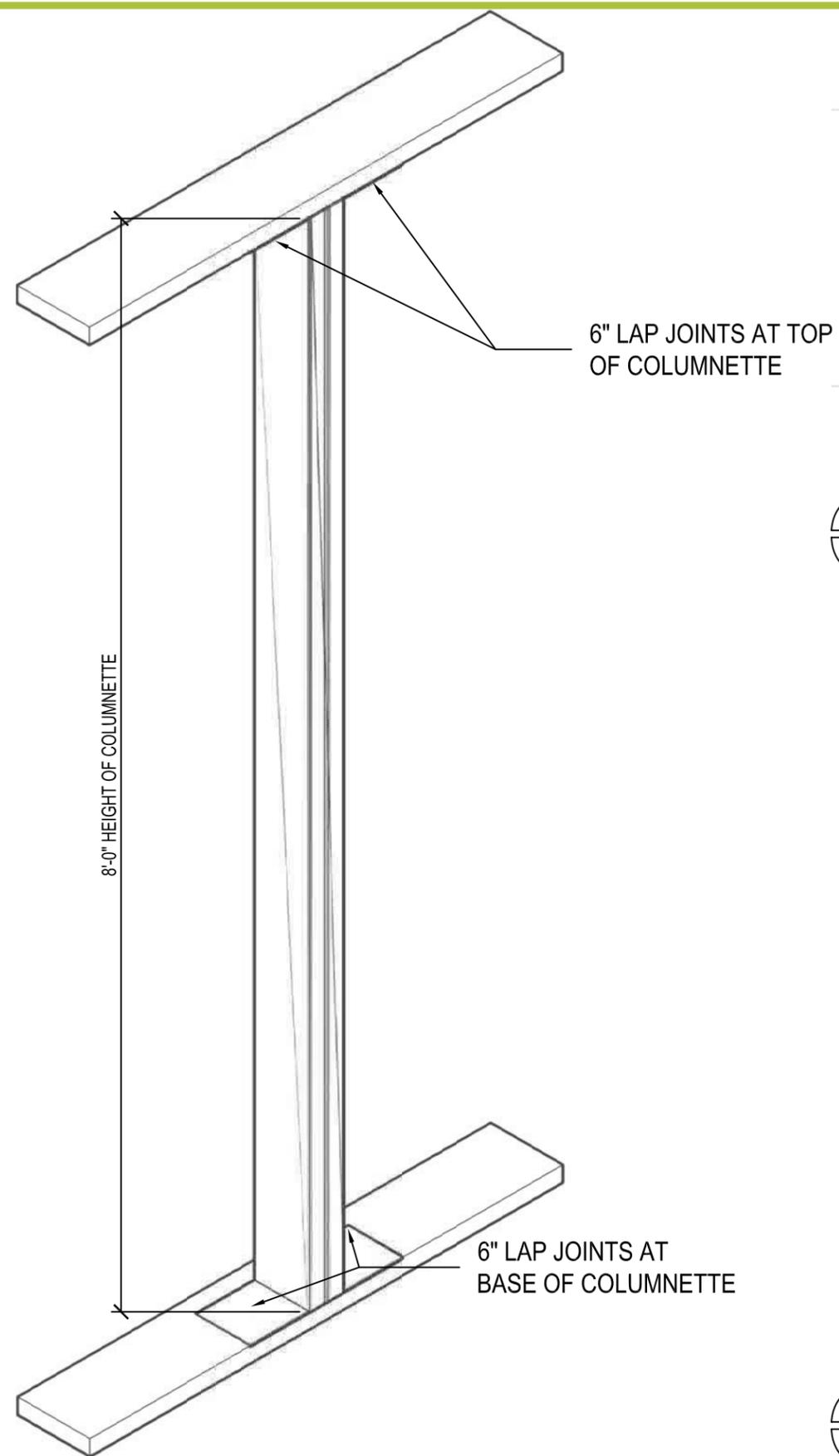


prepared by:
A. Jakubiec
 date drawn:
07.24.07

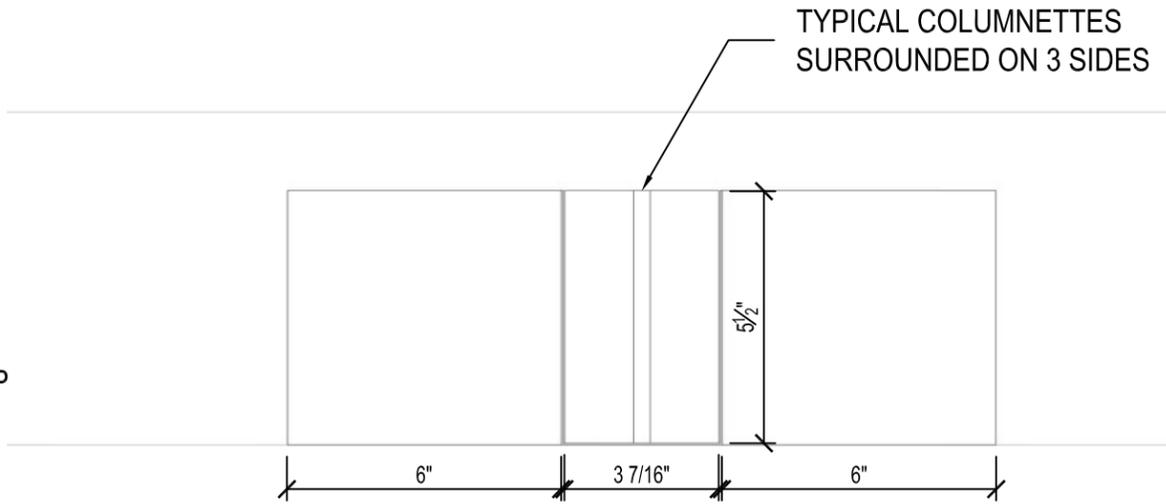
scale: 3" = 1' 0"

A.9.22

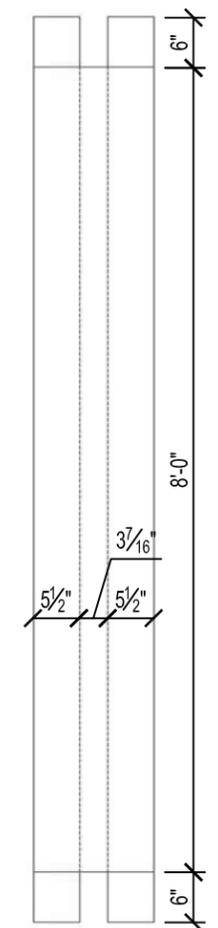
COLUMNETTE COVER PRODUCTION DETAILS



1 TYP COLUMNETTE COVER 3D VIEW
A.9.23 5 REQUIRED



2 TYP COLUMNETTE COVER AT PLAN DETAIL
A.9.23 5 REQUIRED



3 UNFOLDED ELEVATION DETAIL
A.9.23

NOTE:
.040" ANNOZIZED ALUMINUM TO BE USED FOR ALL FLASHING

revision	description	date
A	revised for 5/16" upturn under kawneer mullion	7.26.07

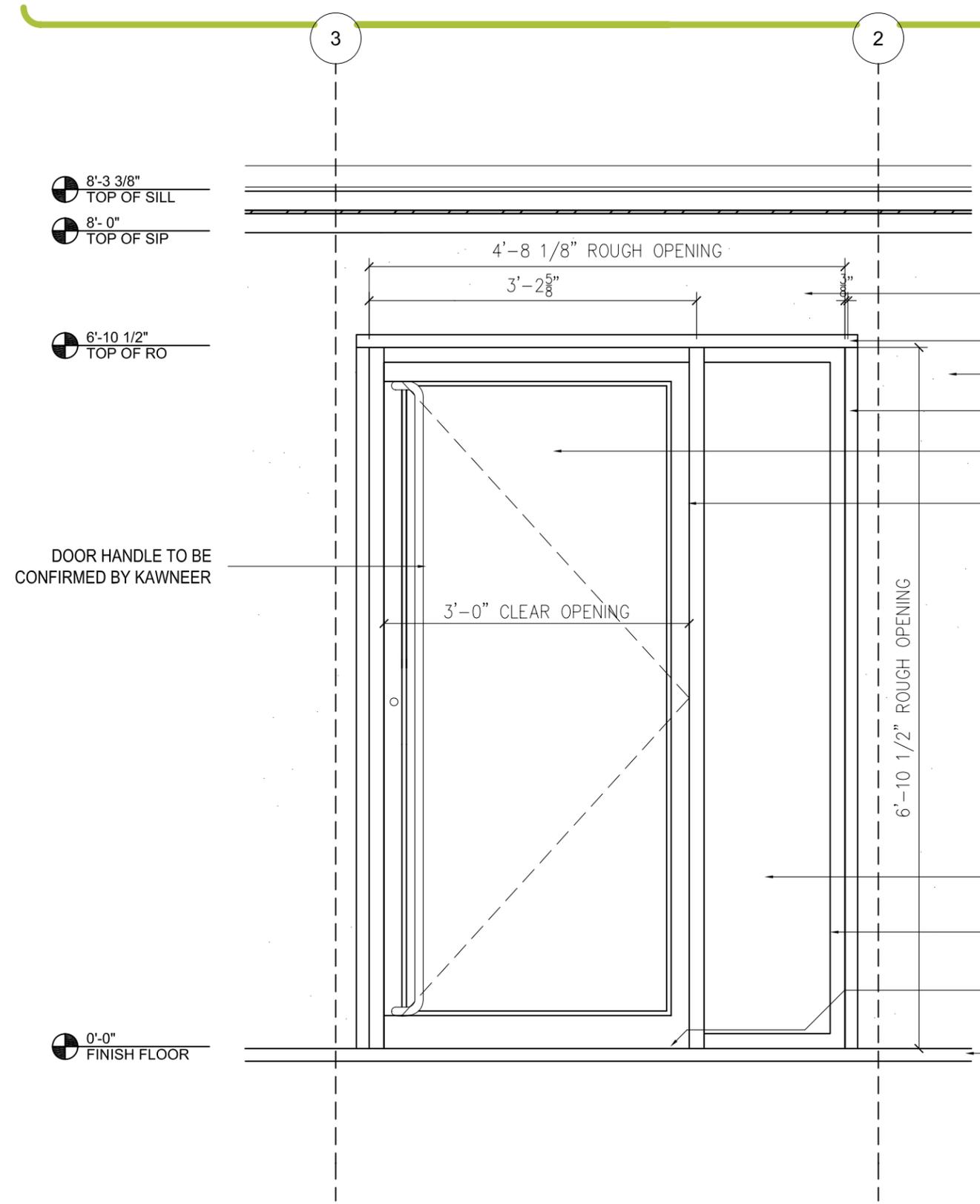
consultants:

prepared by:
A. Jakubiec
date drawn:
07.24.07

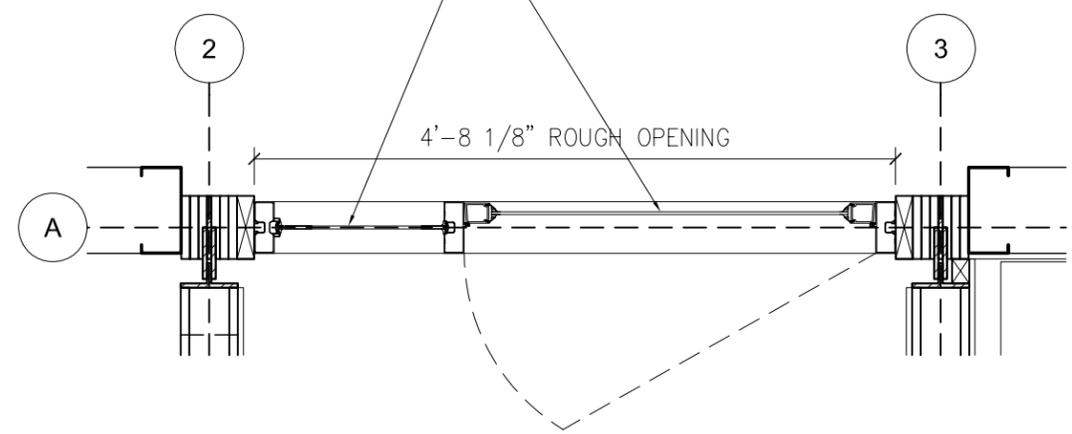
scale: 3" = 1' 0"

A.9.23

COLUMNETTE COVER PRODUCTION DETAILS



- DIMENSIONS TO BE VERIFIED BY KAWNEER
- HEAD PLATE by GT
- SIP by GT
- CONTINUOUS BLOCKING by GT
- INSULATING VIEW GLASS
- KAWNEER 190 NARROW STILE ENTRANCE W/ INSULATING GLASS by PPG



- INOPERABLE INSULATING VIEW GLASS
- MULLION THICKNESS TO BE CONFIRMED BY KAWNEER FOR USE OF INSULATING GLASS
- DOOR THRESHOLD TO BE ADA COMPLIANT W/ 1/2\"/>
- SILL PLATE by GT

8'-3 3/8"
TOP OF SILL

8'-0"
TOP OF SIP

6'-10 1/2"
TOP OF RO

DOOR HANDLE TO BE CONFIRMED BY KAWNEER

0'-0"
FINISH FLOOR

date
description
revision

consultants:



prepared by:
A. Jakubiec

date drawn:
06.29.07

scale: 3/4" : 1' 0"

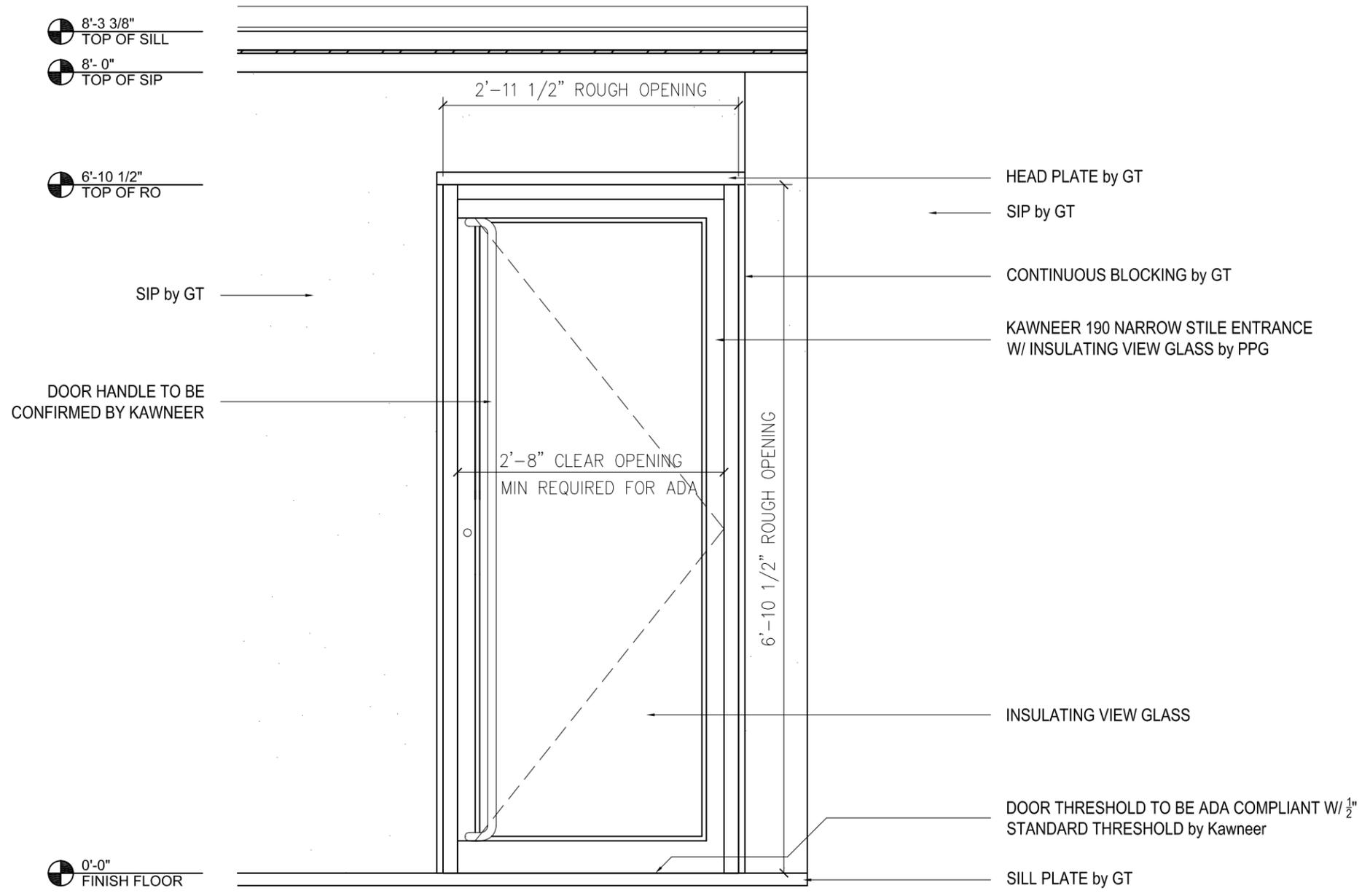
1 NORTH ENTRANCE DOOR

A.9.25 NOTE: ALL GLASS TO BE TEMPERED ARGON FILLED LOW-E COATED SOLARBAN 70XL STARPHIRE

NOTE: DOOR FRAME SET IN 1/2" SEALANT GAP

A.9.25

NORTH ENTRANCE DOOR



date	description	revision

consultants:



prepared by:
A. Jakubiec

date drawn:
06.29.07

scale: 3/4" : 1' 0"

WEST BEDROOM DOOR

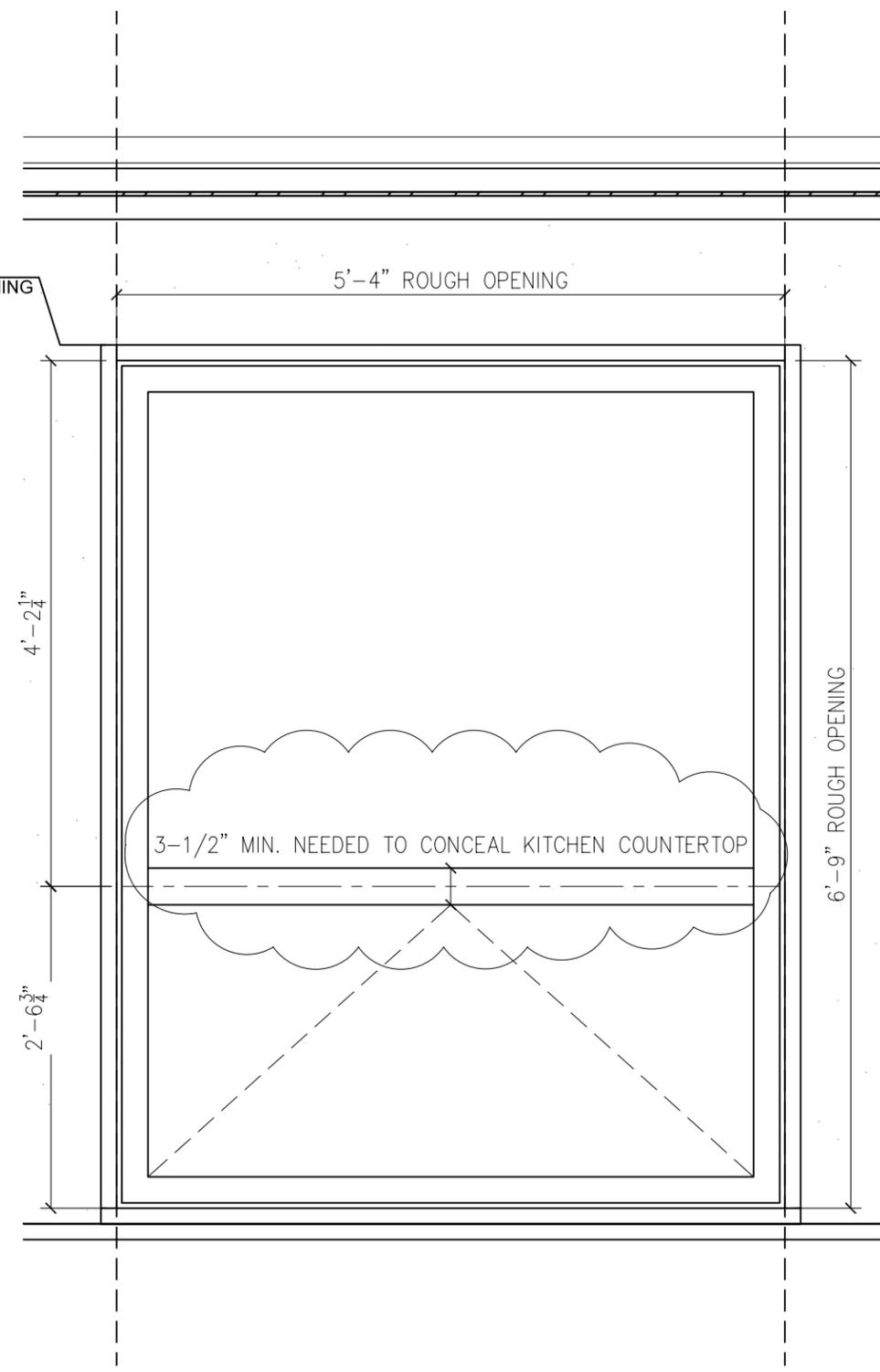
1 WEST BEDROOM DOOR

A.9.26 NOTE: ALL GLASS TO BE TEMPERED ARGON FILLED
LOW-E COATED SOLARBAN 70XL STARPHIRE

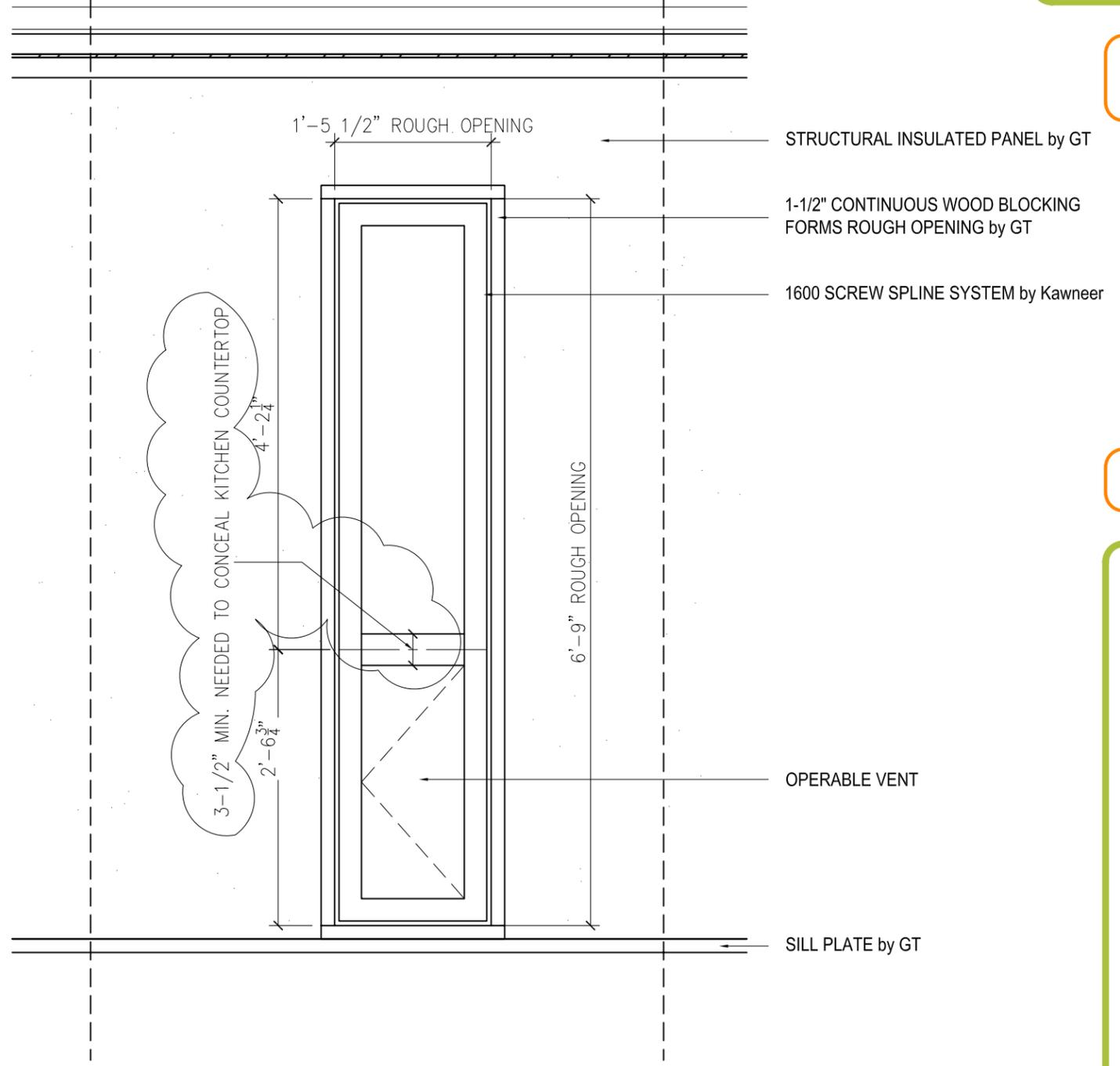
NOTE: DOOR FRAME SET IN 1/2" SEALANT GAP

A.9.26

- 8'-3 3/8"
TOP OF SILL
- 8'-0"
TOP OF SIP
- 7'-0"
TOP OF SIP OPENING
- 6'-10 1/2"
TOP OF RO
- 2'-8 1/4"
CL OF MULLION
- 0'-0"
FINISH FLOOR



1 KITCHEN WINDOW DETAIL
A.9.27



1 BATHROOM WINDOW DETAIL
A.9.27

NOTE: ALL GLASS TO BE TEMPERED ARGON FILLED LOW-E COATED SOLARBAN 70XL STARPHIRE

revision	description	date
A	horizontal mullion adjustment	06.29.07

consultants:

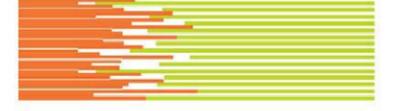


prepared by:
A. Jakubiec
date drawn:
06.29.07

scale: 3/4" : 1' 0"

A.9.27

WINDOW ELEVATION DETAILS



revision	description	date

consultants:



prepared by:

Sarah Shelley

date drawn:

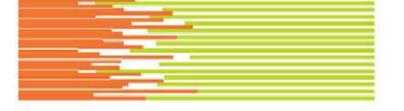
12.6.06



scale: **1/4" : 1' 0"**

A.10.1

INTERIOR VIEW : bedroom



revision	description	date

consultants:



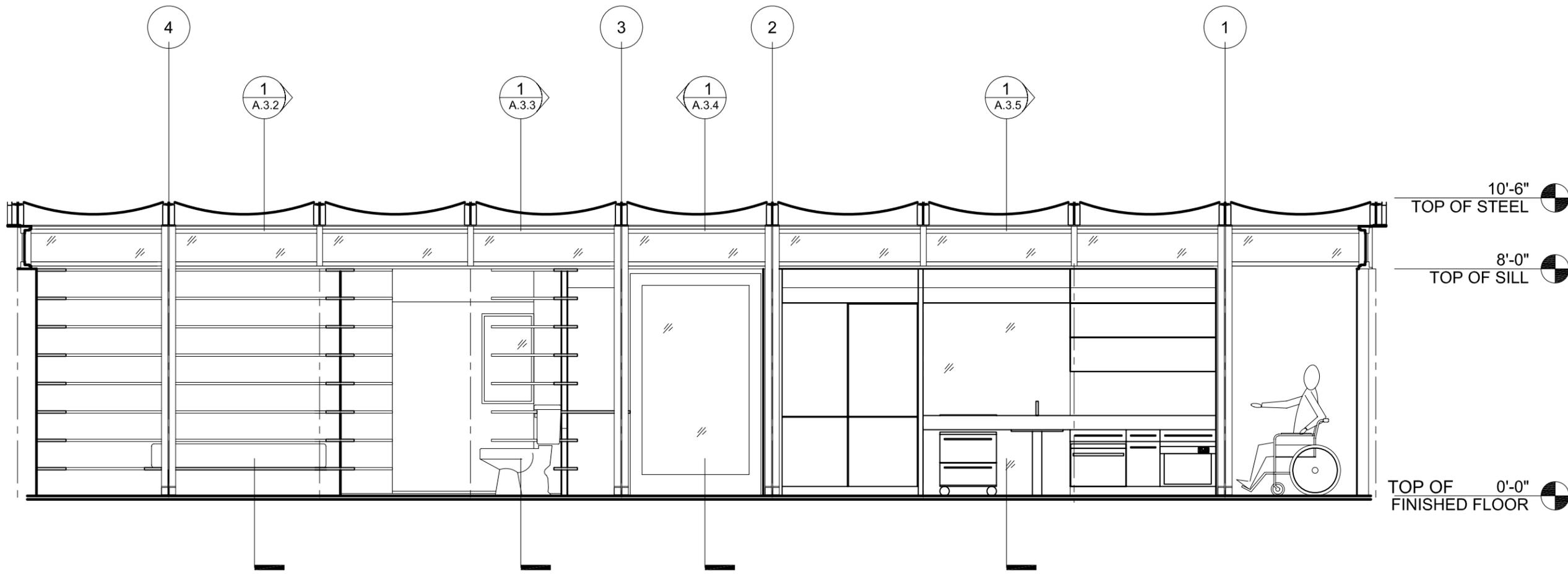
prepared by:
Sarah Shelley
date drawn:
12.6.06



scale: **1/4" : 1' 0"**

A.10.2

INTERIOR VIEW : living space and kitchen



date

revision	description

consultants:



prepared by:
Sarah Shelley
 date drawn:
12.6.06



scale: **1/4" : 1' 0"**

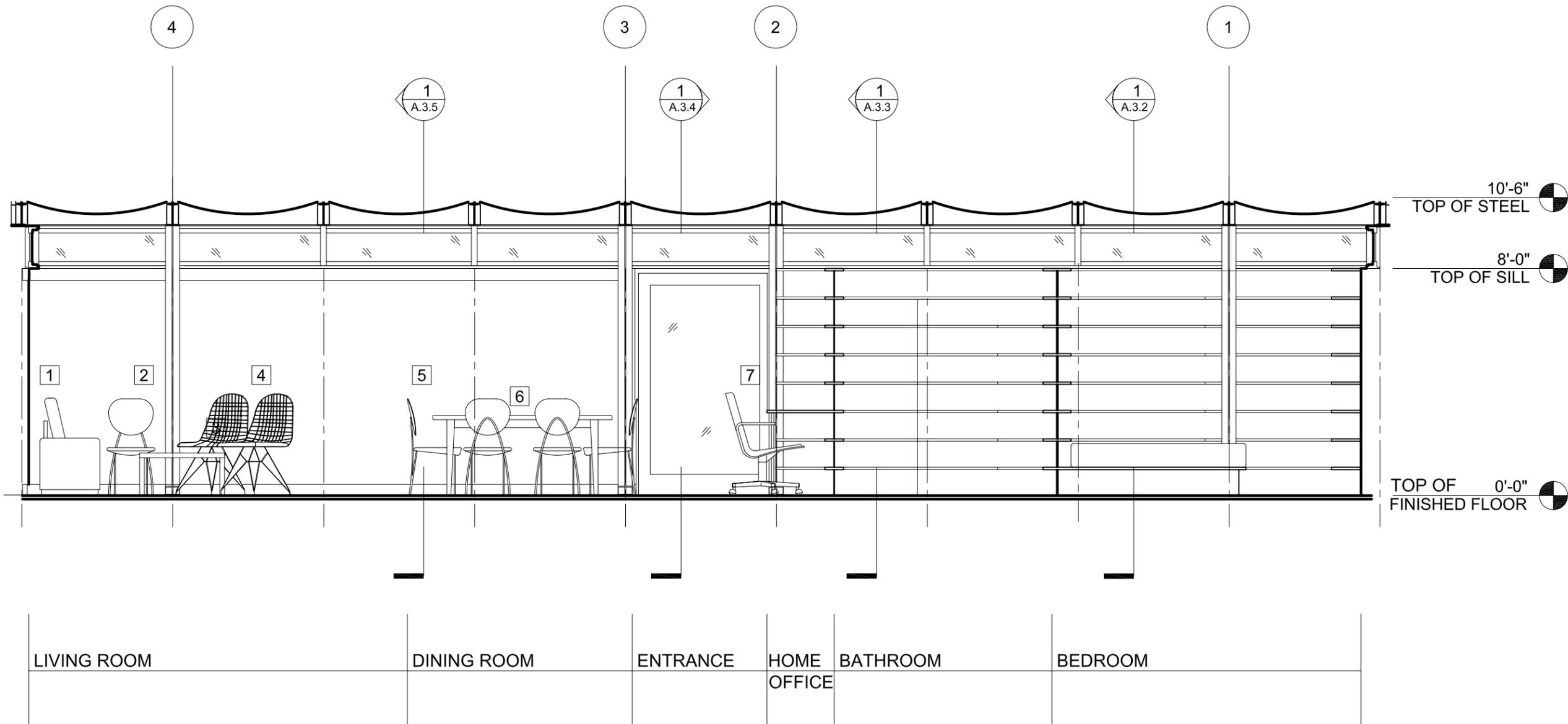
INTERIOR ELEVATION - LONGITUDINAL LOOKING NORTH

1 INTERIOR ELEVATION: NORTH
 A.10.4



A.10.4

#	FURNITURE TYPE	MANUFACTURER
1	SOFA	HERMAN MILLER
2	LIVING ROOM CHAIR-1	HERMAN MILLER
3	COFFEE TABLE	HERMAN MILLER
4	LIVING ROOM CHAIR-2	HERMAN MILLER
5	DINING ROOM CHAIR	HERMAN MILLER
6	DINING ROOM TABLE	HERMAN MILLER
7	DESK CHAIR	HERMAN MILLER



revision	description	date

consultants:



prepared by:
Sarah Shelley
 date drawn:
12.6.06



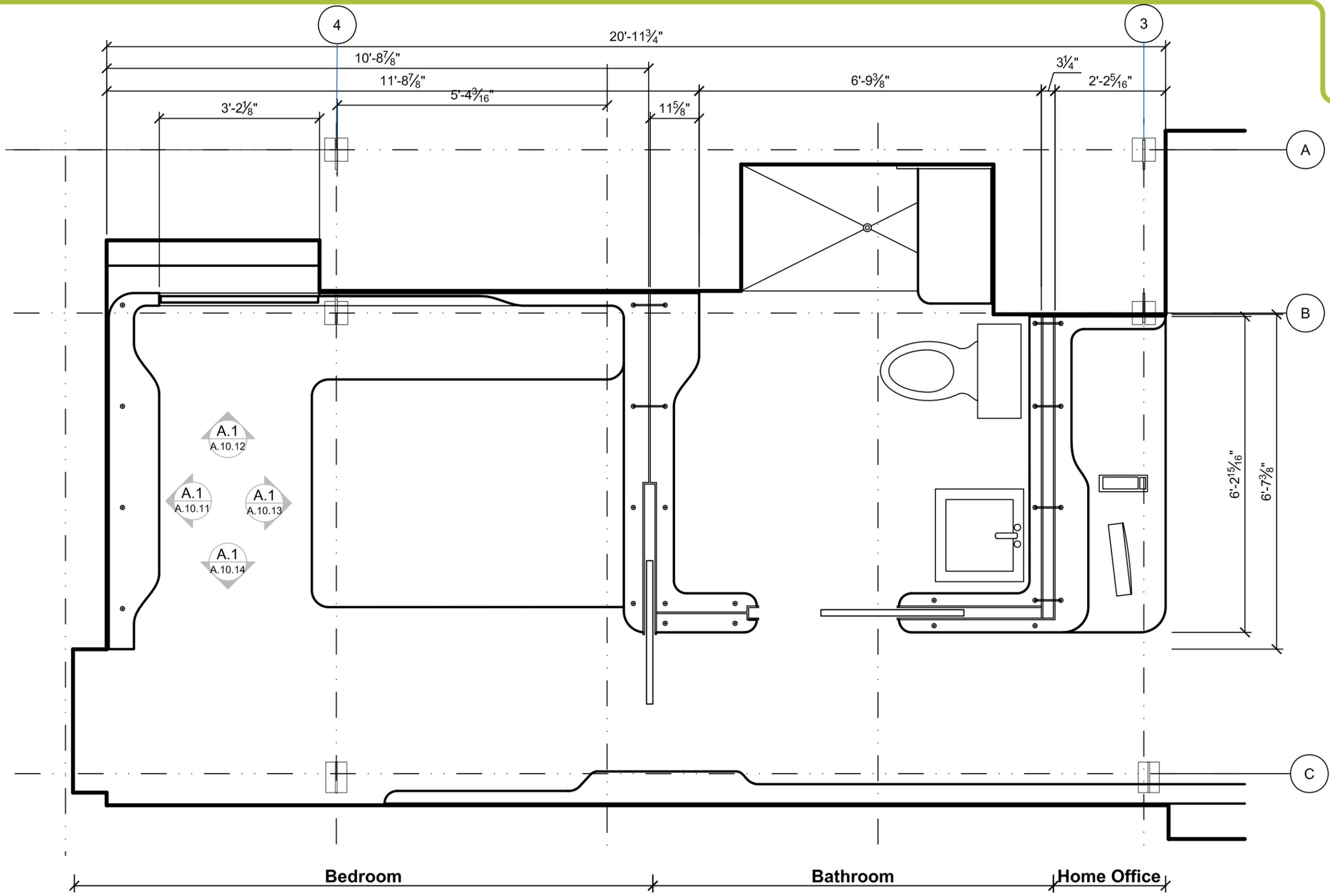
scale: **1/4" : 1' 0"**

1 INTERIOR ELEVATION: SOUTH
 A.10.5



INTERIOR ELEVATION - LONGITUDINAL LOOKING SOUTH

A.10.5



revision	description	date

consultants:



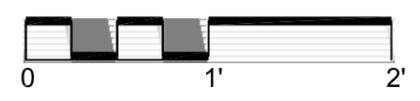
prepared by:
Kevin Short
date drawn:
12.03.06



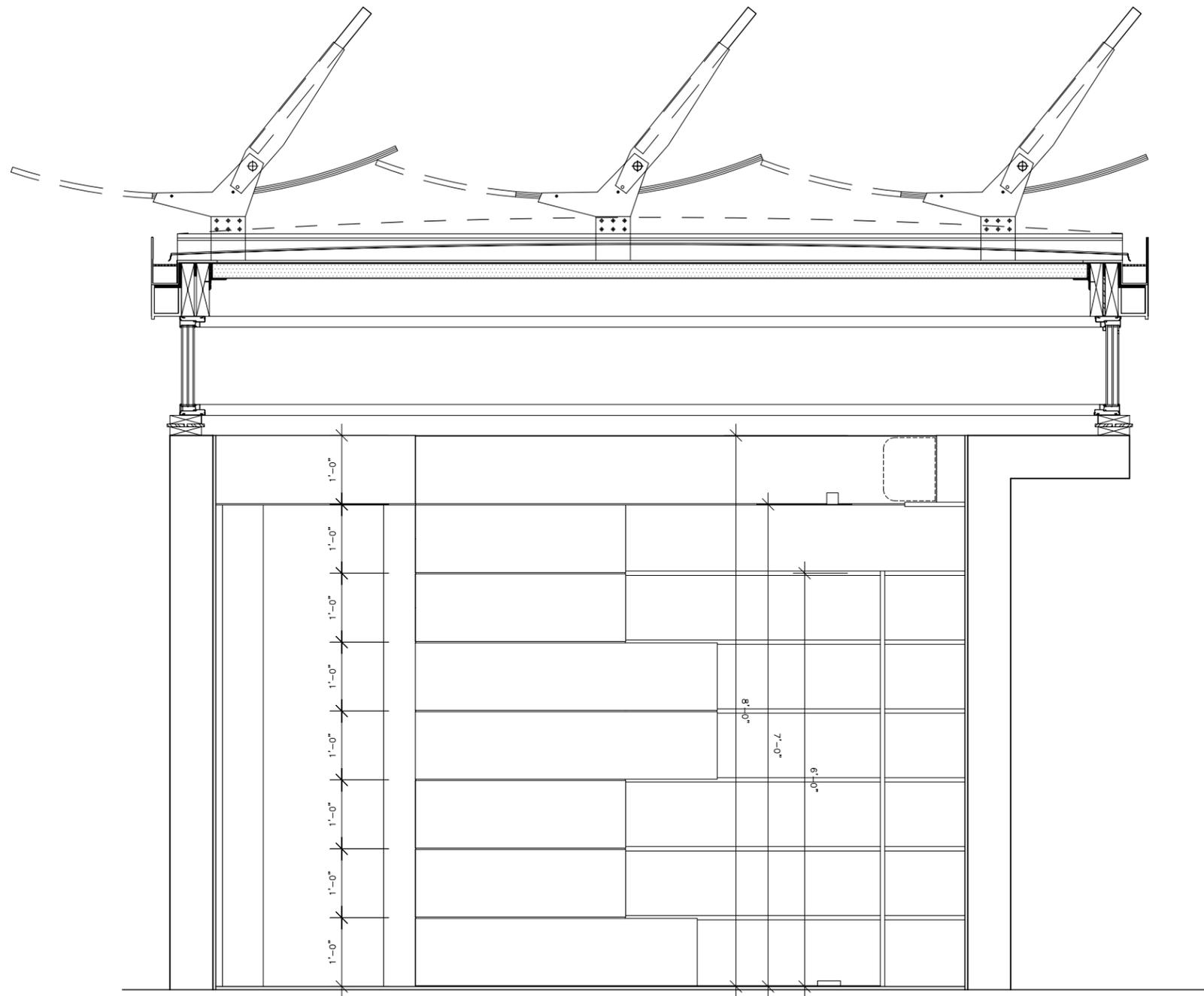
scale: $\frac{1}{2}'' : 1' 0''$

BEDROOM - PLAN

A1
A.10.10
BEDROOM - PLAN



A.10.10



A1 ELEVATION - BEDROOM WEST WALL
A.10.11

revision	description	date

consultants:
|
|
|
|

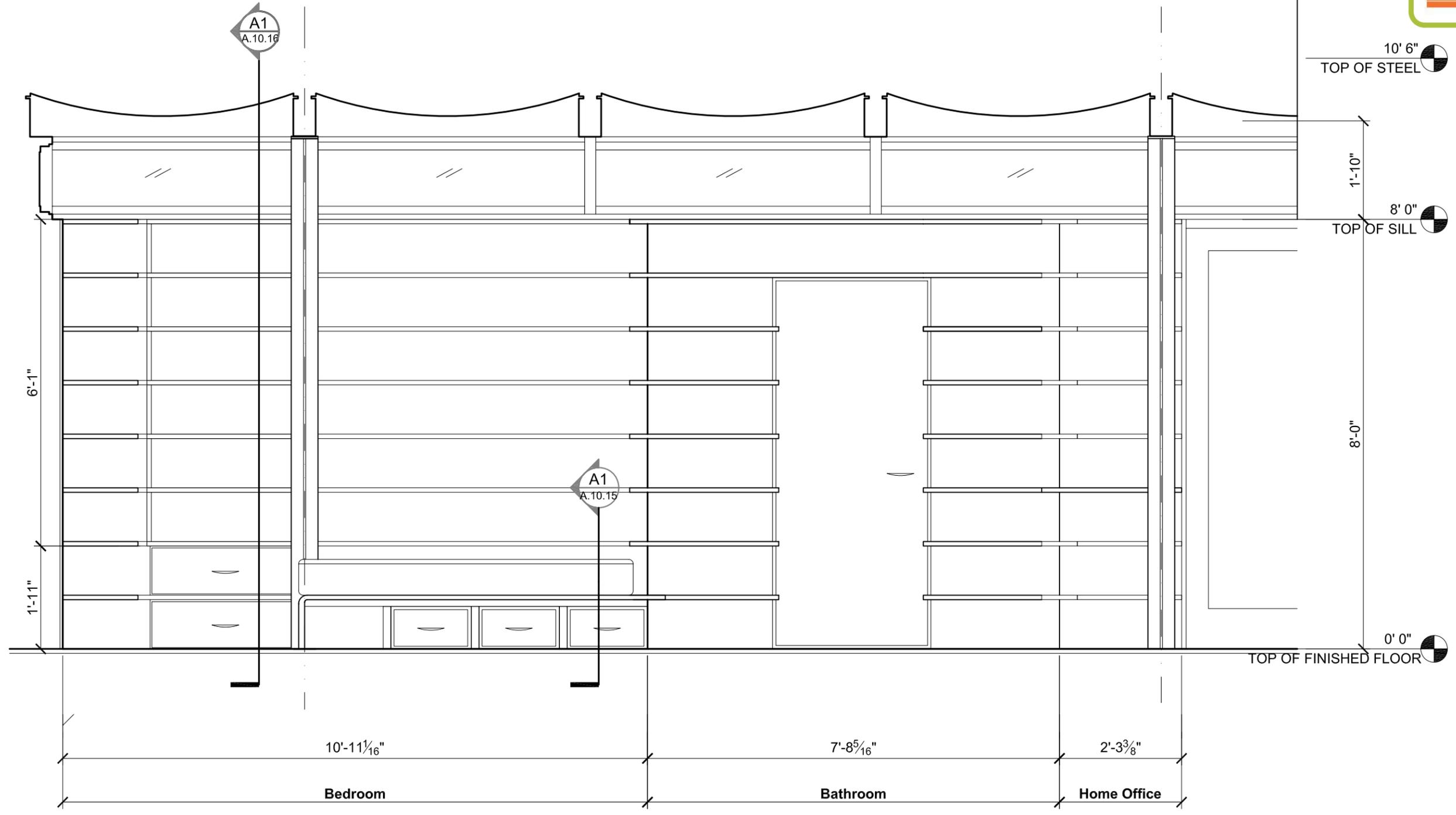


prepared by:
V. Deo
date drawn:
07.29.07

scale: 1/2" = 1'-0"

A.10.11

DIGITAL FABRICATED INTERIORS



revision	description	date

consultants:



prepared by:
Kevin Short

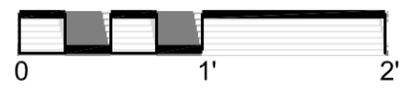
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12.03.06



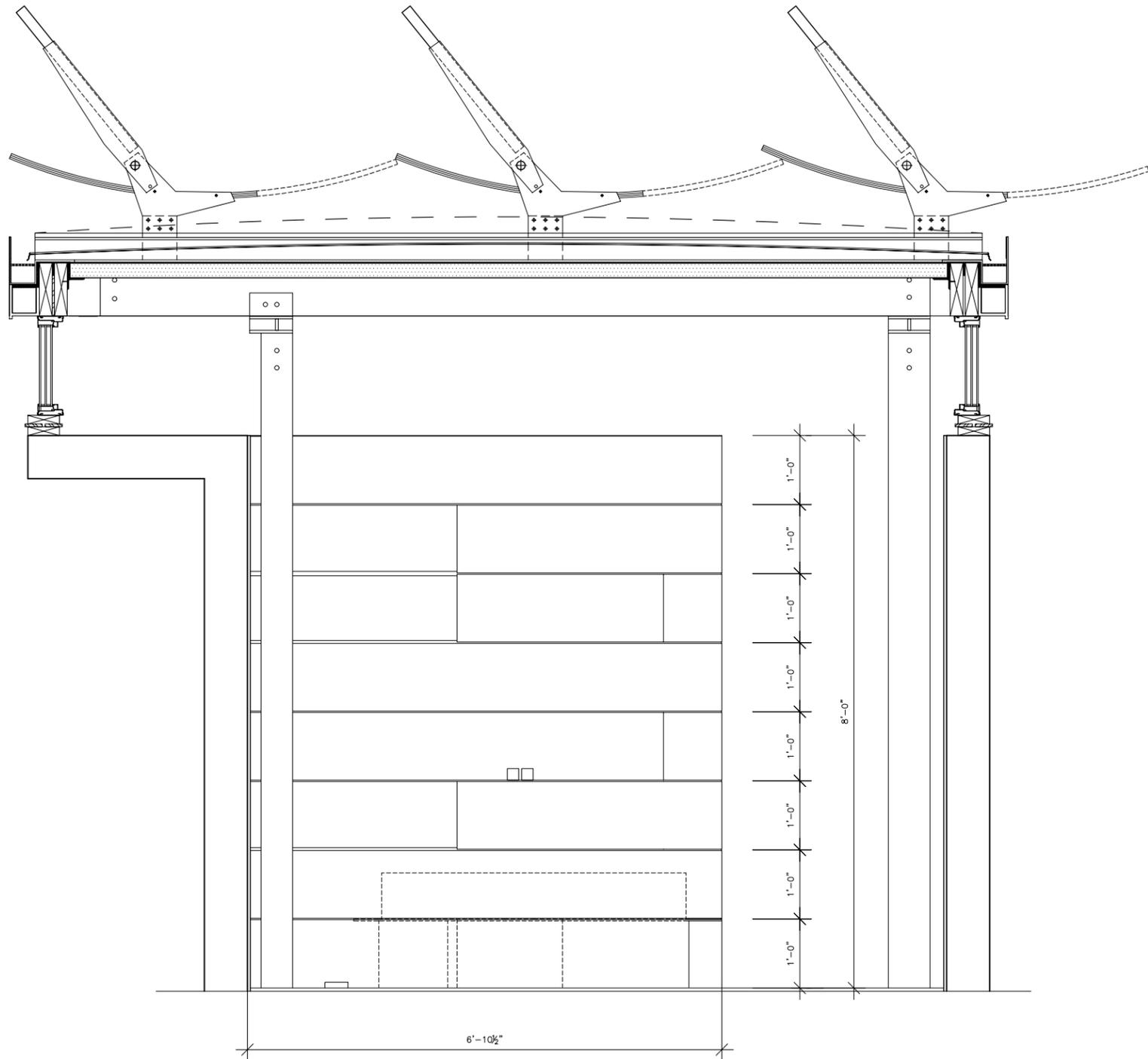
scale: $\frac{1}{2}$ " : 1' 0"

BEDROOM - NORTH ELEVATION

A1 BEDROOM - NORTH ELEVATION
A.10.12



A.10.12



A1 ELEVATION - BEDROOM EAST WALL
 A.10.13

revision	description	date

consultants:

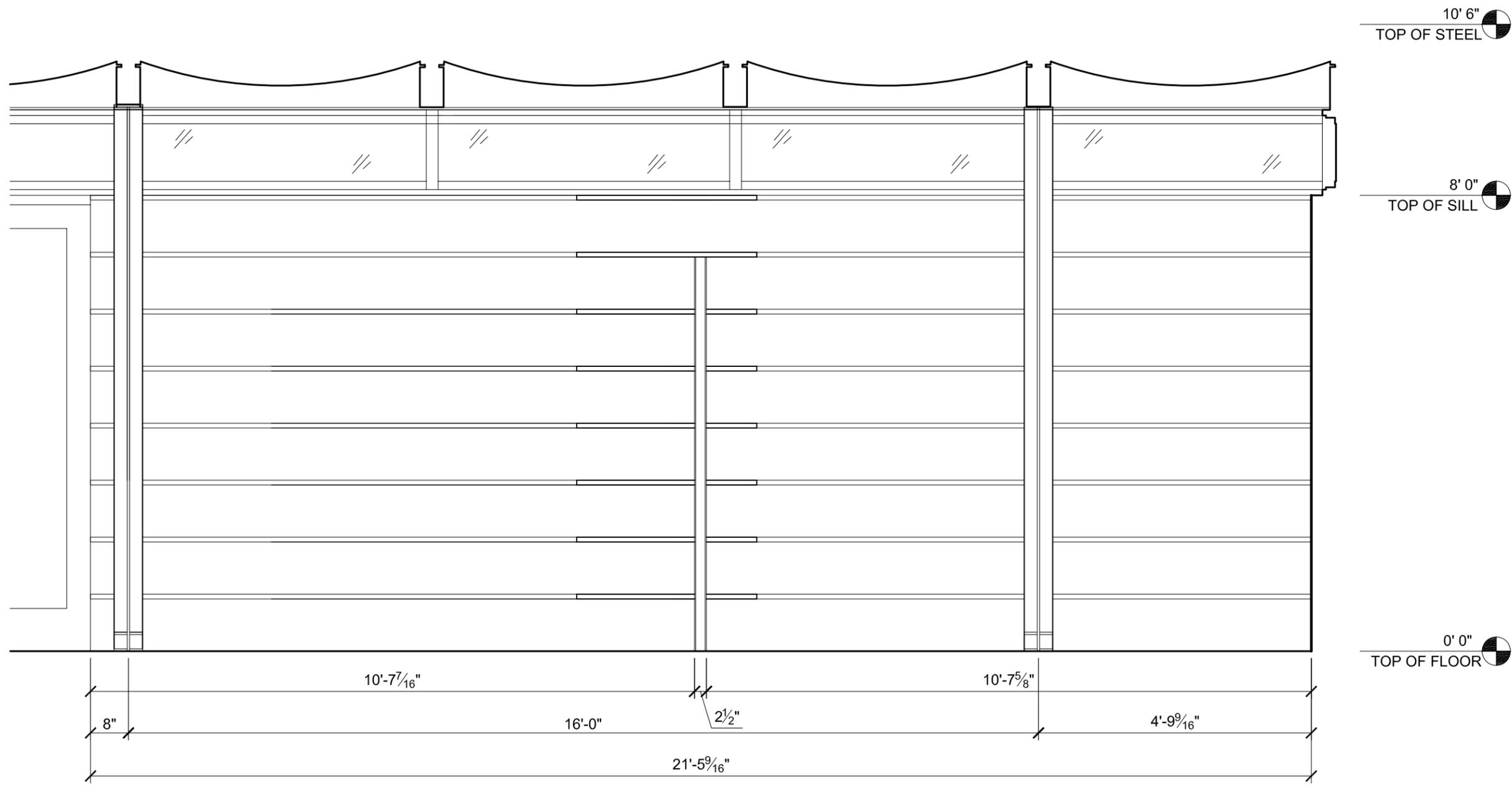


prepared by:
V. Deo
 date drawn:
07.29.07

scale: 1/2" = 1'-0"

A.10.13

DIGITAL FABRICATED INTERIORS



revision	description	date

- consultants:
- _____
 - _____
 - _____
 - _____



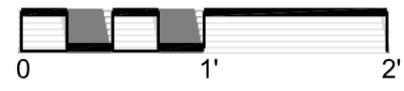
prepared by:
Kevin Short
date drawn:
12.03.06



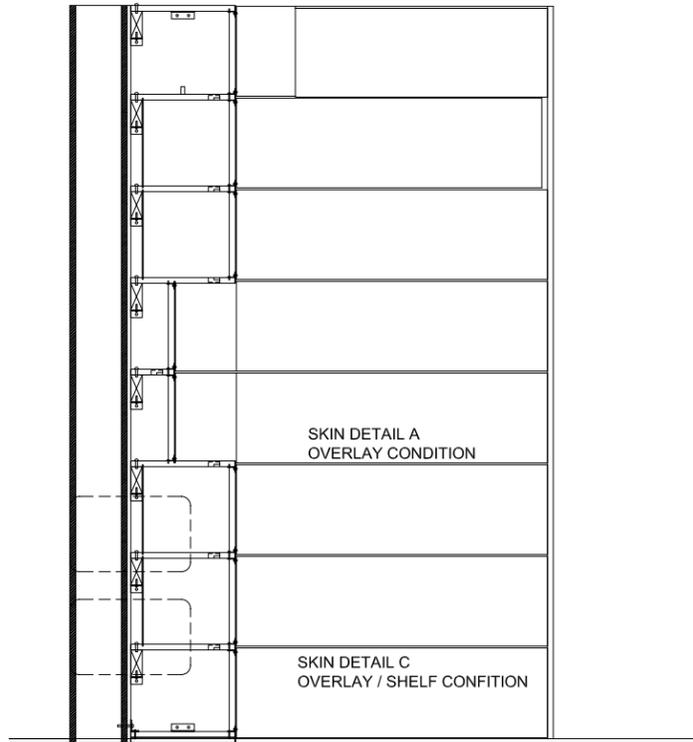
scale: 1/2" : 1' 0"

BEDROOM - SOUTH ELEVATION

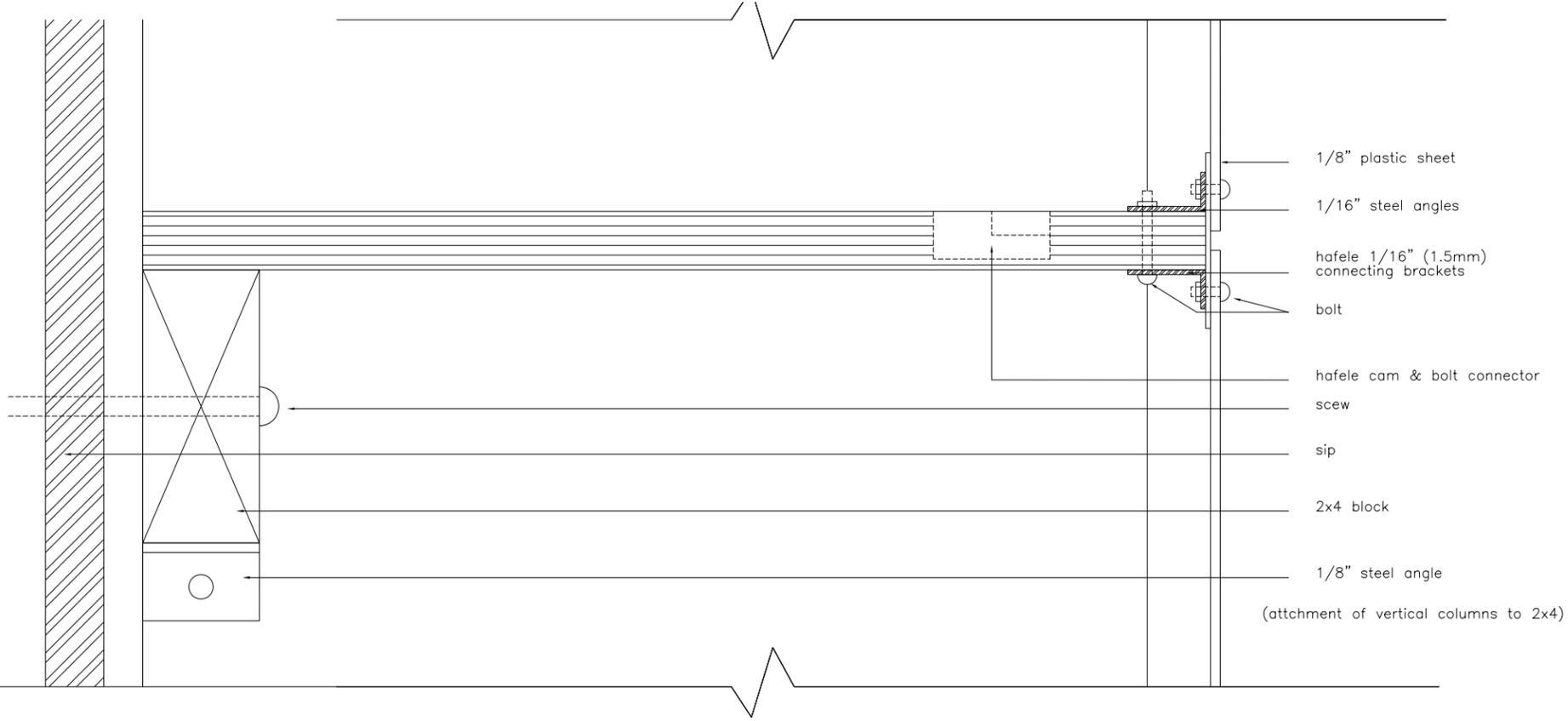
A1 BEDROOM - SOUTH ELEVATION
A.10.14



A.10.14



A1 SECTION - BDRM WEST WALL
A.10.15



A1 SECTION- DETAIL - BDRM WEST WALL
A.10.15

revision	description	date

consultants:

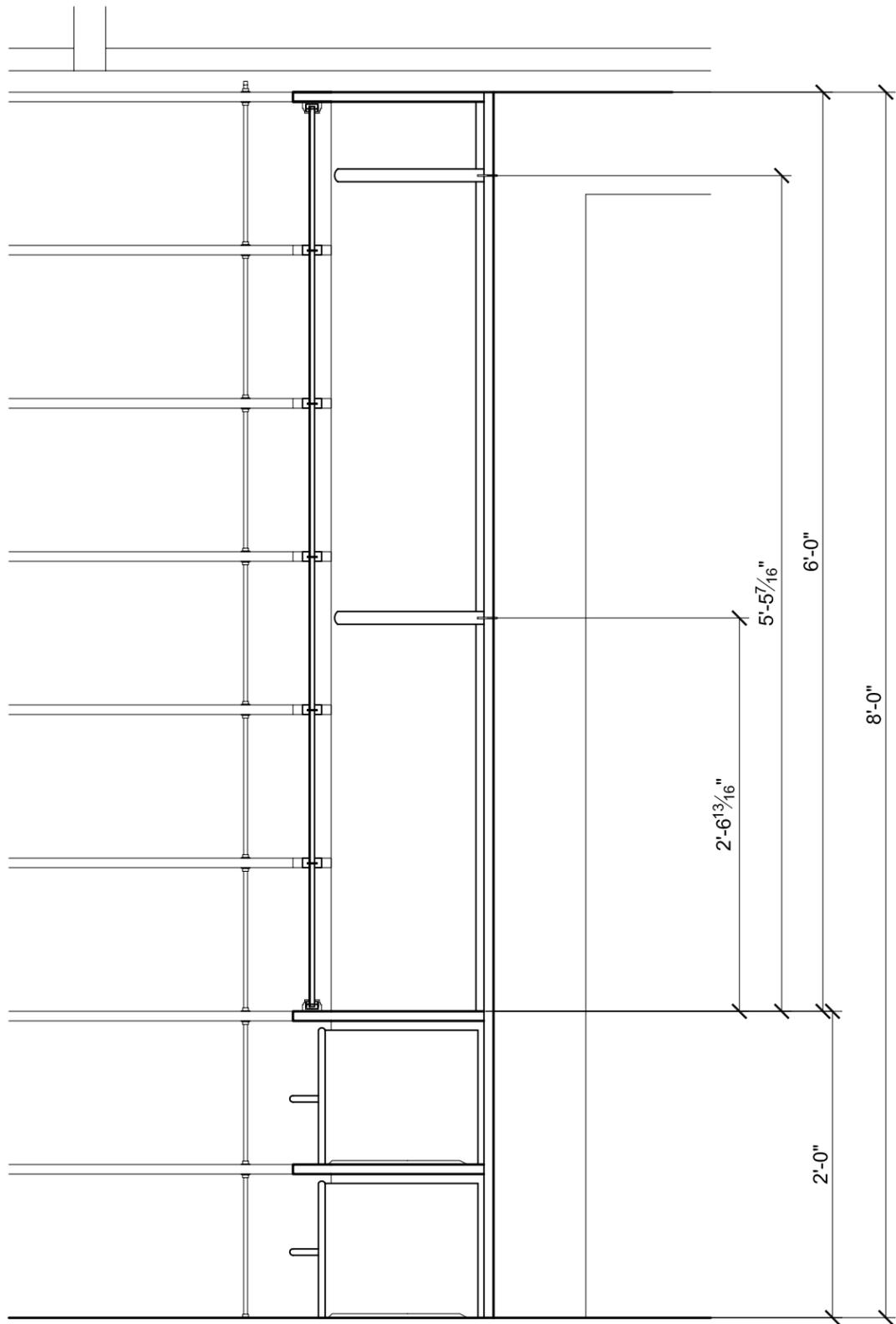


prepared by:
L. Ong
date drawn:
07.29.07

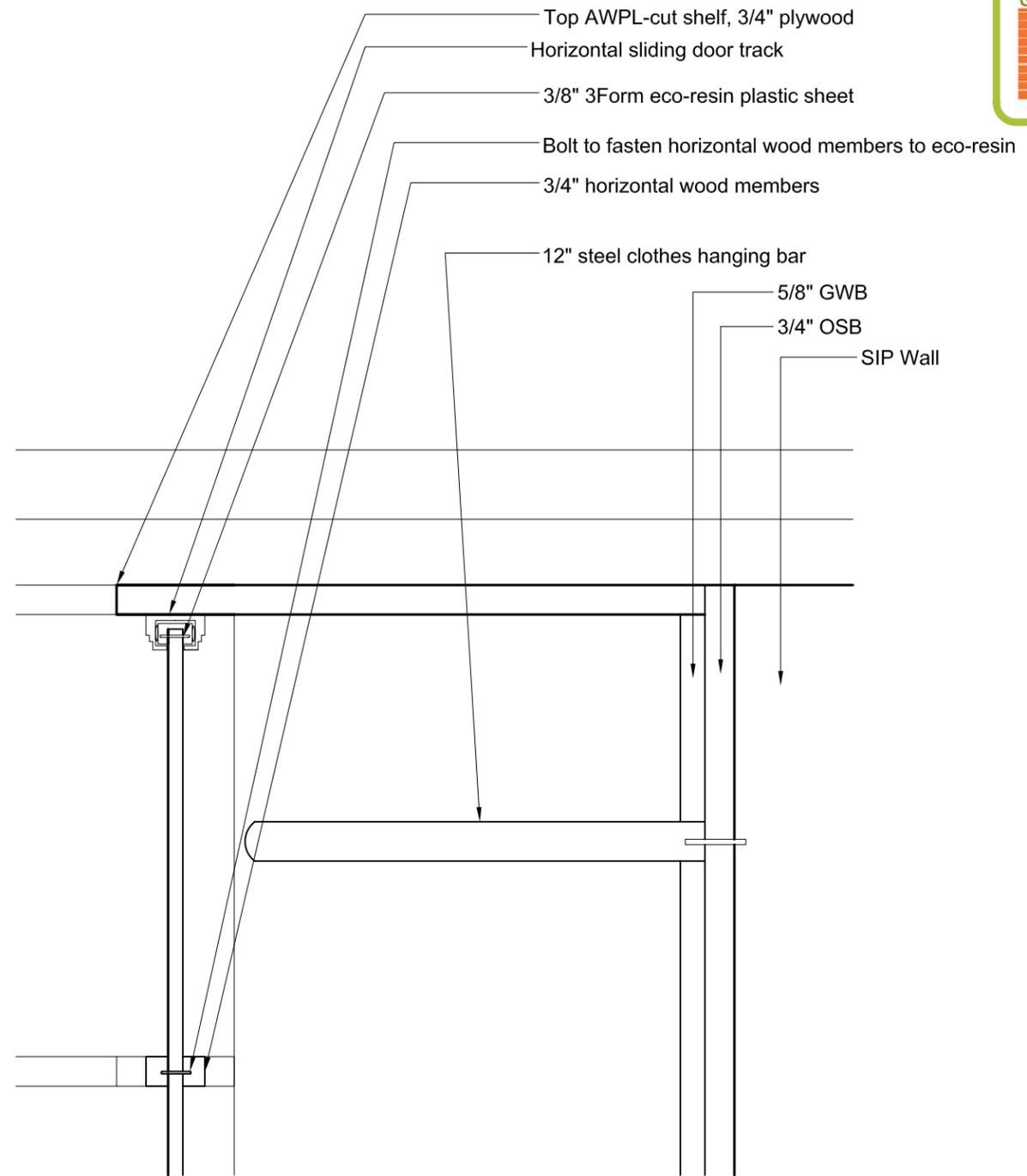
scale: 1/2" = 1'-0"

A.10.15

DIGITAL FABRICATED INTERIORS



A1 BEDROOM - CLOSET SECTION DETAIL A
 A.10.16 scale: 1" : 1' 0"



A2 BEDROOM - CLOSET SECTION DETAIL B
 A.10.16 scale: 3" : 1' 0"

revision	description	date

consultants:

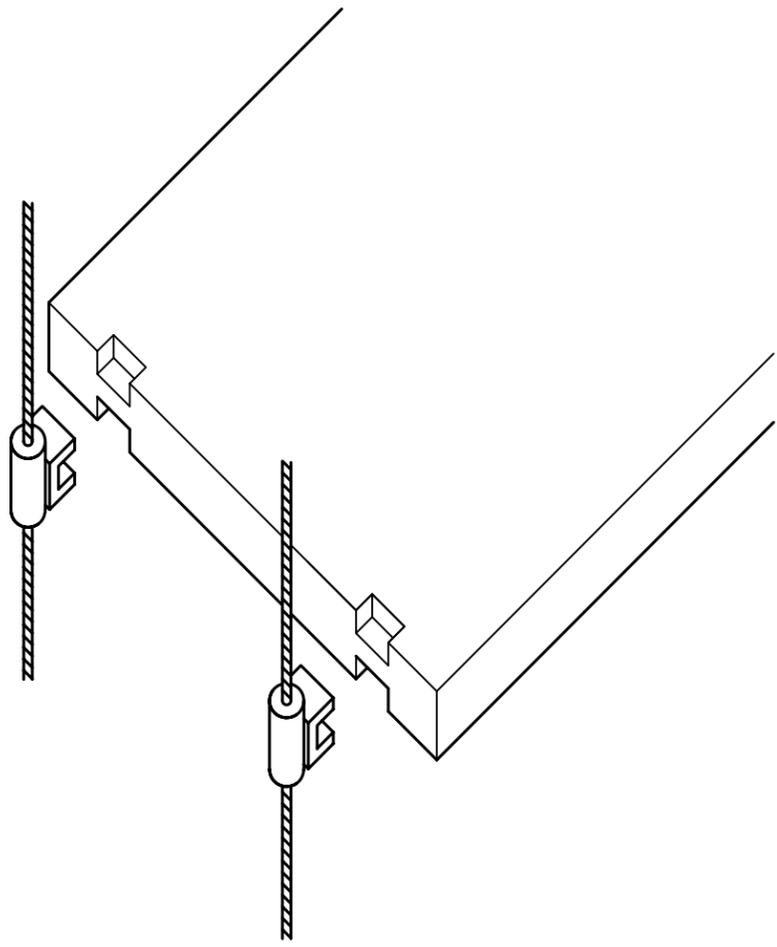
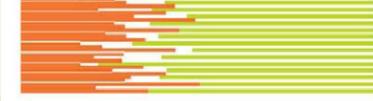


prepared by:
Kevin Short
 date drawn:
12.03.06

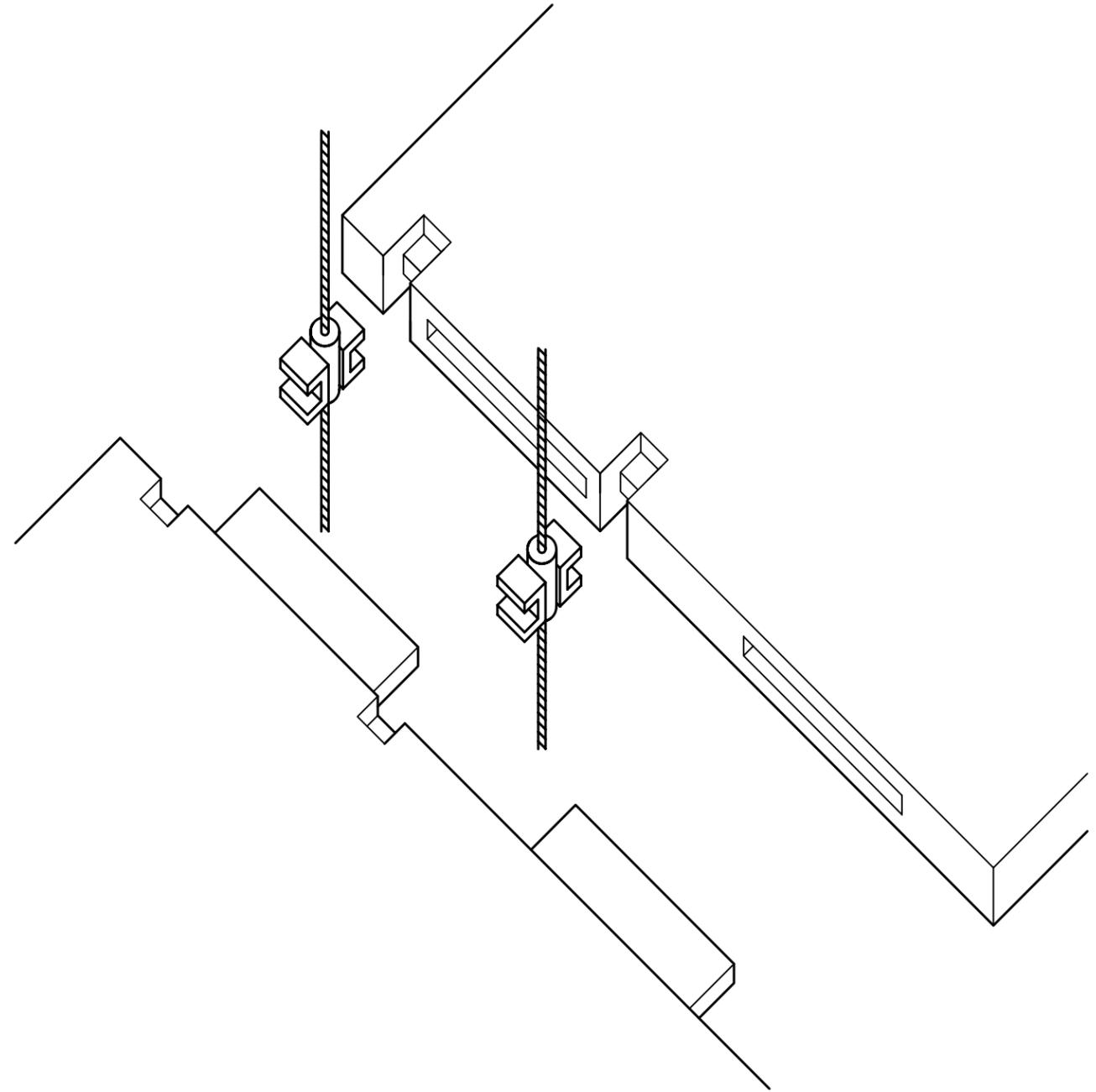


scale: **as shown**

BEDROOM - CLOSET SECTION DETAIL



A1 SHELF-END GRIP CONNECTION DETAIL
A.10.17



A2 MID-SHELF GRIP CONNECTION DETAIL
A.10.17

revision	description	date

consultants:



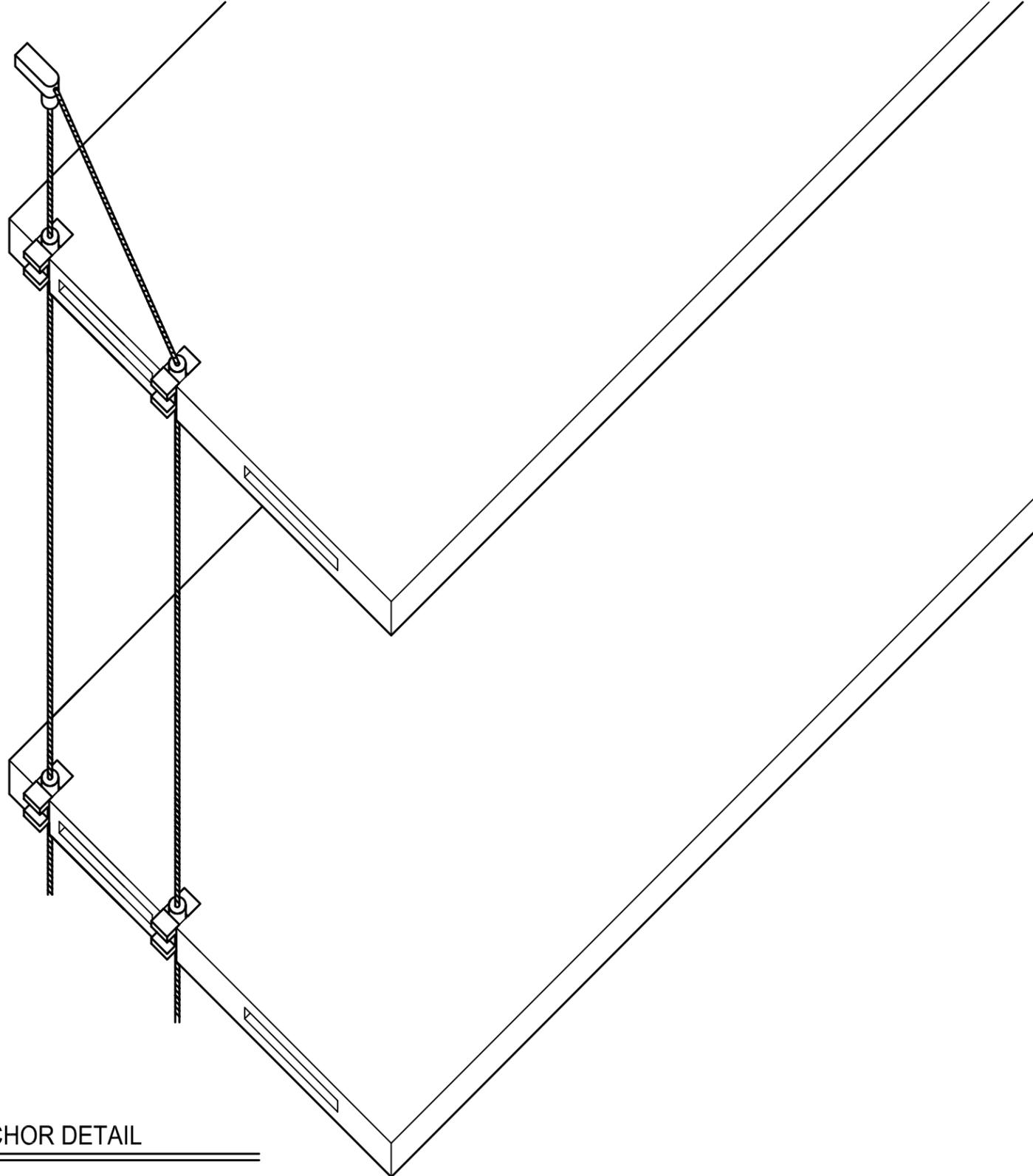
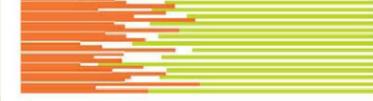
prepared by:
Kevin Short
date drawn:
12.03.06



scale: **6" : 1' 0"**

BEDROOM - CABLE CONNECTION DETAIL

A.10.17



A1 WALL ANCHOR DETAIL
A.10.18

revision	description	date

consultants:



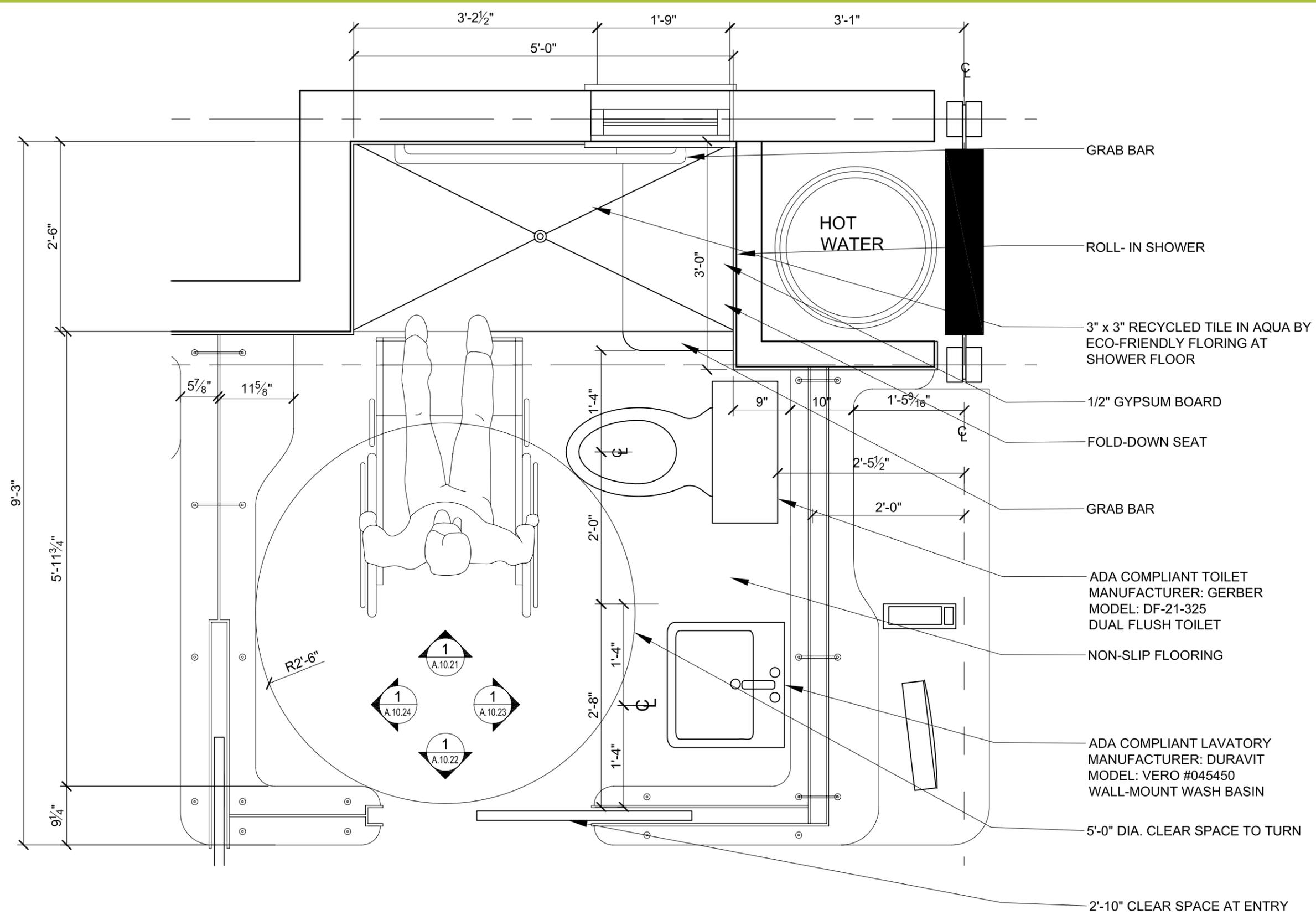
prepared by:
Kevin Short
date drawn:
12.03.06



scale: **4" : 1' 0"**

BEDROOM - WALL ANCHOR DETAIL

A.10.18



date	description	revision

consultants:



prepared by: **Sarah Shelley**
 date drawn: **12.6.06**

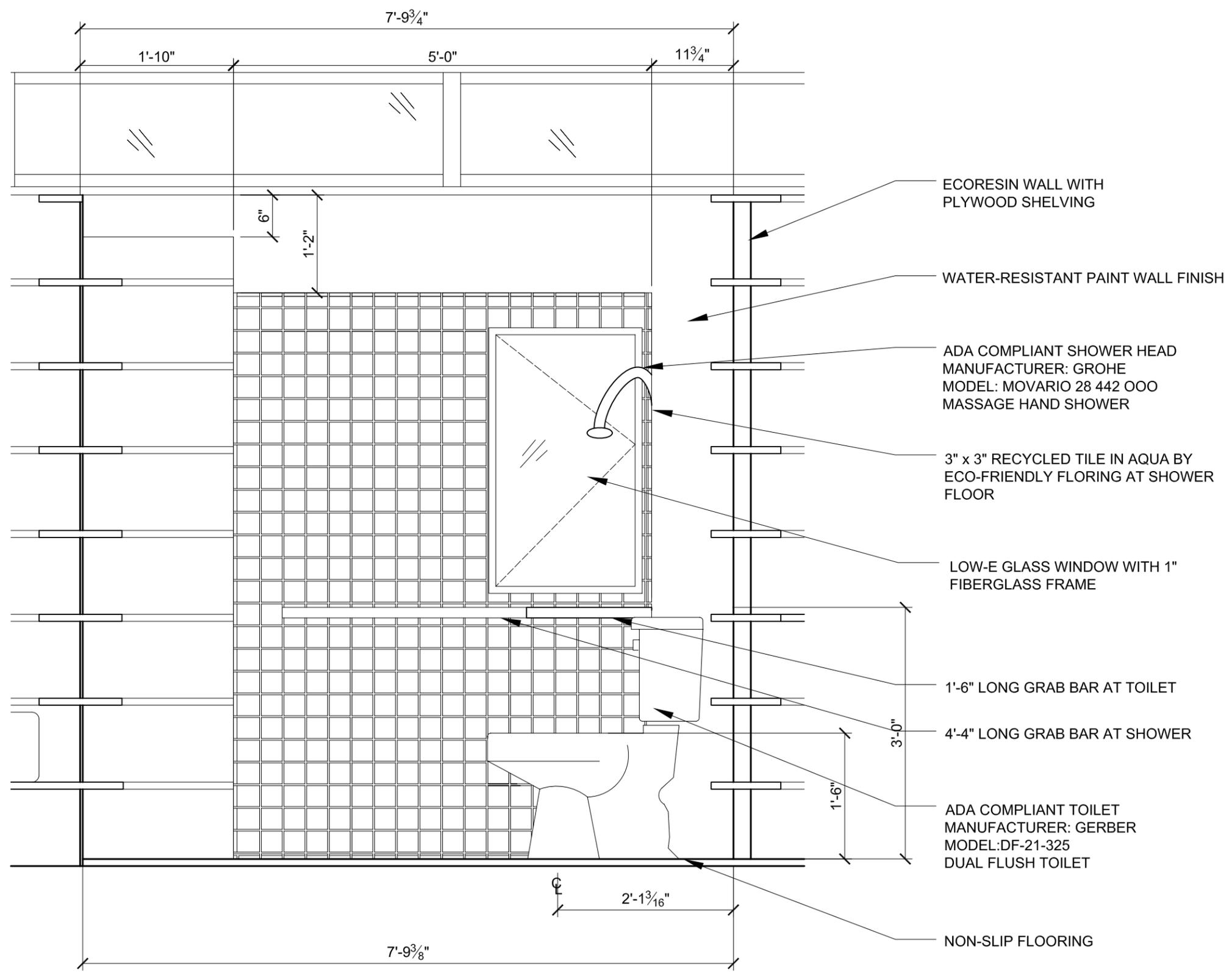


scale: **3/4" : 1' 0"**

BATHROOM - PLAN

1 BATHROOM PLAN
 A.10.20





8'-0" TOP OF SILL

0'-0" TOP OF FINISHED FLOOR

- ECORESIN WALL WITH PLYWOOD SHELVING
- WATER-RESISTANT PAINT WALL FINISH
- ADA COMPLIANT SHOWER HEAD
MANUFACTURER: GROHE
MODEL: MOVARIO 28 442 000
MASSAGE HAND SHOWER
- 3" x 3" RECYCLED TILE IN AQUA BY
ECO-FRIENDLY FLOORING AT SHOWER
FLOOR
- LOW-E GLASS WINDOW WITH 1"
FIBERGLASS FRAME
- 1'-6" LONG GRAB BAR AT TOILET
- 4'-4" LONG GRAB BAR AT SHOWER
- ADA COMPLIANT TOILET
MANUFACTURER: GERBER
MODEL:DF-21-325
DUAL FLUSH TOILET
- NON-SLIP FLOORING

revision	description	date

consultants:

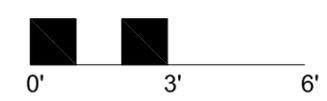


prepared by:
Sarah Shelley
date drawn:
12.6.06



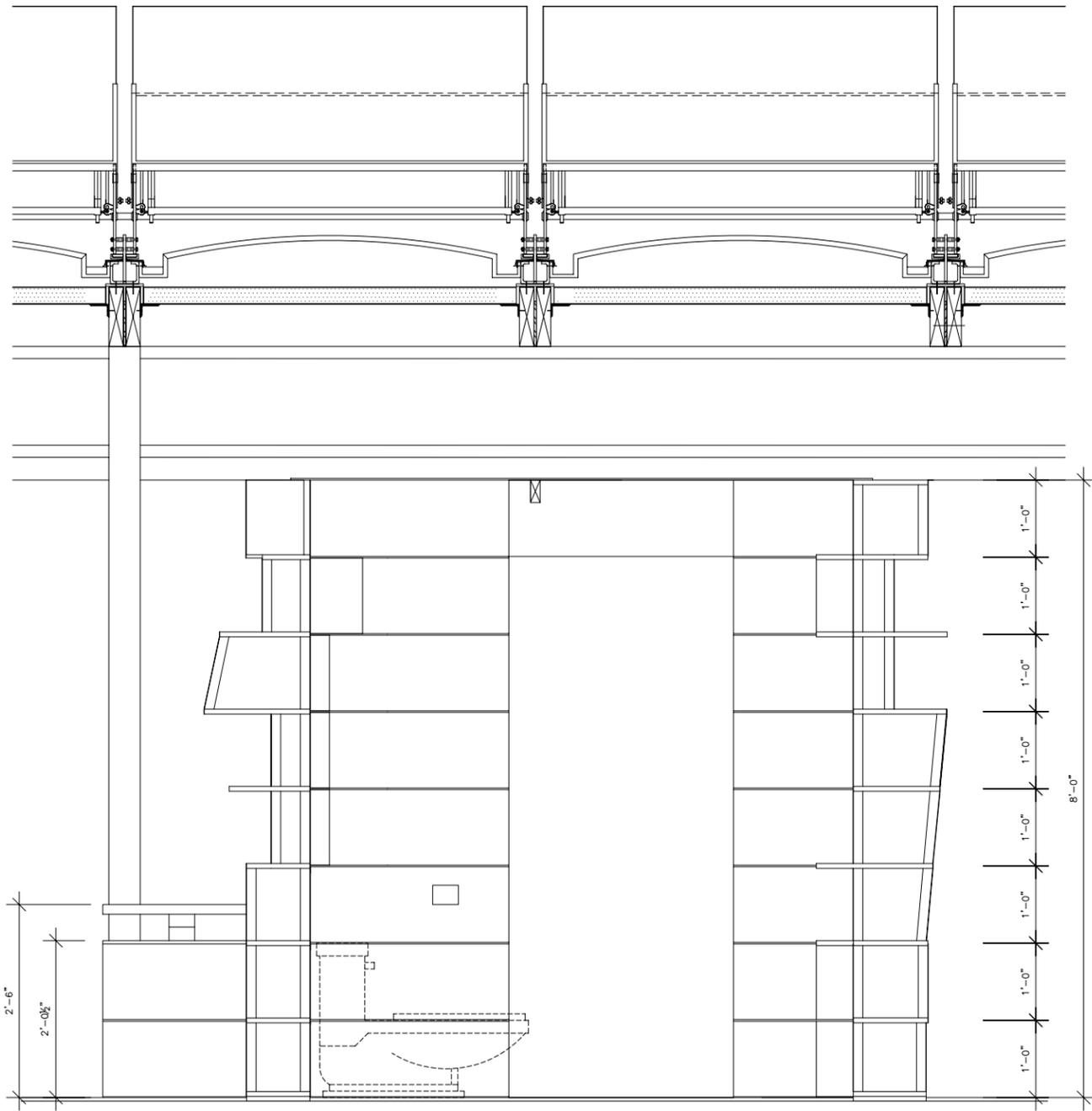
scale: **3/4" : 1' 0"**

1 BATHROOM ELEVATION
A.10.21



BATHROOM - INTERIOR ELEVATIONS - NORTH

A.10.21



A1 ELEVATION - WC SOUTH WALL
A.10.22

revision	description	date

consultants:

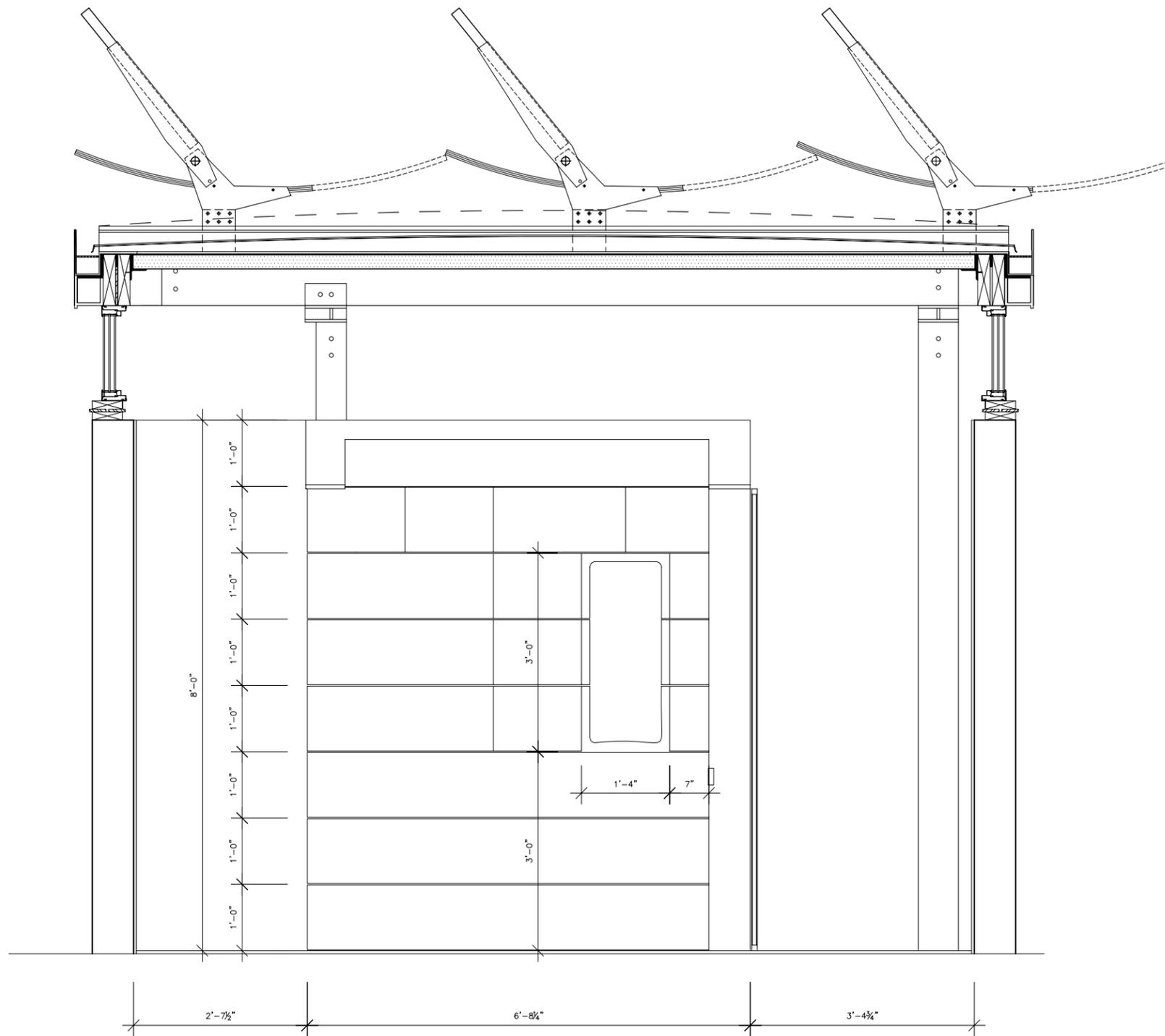
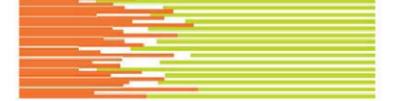


prepared by:
V. Deo
date drawn:
07.29.07

scale: 1/2" = 1'-0"

DIGITAL FABRICATED INTERIORS

A.10.22



revision	description	date

consultants:



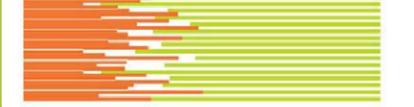
prepared by:
Joe Jamgochian
 date drawn:
05.29.07

scale: 1/2" = 1'-0"

DIGITAL FABRICATED INTERIORS

A.10.23

A1 ELEVATION - WC EAST WALL
 A.10.23



date	description	revision

PRODUCT	MANUFACTURER	PACKING (in pieces)	QUANTITY
Mirror, 2' x 4'		1	1
Mirror holder, for frameless mirrors: chrome polished	HAFELE	25	1 set
Pull out towel rack: chrome polished	HAFELE	1 set	1 set
Recessed pull handles: 3.5", pure white	HAFELE	25	1
Toilet compartment grab bar: 54", pre white	HAFELE	1	1
Shower grab rail (2 sided): 37.5", pure white	HAFELE	1	1
Shower Grab Rail with Hand Shower Holder (2 sided): pure white	HAFELE	1	1
Side support rail with friction/ rotation controlled toilet roll holder, pure white	HAFELE	1	1
Lift up supprt rail: 35.5", pure white	HAFELE	1	1
*Toilet roll holder for lift up support	HAFELE	1	1
Wall mounted seat with armrests, light grey and pure white	HAFELE	1	1
Towel bar: with flange: 35.5", pure white	HAFELE	1	2
Walking aid and hook rail: pure white	HAFELE	1	2
Soap dish, pure white	HAFELE	1	1
Tumbler with holder, pure white	HAFELE	1	1
Accessory container, opaque white	HAFELE	1	1
*Holder for accessory container, pure white	HAFELE	1	1
Toilet Brush Unit, pure white	HAFELE	1 set	1 set
Adjustable mirror, grip bar at right, pure white	HAFELE	1	1
Lever handle with tubular passage latch: 2.75 x 1.75", pure white	HAFELE	1 set	1 set
Door stop, jet black	HAFELE	1	5

consultants:



prepared by:
Sarah Shelley

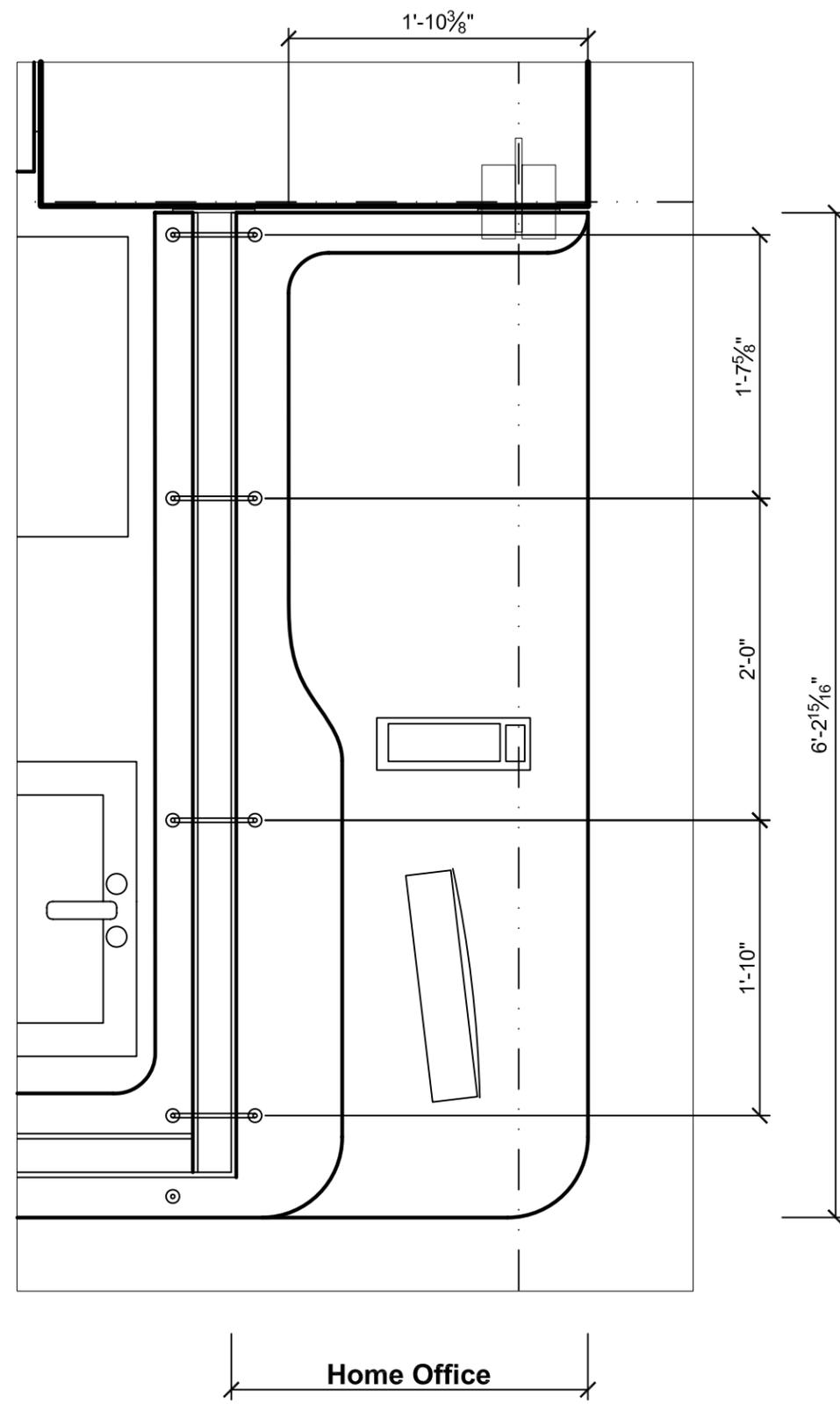
date drawn:
12.6.06



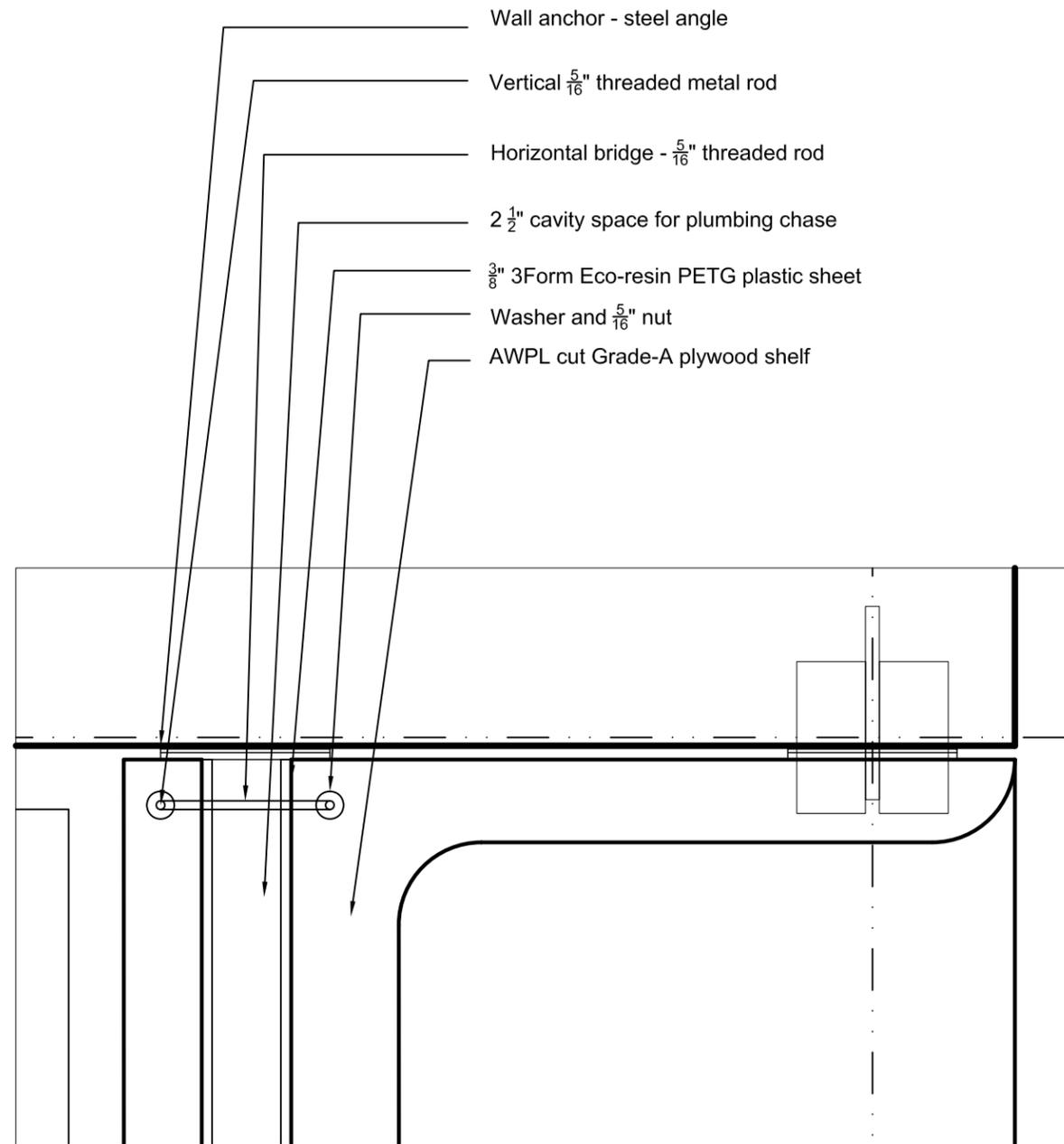
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BATHROOM HARDWARE SCHEDULE

A.10.27



A1 HOME OFFICE - PLAN
A.10.30 SCALE: 1" : 1' 0"



A2 HOME OFFICE - PLAN DETAIL
A.10.30 SCALE: 2" : 1' 0"

revision	description	date

consultants:



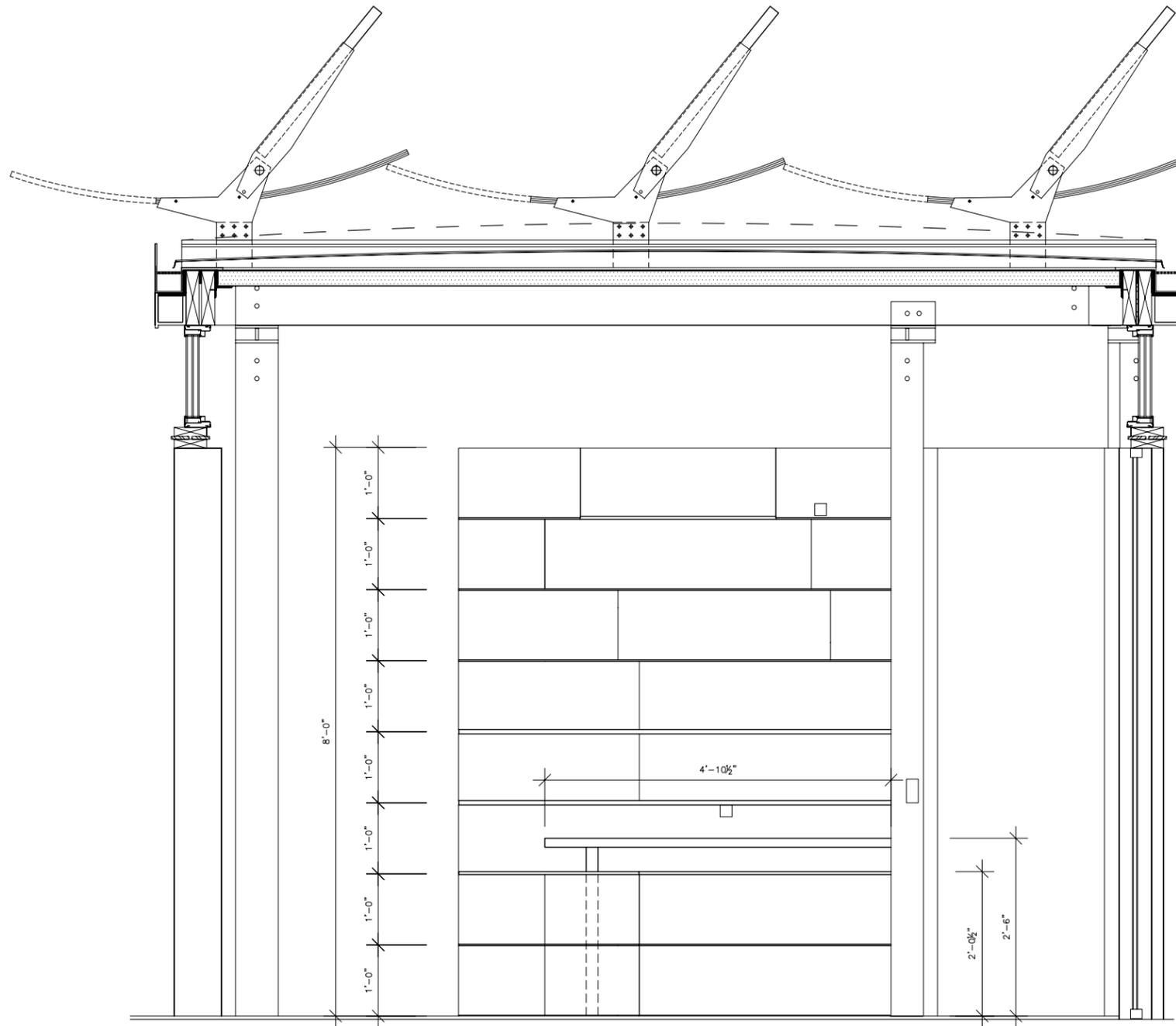
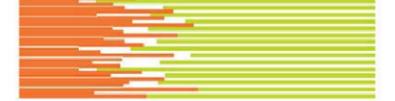
prepared by: **Kevin Short**
date drawn: **12.03.06**



scale: **as shown**

HOME OFFICE - PLAN

A.10.30



A1 HOME OFFICE - ELEVATION
A.10.31

revision	description	date

consultants:
|
|
|
|

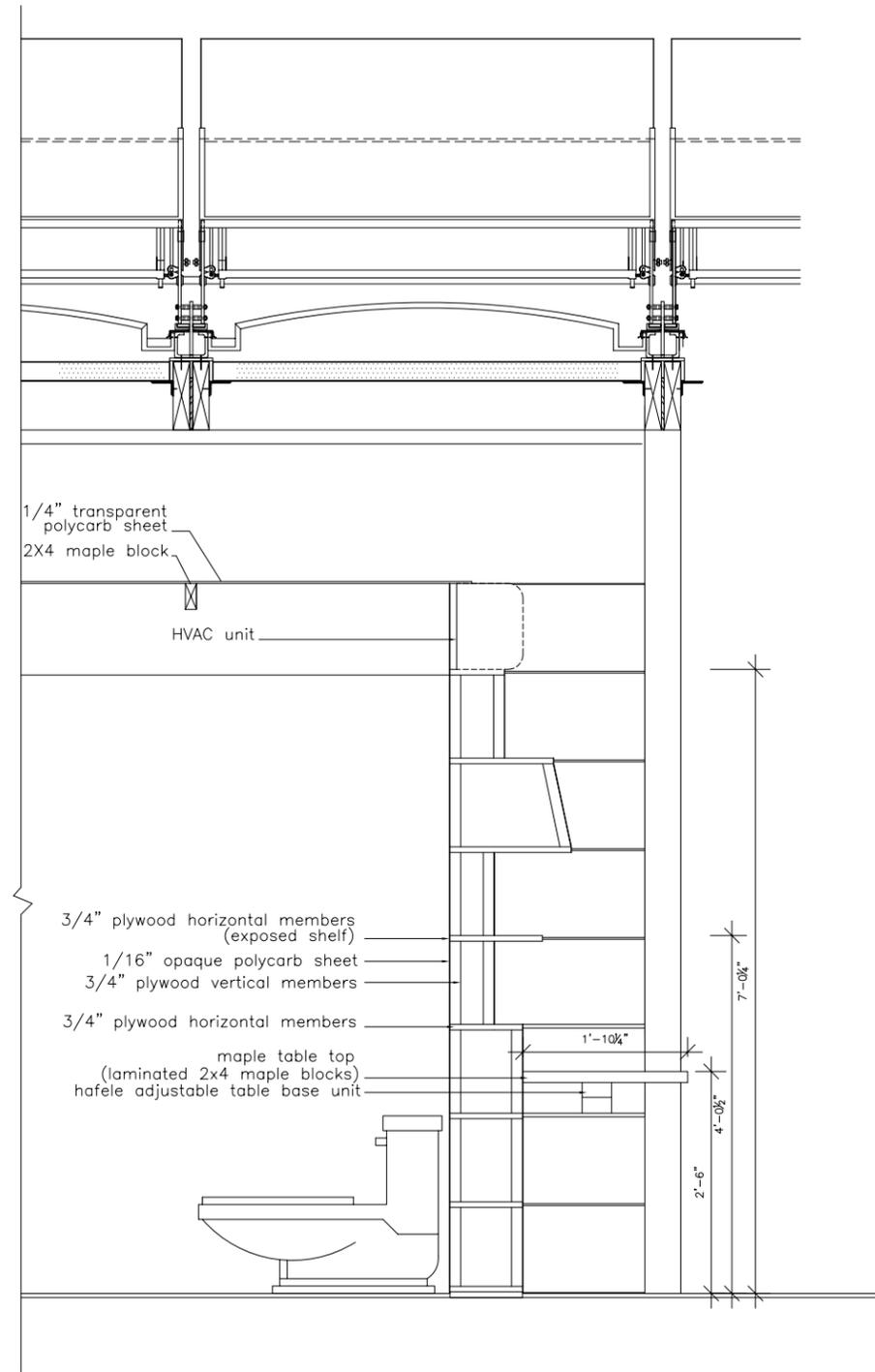
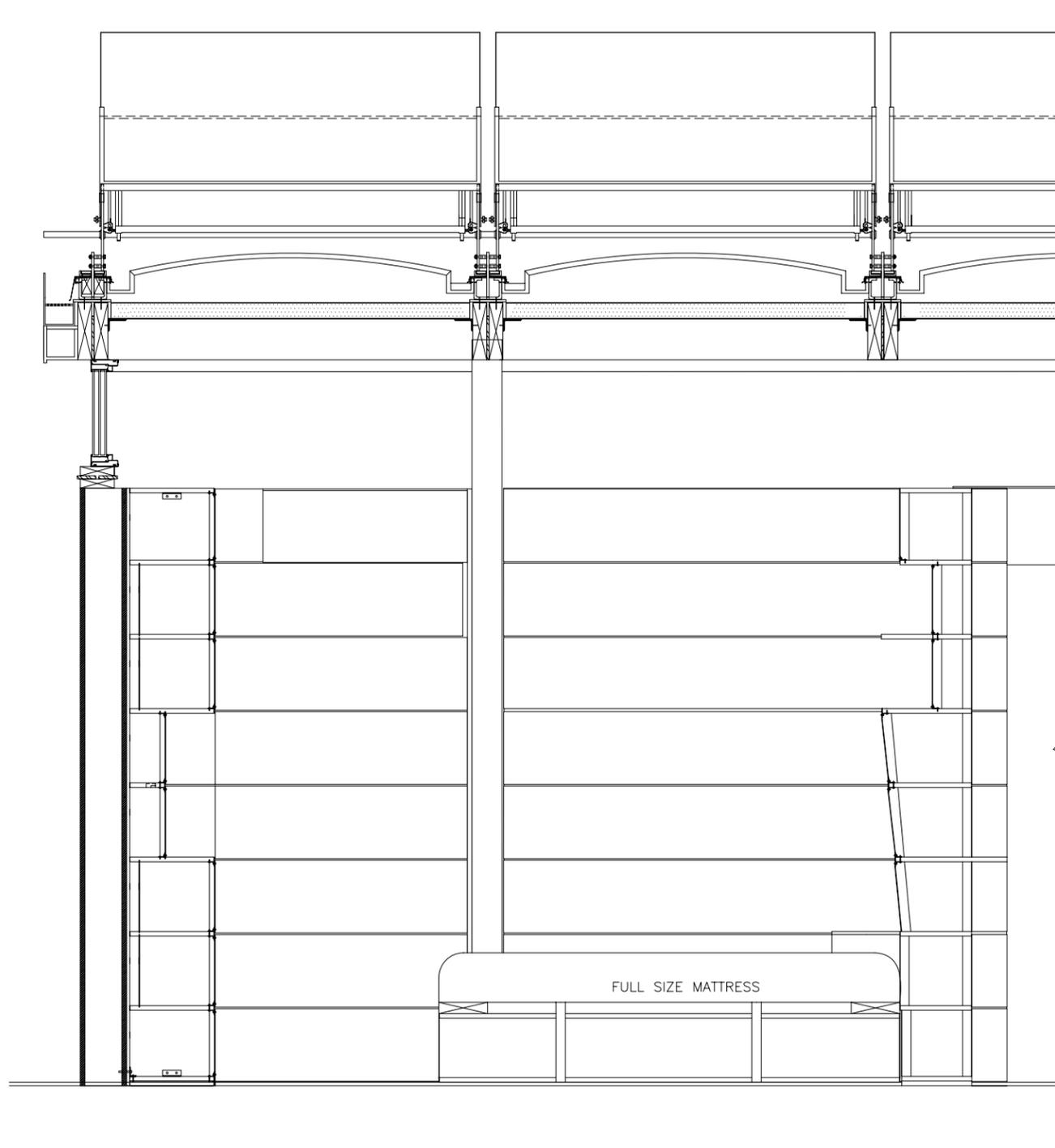
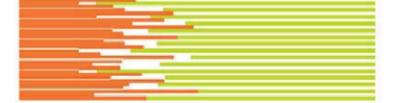


prepared by:
V. Deo
date drawn:
07.29.07

scale: 1/2" = 1'-0"

DIGITAL FABRICATED INTERIORS

A.10.31



revision	description	date

consultants:



prepared by:
V. Deo & L. Ong
date drawn:
07.29.07

scale: 1/2" = 1'-0"

DIGITAL FABRICATED INTERIORS

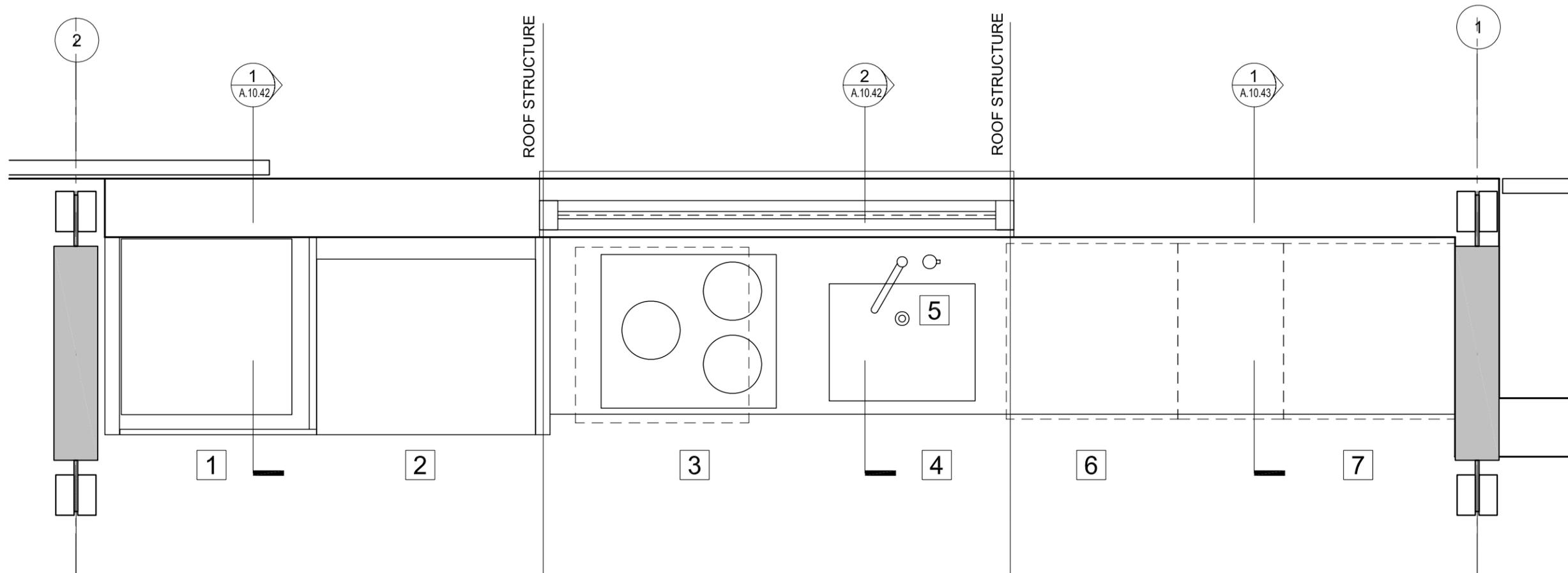
A1 SECTION - HOME OFFICE / WC - EAST WALL

A.10.32

A.10.32



#	APPLIANCE/ FIXTURE	MANUFACTURER	MODEL	DIMENSIONS	NOTES
1	FRONT LOADING WASHER/ DRYER UNIT	LG	WD3274RHD	33.5" X 23.625 " X 24.25"	
2	BOTTOM- FREEZER REFRIGERATOR	LIEBHERR	CI 1601	84.25" X 30 " X 23.83"	
3	FLAT SURFACE ELECTRIC INDUCTION COOKTOP	DIVA DE PROVENCE	DDP-3	2.25" X 23.56 " X 21"	
4	DROP IN SINK	ELKAY	LRAD 2219	22" X 19.5 " X 5.5"	
5	PULL-OUT SPRAY FAUCET	GROHE	ALIRA 32 999	9.12" X 7.12 " X 5.19"	
6	DISHWASHER: DISH DRAWER	FISHER AND PAYKEL	DS603FC- SINGLE	16.09" X 23.44 " X 22.44"	
7	MICROWAVE OVEN	MIELE	H4080BM	17.94" X 23.62 " X 22.12"	

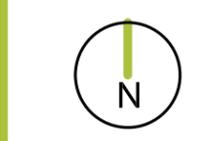


date	description	revision

consultants:



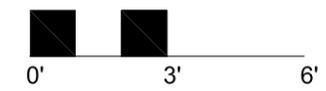
prepared by:
Jodi Bell- Quinn
 date drawn:
12.6.06



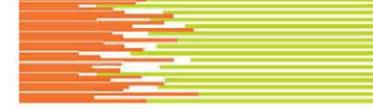
scale: **3/4" : 1' 0"**

KITCHEN - PLAN

1 KITCHEN - PLAN
 A.10.40



A.10.40



CONCEALED PIVOT DOOR TO ENCLOSE WASHER/ DRYER CLOSET

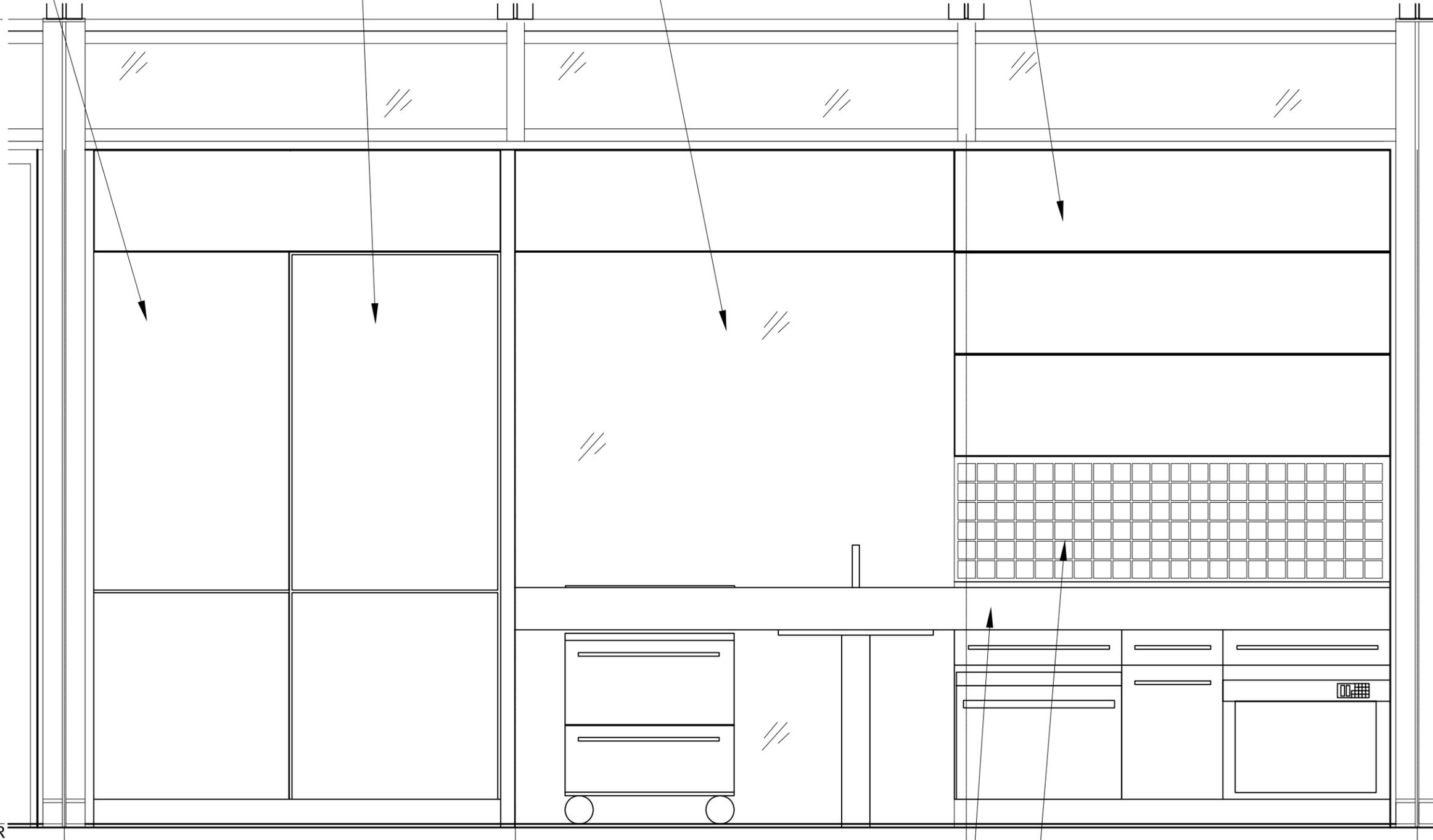
WOOD PANELING ON REFRIGERATOR TO MATCH CABINETRY

LOW-E GLASS WINDOW WITH FIBERGLASS FRAME

KIREI BOARD FINISHING ON ALL CABINETRY

8'-0" TOP OF SILL

0'-0" TOP OF FINISHED FLOOR



revision	description	date

consultants:



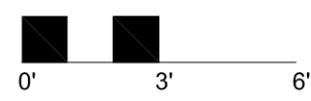
prepared by:
Jodi Bell-Quinn
date drawn:
12.6.06



scale: 3/4" : 1' 0"

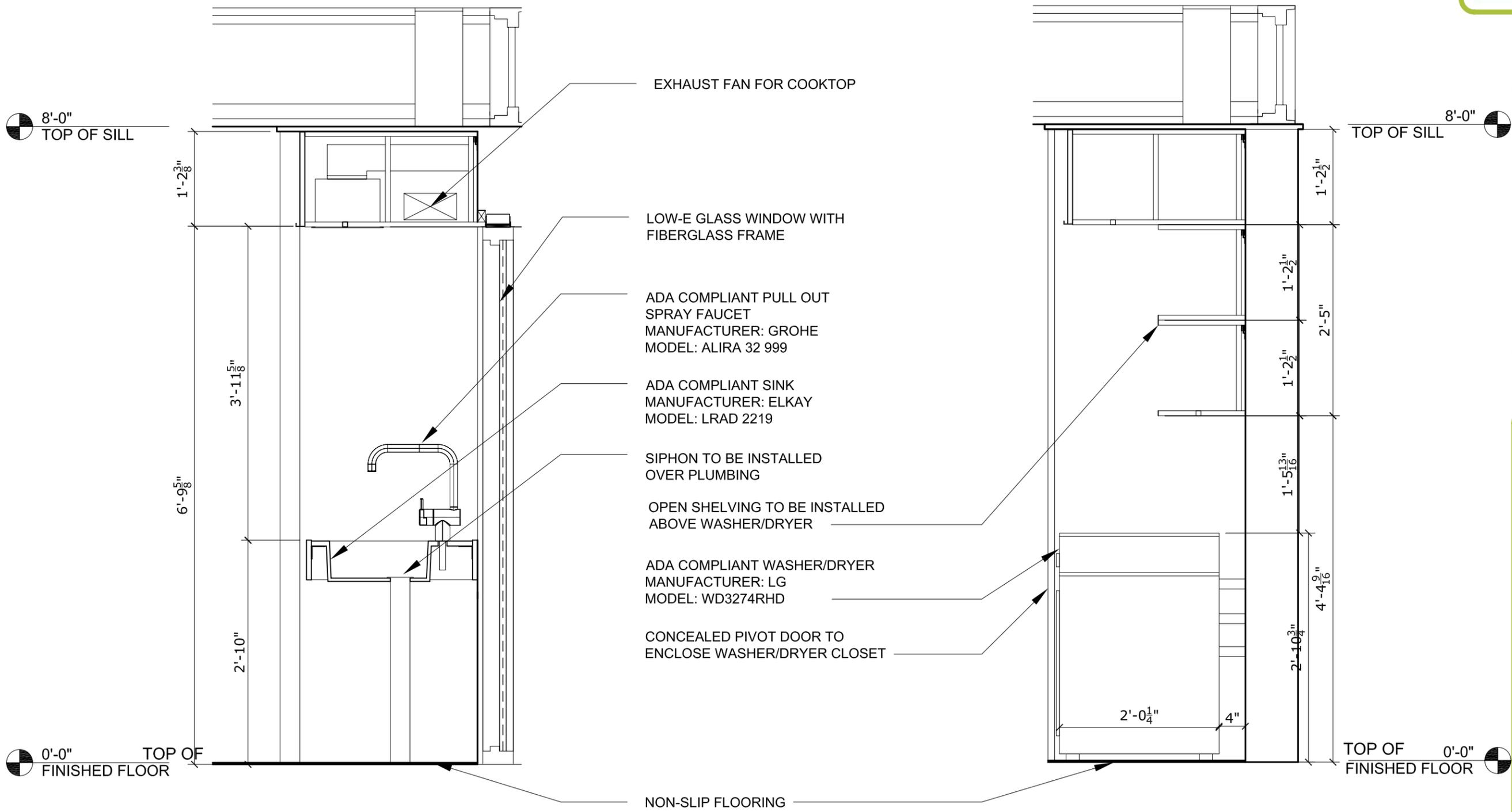
INTERIOR ELEVATION - KITCHEN

1 KITCHEN - ELEVATION
A.10.41



3" X 3" RECYCLED METAL TILE BACKSPLASH BY ECO FRIENDLY FLOORING
6" VETRAZZO COUNTERTOP

A.10.41



revision	description	date

consultants:



prepared by:
Jodi Bell-Quinn

date drawn:
12.6.06



scale: **3/4" : 1' 0"**

KITCHEN - SECTIONS

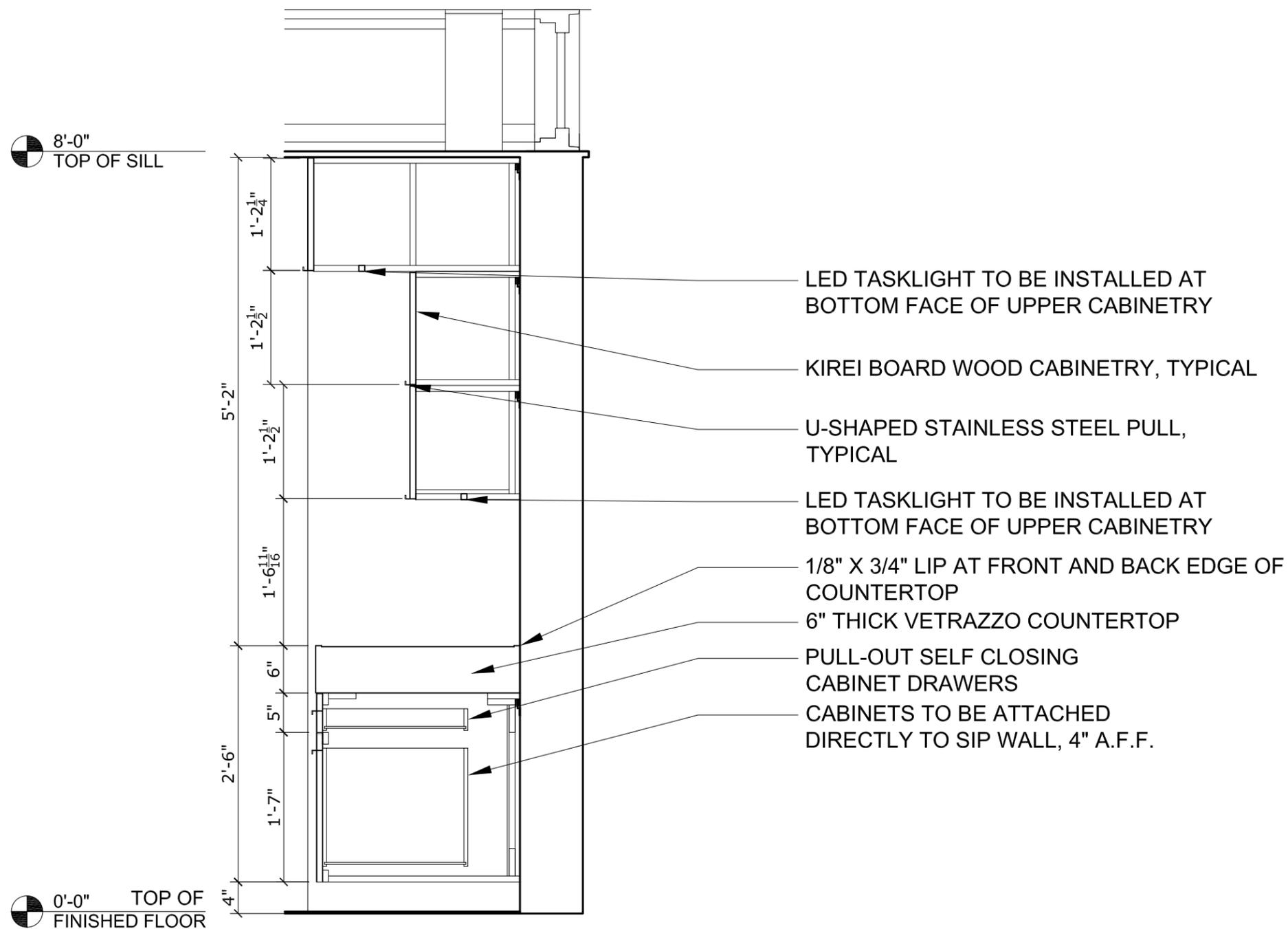
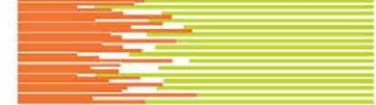
2 KITCHEN - SECTION
A.10.42 AT SINK

0' 3' 6'

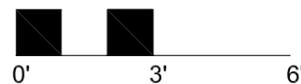
1 KITCHEN - SECTION
A.10.42 AT WASHER/ DRYER

0' 3' 6'

A.10.42



1 KITCHEN - SECTION
A.10.43 AT CABINETS



revision	description	date

consultants:



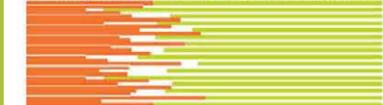
prepared by:
Jodi Bell-Quinn
date drawn:
12.6.06



scale: **3/4" : 1' 0"**

KITCHEN CABINET DETAILS

A.10.43



date			
description			
revision			

consultants:



prepared by:
Sarah Shelley
date drawn:
12.6.06



scale: **NTS**

A.10.44

KITCHEN HARDWARE SCHEDULE

QUANTITY	PRODUCT	MANUFACTURER	PACKING (in pieces)
1 set of 10	stainless steel and zinc handles: 1'-0"	HAFELE	10 and 25
1 set	Solo 32 clip connector	HAFELE	100
1 set	Cabinet connector: black	HAFELE	100
1 set	Metal shelf supports: nickel plated	HAFELE	2000
1 set	Magnetic catch: black	HAFELE	50
1 set	*Screws for magnetic catch strike (2): flat head: #5 x 3/4"	HAFELE	
1 set	*Screws for magnetic catch (2): pan head: #5 x 3/4"	HAFELE	
1 set	Connecting Brackets: 14 gauge: zinc-plated	HAFELE	500
1 set	Conaxi joint connector fitting: with black trim caps	HAFELE	10 sets
1 set	*Screws (variata) for conaxi joint connector fitting: 13.5mm long	HAFELE	500
1 set	Concealed Hinges: Full Overlay: nickel plated matt	HAFELE	250
1 set	*Screws for concealed hinges: raised flat head #6 x 3/4"	HAFELE	1000
1 set	*Mounting plates for concealed hinges: face frame: 1/2" overlay	HAFELE	250
1 set	**Screws for mounting plates for concealed hinges: raised flat head #8 x 3/4"	HAFELE	1000
1 set	Pivot Hinges: press fit: 140 degree opening: black	HAFELE	200 pairs
1 set	*Screws for pivot hinges: flat head: #6 x 3/4"	HAFELE	1000
12 (4 per door)	Sliding glass door fitting: runner housing profile: aluminum	HAFELE	1
2	Sliding glass door fitting: double top guide track: aluminum	HAFELE	1
1 set	Sliding glass door fitting: runner: with plain end cap	HAFELE	10
1 set	Sliding glass door fitting: double bottom running track: aluminum	HAFELE	1
1 set	Sliding glass door fitting: spacer bracket (to aid in silicone application): black	HAFELE	2 or 10
1 set	Sliding glass door fitting: buffer: rubber	HAFELE	1 or 10
1 set	Sliding glass door fitting: glass retaining profile	HAFELE	1
1 set	Sliding glass door fitting: rubber strip: for .315" glass	HAFELE	1
1 set	Epoxy slide with fold-down bracket: black	HAFELE	15 pairs
1 set	*Screws for epoxy slides: undercut flathead: #7 X3/4"	HAFELE	1000
1 set	*Screws for epoxy slides: varianta: #5 X 5/8"	HAFELE	500
1	2 tier base cabinet oull out system: min. width = 4 1/2": chrome plated	HAFELE	1
1	Pull out door mounted waste bin: double waste bin: euro cargo 45, grey	HAFELE	1
4	Base plate kitchen drawer organizer: 21" x 24": beech	HAFELE	1
8 sets	*Triangle post to fit into base plate: beech	HAFELE	4
1 set	*Utensil divider, press-fit, short to fit into base plate: beech	HAFELE	1 set
1 set	*Knife holder set, press-fit to fit into base plate: beech	HAFELE	1 set
2	Kitchen rail system: tubular rail: 59" long: stainless steel, matt	HAFELE	1
1	*Mixer holder for kitchen rail system: chrome plated matt	HAFELE	1
1	*Cutting board holder for kitchen rail system: chrome plated matt	HAFELE	1
1	*Paper towel holder for kitchen rail system: chrome plated matt	HAFELE	1
2 set	*S hooks for kitchen rail system: nickel plated matt	HAFELE	4
1	*Spice rack for kitchen rail system: s hook attached: chrome plated matt	HAFELE	1
1	*Multi purpose shelf for kitchen rail system: s hook attached: chrome plated matt	HAFELE	1
2	Metal pull out storage rack (for inside cabinets): 21 7/8" width, 19 1/4" depth: chrome plated	HAFELE	2

date	
revision	
description	

consultants:



prepared by:
Sarah Shelley
date drawn:
12.6.06

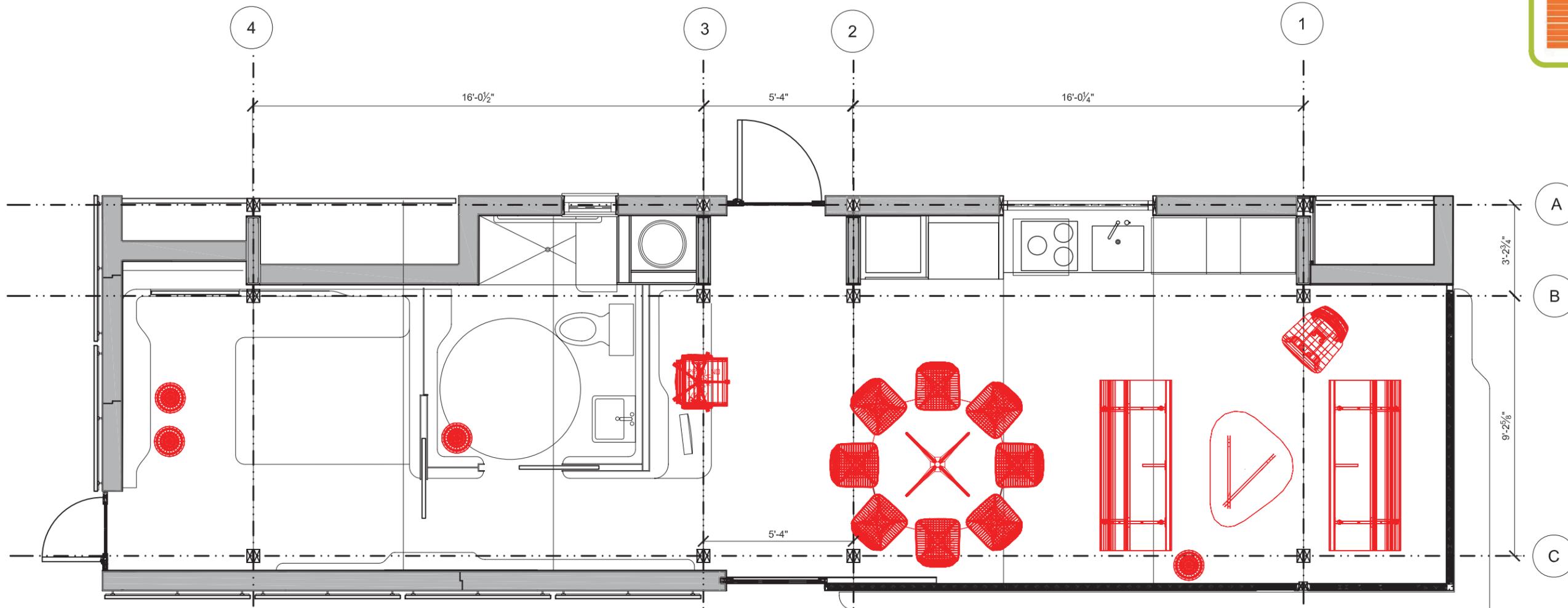


scale: **NTS**

KITCHEN AND BATHROOM EQUIPMENT LIST

A.10.45

QUANTITY	PRODUCT	MANUFACTURER	BUILT-IN	DIMENSIONS (H x W X D)	LOCATION	NOTES
1	REFRIGERATOR	LIEBHERR	Y	84.25" x 30" x 23.83"	KITCHEN	
1	WASHER/DRYER	LG	Y	33.5" x 23.625" x 24.25"	KITCHEN	
1	COOKTOP	DIVA DE PROVENCE	Y	2.25" x 23.56" x 21"	KITCHEN	
1	EXHAUST FAN		Y		KITCHEN	
1	SINK		Y	22.25" x 20.25" x 5.5"	KITCHEN	
1	FAUCET		Y		KITCHEN	
1	DISHWASHER	FISHER & PAYKEL	Y	16.09" x 23.44" x 22.44"	KITCHEN	
1	MICROWAVE OVEN	MIELE	Y	17.94" x 23.62" x 22.12"	KITCHEN	
1	COFFEE MAKER		N		KITCHEN	
1	BLENDER		N		KITCHEN	
1	LAVATORY		Y		BATHROOM	
1	FAUCET		Y		BATHROOM	
1	WASH CLOSET		Y		BATHROOM	
1	SHOWER		Y	30" x 60"	BATHROOM	
1	SHOWER HEAD		Y		BATHROOM	
1	TELEVISION		N		LIVING ROOM	
1	DVD PLAYER		N		LIVING ROOM	
1	SPEAKER SYSTEM		Y		LIVING ROOM	
1	COMPUTER		N		OFFICE	
1	ALL-IN-ONE HOME OFFICE UNIT		N		OFFICE	
1	SPEAKER SYSTEM		N		OFFICE	



Item	Manufacturer	Model Number	Size	Qty	Location
Eames Sofa Compact	Herman Miller		72.5"w x 30"d x 35"h	2	Living Room
Noguchi Coffee Table	Herman Miller		50"w x 36"d x 15.75"h	1	Living Room
Eames Walnut Stools	Herman Miller		13.25" dia. X 15"h	1	Living Room
Eames Molded Plywood Lounge Chair	Herman Miller		22"w x 24.25"d x 26.5"h	1	Living Room
Eames Table (white)	Herman Miller		60" dia. X 30"	1	Dining Area
Eames Eiffel Tower Wire Chair with Bikini Pad	Herman Miller		19"w x 21.25"d x 32.75"h	8	Dining Area
Eames Aluminum Management Chair	Herman Miller		23"w x 17"d x 32.75"h	1	Office Area
Leaf Personal Light	Herman Miller			1	Office Area
Eames Walnut Stools	Herman Miller		13.25" dia. X 15"h	2	Bedroom
Leaf Personal Light	Herman Miller			2	Bedroom
Eames Walnut Stools	Herman Miller		13.25" dia. X 15"h	1	Bathroom

date

revision	description

consultants:



prepared by:
JODI BELL-QUINN
date drawn:
01.29.07



scale: **1/4" = 1'-0"**

FURNITURE PLAN + SCHEDULE

revision	description	date

consultants:



prepared by:
Sarah Shelley
 date drawn:
12.6.06



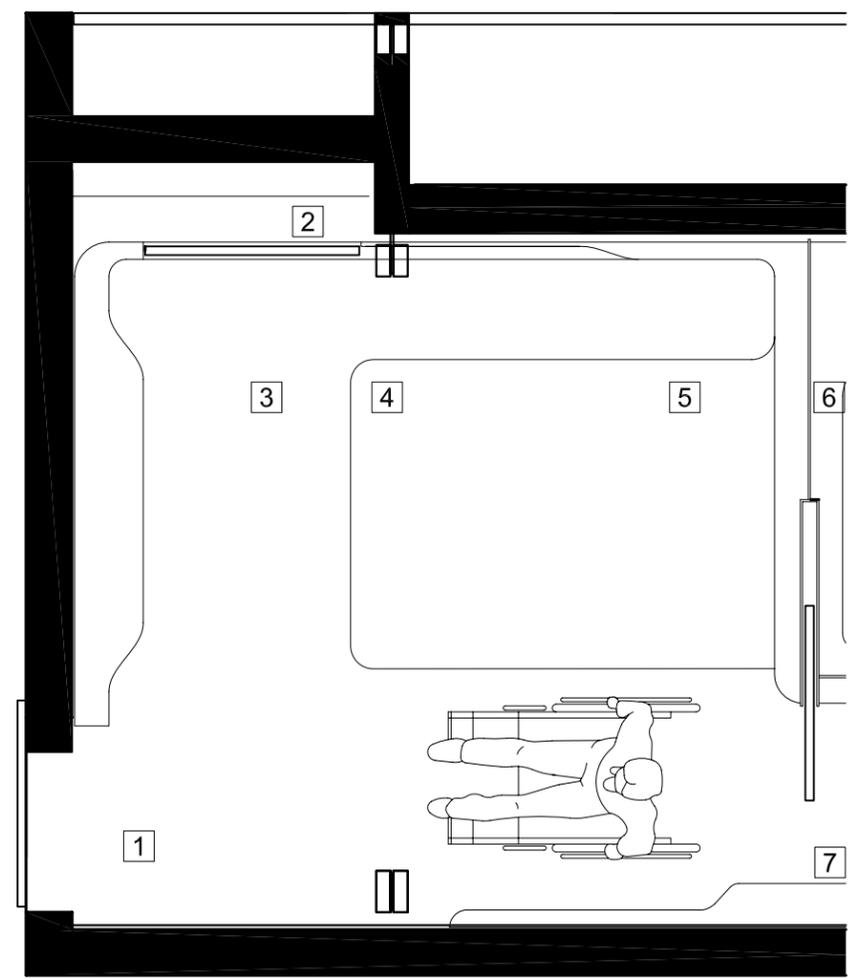
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FINISH SCHEDULE

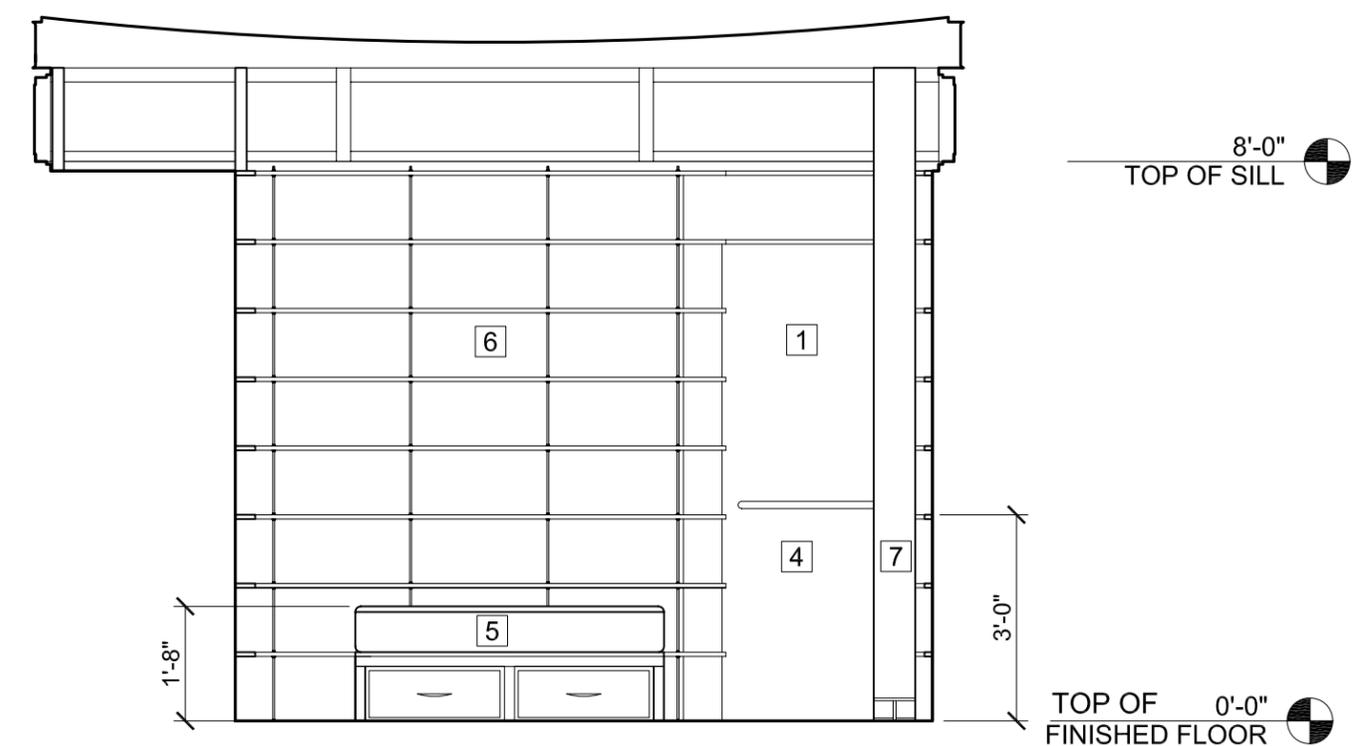
A.10.47

ABBR.	FINISH TYPE	LOCATION	NOTES
FF_	FLOOR FINISH		
FF_1	CORK	THROUGHOUT INTERIOR	
FF_2	RECYCLED GLASS TILE	BATHROOM	
FF_3	RECLAIMED WOOD DECKING	EXTERIOR DECK	
WF_	WALL FINISH		
WF_1	LOW VOC PAINTED GYPSUM BOARD	THROUGHOUT INTERIOR	
WF_3	RECYCLED GLASS TILE	BATHROOM, KITCHEN	
CLG_	CEILING FINISH		
CLG_1	RECYCLED GLASS TILE	BATHROOM	
CW_	CASEWORK		
CW_1	VENEERED PLYWOOD	THROUGHOUT INTERIOR	

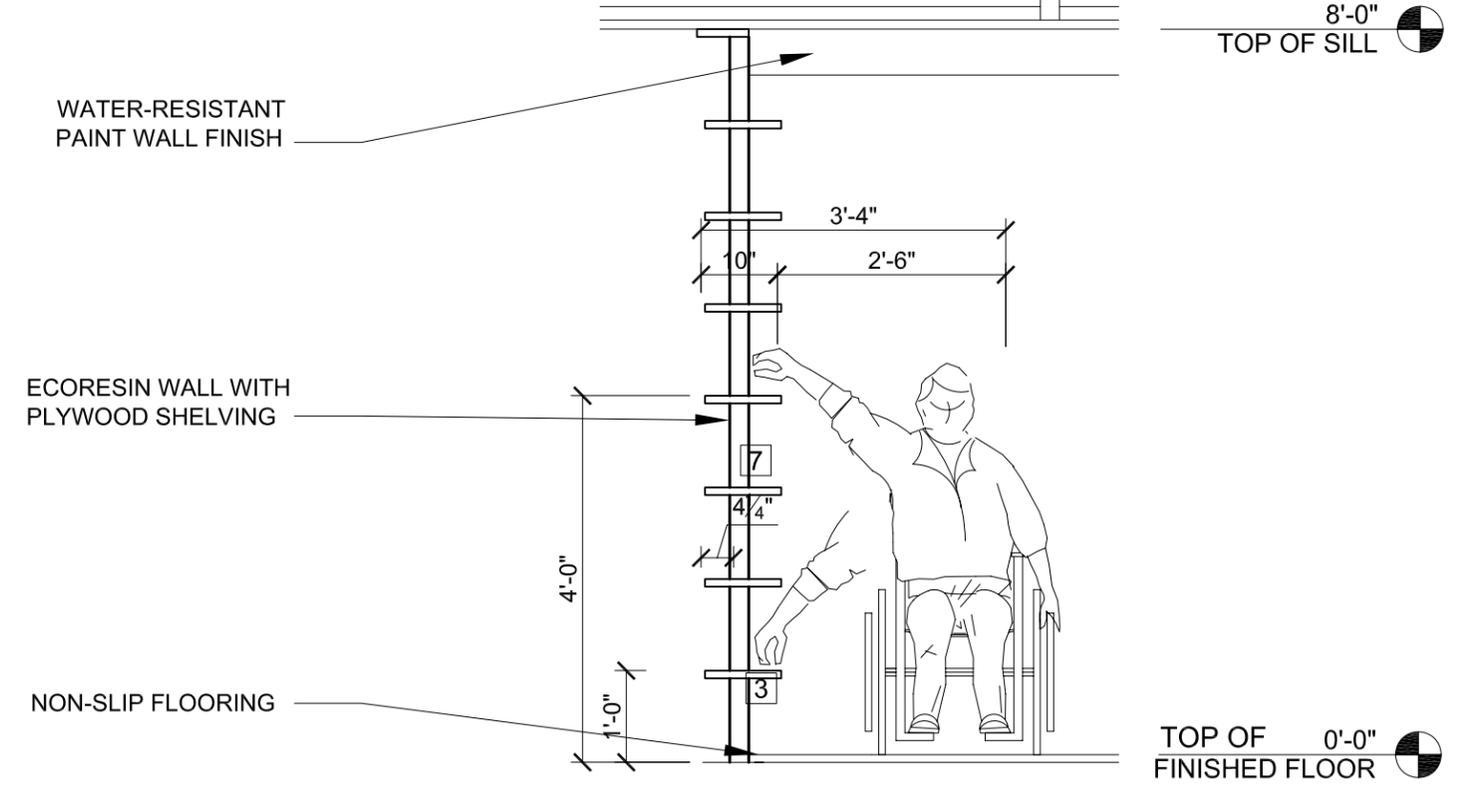
#	UNIVERSAL DESIGN FEATURE
1	2'-10" CLEAR OPENING AT ALL DOORS
2	HANDICAP ACCESSIBLE CLOSET ROD AND SHELVES
3	HANDICAP ACCESSIBLE SHLEVING BETWEEN 1'-0" AND 4'-0"
4	3'-0" WIDE ACESIBLE SPACE
5	ACCESSIBLE PLATFORM BED
6	LED NIGHTTIME LIGHTING AROUND PERIMETER
7	SHELVING AT 3'-0" HEIGHT TO SERVE AS GRAB BAR



3 ADA DESIGN INTEGRATION
A.10.50 BEDROOM PLAN



1 ADA DESIGN INTEGRATION
A.10.50 BEDROOM ELEVATION



2 ADA DESIGN INTEGRATION
A.10.50 BEDROOM SECTION

date	description	revision

consultants:



prepared by:
Sarah Shelley
date drawn:
12.6.06

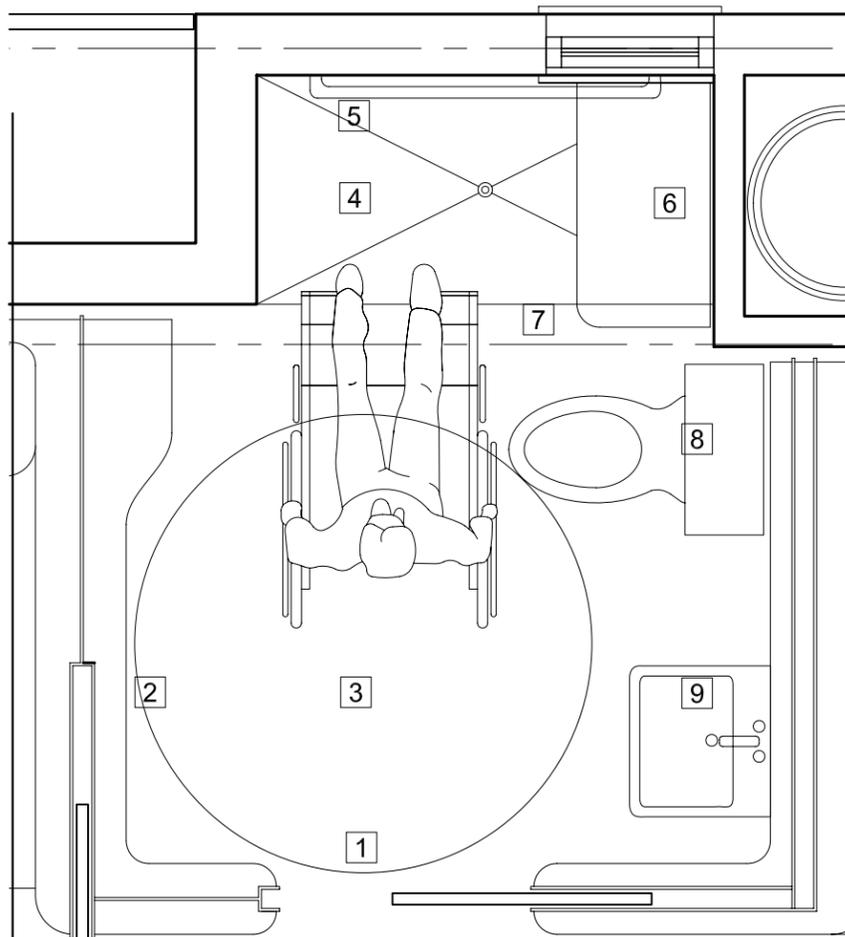


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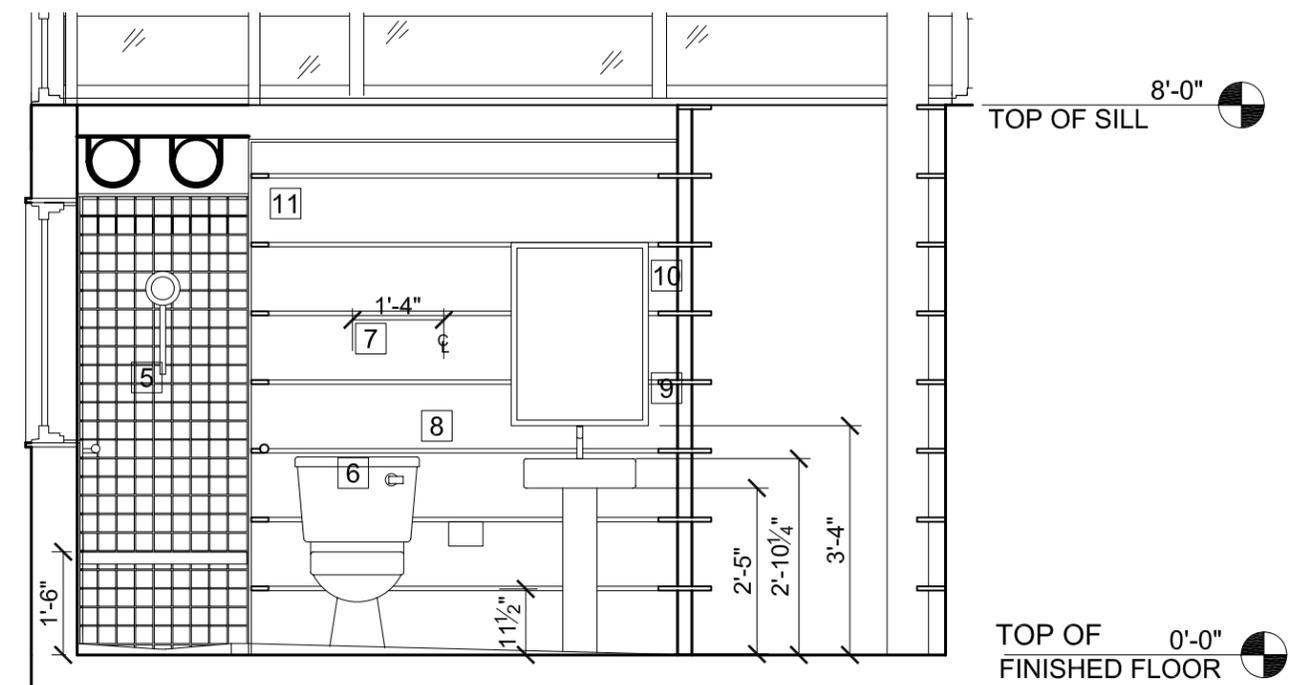
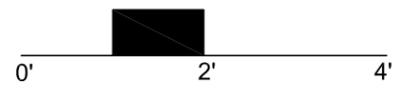
A.10.50

ADA DESIGN INTEGRATION - BEDROOM LAYOUT

#	UNIVERSAL DESIGN FEATURE
1	2'-10" CLEAR OPENING AT ALL DOORS
2	HANDICAP ACCESSIBLE SHLEVING BETWEEN 1'-0" AND 4'-0"
3	5'-0" DIA. CLEAR SPACE TO TURN
4	30" X 60" ROLL IN SHOWER
5	4'-4" LONG GRAB BAR AT SHOWER
6	FOLD DOWN SEAT AT SHOWER
7	1'-6" LONG GRAB BAR AT TOILET
8	ADA COMPLIANT TOILET
9	ADA COMPLIANT SINK AND LAVATORY
10	ADJUSTABLE-ANGLE MIRROR
11	ADA COMPLIANT SHOWER HEAD



3 ADA DESIGN INTEGRATION
A.10.51 BATHROOM PLAN



1 ADA DESIGN INTEGRATION
A.10.51 BATHROOM ELEVATION

WATER-RESISTANT PAINT WALL FINISH

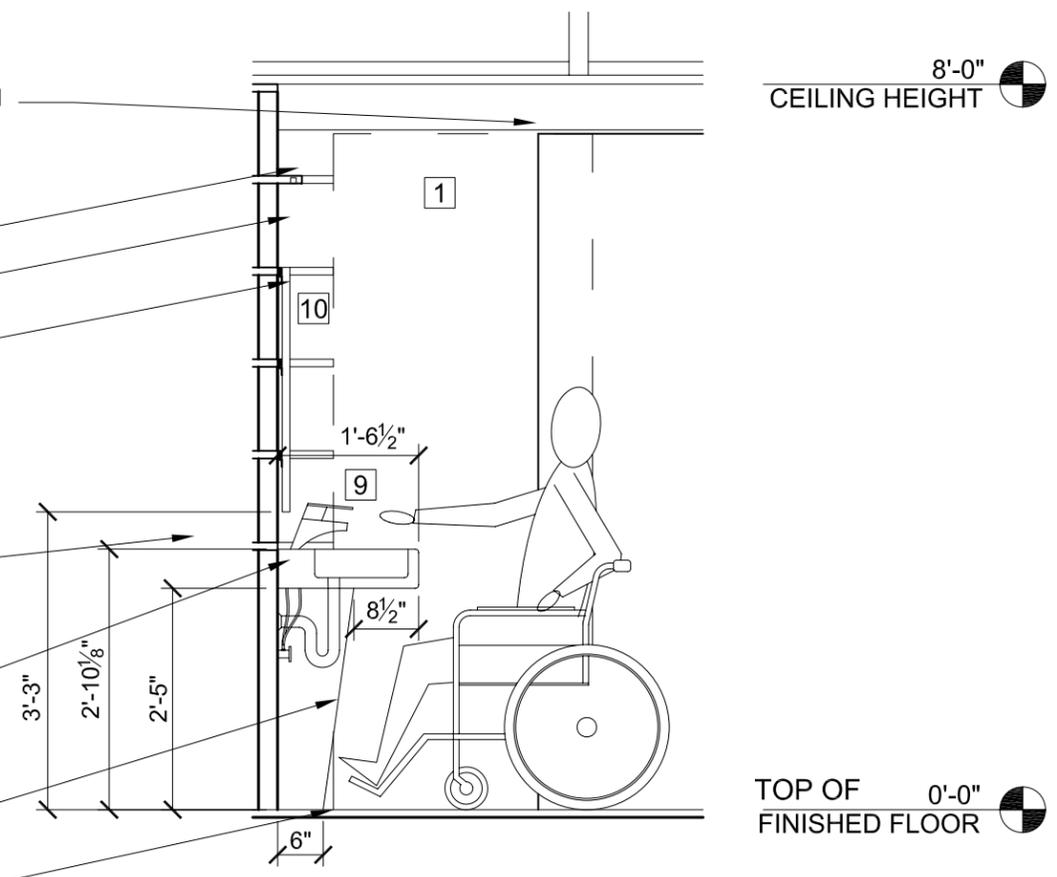
ECORESIN WALL WITH PLYWOOD SHELVING
LED DOWNLIGHT FIXTURE
MIRROR AT 40" A.F.F. INTEGRATED INTO WALL

ADA COMPLIANT LAVATORY
MANUFACTURER: GROHE
MODEL: CHIARA NEU 32 362 000
SINGLE HANDLE LAVATORY, CENTER SET

ADA COMPLIANT SINK
MANUFACTURER: DURAVIT
MODEL: VERO #045450
WALL-MOUNT WASH BASIN

ADA COMPLIANT SIPHON
MANUFACTURER: VERO
MODEL: VERO #005036

NON-SLIP FLOORING



2 ADA DESIGN INTEGRATION
A.10.51 BATHROOM ELEVATION

TOP OF SILL 8'-0"

TOP OF FINISHED FLOOR 0'-0"

CEILING HEIGHT 8'-0"

TOP OF FINISHED FLOOR 0'-0"

date	description	revision

consultants:



prepared by:
Sarah Shelley
date drawn:
12.6.06



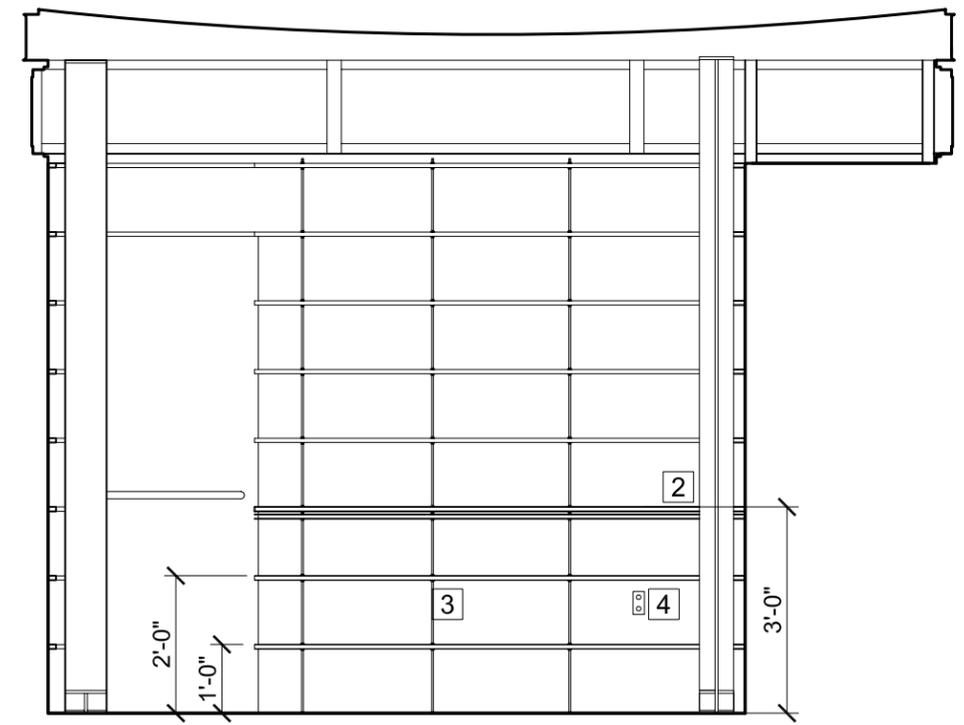
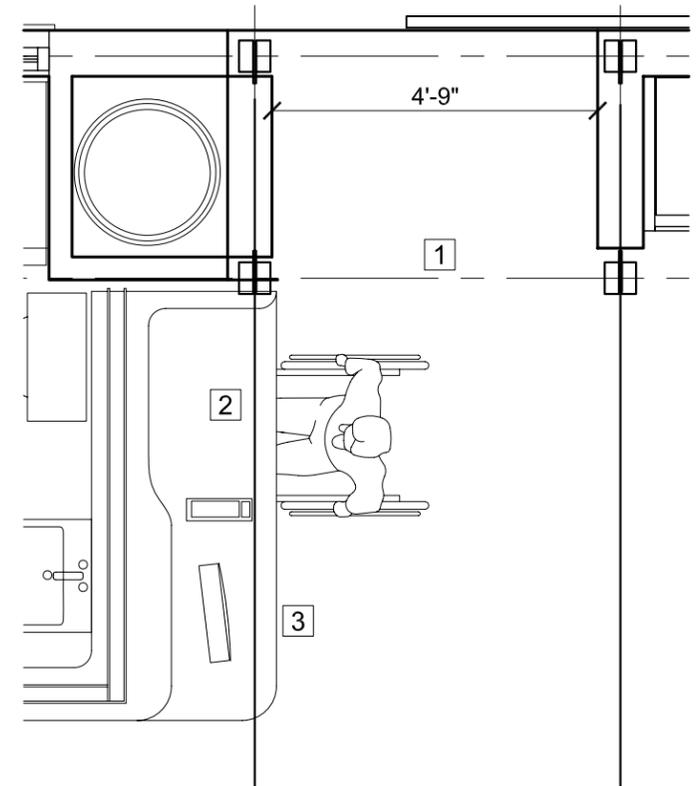
scale: as indicated

A.10.51

ADA DESIGN INTEGRATION - BATHROOM LAYOUT



#	UNIVERSAL DESIGN FEATURE
1	4'-8" EXTRA WIDE ACCESSIBLE HALLWAY
2	34" HIGH ACCESSIBLE DESK/ WORK SURFACE
3	EASY TO REACH SHELVING TO STORE OFFICE EQUIPMENT
4	OUTLETS LOCATED AT AN EASY TO REACH HEIGHT



TOP OF SILL 8'-0"

TOP OF FINISHED FLOOR 0'-0"

2 ADA DESIGN INTEGRATION
HOME OFFICE PLAN
A.10.52

1 ADA DESIGN INTEGRATION
HOME OFFICE ELEVATION
A.10.52

revision	description	date

consultants:



prepared by:
Sarah Shelley
 date drawn:
12.6.06



scale: **3/8" : 1' 0"**

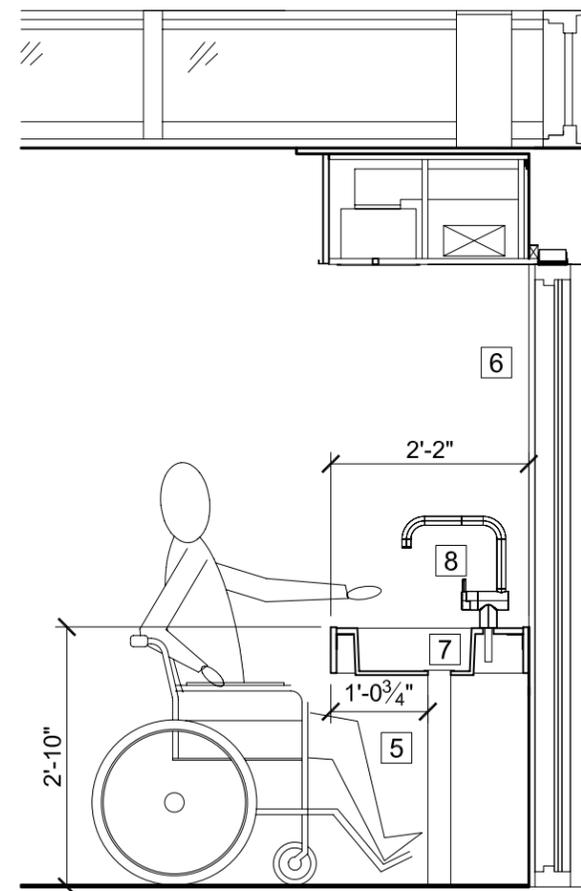
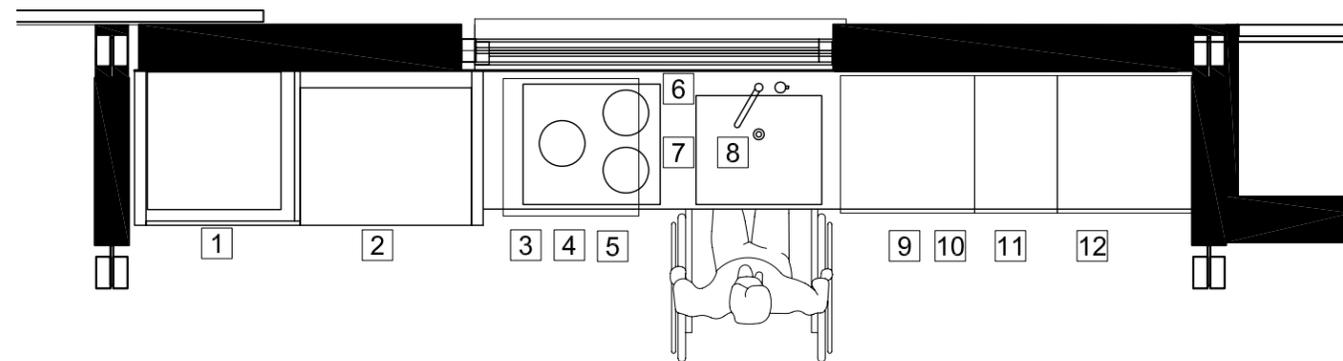
ADA DESIGN INTEGRATION - HOME OFFICE LAYOUT

A.10.52



#	UNIVERSAL DESIGN FEATURE
1	FRONT LOADING WASHER/ DRYER UNIT
2	BOTTOM- FREEZER REFRIGERATOR
3	FLAT SURFACE ELECTRIC COOKTOP
4	ROLL OUT STORAGE CART
5	OPEN SPACE BENEATH COOKTOP AND SINK
6	LARGE WINDOW TO ALLOW VIEWS FOR ALL HEIGHTS
7	34" HIGH ACCESSIBLE COUNTERTOP

#	UNIVERSAL DESIGN FEATURE
8	ADA COMPLIANT SINK AND FAUCET
9	BRIGHT LED TASKLIGHTING UNDERNEATH SHELVES
10	UNDERCOUNTER DISH DRAWER
11	PULL-OUT DRAWERS WITH U-SHAPED HANDLES
12	UNDERCOUNTER MOUNTED MICROWAVE OVEN



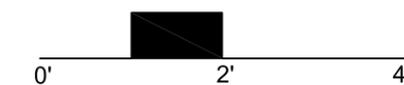
TOP OF SILL 8'-0"

TOP OF FINISHED FLOOR 0'-0"

2 ADA DESIGN INTEGRATION
A.10.53 KITCHEN PLAN



2 ADA DESIGN INTEGRATION
A.10.53 KITCHEN SECTION



revision	description	date

consultants:



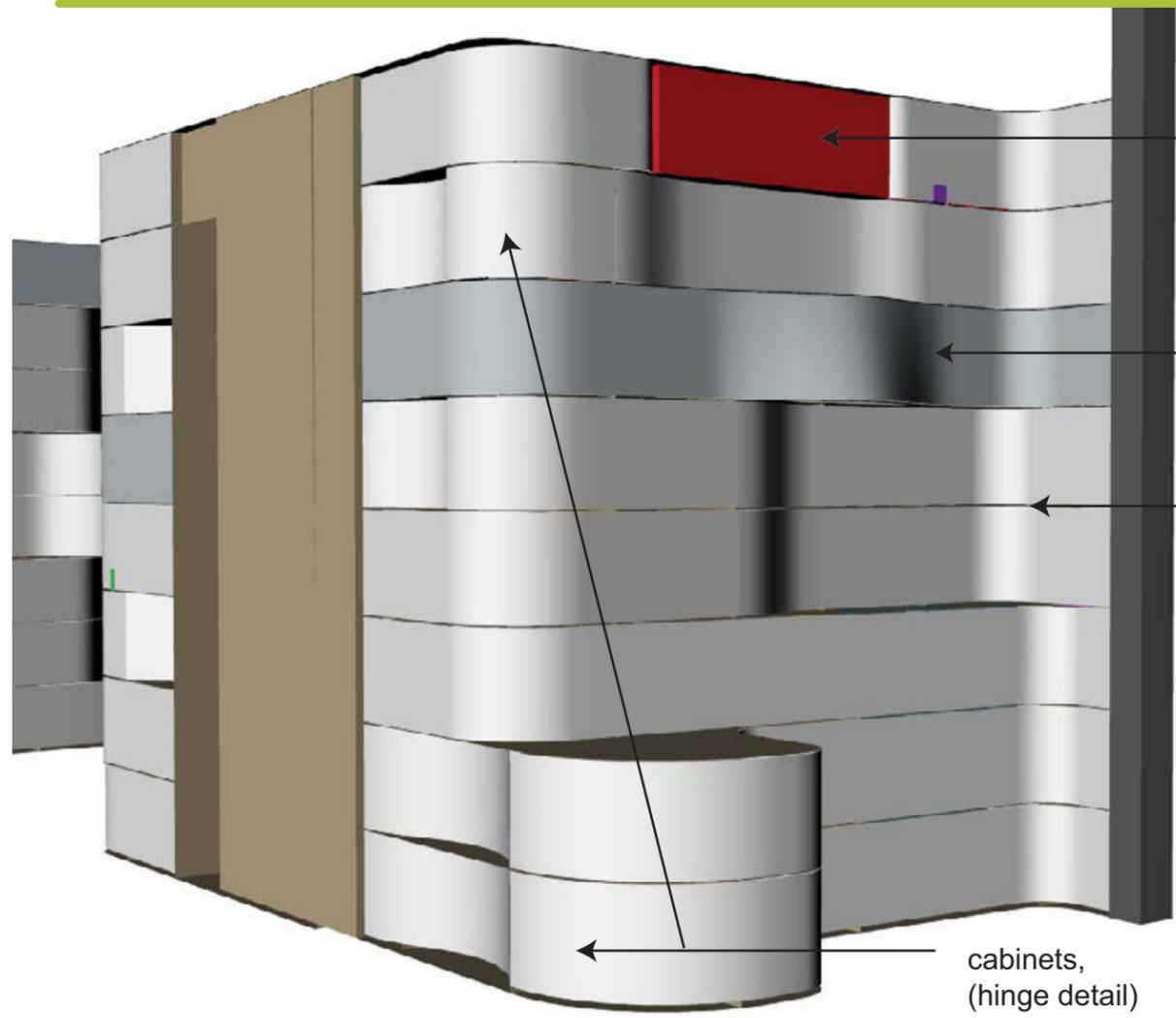
prepared by:
Sarah Shelley
date drawn:
12.6.06



scale: **as indicated**

ADA DESIGN INTEGRATION - KITCHEN LAYOUT

A.10.53



exposed HVAC system

LED light strip

shelving,
(skin detail B)

cabinets,
(hinge detail)

FUNCTION LAYOUT -
HOME-OFFICE,
LIVING ROOM WEST WALL

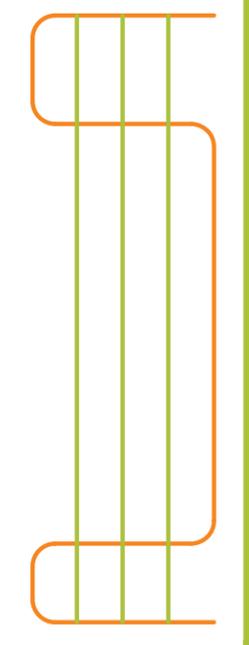
LED light strip or
florescent light fixture

FUNCTION LAYOUT -
BATHROOM WALLS



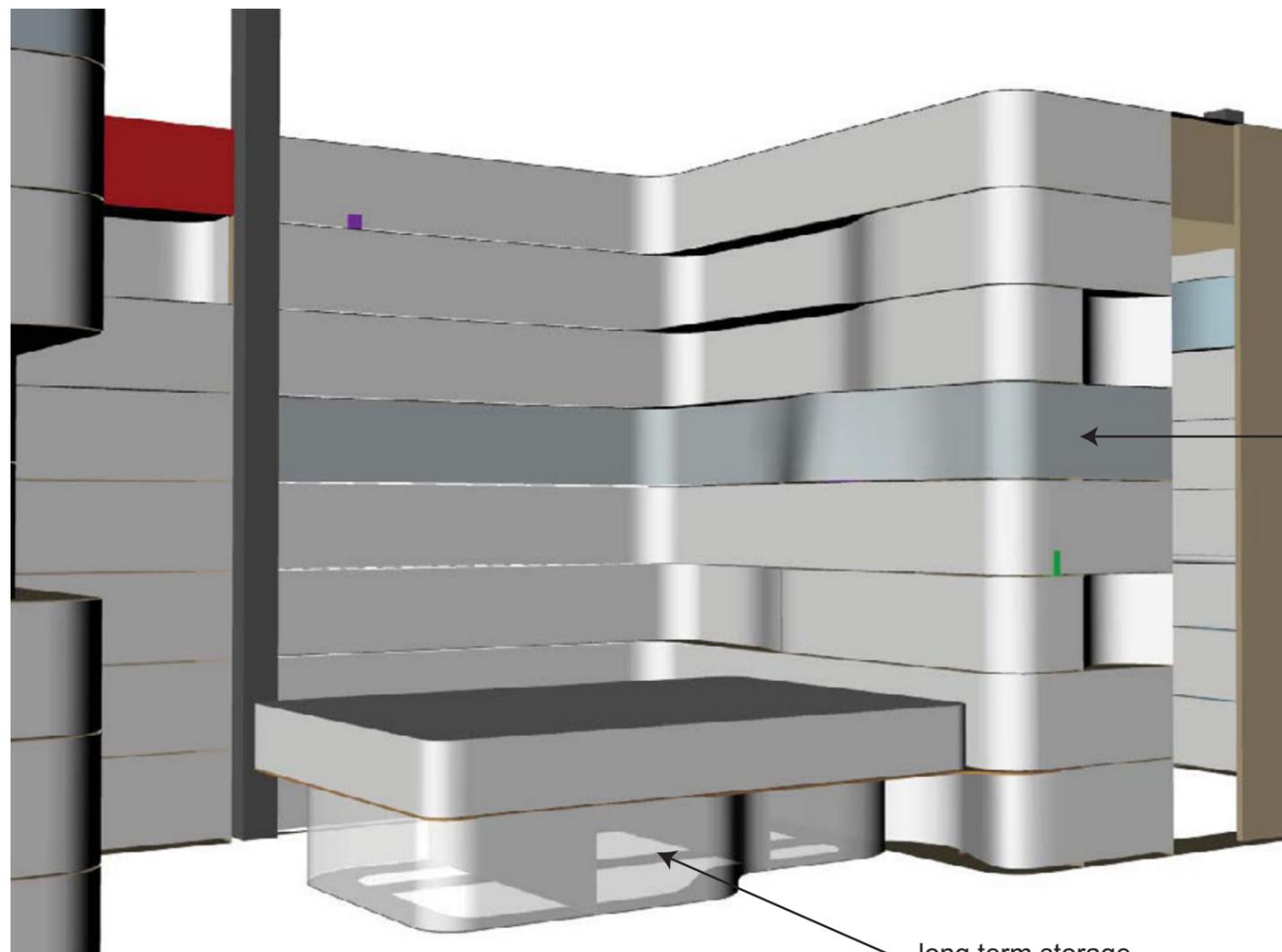
mirror + medicine cabinet,
(hinge detail, skin detail C)

cabinets,
(hinge detail)

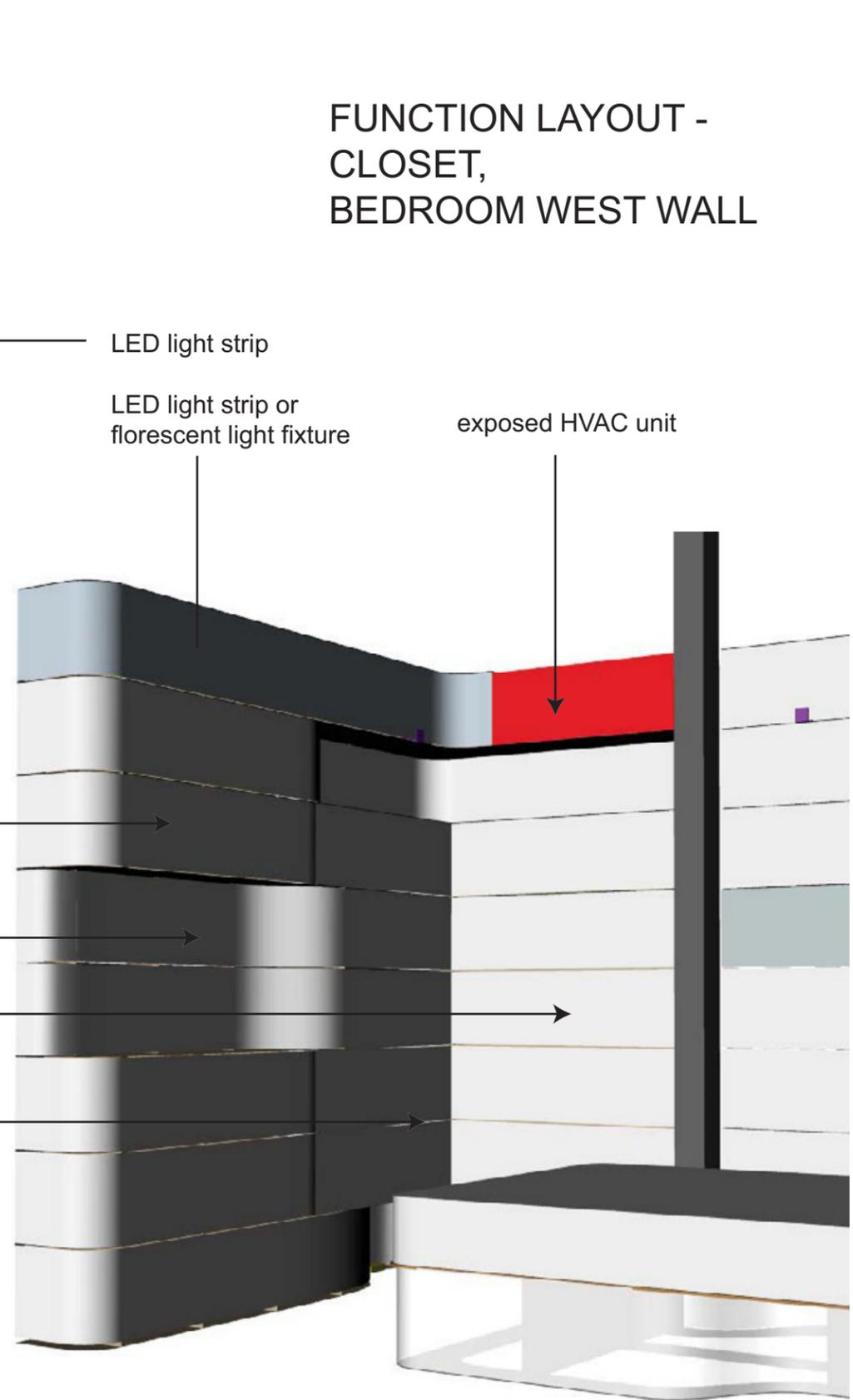


DIGITAL FABRICATED INTERIORS

D.1.0



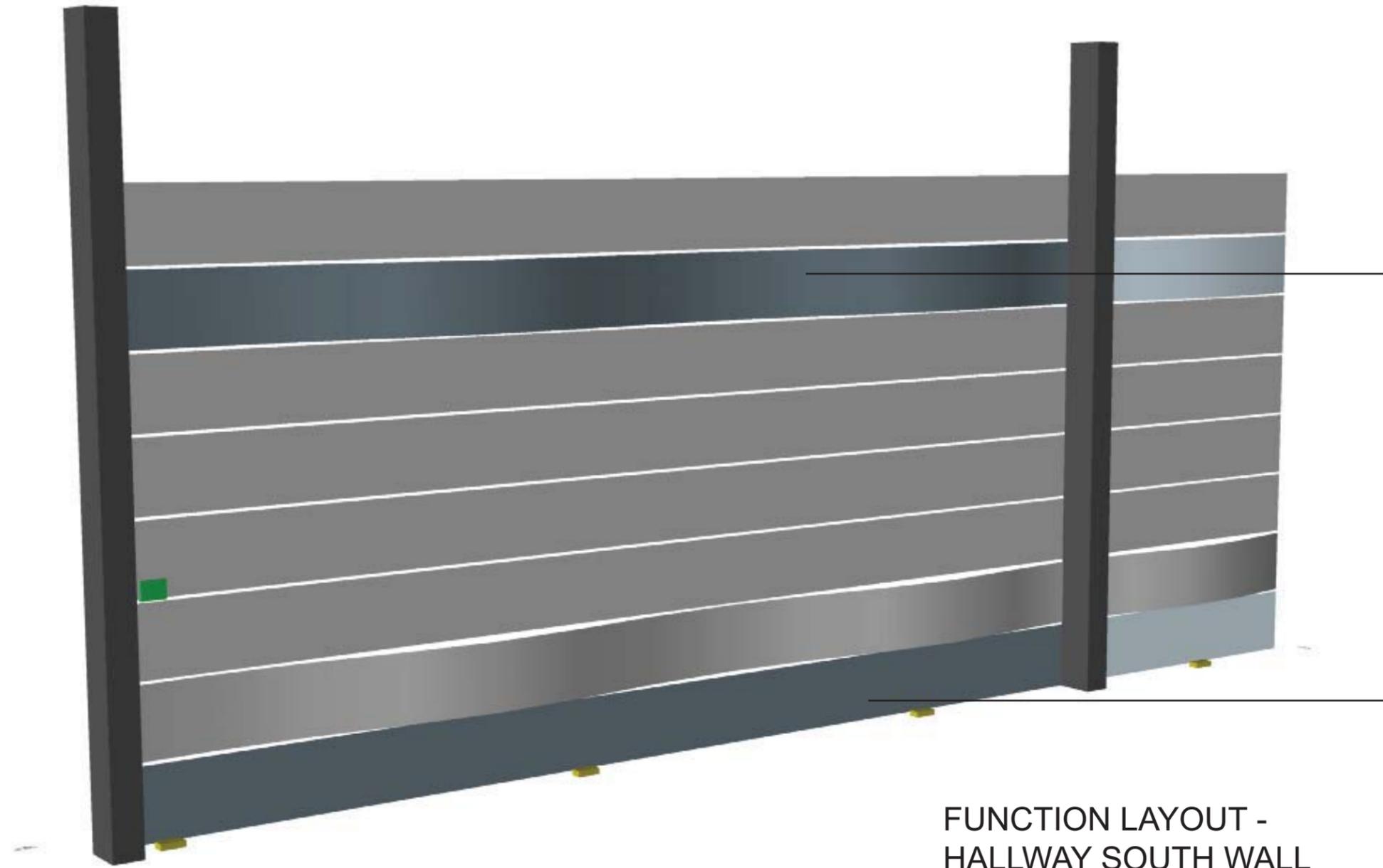
FUNCTION LAYOUT -
BEDROOM EAST WALL



FUNCTION LAYOUT -
CLOSET,
BEDROOM WEST WALL

- LED light strip
- LED light strip or
florescent light fixture
- exposed HVAC unit
- long term storage,
(hinge detail)
- provision for flat screen TV
- main closet
(hinge detail)
- shelving / drawers

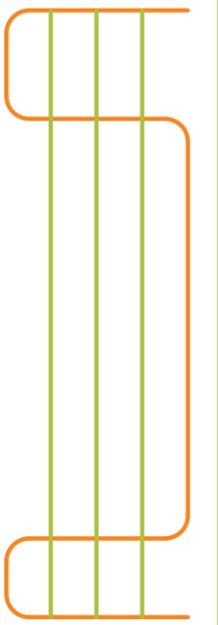


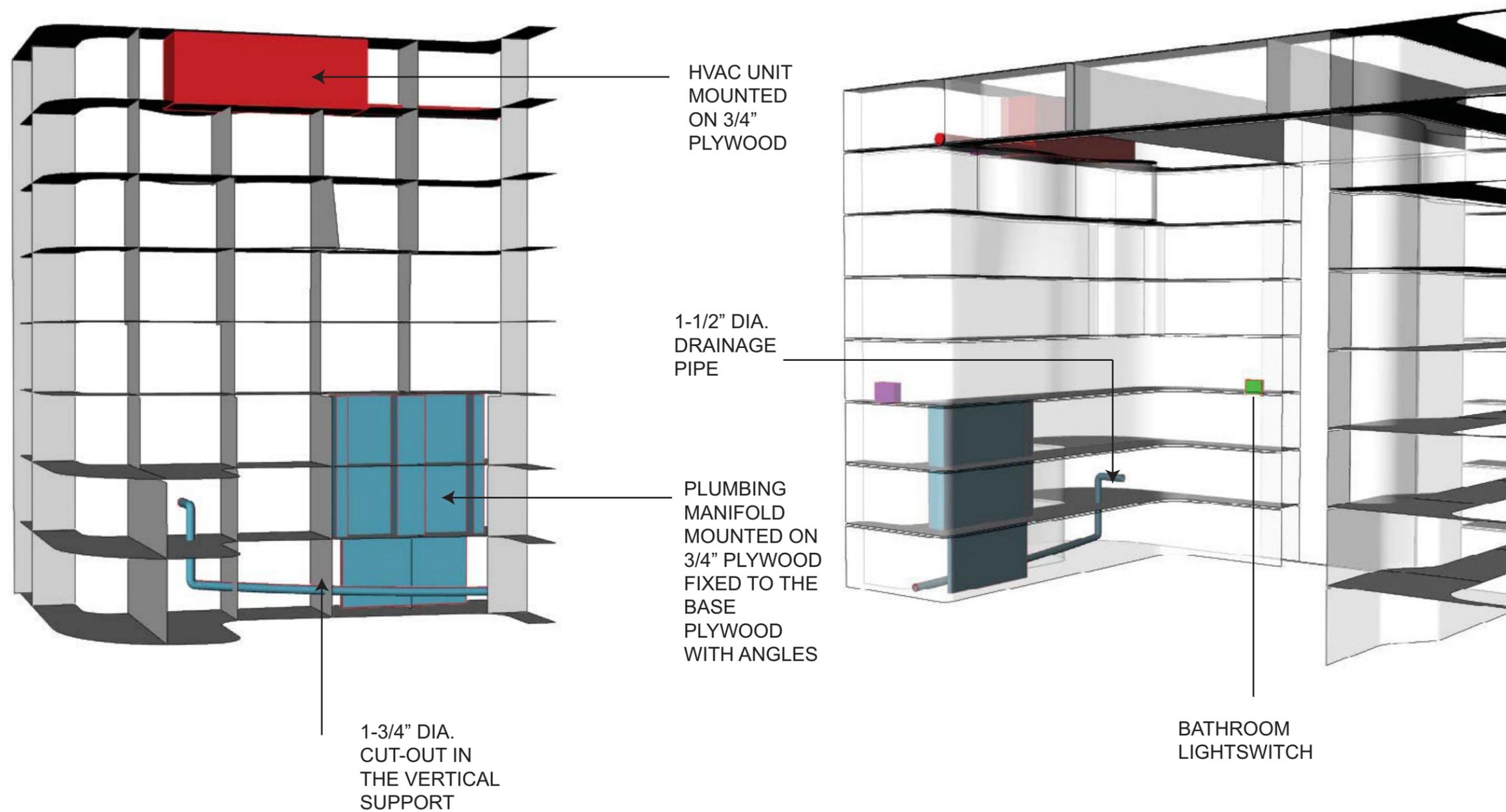


LED light strip

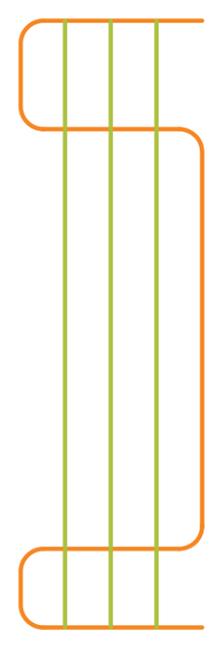
LED light strip,
way finding

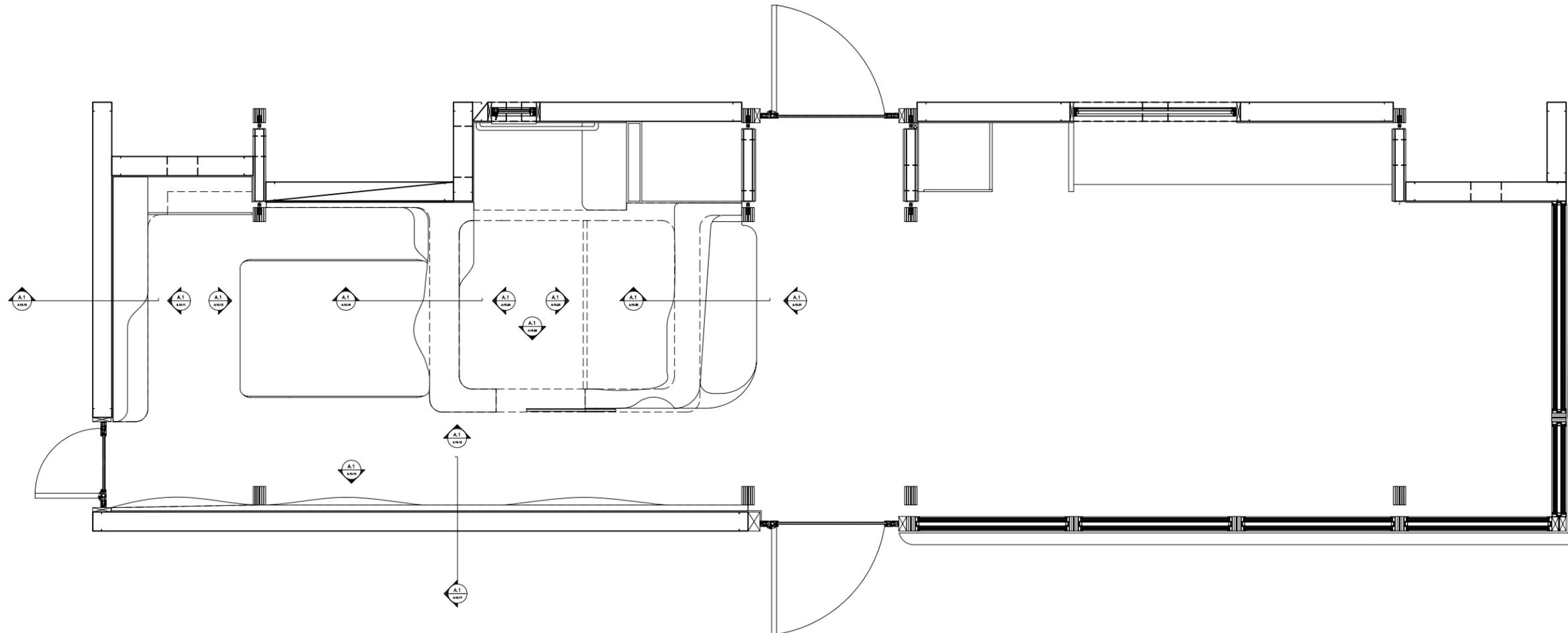
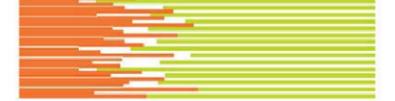
FUNCTION LAYOUT -
HALLWAY SOUTH WALL





SERVICES LAYOUT - BATHROOM EAST WALL





revision	description	date

consultants:



prepared by:
Joe Jamgochian

date drawn:
05.24.07

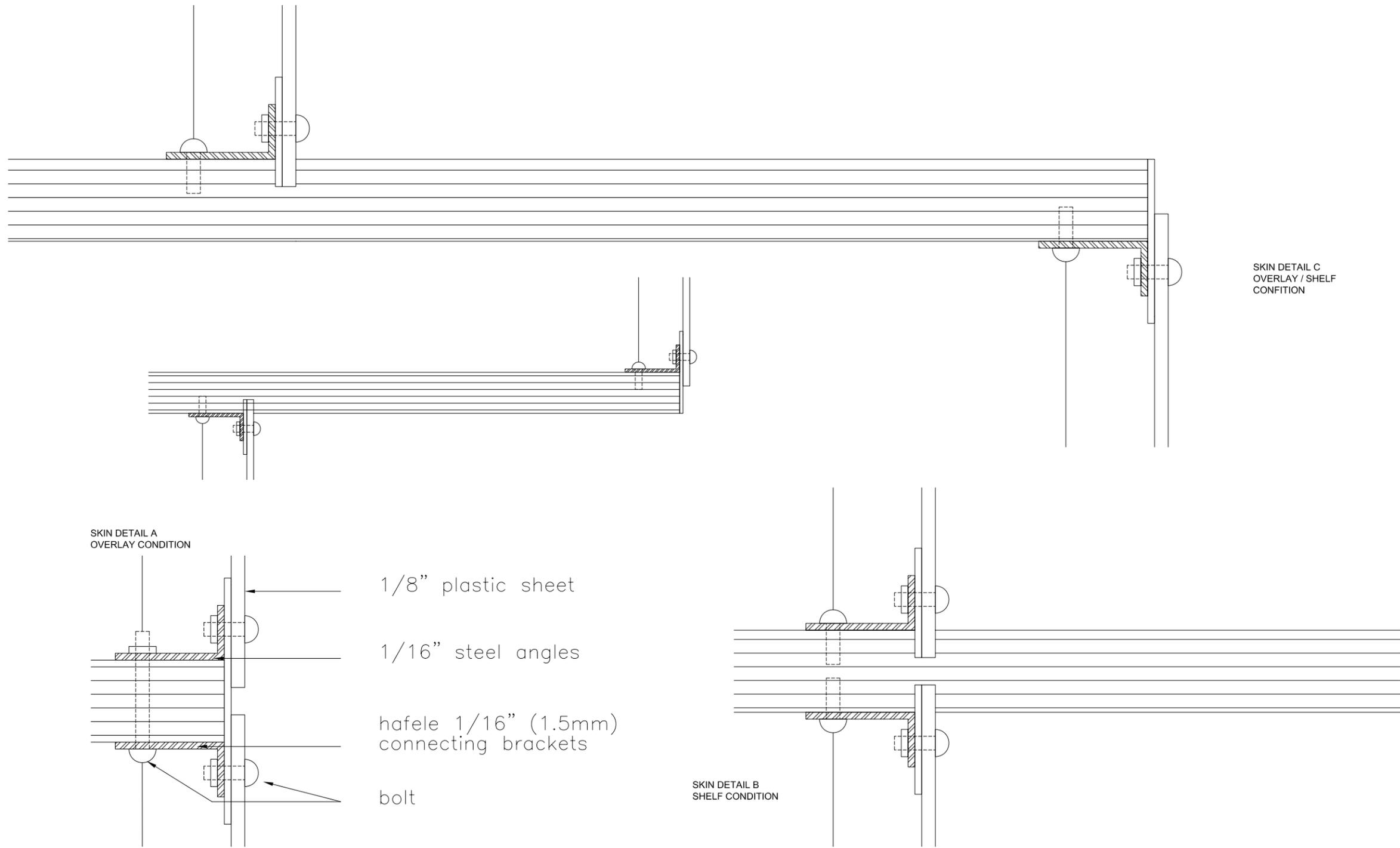


scale: **1/4" = 1'-0"**

DIGITAL FABRICATION PLAN

1 FLOOR PLAN
D.1.4

D.1.4



SKIN DETAIL C
OVERLAY / SHELF
CONFITION

SKIN DETAIL A
OVERLAY CONDITION

1/8" plastic sheet

1/16" steel angles

hafele 1/16" (1.5mm)
connecting brackets

bolt

SKIN DETAIL B
SHELF CONDITION

revision	description	date

consultants:



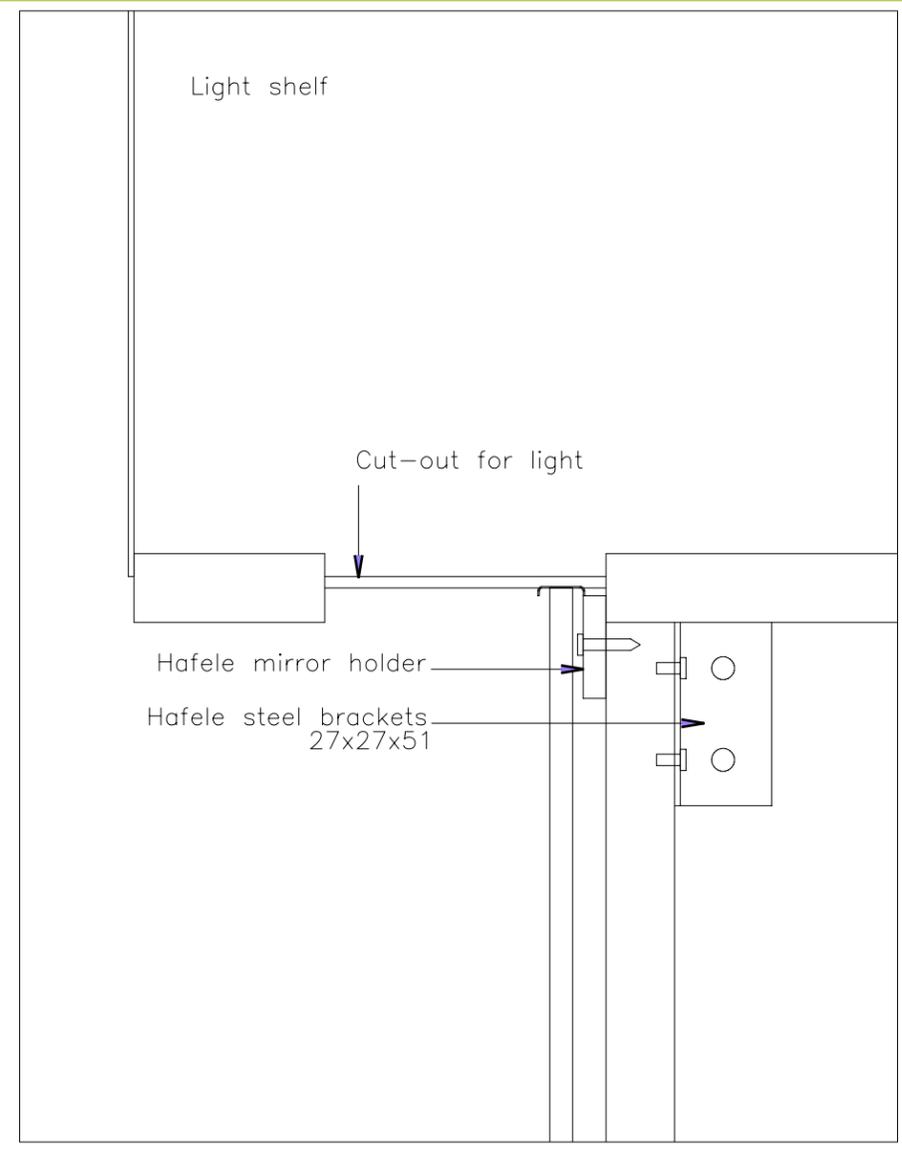
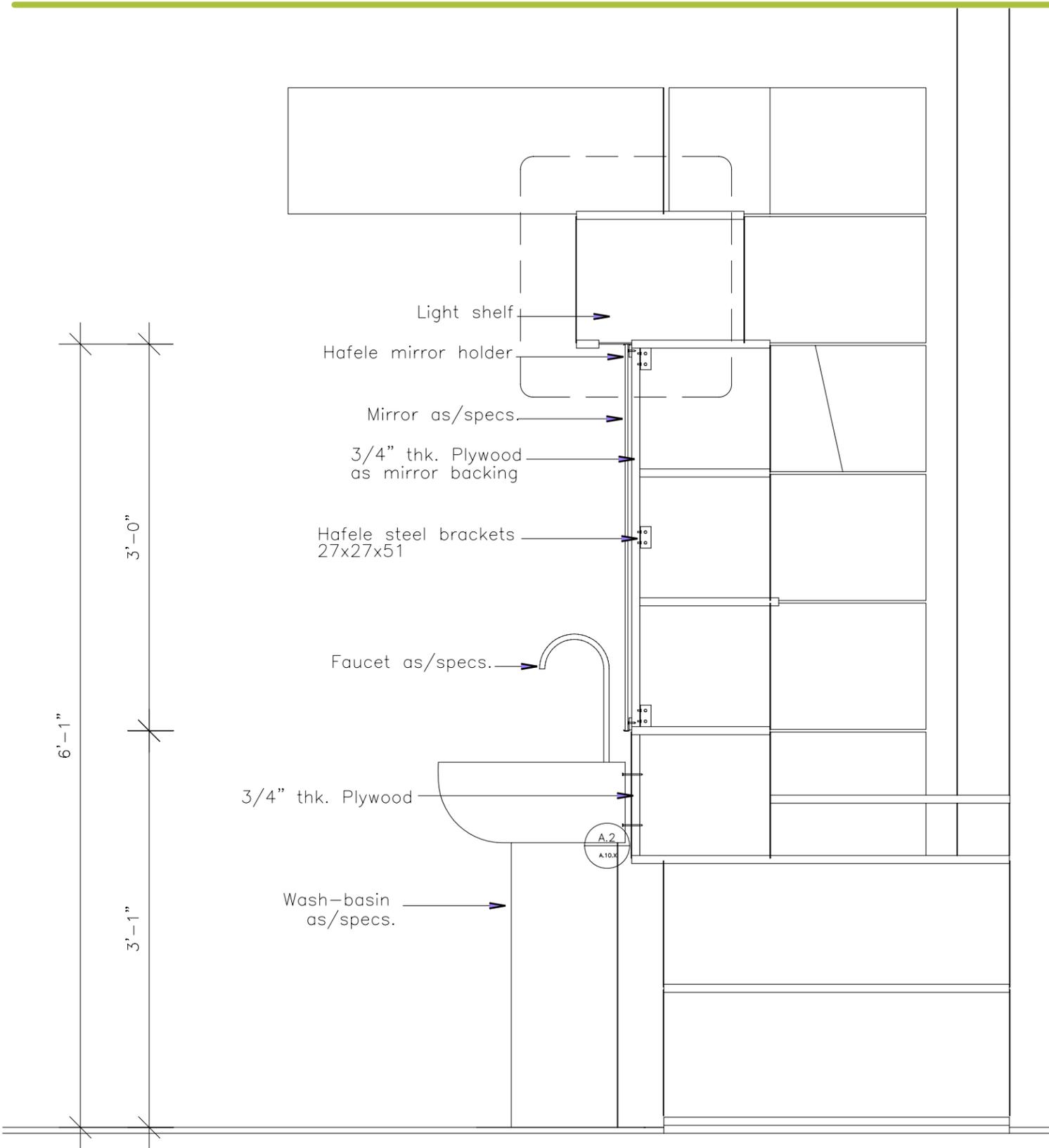
prepared by:
L. Ong
date drawn:
05.29.07

scale: 1/4" = 1'-0"

D.2.0

DIGITAL FABRICATED INTERIORS

1 SECTION DETAIL - SKIN DETAIL VARIATIONS
D.2.0



A2 MIRROR DETAIL - SECTION A
D.2.1 SCALE: 3" = 1'

1 HOME-OFFICE SECTION
D.2.1 SCALE: 1" = 1'

revision	description	date

consultants:



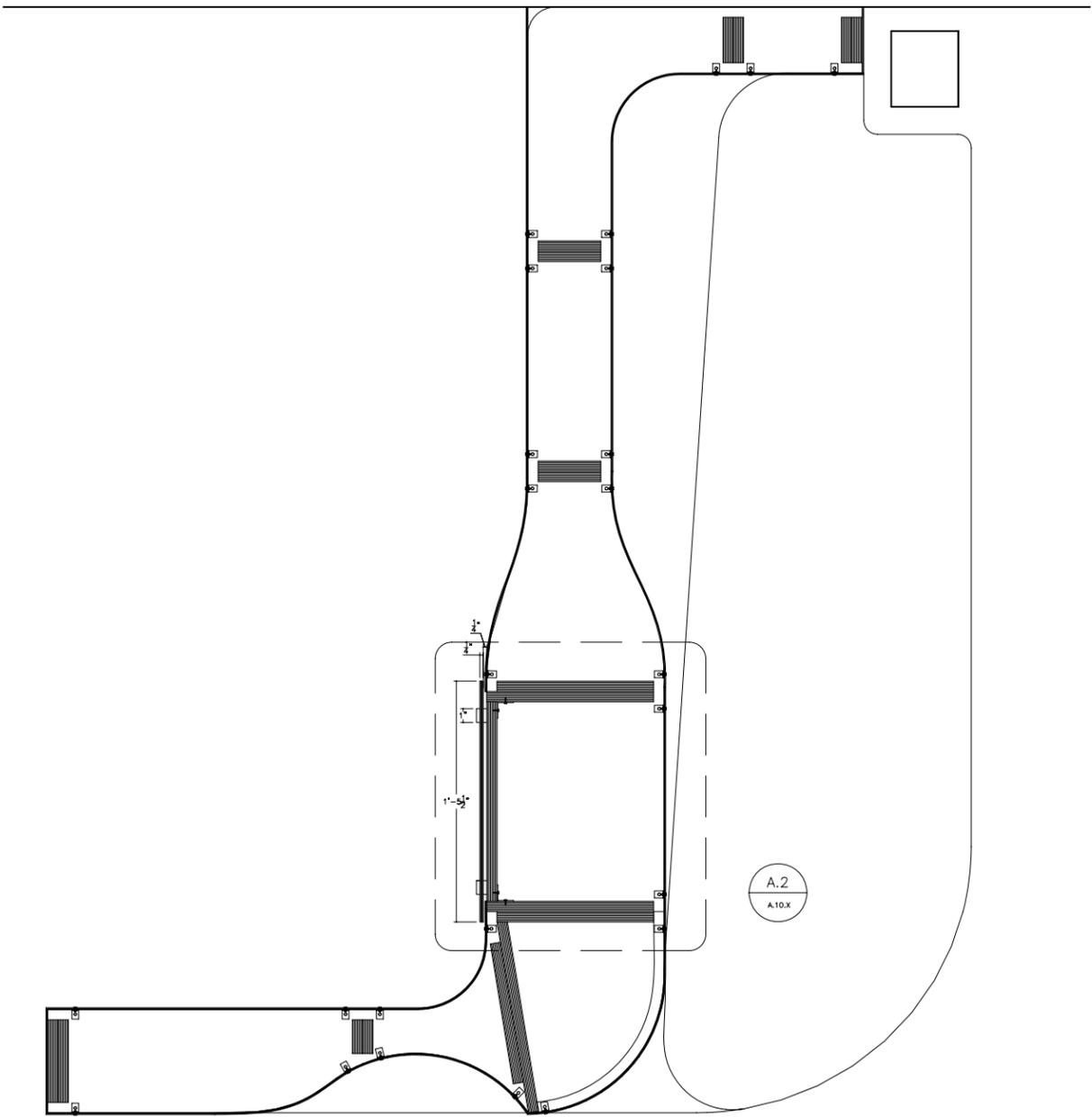
prepared by:
V. Deo
 date drawn:
07.29.07



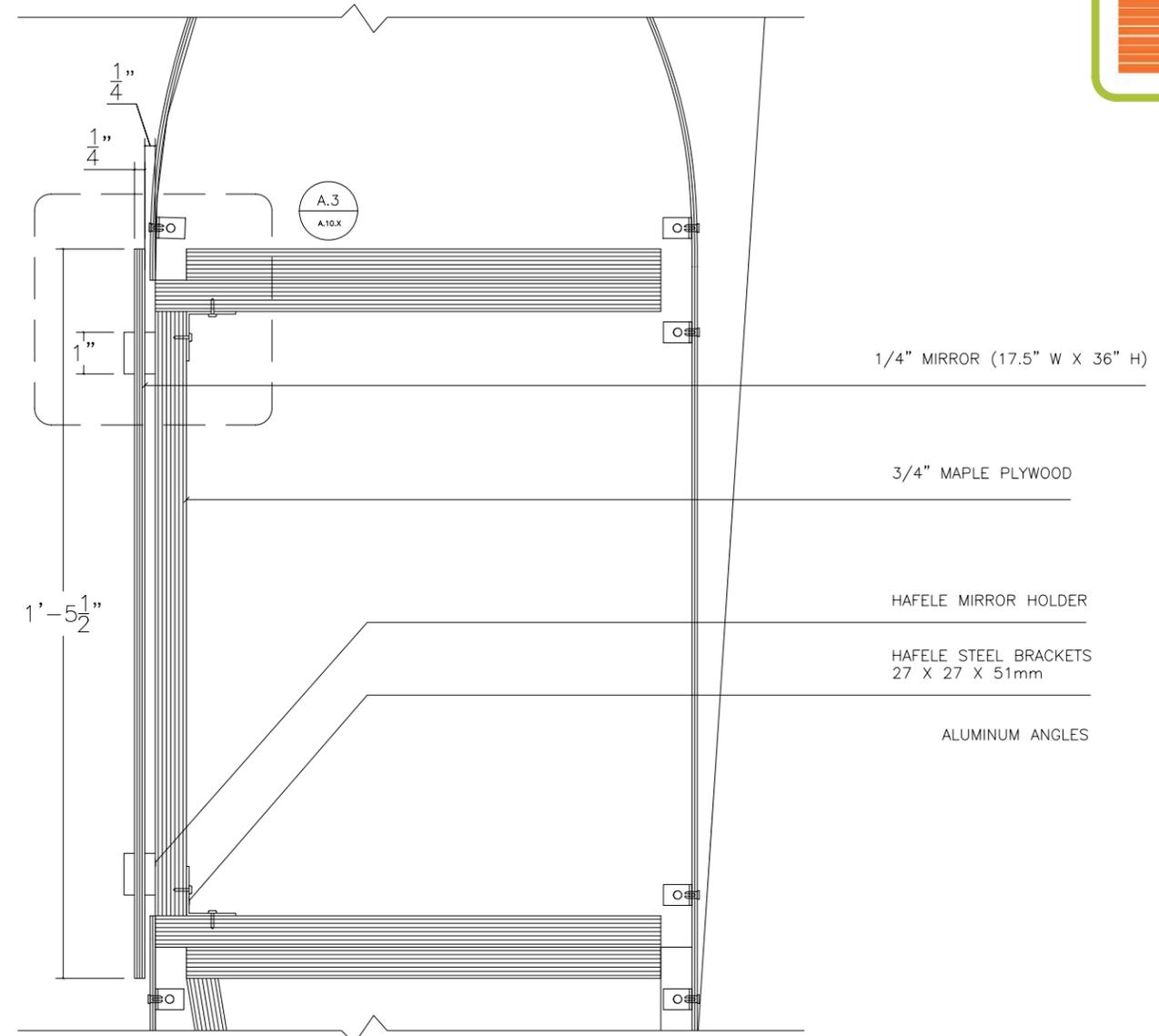
scale: 1/2" = 1'-0"

D.2.1

BATHROOM MIRROR DETAILS



1 HOME OFFICE PLAN
D.2.2 SCALE: 1" = 1'



2 MIRROR DETAIL - PLAN A
D.2.2 SCALE: 3" = 1'

- 1/4" MIRROR (17.5" W X 36" H)
- 3/4" MAPLE PLYWOOD
- HAFELE MIRROR HOLDER
- HAFELE STEEL BRACKETS
27 X 27 X 51mm
- ALUMINUM ANGLES

date	description	revision

consultants:



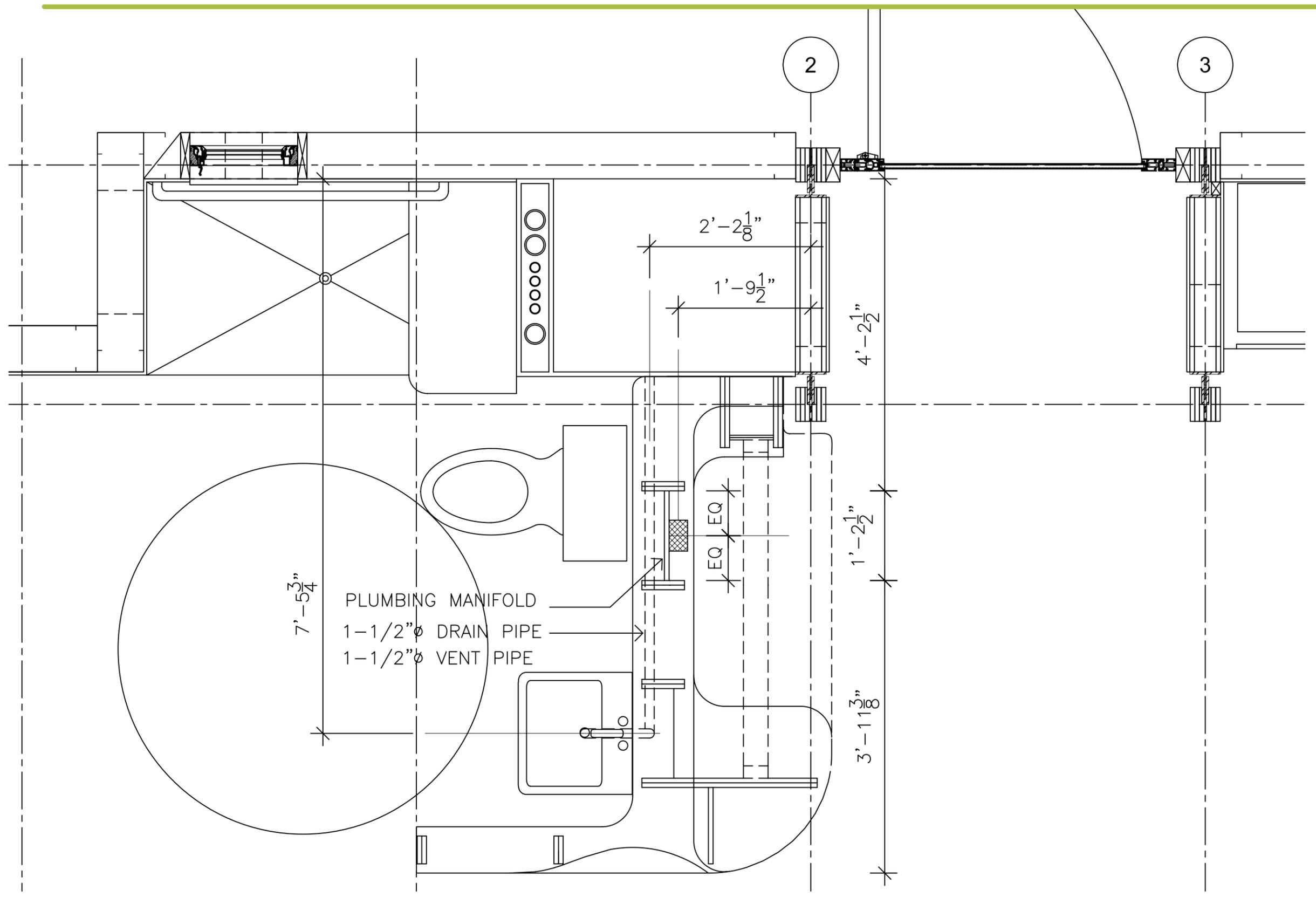
prepared by:
V. Deo
 date drawn:
07.29.07



scale: 1/2" = 1'-0"

D.2.2

BATHROOM MIRROR DETAILS



1 PLAN - BATHRM - HOME OFFICE
 D.2.3

revision	description	date

consultants:

|||



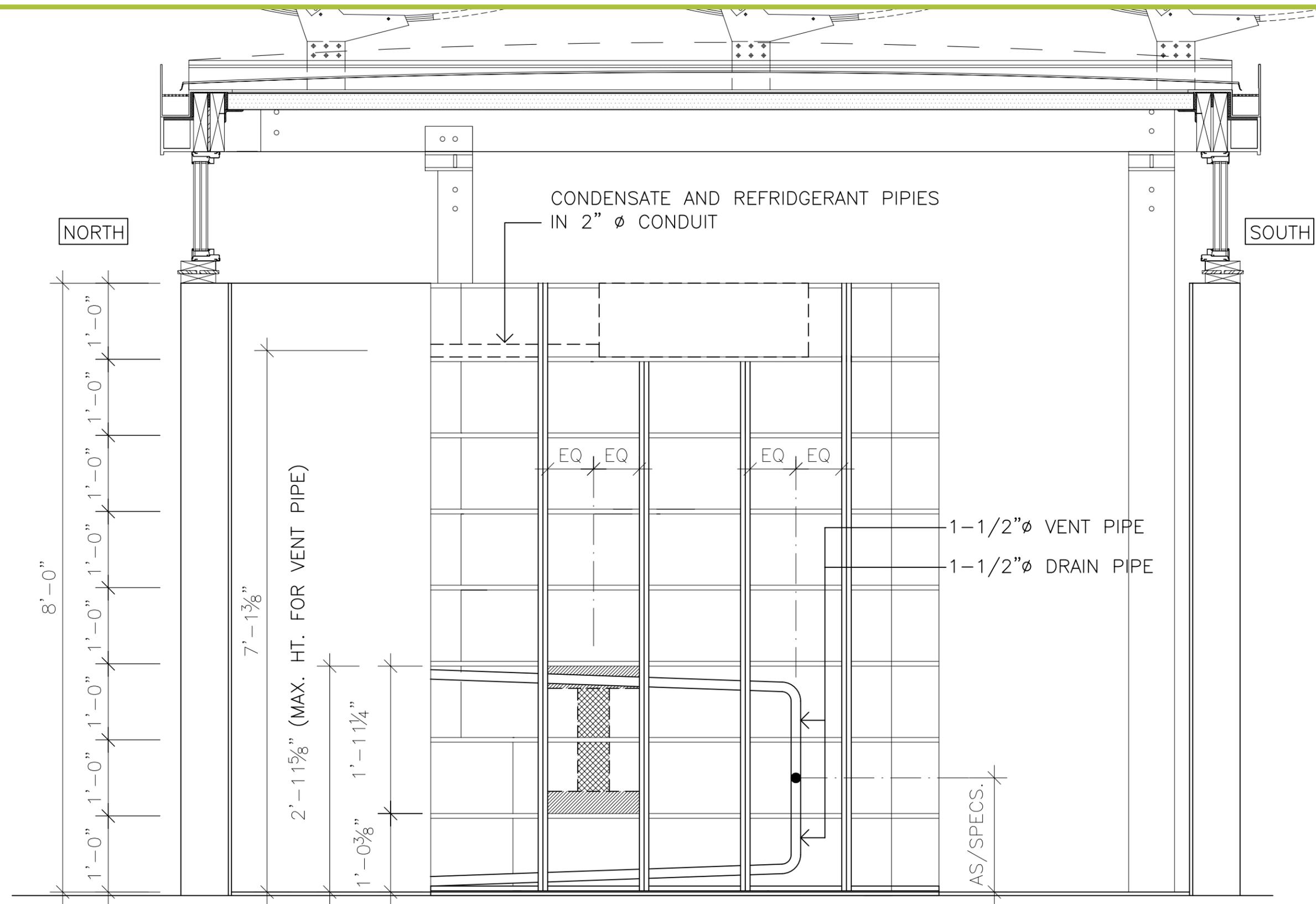
prepared by:
V. Deo
 date drawn:
08.01.07



scale: 3/4" = 1'-0"

D.2.3

OFFICE PLUMBING MANIFOLD DETAILS



NORTH

SOUTH

CONDENSATE AND REFRIDGERANT PIPIES
IN 2" Ø CONDUIT

2' - 1 15/8" (MAX. HT. FOR VENT PIPE)

1-1/2" Ø VENT PIPE
1-1/2" Ø DRAIN PIPE

AS/SPECS.

1
D.2.4

ELEVATION - BATHRM EAST WALL

- LEGEND:
-  PLUMBING MANIFOLD
 -  MBB2 MOUNTING STRIP/
1X4 WOOD PLANK (3.5" WIDE)

revision	description	date

consultants:

|||

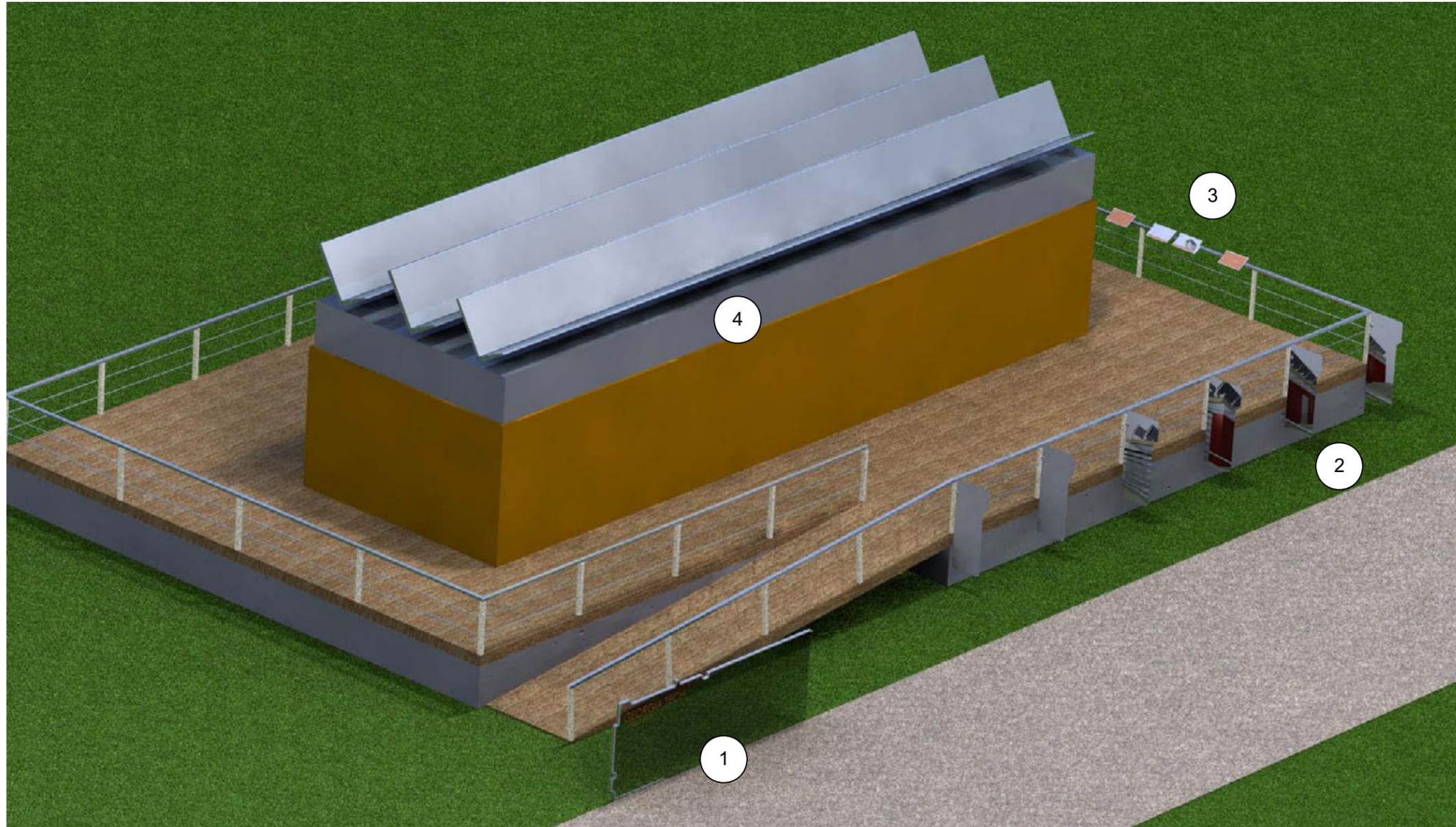


prepared by:
V. Deo
date drawn:
08.01.07

scale: 3/4" = 1'-0"

D.2.4

OFFICE PLUMBING MANIFOLD DETAILS



1. Exhibition entrance wall
2. Exhibition entrance panels
3. Exhibition deck panels
4. Exhibition interior
5. Exhibition interactive

revision	description	date

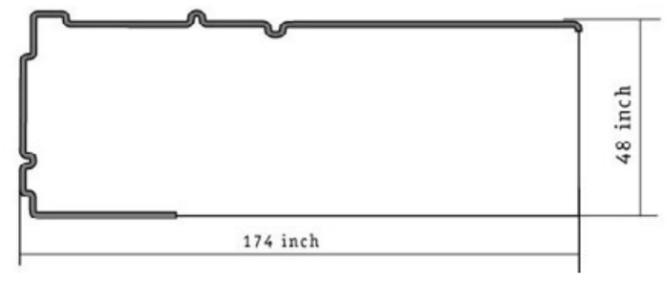
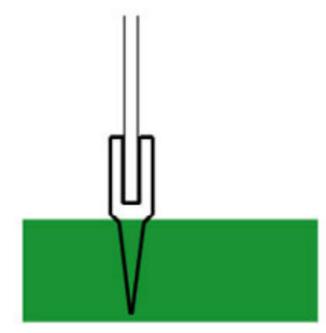
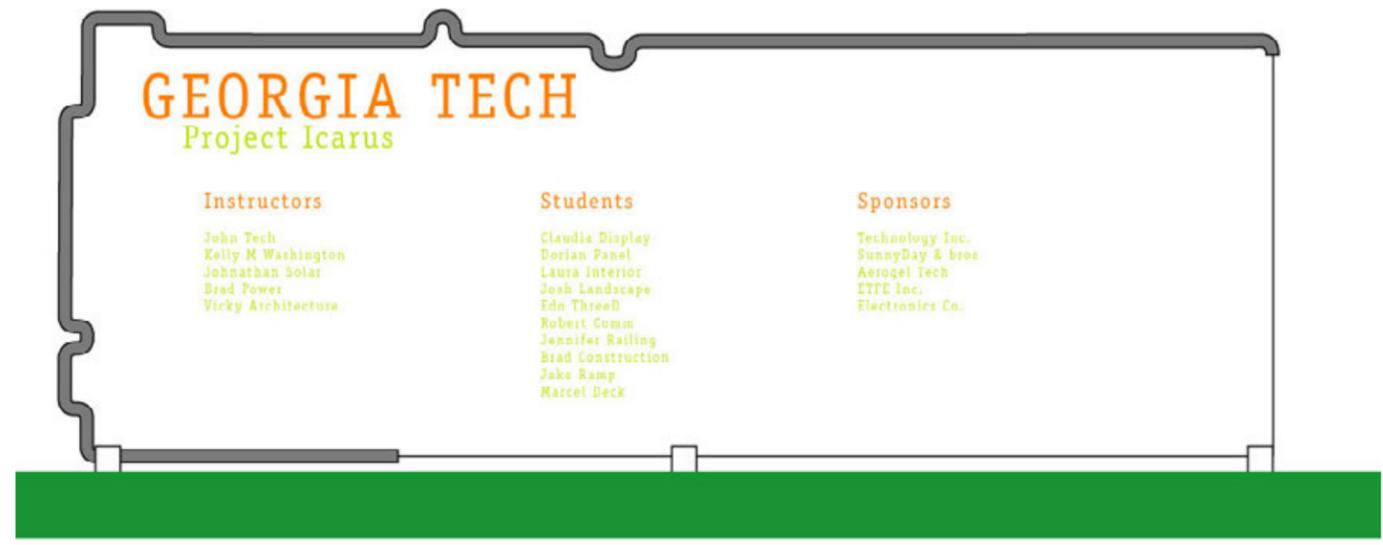
consultants:



prepared by:
Claudia Winegarten
date drawn:
09.03.07

EXHIBITION PLAN

ID.1.0



revision	description	date

consultants:

- _____
- _____
- _____
- _____

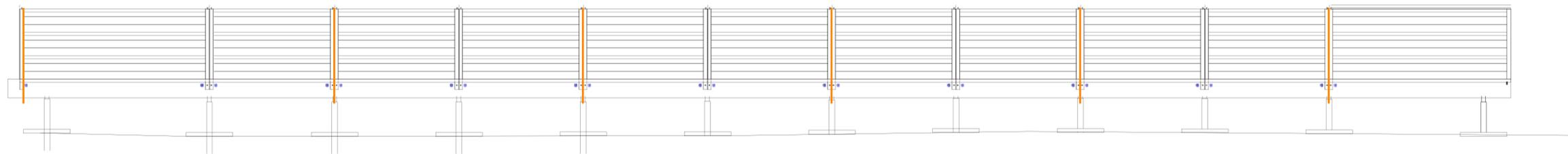
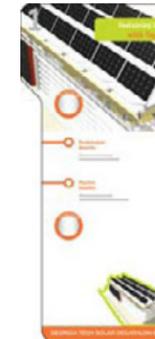
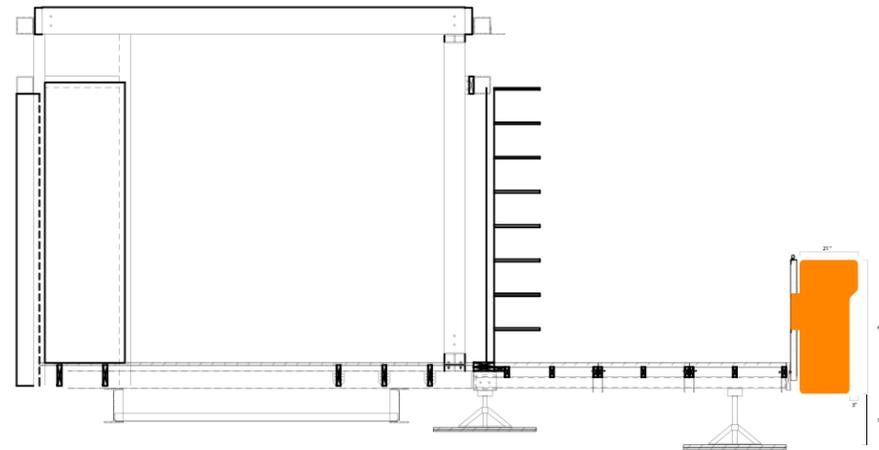


prepared by:
Claudia Winegarden
 date drawn:
09.03.07



ID.1.1

EXHIBITION ENTRANCE WALL



3 aluminum @ 1'-0" OC
6 cables @ 4" OC

revision	description	date

consultants:



prepared by:
Claudia Winegarten

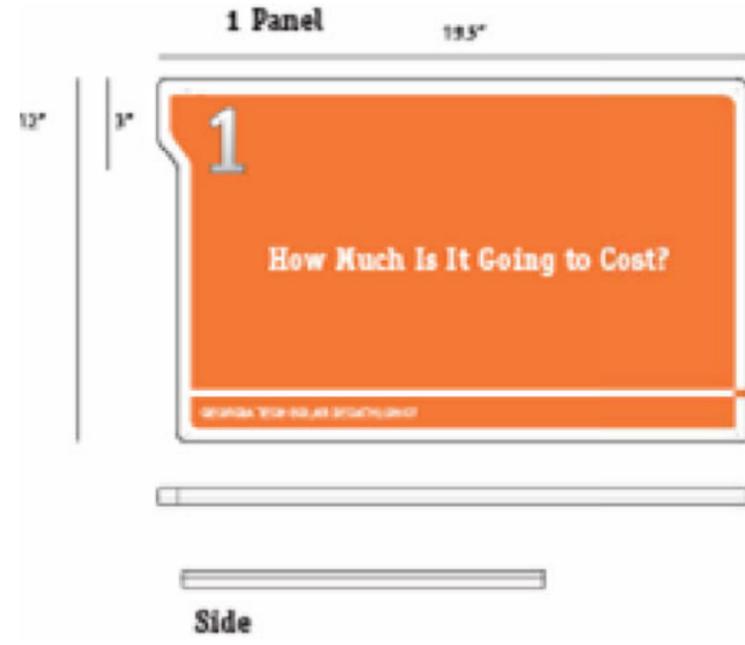
date drawn:
09.03.07



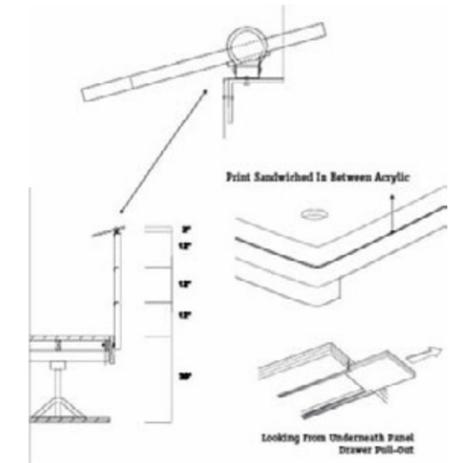
scale: $\frac{3}{16}'' = 1'-0''$

ID.1.2

EXHIBITION ENTRANCE PANELS



1 Panel 19.5"	2nd Panel	2nd Panel (Opened Drawer)	3rd Panel
<p>Front</p> <p>Side</p>	<p>Front</p> <p>Side</p>	<p>Front</p> <p>Side</p>	<p>Front</p> <p>Side</p>
<p>Front</p> <p>Side</p>	<p>Front</p> <p>Side</p>	<p>Front</p> <p>Side</p>	<p>Front</p> <p>Side</p>
<p>Front</p> <p>Side</p>	<p>Front</p> <p>Side</p>	<p>Front</p> <p>Side</p>	<p>Front</p> <p>Side</p>
<p>Front</p> <p>Side</p>	<p>Front</p> <p>Side</p>	<p>Front</p> <p>Side</p>	<p>Front</p> <p>Side</p>
<p>Front</p> <p>Side</p>	<p>Front</p> <p>Side</p>	<p>Front</p> <p>Side</p>	<p>Front</p> <p>Side</p>



date	description	revision

consultants:



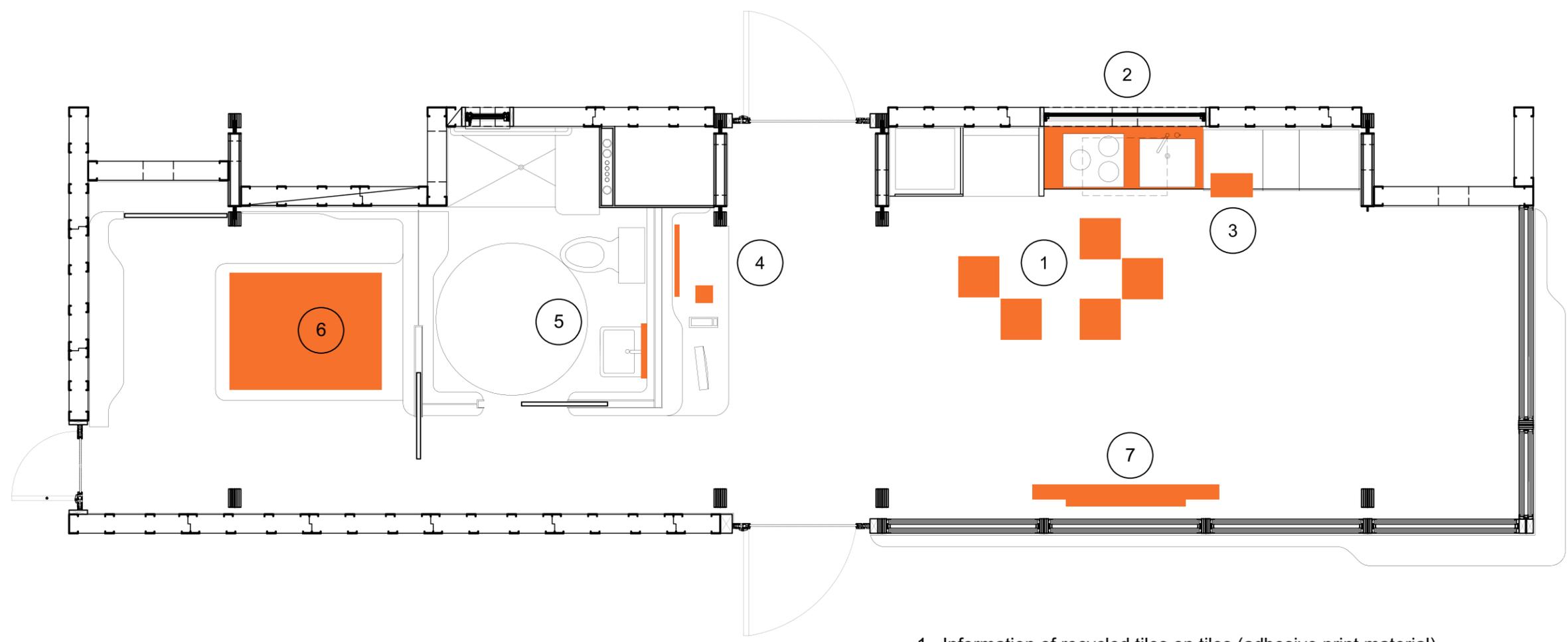
prepared by:
Claudia Winegarden
 date drawn:
09.03.07



scale: $\frac{3}{16}'' = 1'-0''$

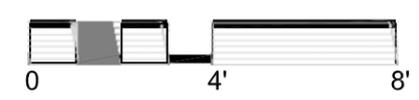
ID.1.3

EXHIBITION DECK PANELS



- 1 . Information of recycled tiles on tiles (adhesive print material)
- 2 . Information of Kirei board on the board (transparent print material)
- 3 . Information of adjustable kitchen on kitchen drawers
- 4 . Information of lighting on wall posters and logic controllers in notepads
- 5 . Information of adjustable bathroom on mirror (transparent print material)
- 6 . Information of adjustable bedroom on the cover (printed fabric)
- 7 . Information of overall house design and properties on flat panel TV (looped animation)

1 FLOOR PLAN
A.1.0



date
revision
description

consultants:



prepared by:
Claudia Winegarden
date drawn:
09.03.07

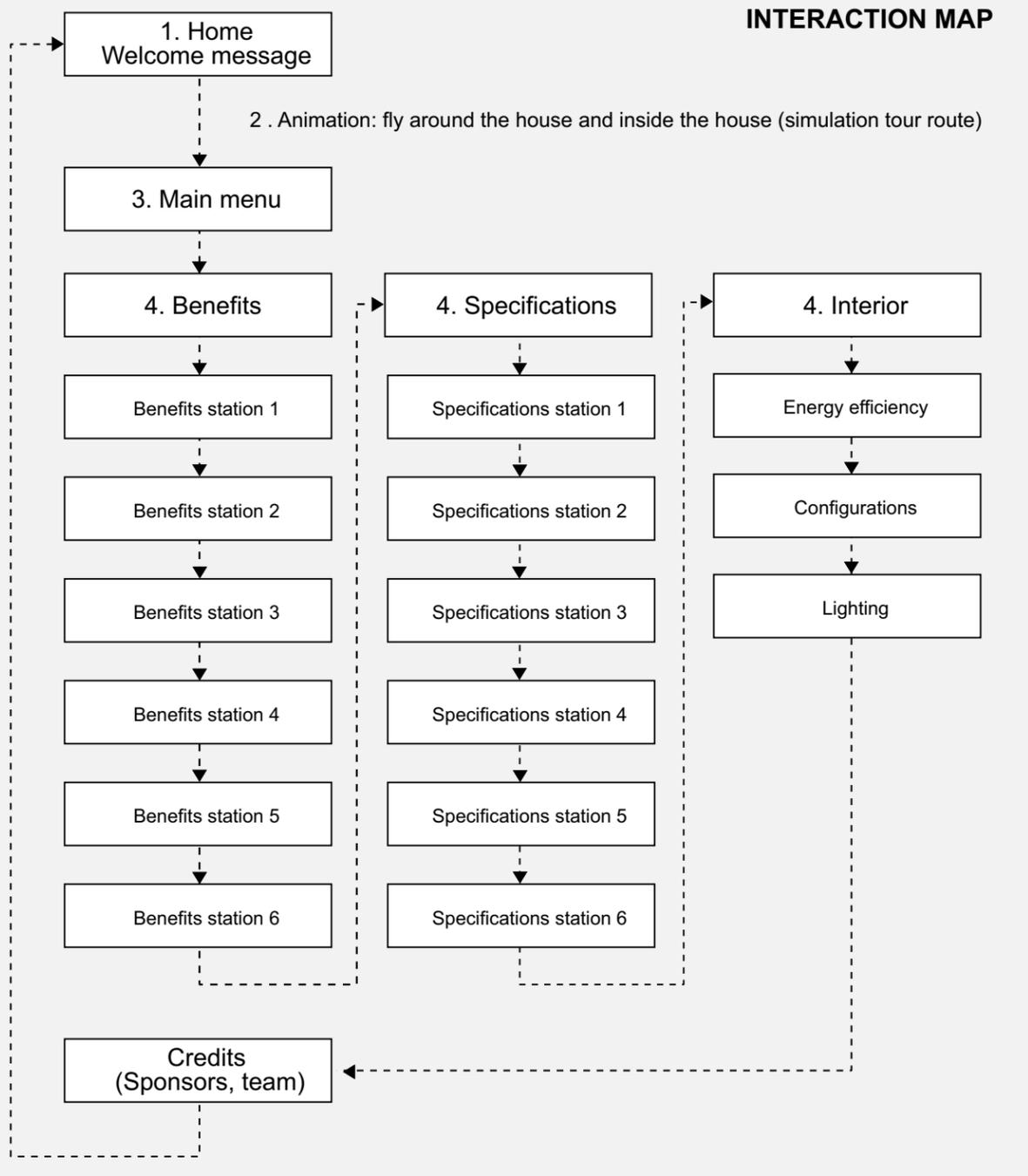


scale: 1/4" = 1'-0"

ID.1.4

EXHIBITION INTERIOR

INTERACTION MAP



2 INTERACTIVE SYSTEMS



Interactive Voice Response System
From personal cell phones



Audio-Visual
Looped animation
32" Flat Panel TV

date	description	revision

consultants:



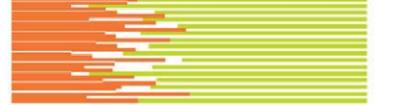
prepared by:
Claudia Winegarden
date drawn:
09.03.07

EXHIBITION INTERACTIVE



ID.1.5

GENERAL NOTES



1.00 GENERAL

1.01 ALL CONSTRUCTION SHALL CONFORM TO THE GEORGIA STATE MINIMUM STANDARD BUILDING CODE, 2000 EDITION (2000 INTERNATIONAL BUILDING CODE WITH GEORGIA STATE AMENDMENTS DATED JANUARY 1, 2006). REFERENCE TO OTHER STANDARD SPECIFICATIONS OR CODES SHALL MEAN THE LATEST STANDARD OR CODE ADOPTED AND PUBLISHED. PROVISION SHALL ALSO BE MADE TO SATISFY THE REQUIREMENTS OF THE INTERNATIONAL RESIDENTIAL CODE, 2007 EDITION, PER THE 2007 SOLAR DECATHLON RULES AND REGULATIONS, DATED MAY 3, 2006.

1.02 SUPERIMPOSED GRAVITY LOADS:

OCCUPANCY OR USE	LIVE LOAD
RESIDENTIAL	50 PSF (PER SOLAR DECATHLON)
DECKS & RAMPS	50 PSF
STAIRS	100 PSF
MISCELLANEOUS (DEAD LOAD)	10 PSF
ROOF	20 PSF
ROOF DEAD LOAD (MINIMUM)	17 PSF

* OR ACTUAL WEIGHT OF EQUIPMENT, WHICHEVER IS GREATER. LIVE LOAD REDUCTION IS TAKEN IN ACCORDANCE WITH THE CODE.

1.03 WIND LOADS:

3 SEC. GUST WIND SPEED = 90 MPH
 IMPORTANCE FACTOR, $I_w = 1.00$
 BUILDING CATEGORY II
 WIND EXPOSURE = C
 INTERNAL PRESSURE COEFFICIENT, $G_{Cpi} = +/-0.18$
 (INWARD & OUTWARD)

2.00 FOUNDATIONS

2.01 THE DESIGN OF FOUNDATIONS IS BASED ON THE CRITERIA ESTABLISHED BY THE 2007 SOLAR DECATHLON RULES AND REGULATIONS DATED MAY 3, 2006, AND INCLUDES AN ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF.

3.00 STRUCTURAL STEEL

3.01 ALL STRUCTURAL STEEL CONSTRUCTION SHALL CONFORM TO THE AISC "SPECIFICATION FOR STRUCTURAL STEEL FOR BUILDINGS - ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN", DATED JUNE 1, 1989, LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, DATED DECEMBER 1, 1993, AND THE "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", ADOPTED JUNE 10, 1992.

3.02 SHOP DRAWINGS PREPARED IN ACCORDANCE WITH THE LATEST "STRUCTURAL STEEL DETAILING MANUAL" OF THE AISC SHALL BE SUBMITTED FOR APPROVAL. NO FABRICATION SHALL BEGIN UNTIL SHOP DRAWINGS ARE COMPLETED AND APPROVED.

3.03 UNLESS NOTED OTHERWISE, STRUCTURAL STEEL SHALL CONFORM TO ASTM A992, GRADE 50. CHANNELS, ANGLES AND PLATES MAY BE ASTM A36 UNLESS NOTED OTHERWISE. SQUARE AND RECTANGULAR TUBES SHALL CONFORM TO ASTM A500, GRADE B. ROUND PIPES SHALL CONFORM TO ASTM A53, GRADE B.

3.04 STEEL FRAMING CONNECTIONS SHALL BE BOLTED OR WELDED, AS NOTED ON DRAWINGS.

A) . BOLTED JOINTS SHALL CONFORM TO AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A 325 OR A490 BOLTS". BOLTS SHALL CONFORM TO ASTM A325, AND SHALL BE MINIMUM 3/4" DIAMETER, UNLESS NOTED OTHERWISE. BOLTS FOR MOMENT FRAMES AND DIAGONAL BRACING CONNECTIONS SHALL BE CONSIDERED SLIP CRITICAL; ALL OTHERS MAY BE CONSIDERED BEARING TYPE UNLESS OTHERWISE NOTED. PROVIDE DIRECT TENSION INDICATORS (LOAD INDICATING WASHERS OR SNAP OFF BOLTS) IN ACCORDANCE WITH ASTM F959 AT ALL HIGH STRENGTH BOLTS.

B) . WELDS SHALL CONFORM TO THE "STRUCTURAL WELDING CODE" OF THE AMERICAN WELDING SOCIETY, AWS D1.1. USE E70XX ELECTRODES. WELDING PROCESSES AND OPERATORS SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATIONS PROCEDURES". WELDERS SHALL CARRY PROOF OF QUALIFICATIONS ON THEIR PERSONS.

3.05 ANCHOR BOLTS SHALL CONFORM TO ASTM A307 UNLESS NOTED OTHERWISE.

3.06 DO NOT USE GAS CUTTING TORCHES FOR CORRECTING FABRICATION ERRORS IN THE STRUCTURAL FRAMING.

3.07 WHEN SPECIFICALLY NOT DETAILED ON THE DESIGN DRAWINGS PROVIDE THE GREATER OF ONE OF THE FOLLOWING BEAM END CONNECTIONS:

MINIMUM 5/16" THICK DOUBLE ANGLE SHEAR CONNECTION, FULL DEPTH OF THE BEAM, WELDED OR BOLTED WITH VERTICAL BOLT SPACING = 3", OR

WHERE BEAM REACTIONS ARE SHOWN, CONNECTIONS SHALL DEVELOP THE REACTION GIVEN, OR

WHEN BEAM REACTIONS ARE NOT SHOWN, CONNECTIONS SHALL BE PROPORTIONED TO SUPPORT 60% OF THE MAX. FACTORED UNIFORM LOAD CAPACITY (ULC) SHOWN IN THE FACTORED UNIFORM LOAD TABLES, OF THE AISC LRFD MANUAL, FOR THE GIVEN BEAM, SPAN, AND GRADE OF STEEL SPECIFIED. FOR COMPOSITE BEAMS, PROPORTION CONNECTIONS FOR 100% OF THE ULC.

CONNECTIONS SHALL BE PROPORTIONED FOR THE ECCENTRICITY BETWEEN THE CONNECTION CENTROID AND THE CENTROID OF THE SUPPORTING MEMBER.

3.08 PROVIDE A SHOP COAT OF STANDARD PRIMER PAINT. PRIMER TO BE COMPATIBLE WITH FINISH COAT. TOUCH UP AREAS DAMAGED IN HANDLING AND ERECTION WITH THE SAME PAINT USED FOR SHOP COAT. STEEL SURFACES TO BE WELDED OR ENCASED IN CONCRETE OR FIREPROOFING, CONNECTIONS DESIGNATED AS SLIP CRITICAL TYPE, OR SURFACES RECEIVING WELDED SHEAR CONNECTORS IN THE FIELD SHALL NOT BE PAINTED.

3.9 STEEL CONSTRUCTION SHALL BE INSPECTED BY A QUALIFIED TESTING AGENCY.

A) . BOLTED CONNECTIONS SHALL BE INSPECTED IN ACCORDANCE WITH AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS".
 B) . ALL FILLET WELDS SHALL BE VISUALLY INSPECTED.
 C) . ALL PENETRATION WELDS SHALL BE TESTED IN ACCORDANCE WITH ASTM E164.
 D) . WRITTEN REPORTS SHALL BE SUBMITTED DESCRIBING ALL INSPECTIONS AND INDICATING ANY NON-CONFORMING WORK.
 E) . RE-INSPECT NON-CONFORMING WORK AFTER IT IS CORRECTED.

3.10 PROVIDE TEMPORARY BRACING OF STRUCTURAL FRAMING UNTIL ALL PERMANENT BRACING, MOMENT CONNECTIONS AND FLOOR AND ROOF DECKS (DIAPHRAGMS) ARE COMPLETELY INSTALLED. THE STRUCTURAL ELEMENTS ARE UNSTABLE UNTIL THE STRUCTURE IS COMPLETED IN ACCORDANCE WITH THE PLANS.

4.00 COLD FORMED METAL FRAMING

4.01 UNLESS NOTED OTHERWISE, COLD-FORMED METAL FRAMING SHALL COMPLY WITH ASTM C645, A568, AND A446. ALL MEMBERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A525, OR ALUMINUM/ZINC COATED IN ACCORDANCE WITH ASTM A792.

5.00 WOOD

date	description	revision

consultants:

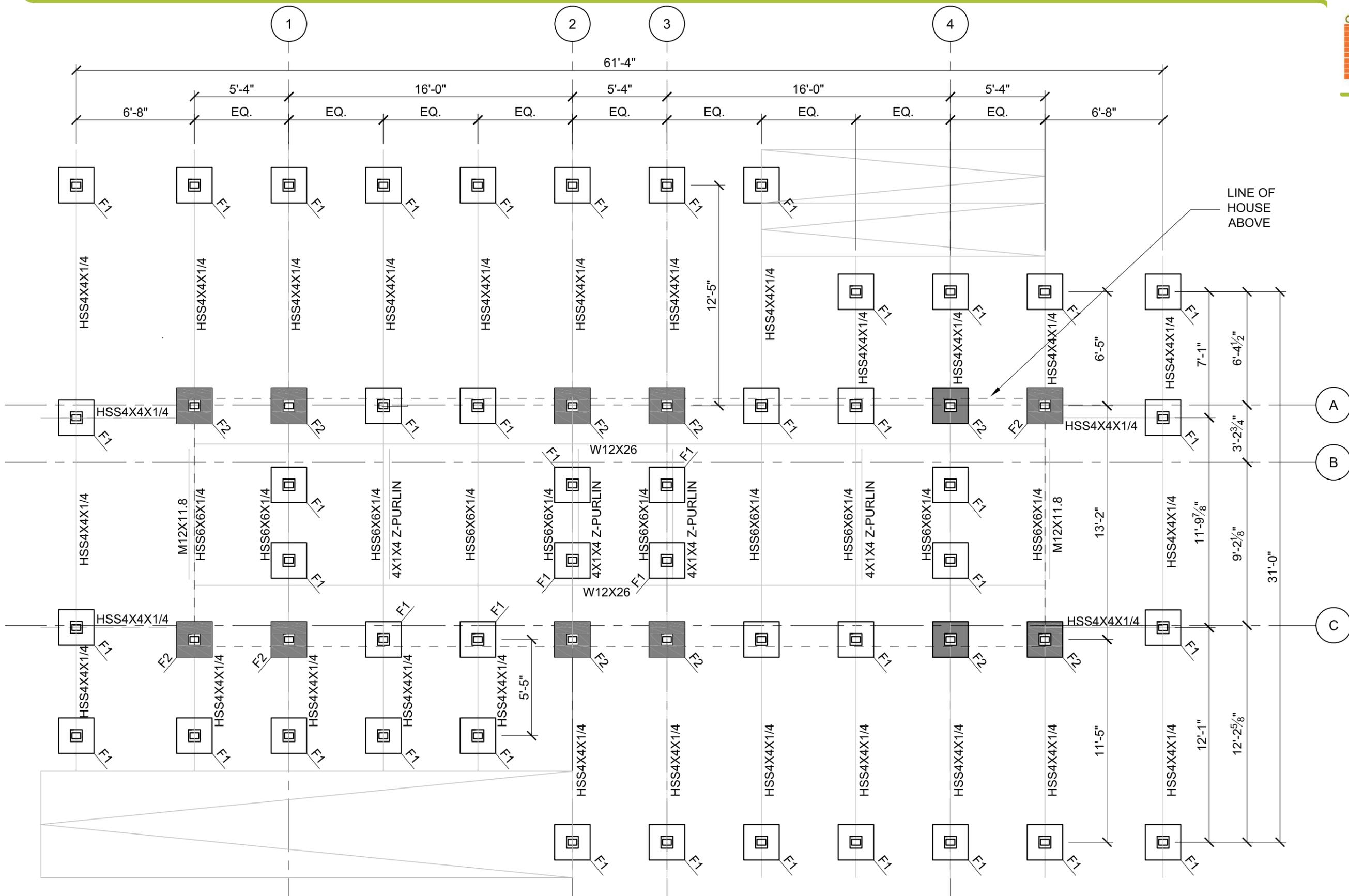
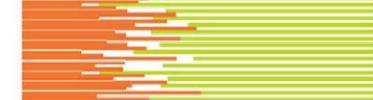


prepared by:
Jamie O'Kelley
 date drawn:
12.04.06

scale: **none**

S.O.O

STRUCTURAL GENERAL NOTES



revision	description	date

consultants:



prepared by:
JAMIE O'KELLEY
C.VAN KLEY
 date drawn:
 12.04.06
 3.06.07

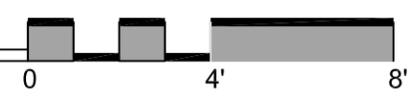


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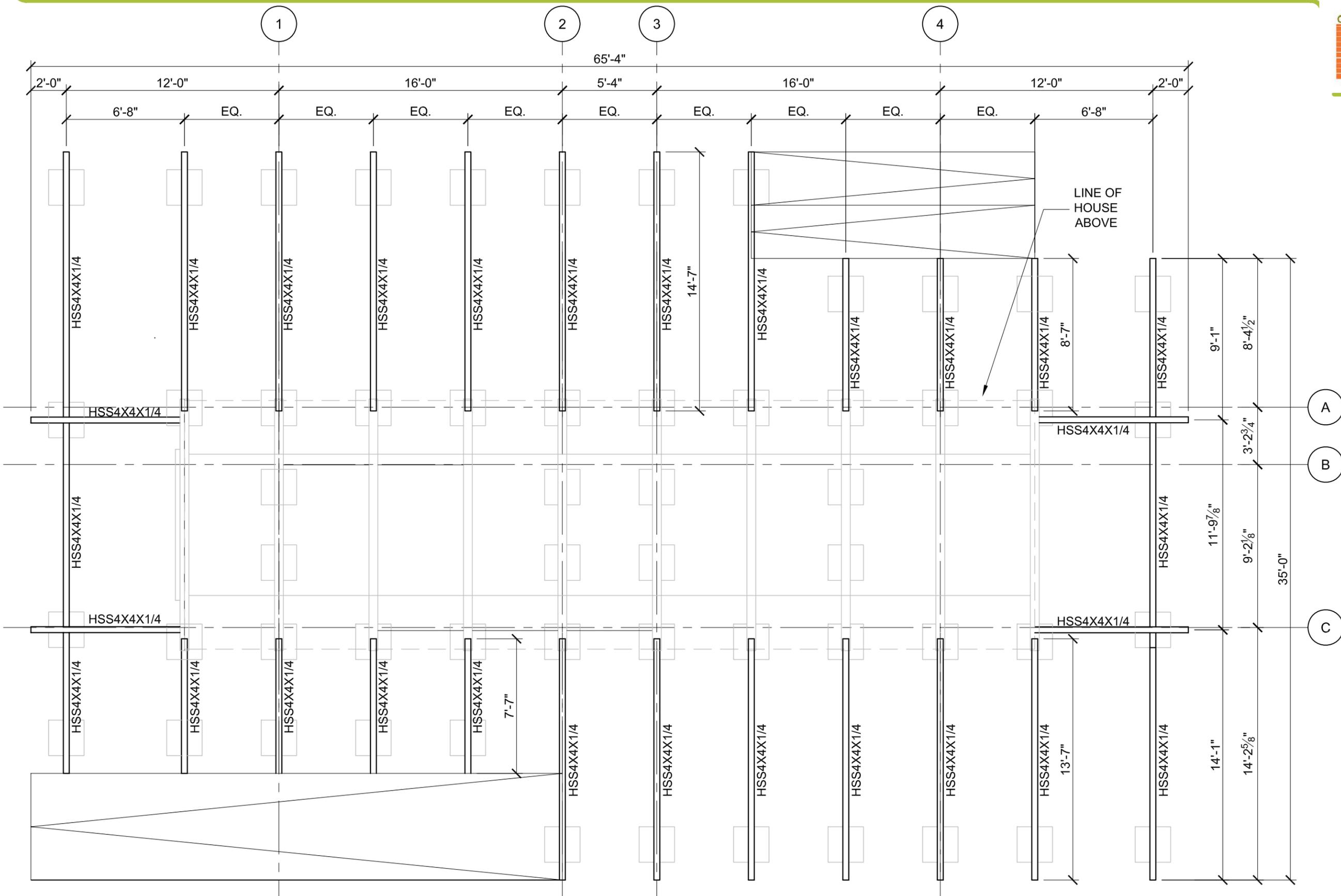
PIER PLAN

1
S.1.0

PIER PLAN

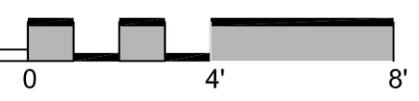


S.1.0



1
S.1.0a

DECK FRAMING PLAN



revision	description	date

consultants:



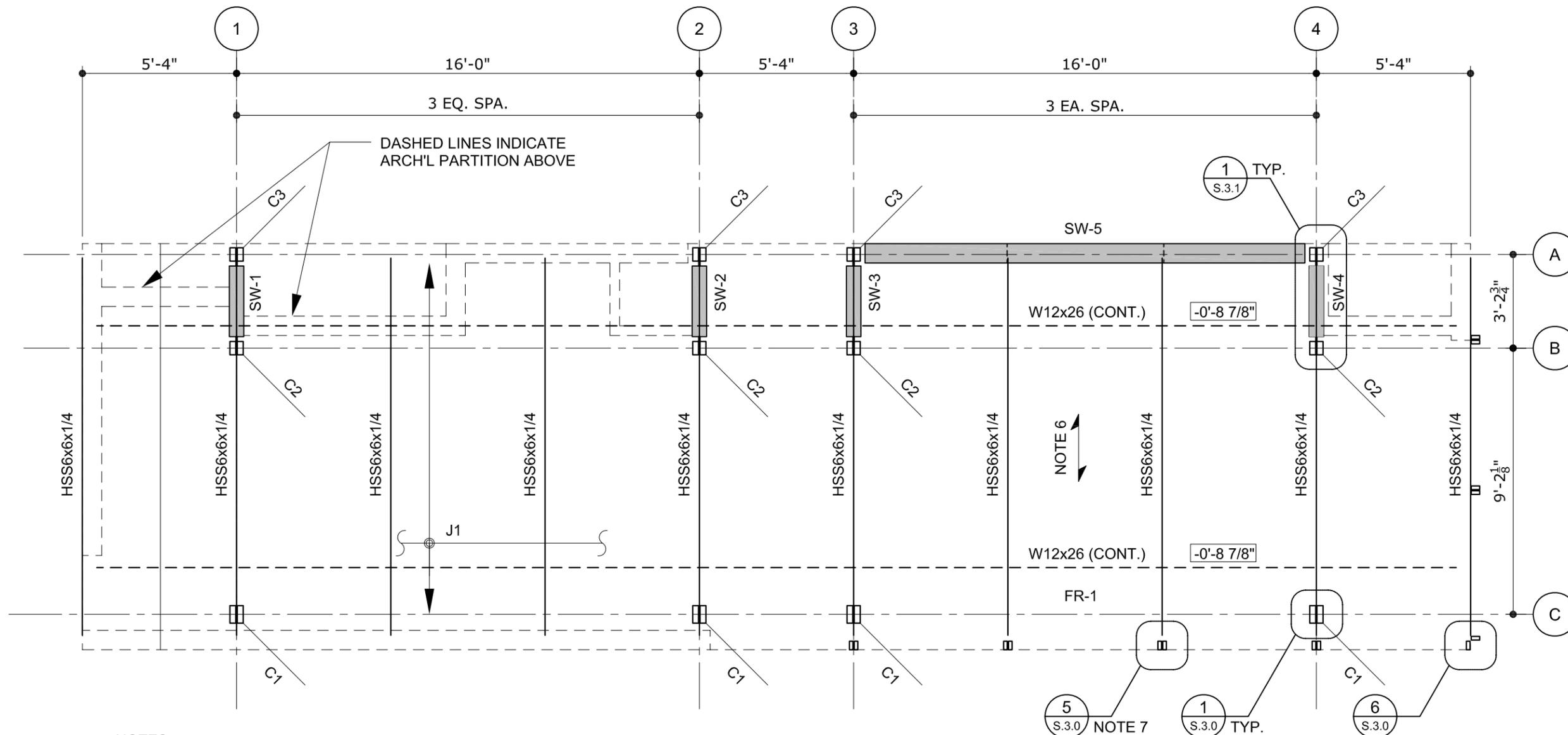
prepared by:
C.VAN KLEY
date drawn:
3.06.07



scale: **3/16"=1'-0"**

DECK FRAMING PLAN

S.1.0a



NOTES

1. +X'-X" INDICATES TOP OF STEEL ELEVATION WITH RESPECT TO FINISHED FLOOR ELEVATION OF +0'-0". TOP OF STEEL ELEVATION AT FLOOR IS -0'-2 7/8" U.N.O.
2. INDICATES STRUCTURAL WOOD PANEL SHEARWALL CONSISTING OF TWO LAYERS OF 3/4" APA RATED PLYWOOD SHEATHING, 32/16 SPAN RATING, EXPOSURE 1. SEE SHEET S.2.0 FOR FASTENING SCHEDULE.
3. "FR-1" INDICATES STRUCTURAL BRACED FRAME. SEE FRAME ELEVATION ON SHEET S.2.0.
4. "C1" INDICATES COMPOSITE WOOD/ STEEL COLUMN. SEE SHEET S.2.1 FOR COMPOSITE COLUMN SCHEDULE.
5. "J1" INDICATES CONTINUOUS 2x8 (NOMINAL) WOOD JOISTS @ 16" o/c.
6. INDICATES SPAN OF 3/4" APA RATED PLYWOOD SHEATHING, 32/16 SPAN RATING, EXPOSURE 1.
7. INDICATES TYPICAL VERTICAL MULLION. SEE ARCH'L. DRAWINGS FOR LOC'NS.

date	description	revision

consultants:



prepared by:
Jamie O'Kelley
date drawn:
12.04.06



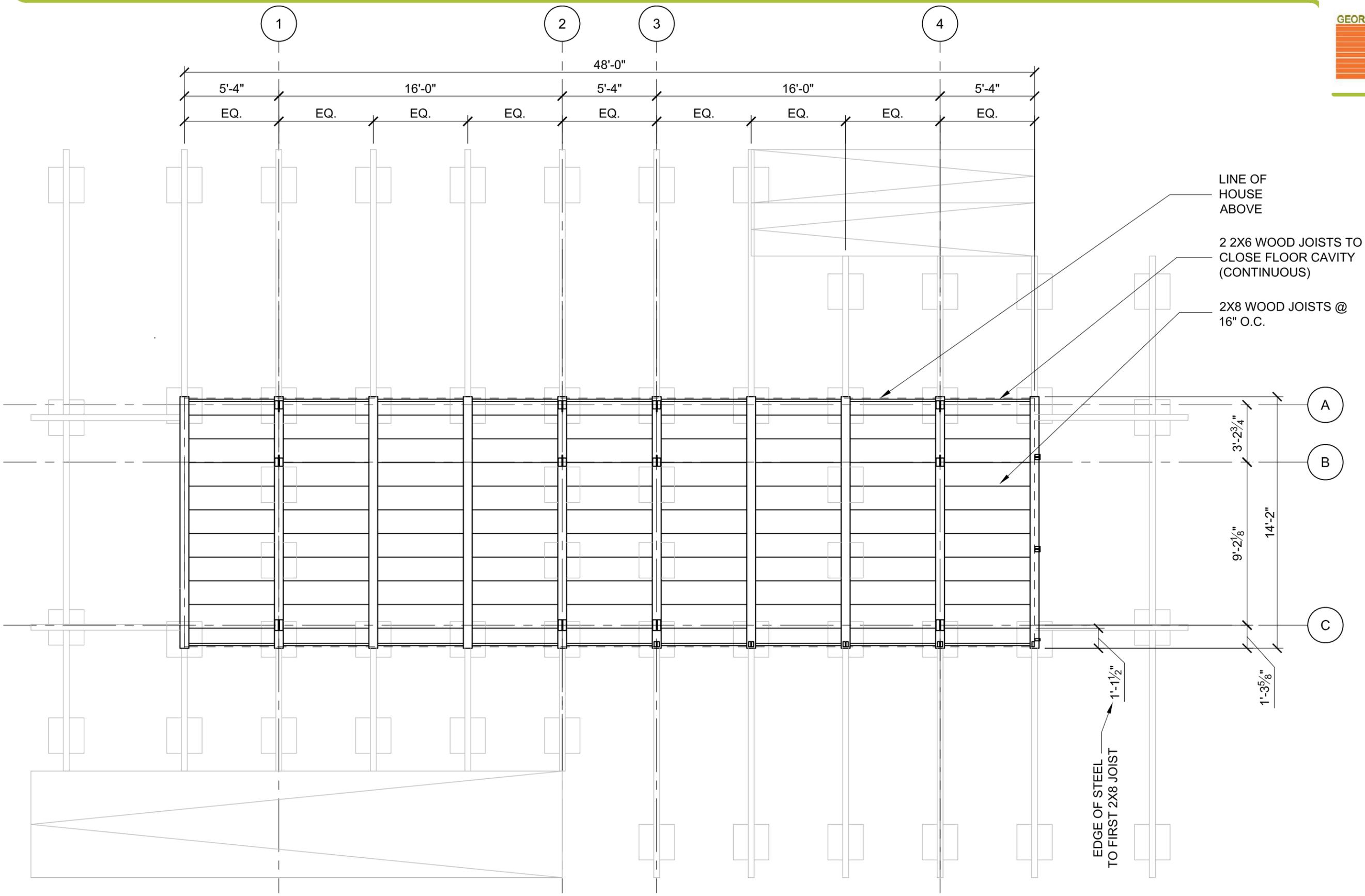
scale: **1/4"=1'-0"**

FLOOR FRAMING PLAN

1 FLOOR FRAMING PLAN

S.1.1

S.1.1



date
description
revision

consultants:




prepared by:
C.VAN KLEY
date drawn:
3.06.07

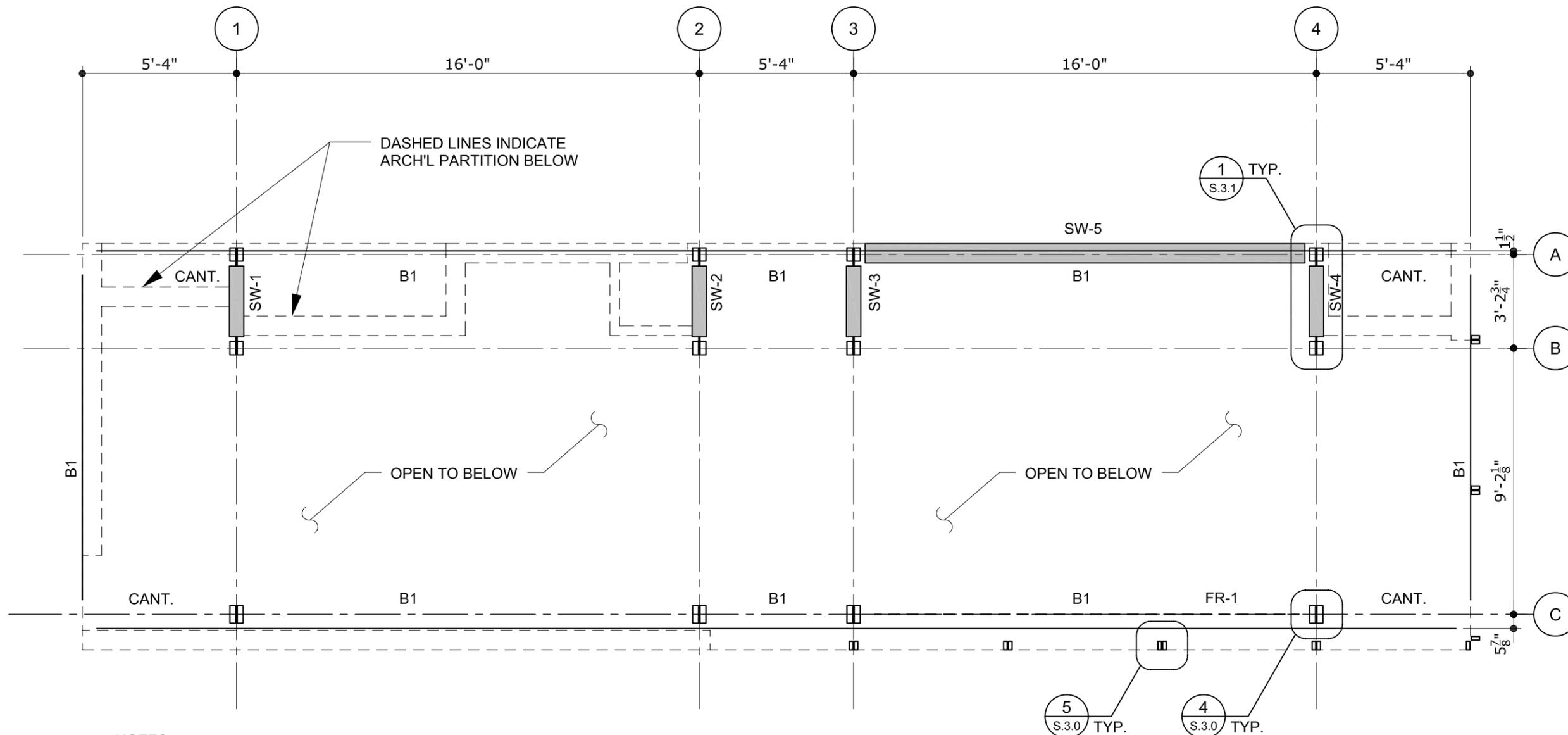


scale: **3/16"=1'-0"**

FLOOR WOOD FRAMING

1 WOOD FRAMING PLAN
S.1.1a

S.1.1a



NOTES

1. +X'-X" INDICATES TOP OF BEAM ELEVATION WITH RESPECT TO FINISHED FLOOR ELEVATION OF +0'-0". TOP OF BEAM ELEVATION AT CLERESTORY IS 8'-1 1/2" U.N.O.
2. INDICATES STRUCTURAL WOOD PANEL SHEARWALL CONSISTING OF TWO LAYERS OF 3/4" APA RATED PLYWOOD SHEATHING, 32/16 SPAN RATING, EXPOSURE 1. SEE DETAILS ON SHEET S.2.1 FOR FASTENING SCHEDULE.
3. "FR-1" INDICATES STRUCTURAL BRACED FRAME. SEE FRAME ELEVATIONS ON SHEET S.2.0.
4. "B1" INDICATES COMPOSITE WOOD/ STEEL BEAM. SEE SHEET S.2.1 FOR COMPOSITE BEAM SCHEDULE.

date	description	revision

consultants:



prepared by:
Jamie O'Kelley
date drawn:
12.04.06



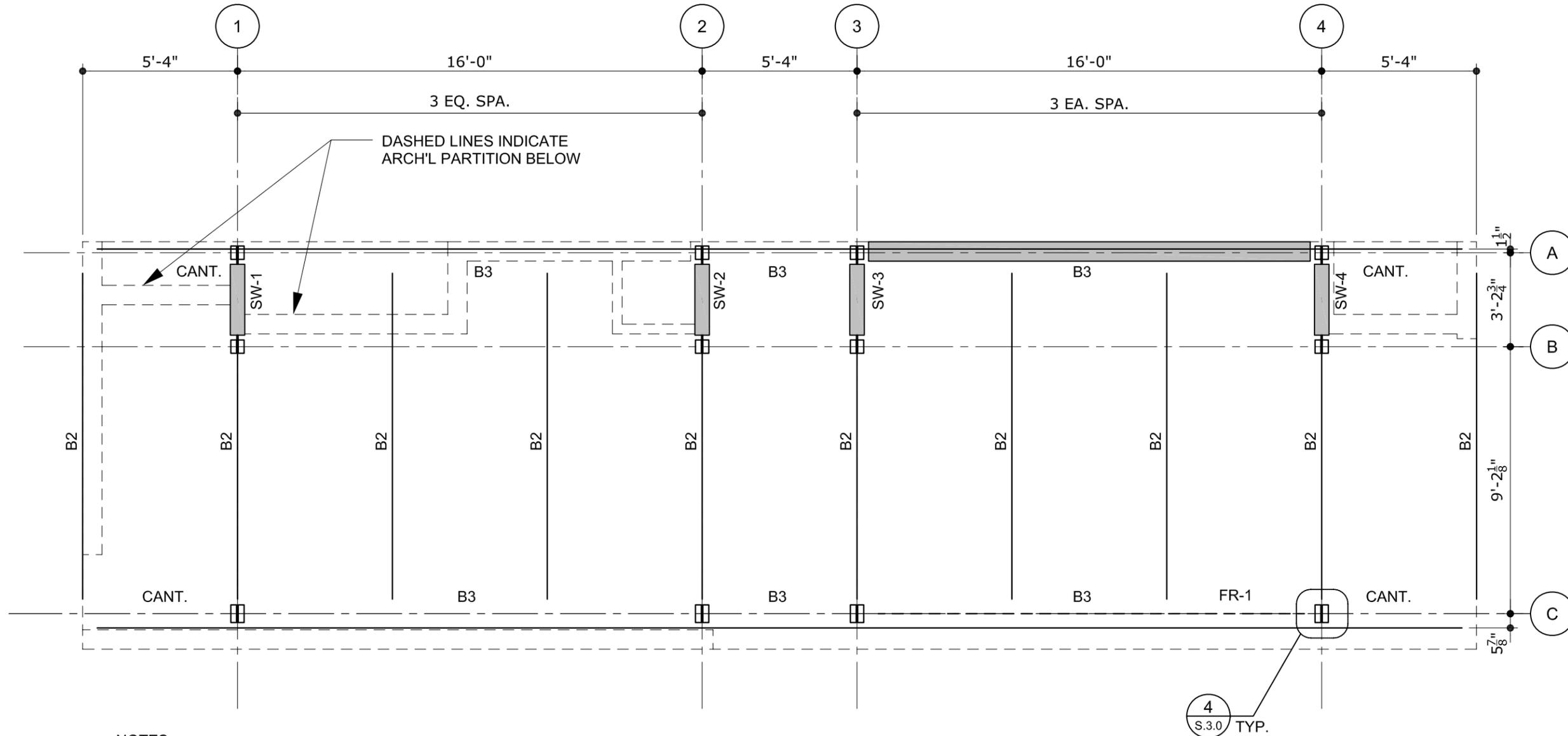
scale: **1/4"=1'-0"**

CLERESTORY FRAMING PLAN

1 CLERESTORY FRAMING PLAN

S.1.2

S.1.2



NOTES

1. "+X'-X" INDICATES TOP OF STEEL ELEVATION WITH RESPECT TO FINISHED FLOOR ELEVATION OF +0'-0". TOP OF STEEL ELEVATION AT UPPER ROOF IS 10'-4" U.N.O.
2. "FR-1" INDICATES STRUCTURAL BRACED FRAME. SEE FRAME ELEVATIONS ON SHEET S.2.0.
3. "B2" INDICATES COMPOSITE WOOD/ STEEL BEAM. SEE SHEET S.2.1 FOR COMPOSITE BEAM SCHEDULE.

date	description	revision

consultants:



prepared by:
Jamie O'Kelley
date drawn:
12.04.06



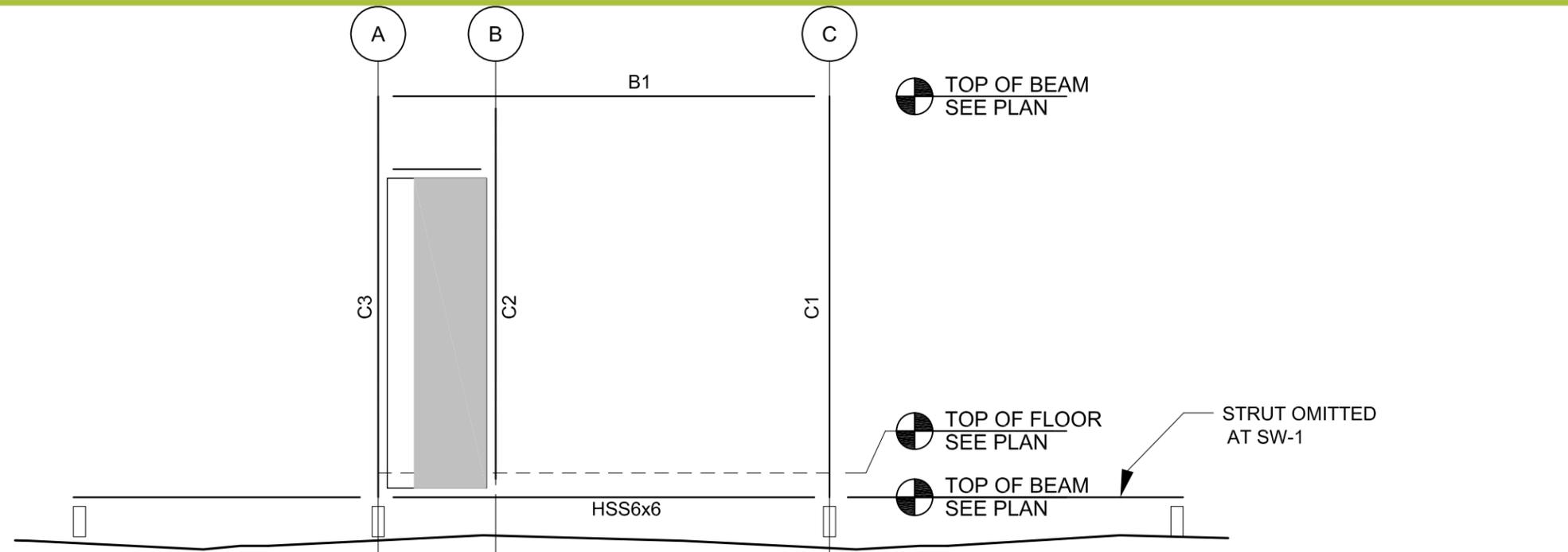
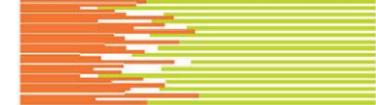
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ROOF FRAMING PLAN

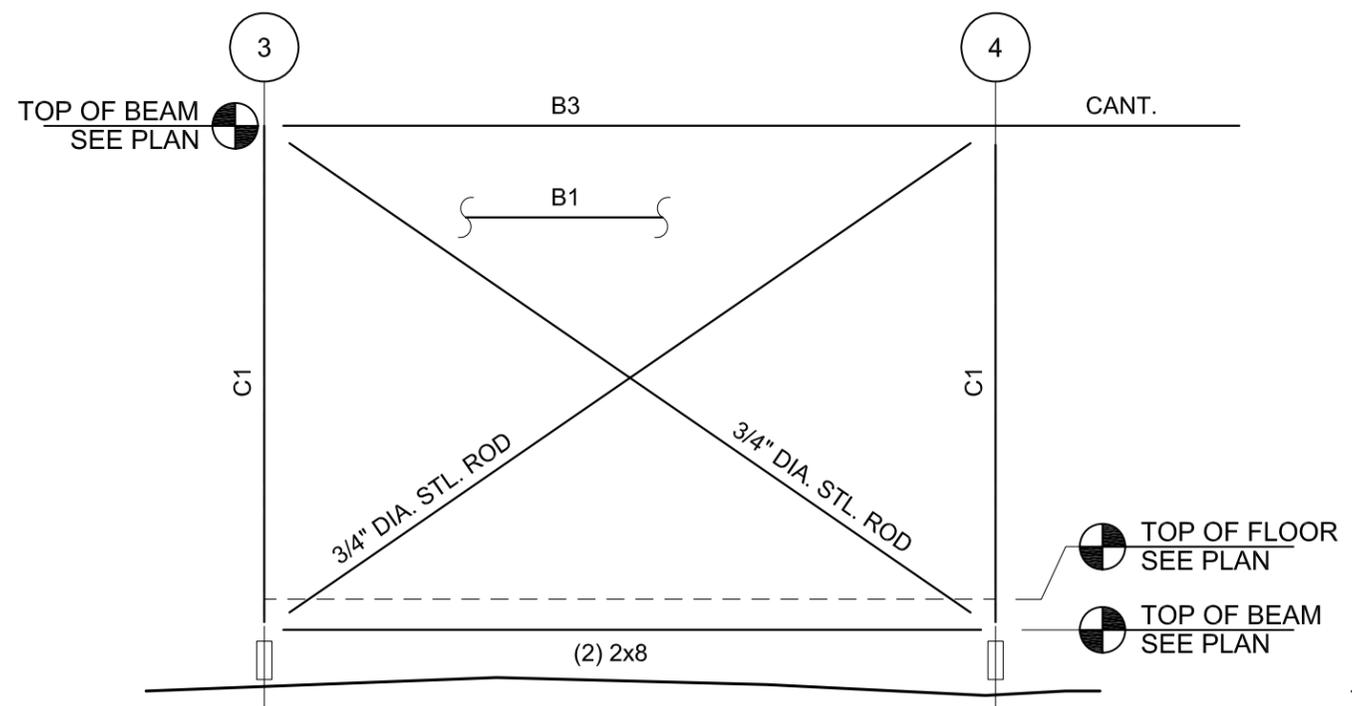
1 ROOF FRAMING PLAN

S.1.3

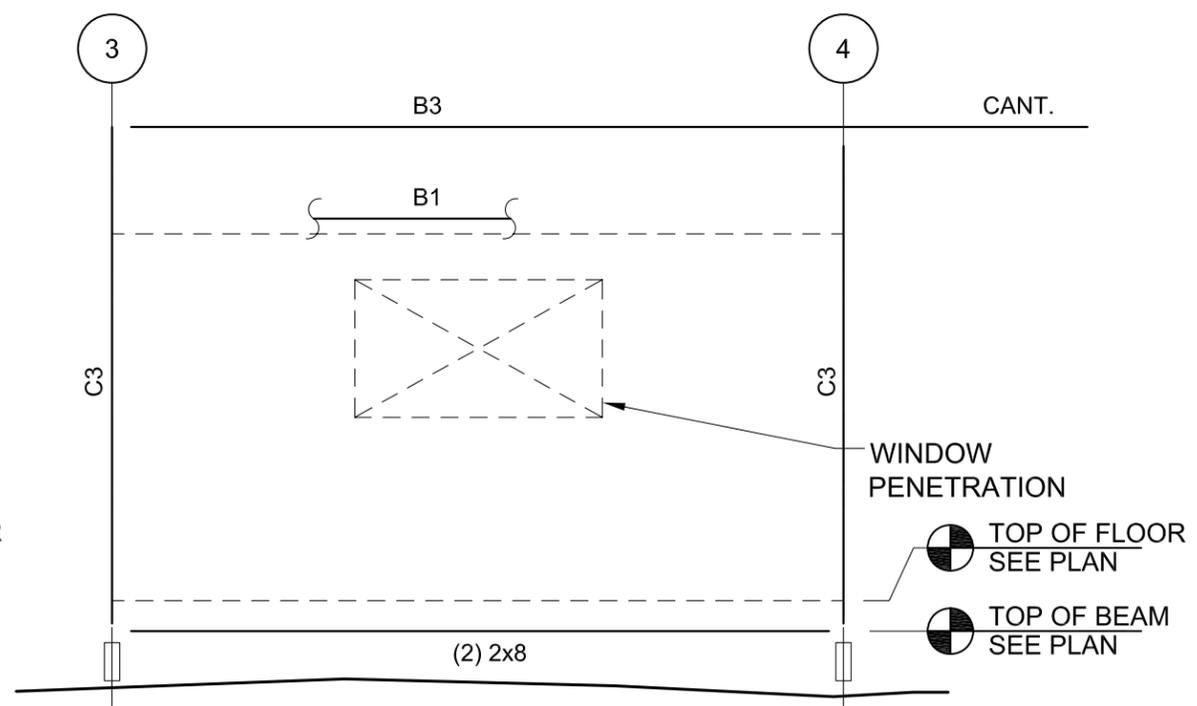
S.1.3



2
S.2.0 **STRUCTURAL FRAME ELEVATION**
 AT SHEARWALLS SW-1, SW-2, SW-3, SW-4



3
S.2.0 **STRUCTURAL FRAME ELEVATION**
 AT FRAME FR-2



1
S.2.0 **STRUCTURAL FRAME ELEVATION**
 AT SHEARWALL SW-5

revision	description	date

consultants:

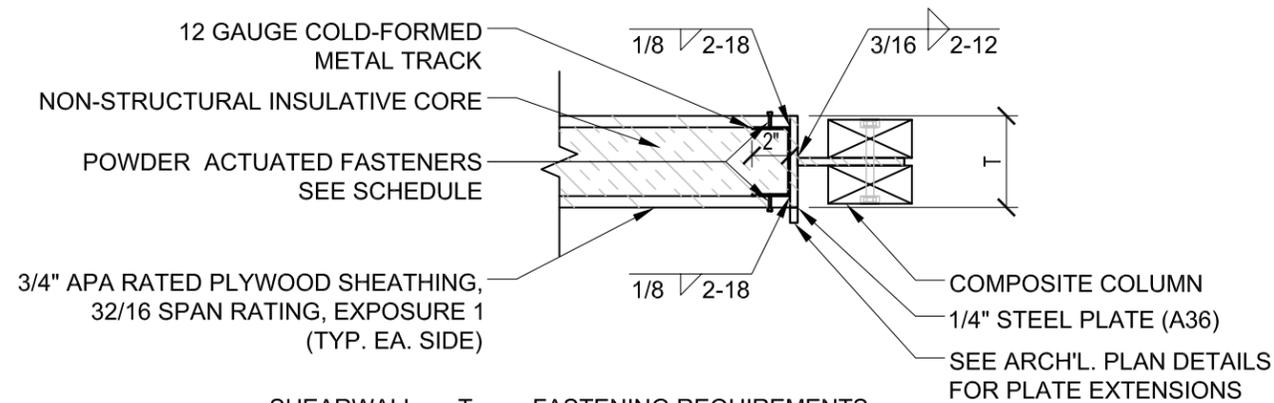


prepared by:
Jamie O'Kelley
 date drawn:
12.04.06

scale: **as noted**

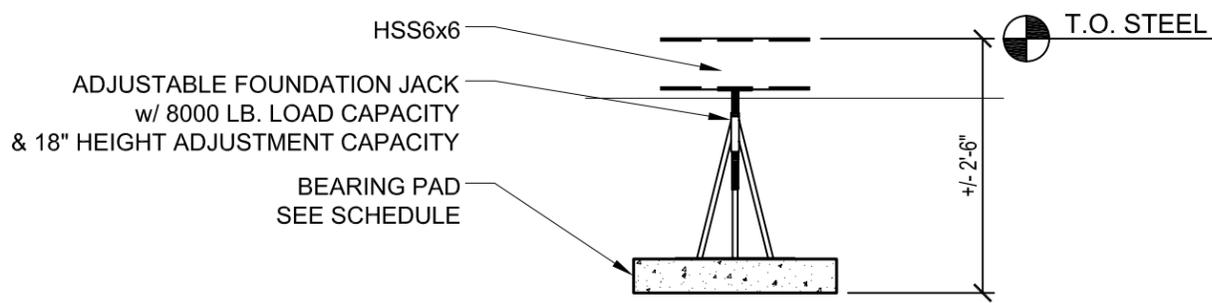
S.2.0

STRUCTURAL FRAME ELEVATIONS



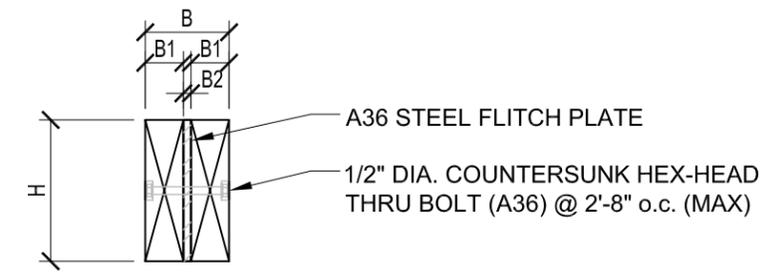
SHEARWALL	T	FASTENING REQUIREMENTS
SW-1, SW-2 SW-3, SW-4	6"	0.145" DIA. POWDER ACTUATED FASTENERS @ 6" o.c. BOTH SIDES AND AT ALL EDGES
SW-5	8"	0.145" DIA. POWDER ACTUATED FASTENERS @ 6" o.c. BOTH SIDES AND AT ALL EDGES

4 SHEARWALL SCHEDULE
S.2.1



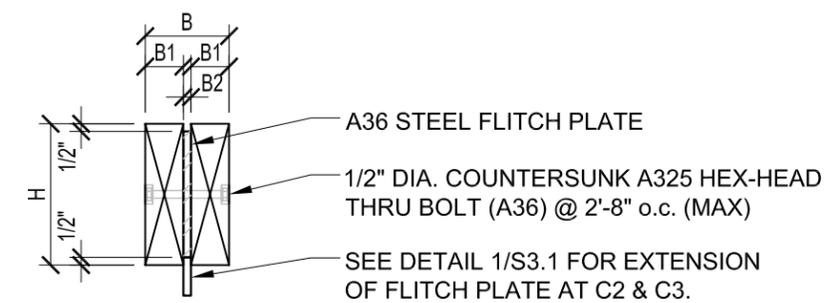
FOOTING	SIZE	DESCRIPTION
F1	4" X 2'-0" X 2'-0"	2500PSI CONCRETE
F2	1'-0" X 2'-0" X 2'-0"	2500PSI CONCRETE WITH 3-#4x1'-8" HORIZ. REINF. EA. WAY

3 FOOTING SCHEDULE
S.2.1



BEAM	B	B1	B2	H	WOOD SPECIES & GRADE
B1	5-1/2"	2-1/2"	1/2"	9-1/4"	FIR-LARCH (SELECT STRUCTURAL)
B2	5-1/2"	2-1/2"	1/2"	9-1/4"	FIR-LARCH (SELECT STRUCTURAL)
B3	5-1/2"	2-1/2"	1/2"	9-1/4"	FIR-LARCH (SELECT STRUCTURAL)

2 COMPOSITE BEAM SCHEDULE
S.2.1



COLUMN	B	B1	B2	H	WOOD SPECIES & GRADE
C1	5-1/2"	2-1/2"	1/2"	7-1/4"	FIR-LARCH (SELECT STRUCTURAL)
C2	5-1/2"	2-1/2"	1/2"	5-1/2"	FIR-LARCH (SELECT STRUCTURAL)
C3	5-1/2"	2-1/2"	1/2"	5-1/2"	FIR-LARCH (SELECT STRUCTURAL)

1 COMPOSITE COLUMN SCHEDULE
S.2.1

revision	description	date

consultants:

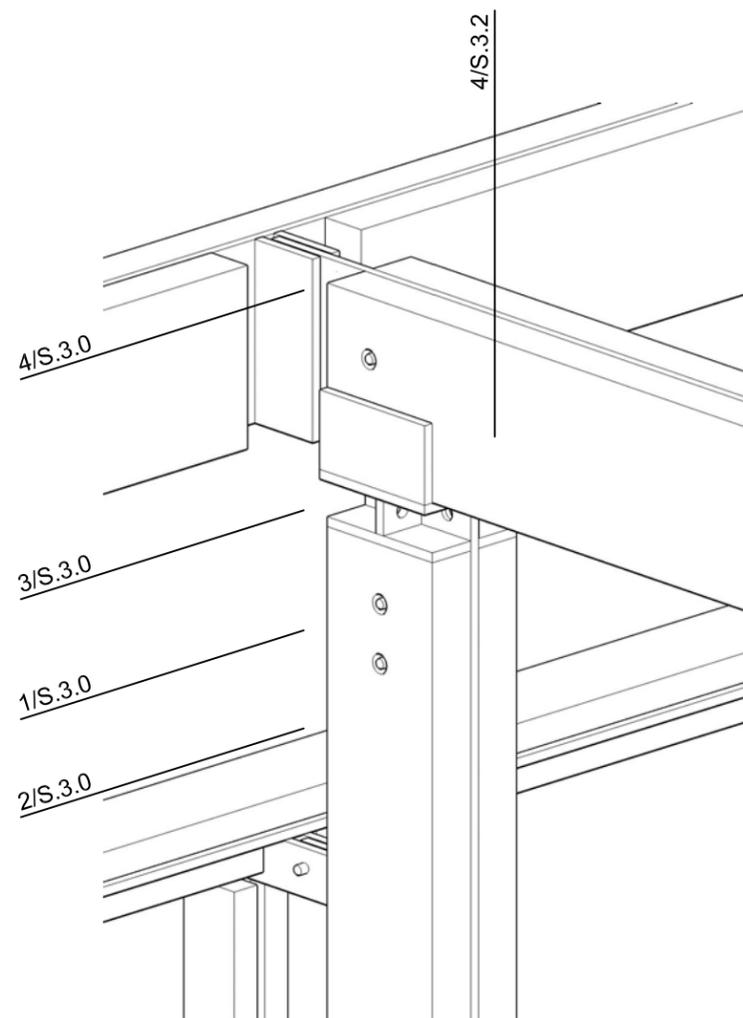
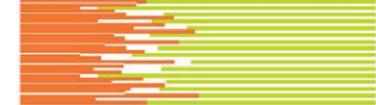


prepared by:
Jamie O'Kelley
date drawn:
12.04.06

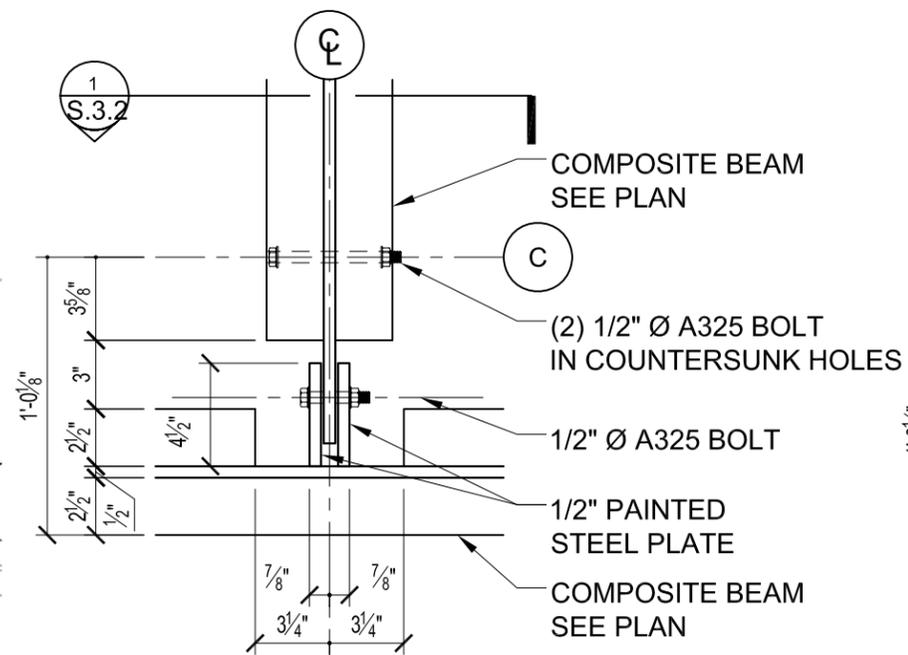
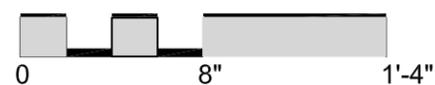
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S.2.1

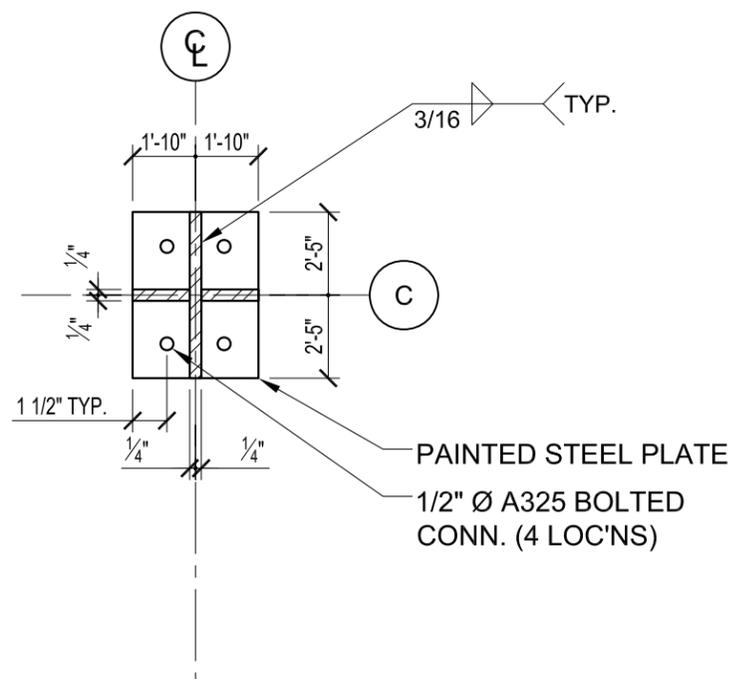
STRUCTURAL MEMBER SCHEDULES



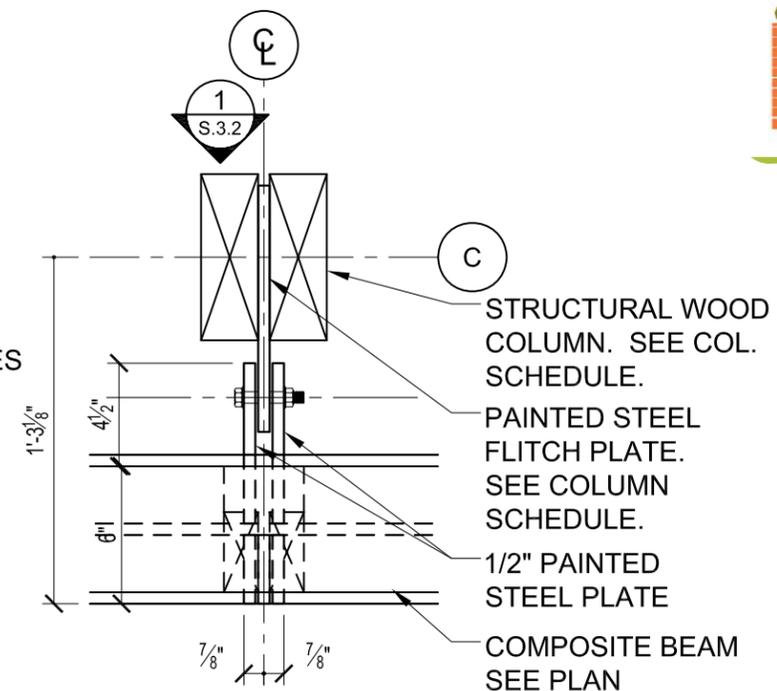
5 **AXONOMETRIC**
S.3.0 TYP. POST AT SOUTH WALL



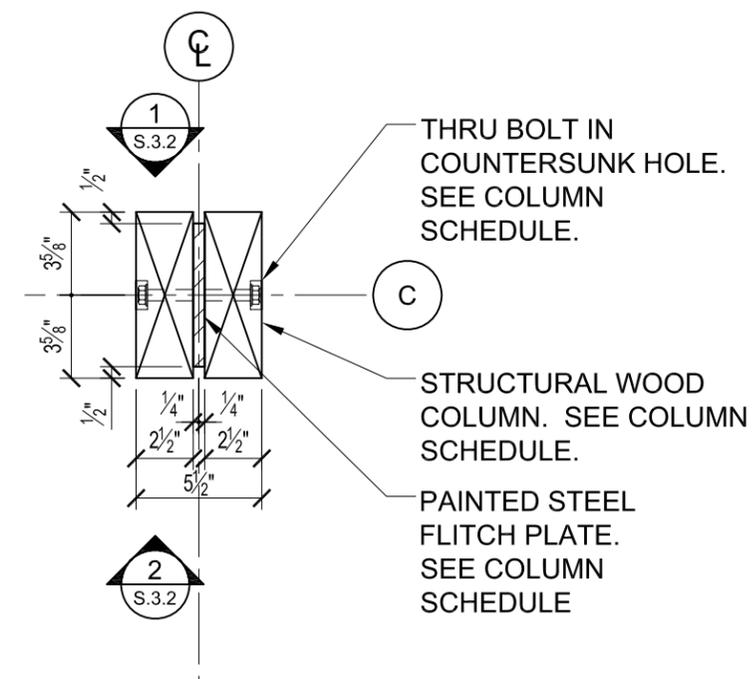
4 **PLAN DETAIL @ ROOF BEAM**
S.3.0 TYP. POST AT SOUTH FACADE



3 **PLAN DETAIL @ STEEL CONNECTION**
S.3.0 TYP. POST AT SOUTH FACADE



2 **PLAN DETAIL @ CLERESTORY**
S.3.0 TYP. POST AT SOUTH FACADE



1 **PLAN DETAIL @ MID HEIGHT**
S.3.0 TYP. POST AT SOUTH FACADE

revision	description	date

consultants:

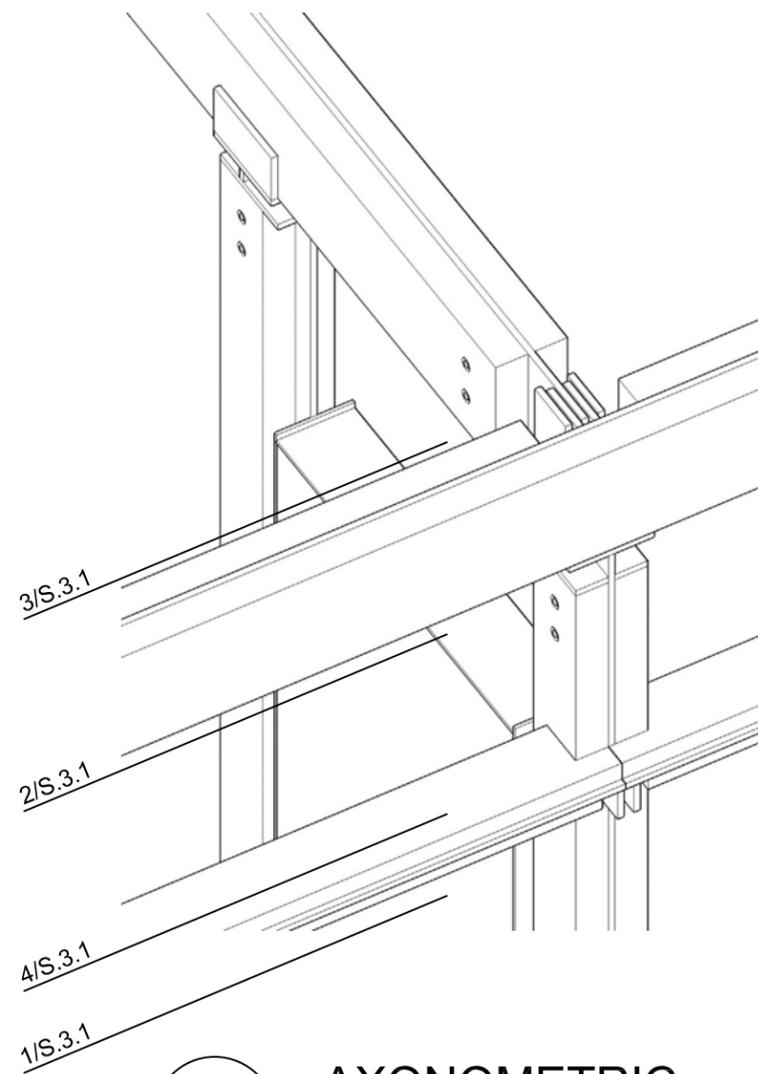
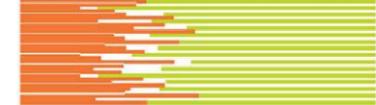


prepared by:
Jamie O'Kelley
date drawn:
12.04.06

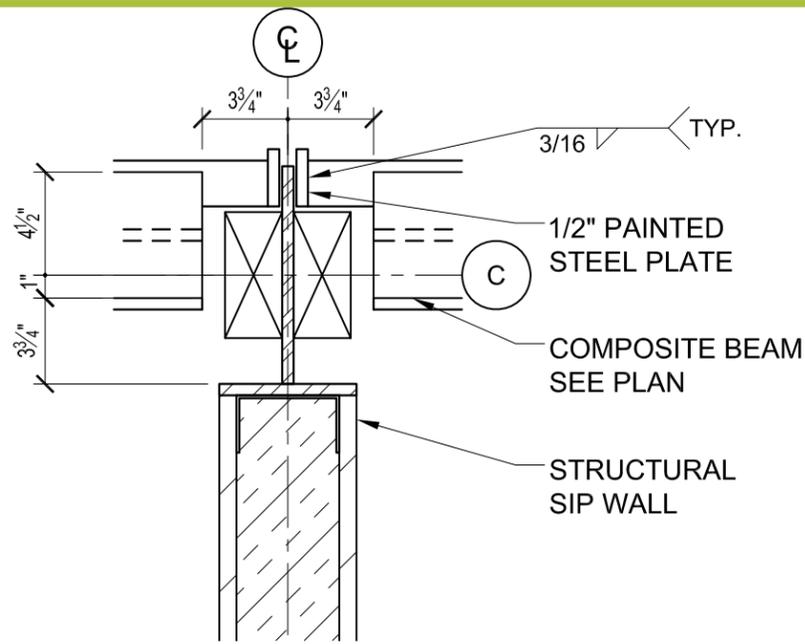
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S.3.0

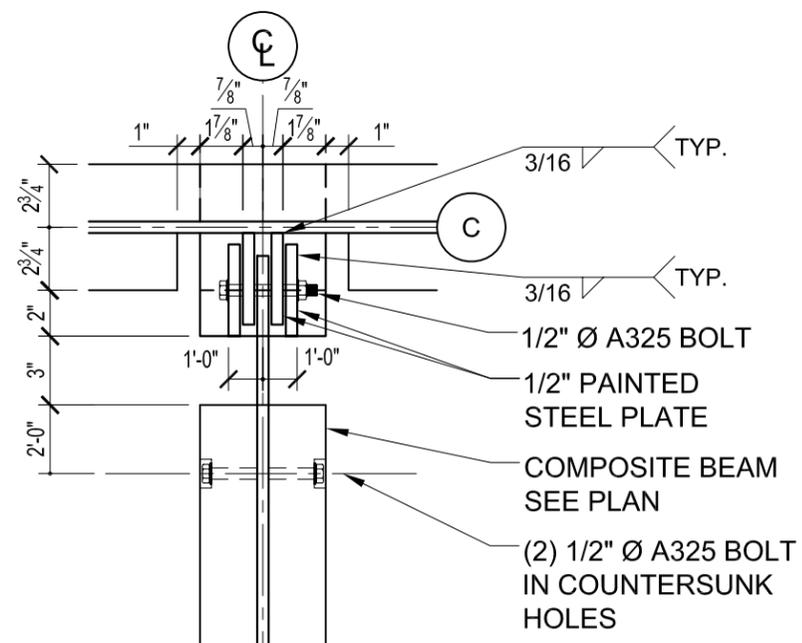
STRUCTURAL ROOF DETAILS



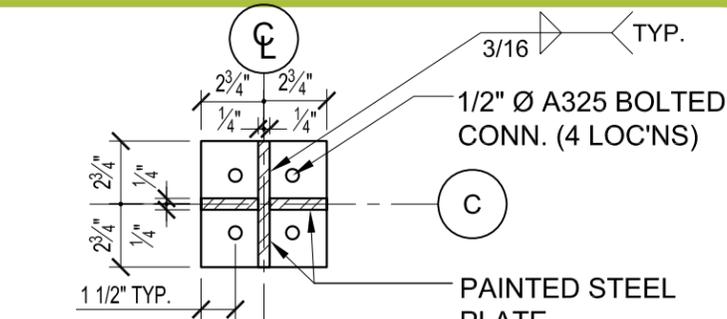
5 **AXONOMETRIC**
S.3.1 TYP. POST AT NORTH WALL



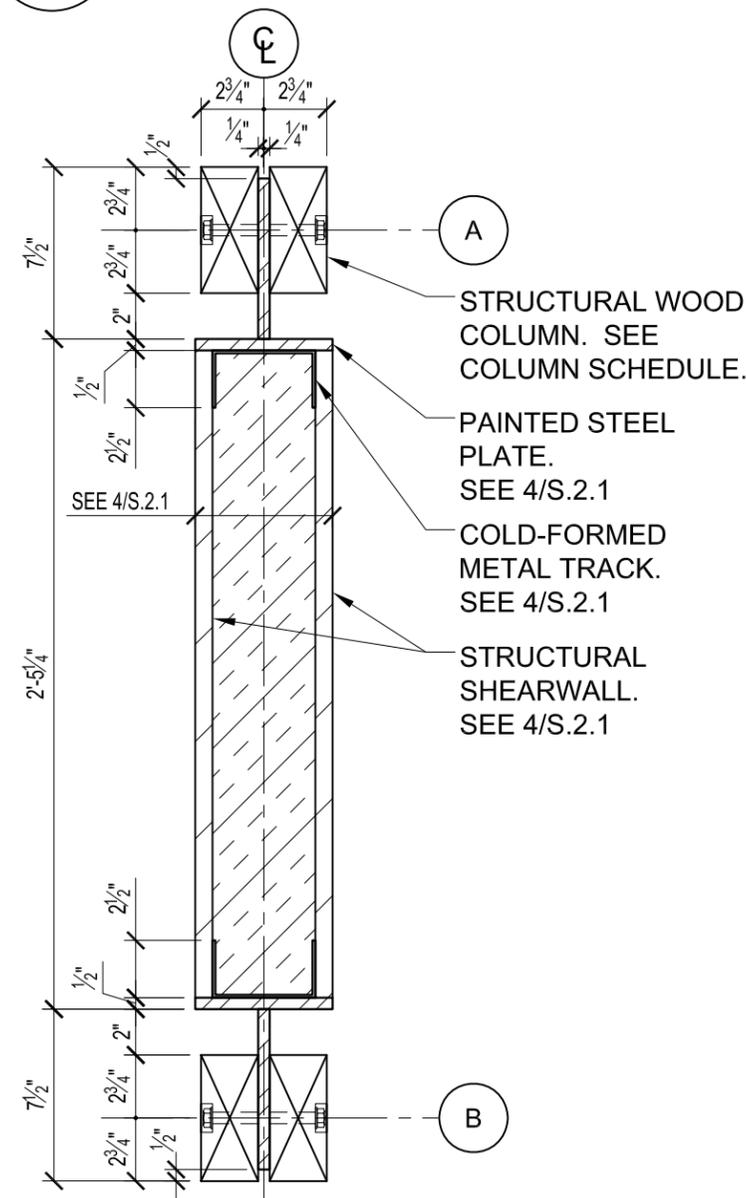
4 **PLAN DETAIL @ CLERESTORY**
S.3.1 TYP. POST @ NORTH WALL



3 **PLAN DETAIL @ ROOF**
S.3.1 TYP. POST @ NORTH WALL



2 **PLAN DETAIL @ STEEL CONN.**
S.3.1 TYP. POST @ NORTH WALL



1 **PLAN DETAIL @ SHEARWALL**
S.3.1 TYP. TRANSVERSE SHEAR WALL

date
description
revision

consultants:

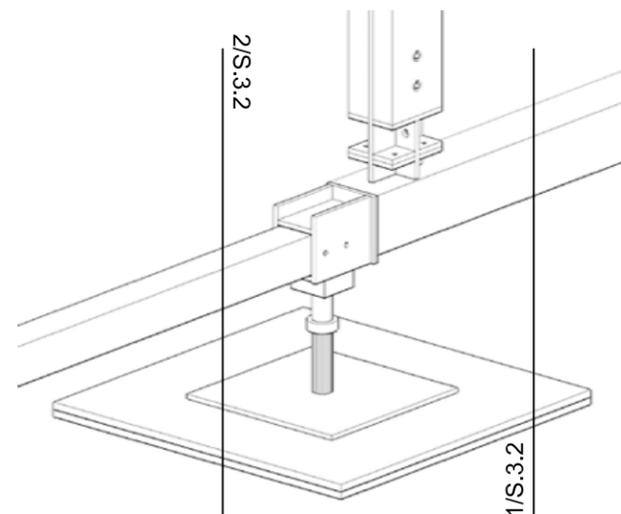


prepared by:
Jamie O'Kelley
date drawn:
12.04.06

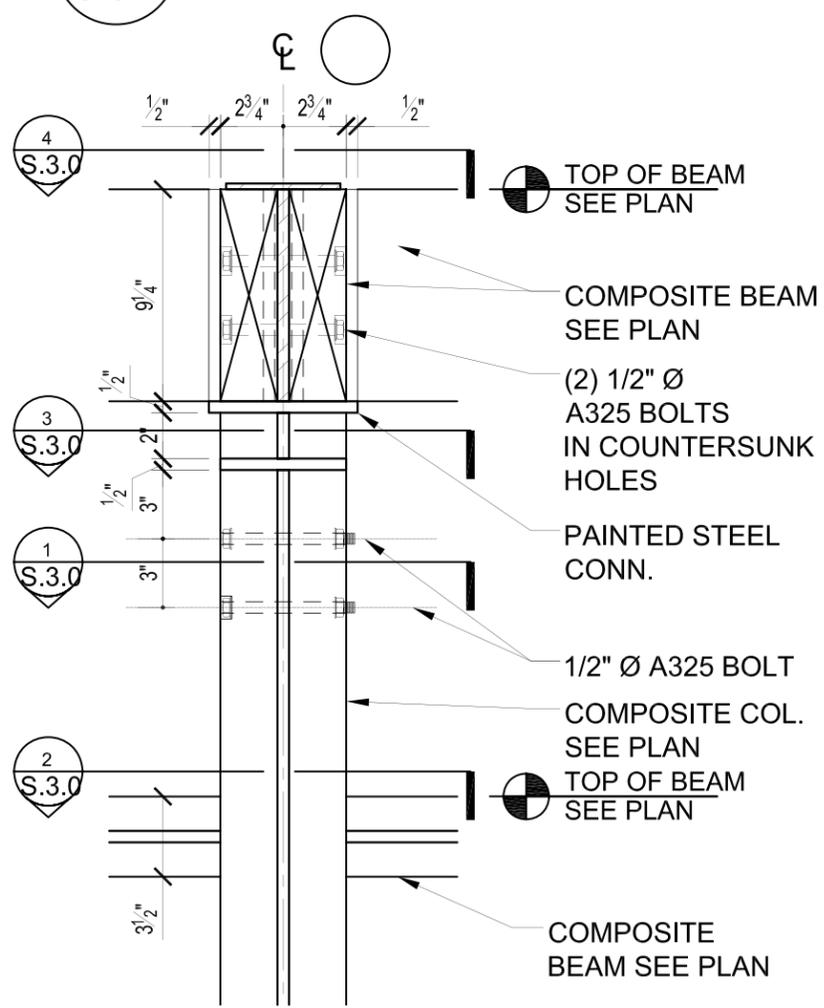
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S.3.1

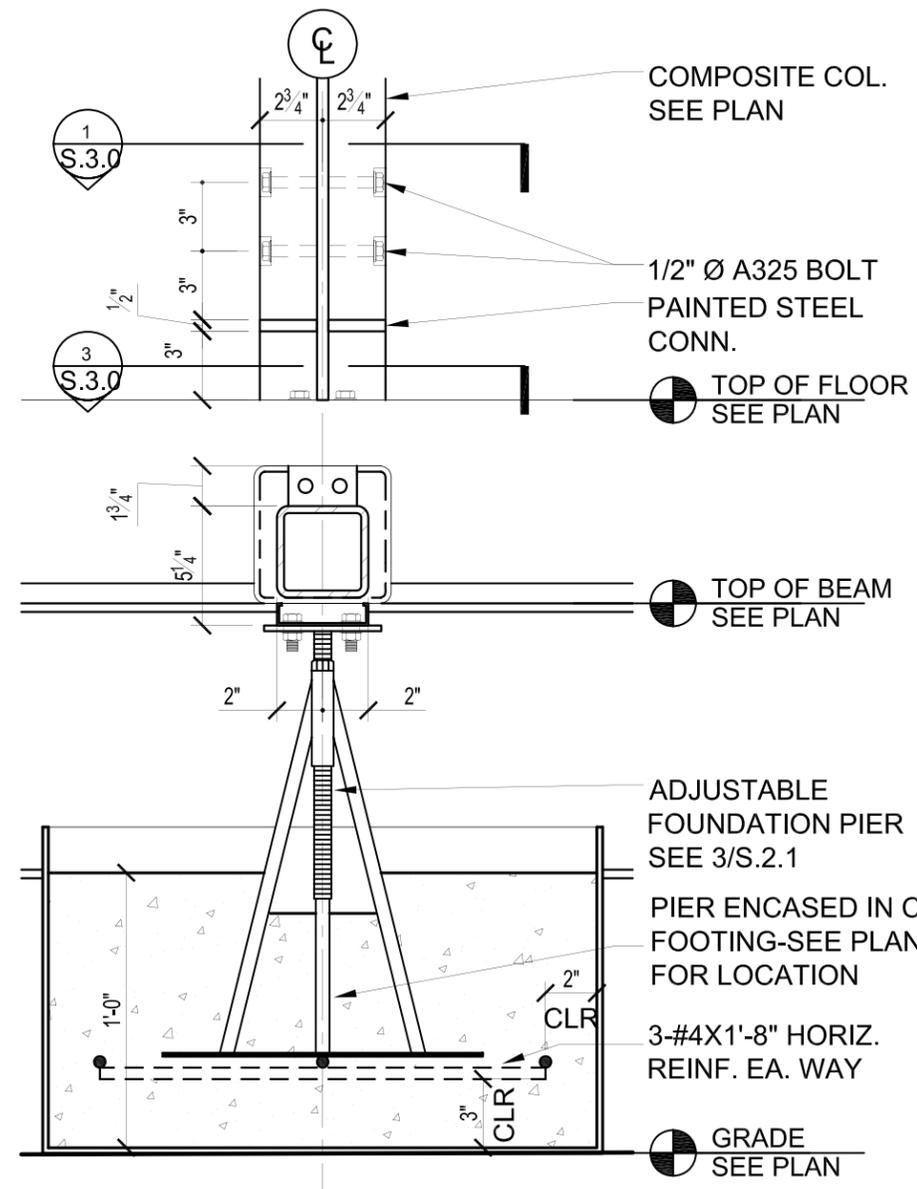
STRUCTURAL DETAILS



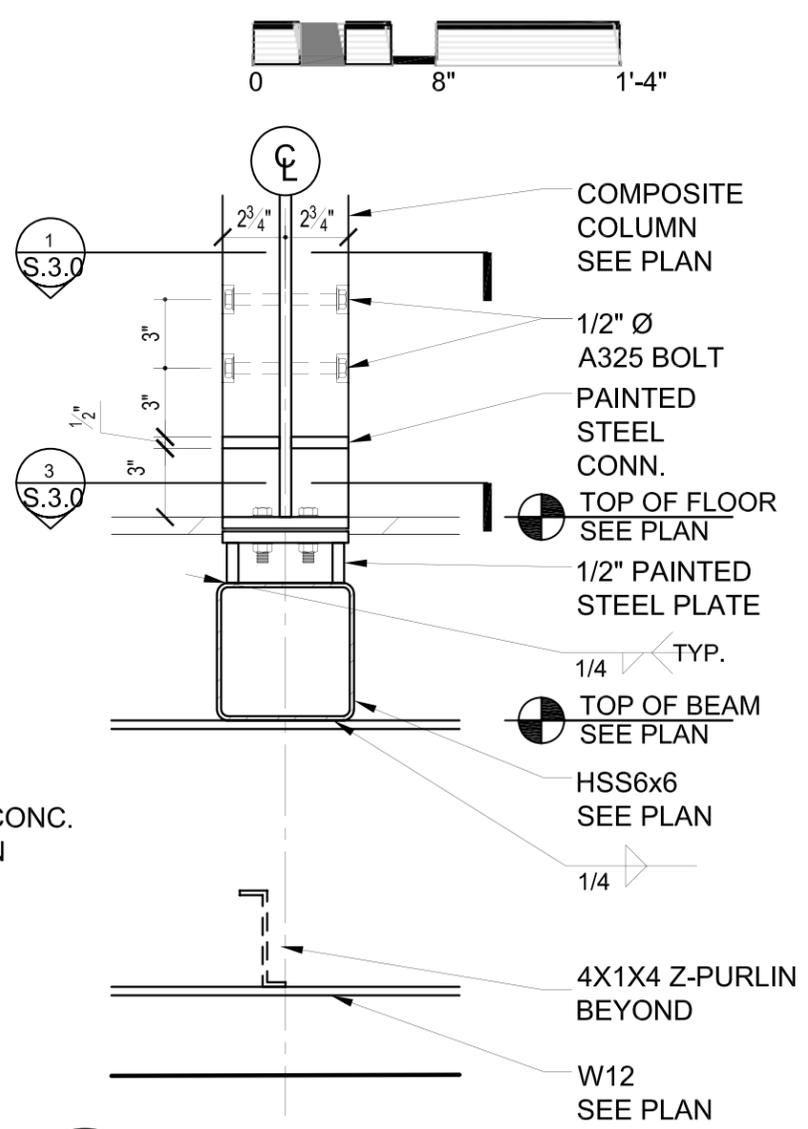
3
S.3.2
AXONOMETRIC
TYP. POST CONN. AT BASE



4
S.3.2
ELEVATION DETAIL
TYP. POST AT SOUTH FACADE



2
S.3.2
ELEVATION DETAIL
FOUNDATION PIER DETAIL



1
S.3.2
ELEVATION DETAIL
TYP. POST CONN. TO FLOOR

date
revision

consultants:

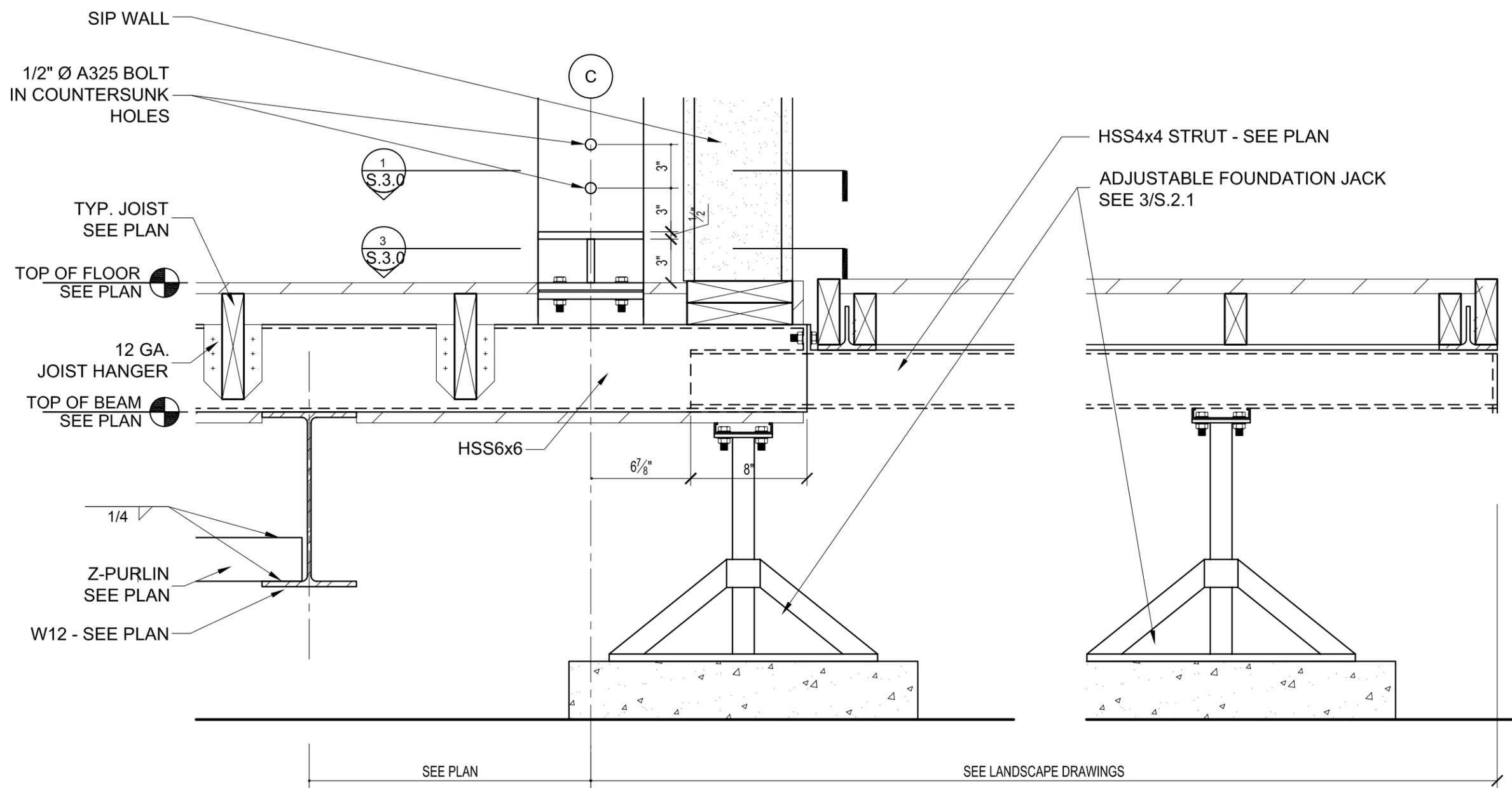
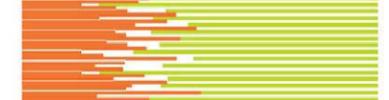


prepared by:
Jamie O'Kelley
C.VAN KLEY
date drawn:
12.04.06
3.06.07

scale: **1.5"=1'-0"**

S.3.2

STRUCTURAL DETAILS



2 FLOOR SECTION
S.3.3 AT SOUTH WALL

1 FLOOR SECTION
S.3.3 AT SOUTH DECK



date
revision
description

consultants:

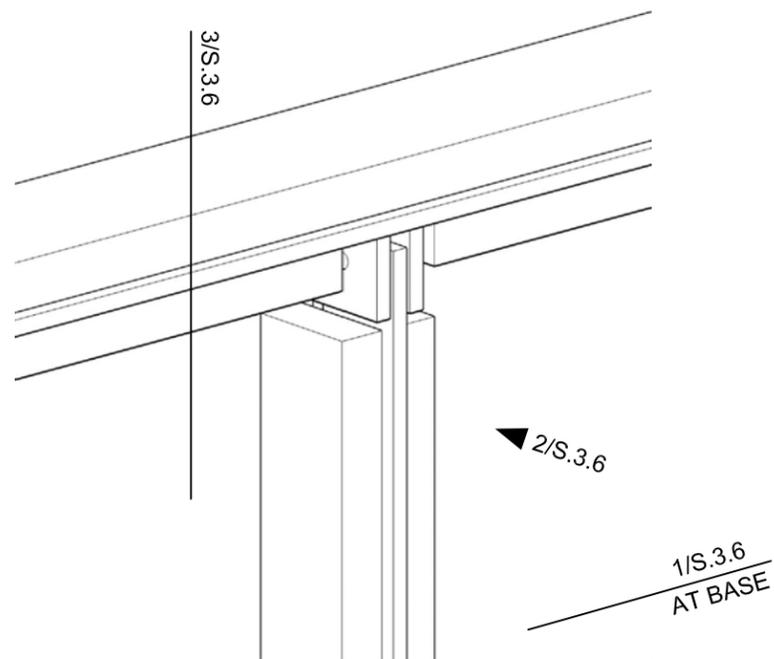
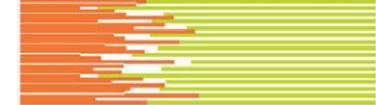


prepared by:
Jamie O'Kelley
C.VAN KLEY
 date drawn:
12.04.06
3.06.07

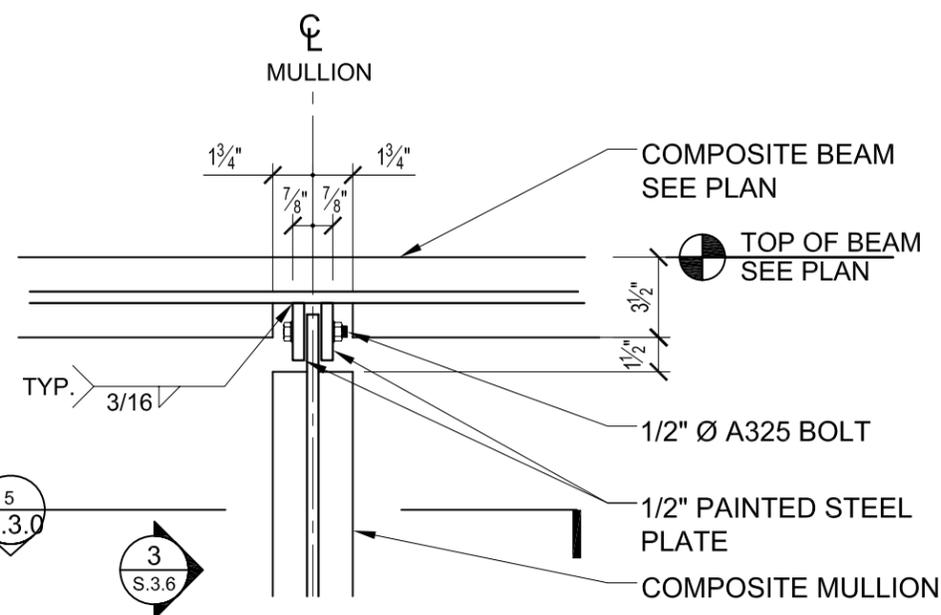
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S.3.3

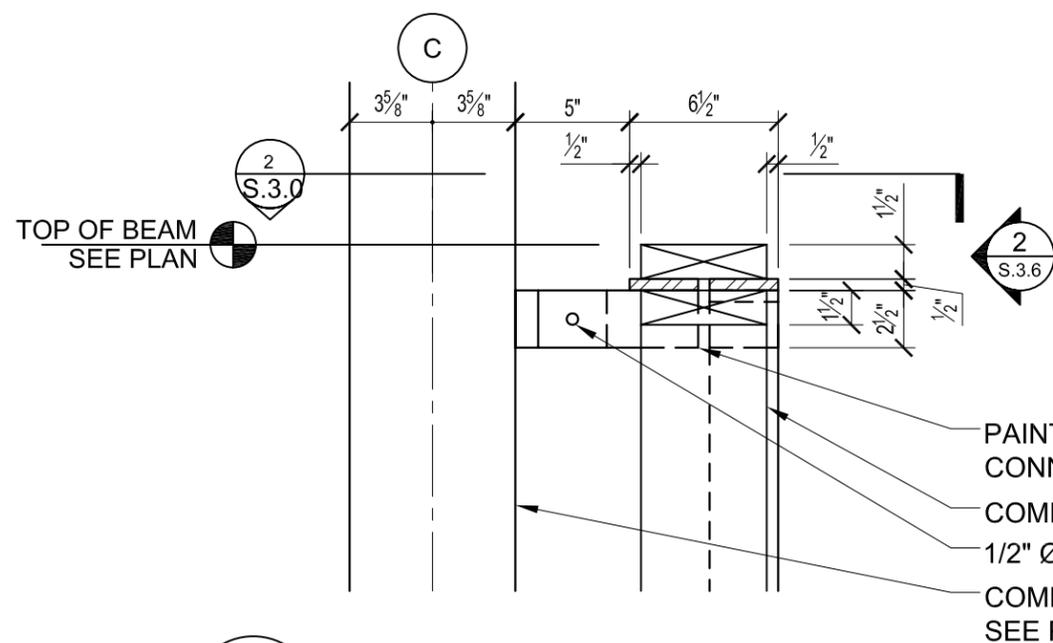
STRUCTURAL FLOOR DETAILS



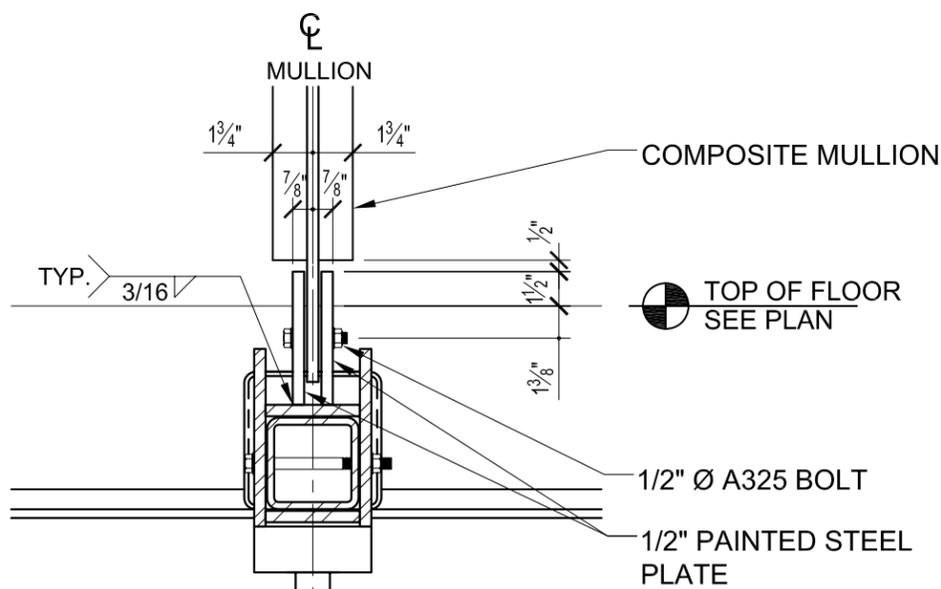
4 AXONOMETRIC
S.3.6 AT TYP. MULLION



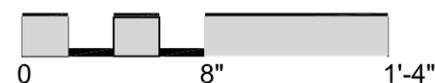
2 DETAIL
S.3.6 ELEVATION DETAIL AT TYP. MULLION



3 DETAIL
S.3.6 SECTION DETAIL AT TYP. MULLION



1 DETAIL
S.3.6 ELEVATION DETAIL AT TYP. MULLION



revision	description	date

consultants:

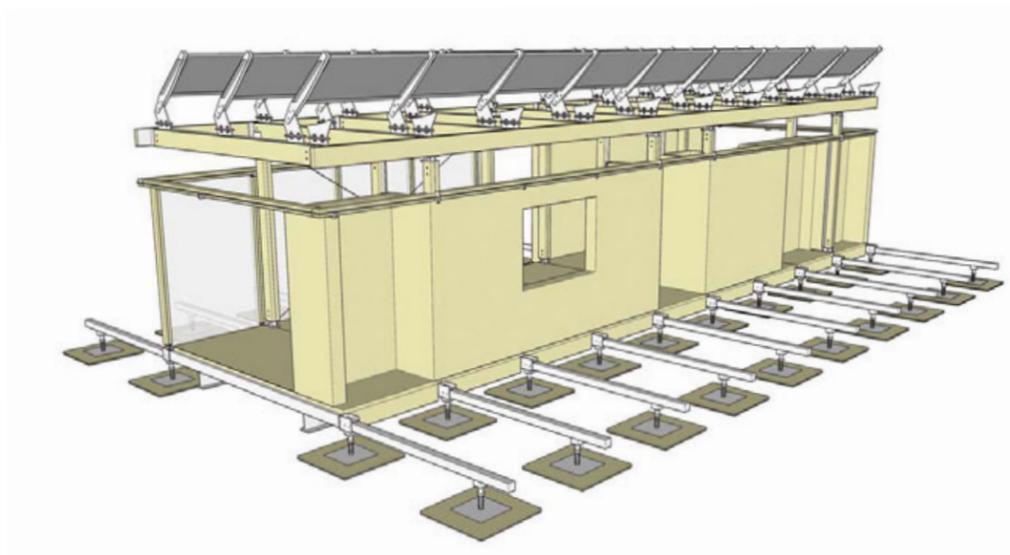
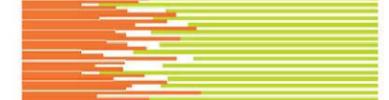


prepared by:
Jamie O'Kelley
date drawn:
12.04.06

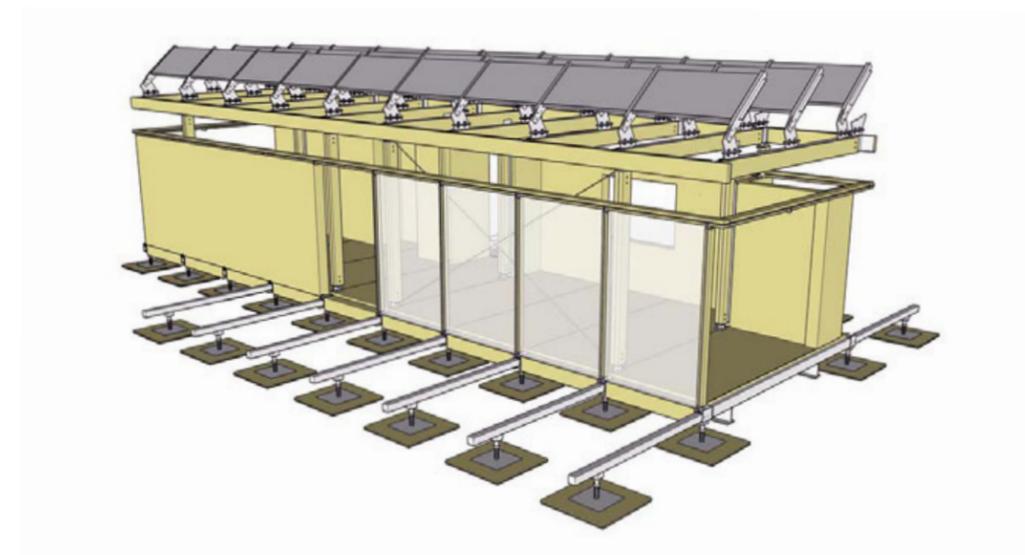
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S.3.6

STRUCTURAL DETAILS



2 SOUTHEAST PERSPECTIVE
S.4.0



1 NORTHEAST PERSPECTIVE
S.4.0

revision	description	date

consultants:

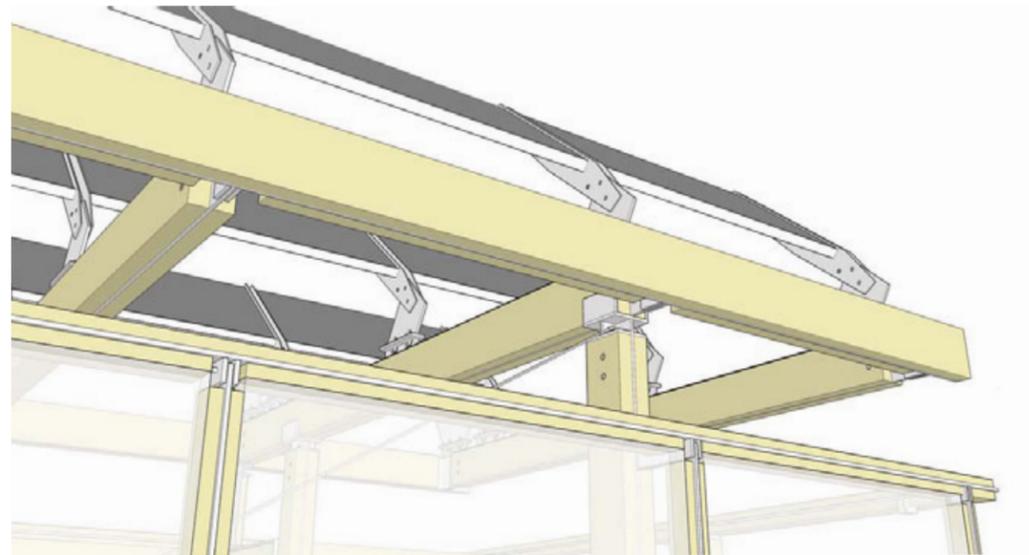
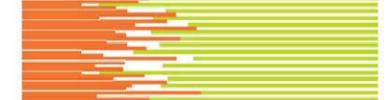


prepared by:
C.VAN KLEY
date drawn:
3.06.07

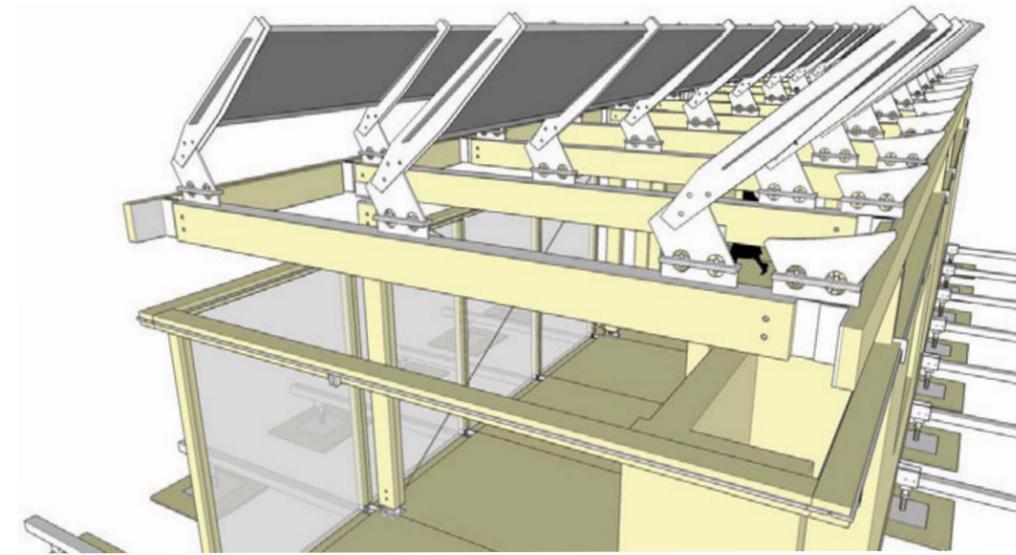
scale: **NONE**

S.4.0

STRUCTURAL IMAGES



4 CLERESTORY DETAIL
S.4.1



3 CLERESTORY DETAIL
S.4.1



2 INTERIOR PERSPECTIVE
S.4.1



1 INTERIOR PERSPECTIVE
S.4.1

revision	description	date

consultants:

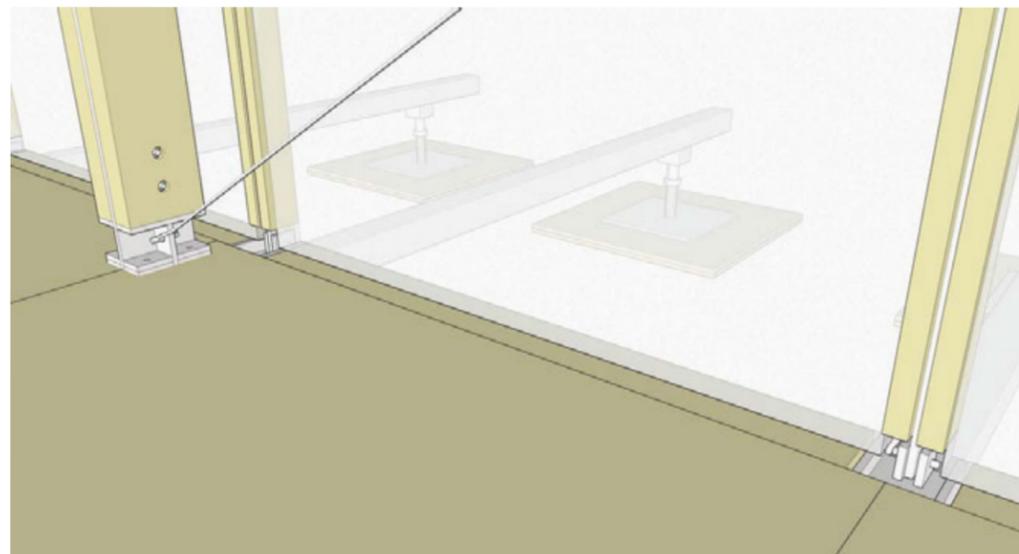
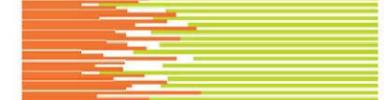


prepared by:
C.VAN KLEY
date drawn:
3.06.07

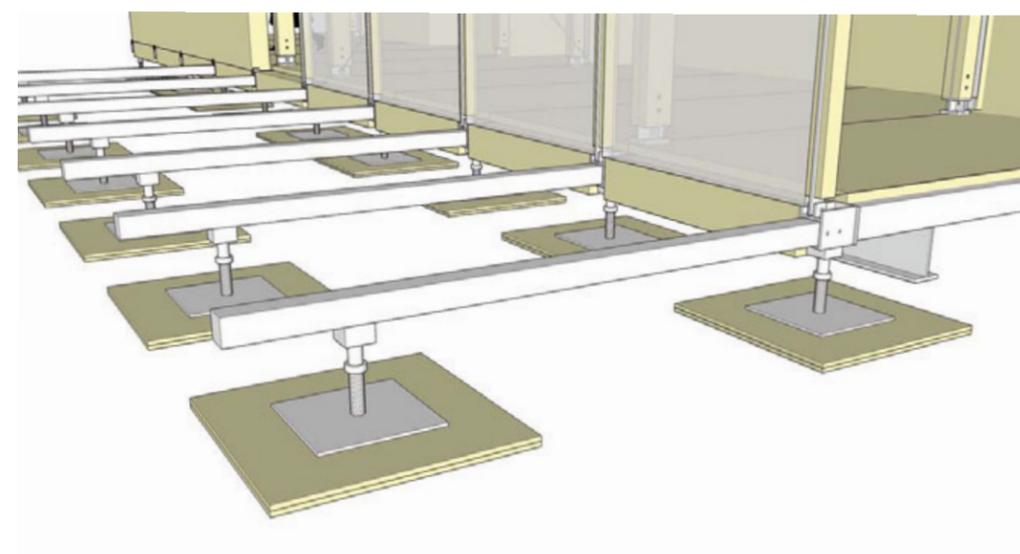
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S.4.1

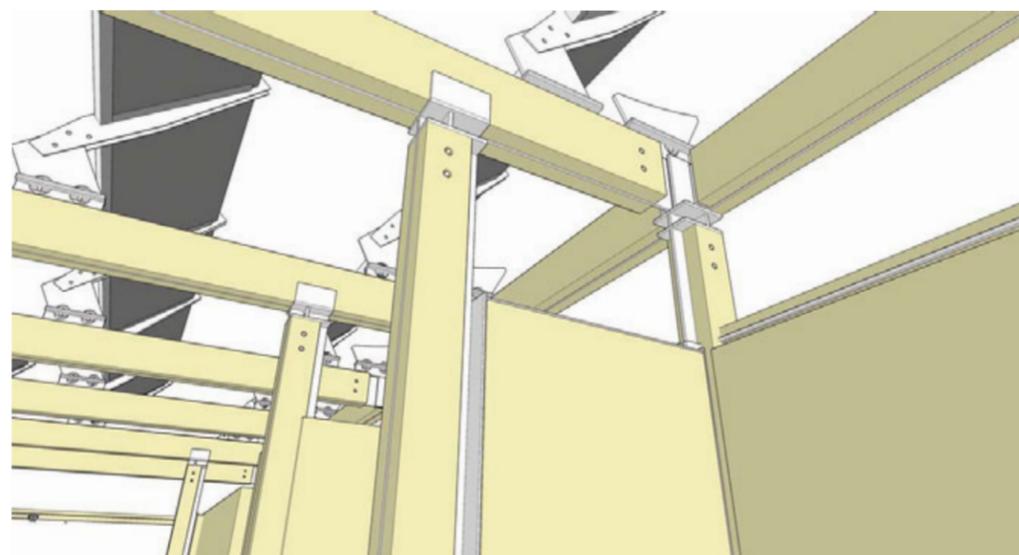
STRUCTURAL IMAGES



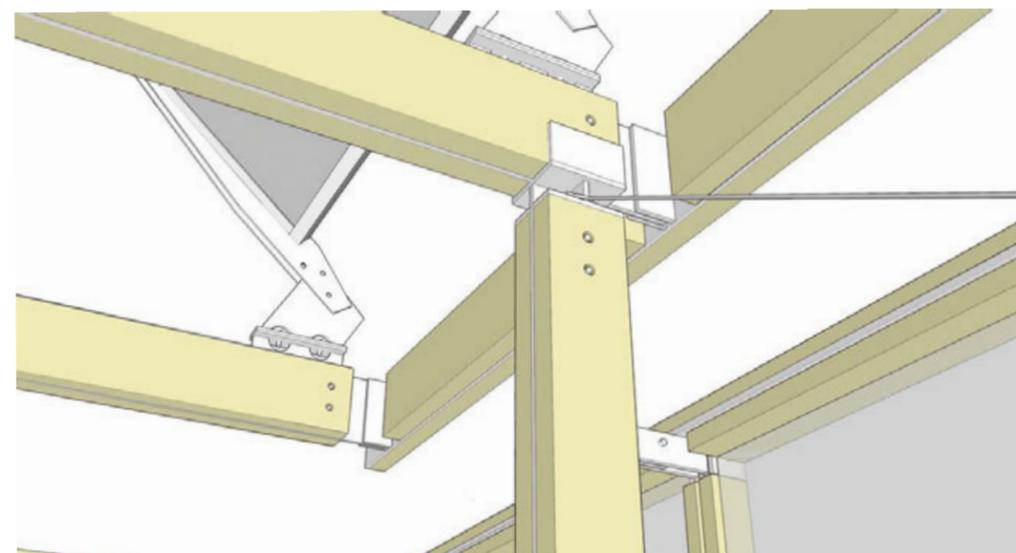
4 CONNECTION DETAIL
S.4.2



3 FOUNDATION DETAIL
S.4.2



2 CONNECTION DETAIL
S.4.2



1 CONNECTION DETAIL
S.4.2

revision	description	date

consultants:

- _____
- _____
- _____

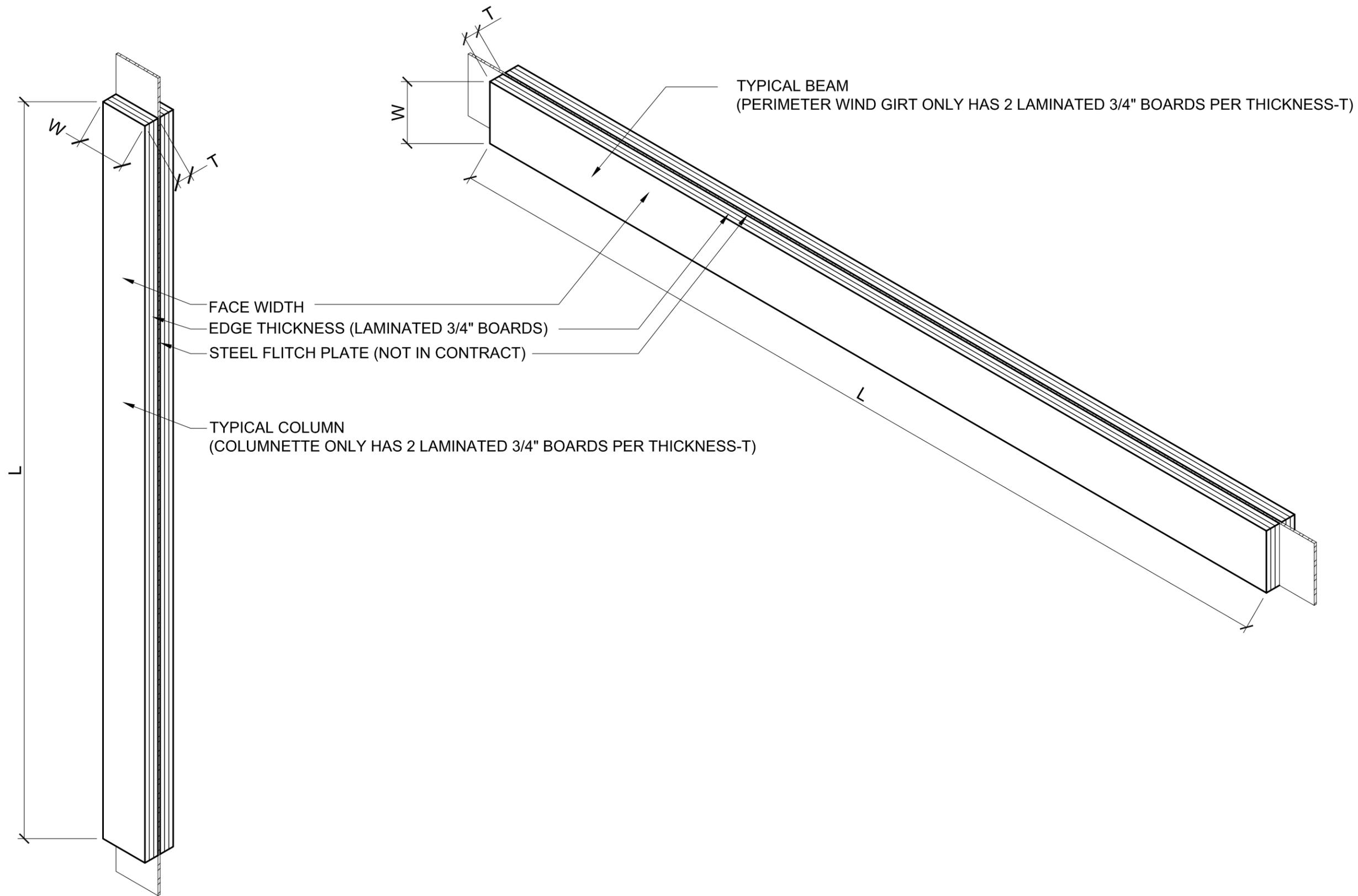
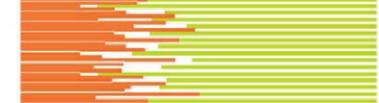


prepared by:
C.VAN KLEY
date drawn:
3.06.07

scale: **NONE**

S.4.2

STRUCTURAL IMAGES

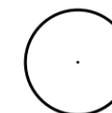


revision	description	date

consultants:



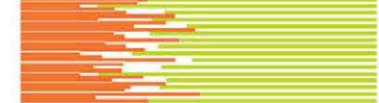
prepared by:
Joe Jamgochian
date drawn:
06.01.07



scale: **N.T.S.**

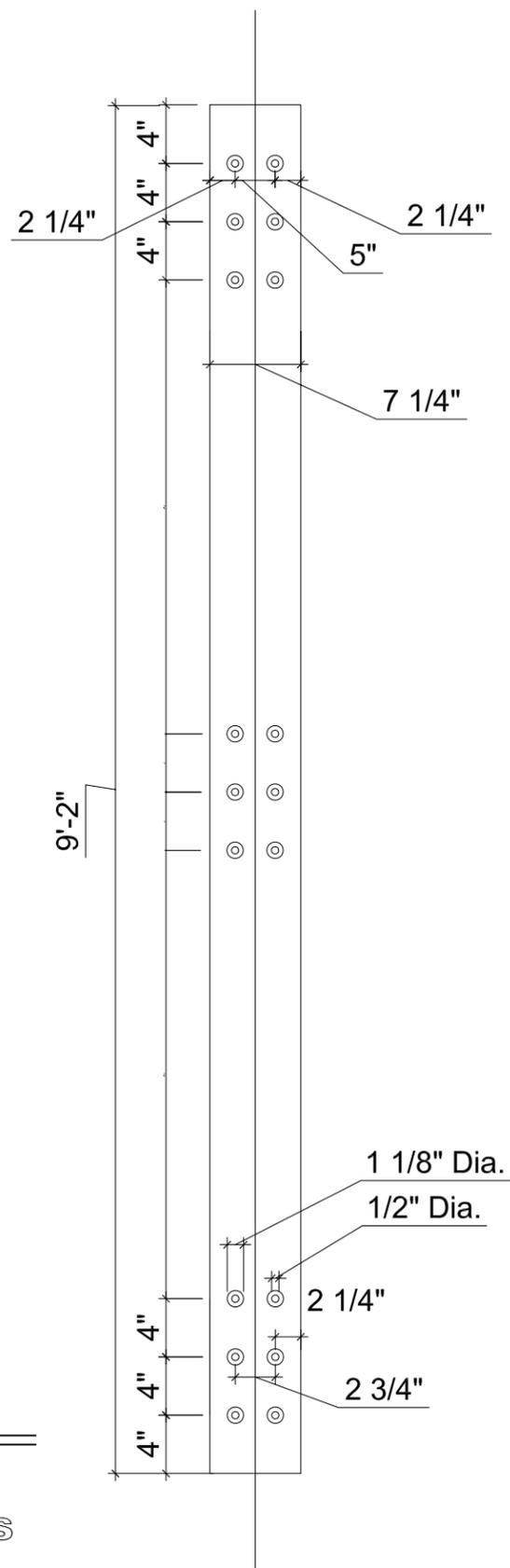
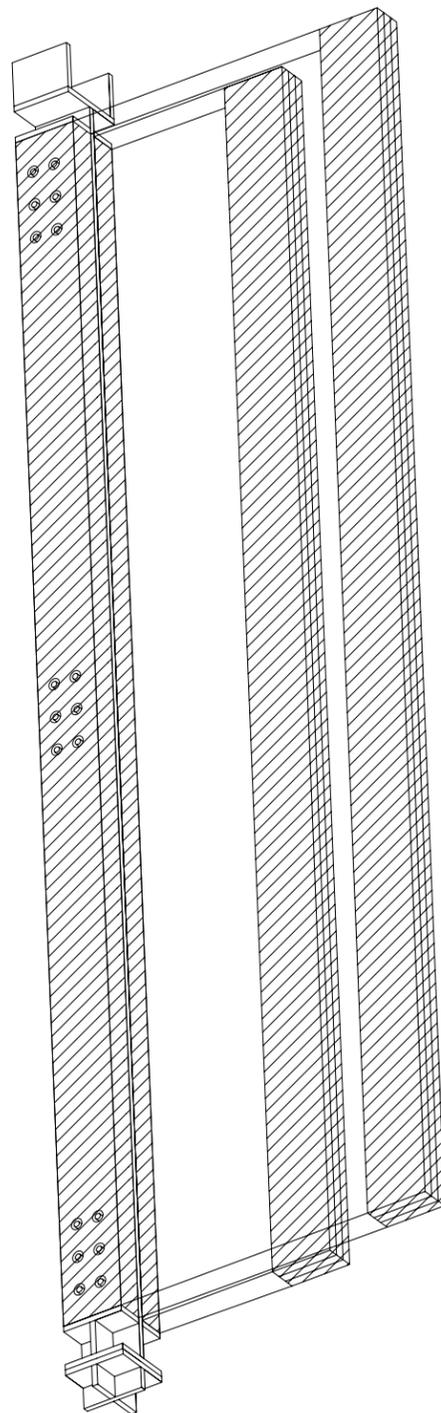
HARDWOOD STRUCTURAL MEMBERS

S.5.1



WOOD FRAME

C1



1
S.5.2

3-ply 3/4" Panels for C1 Column

Total Needed: 8 Panels

revision	description	date

consultants:



prepared by:

Matthew Erwin
Geoffrey Braiman

date drawn:

05.14.07



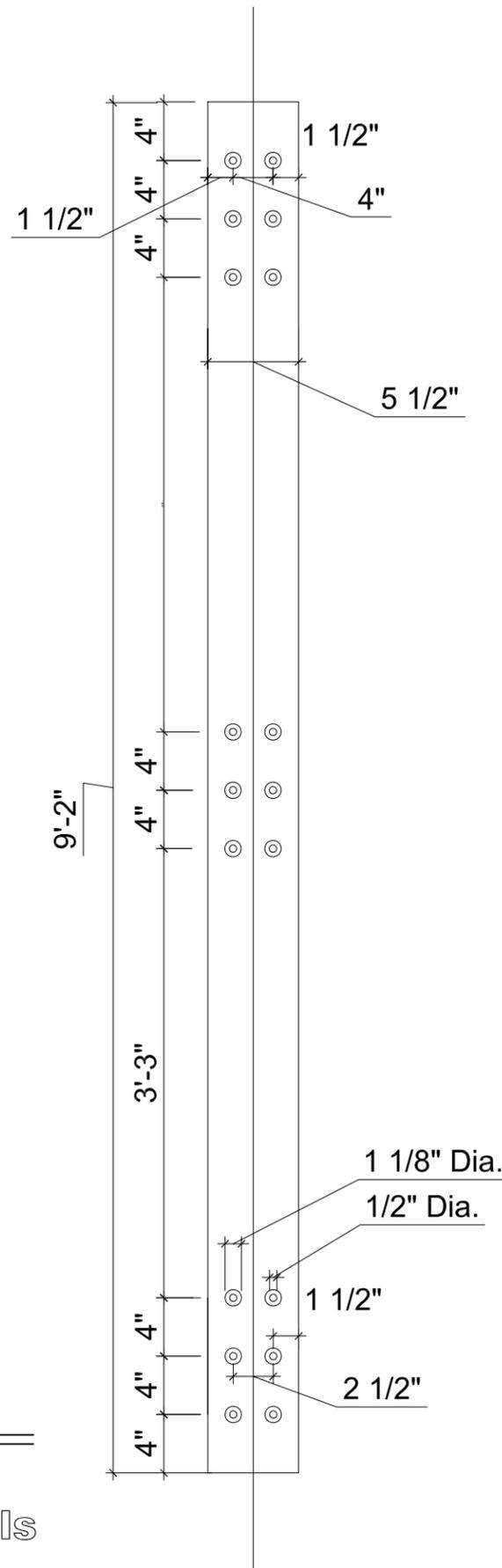
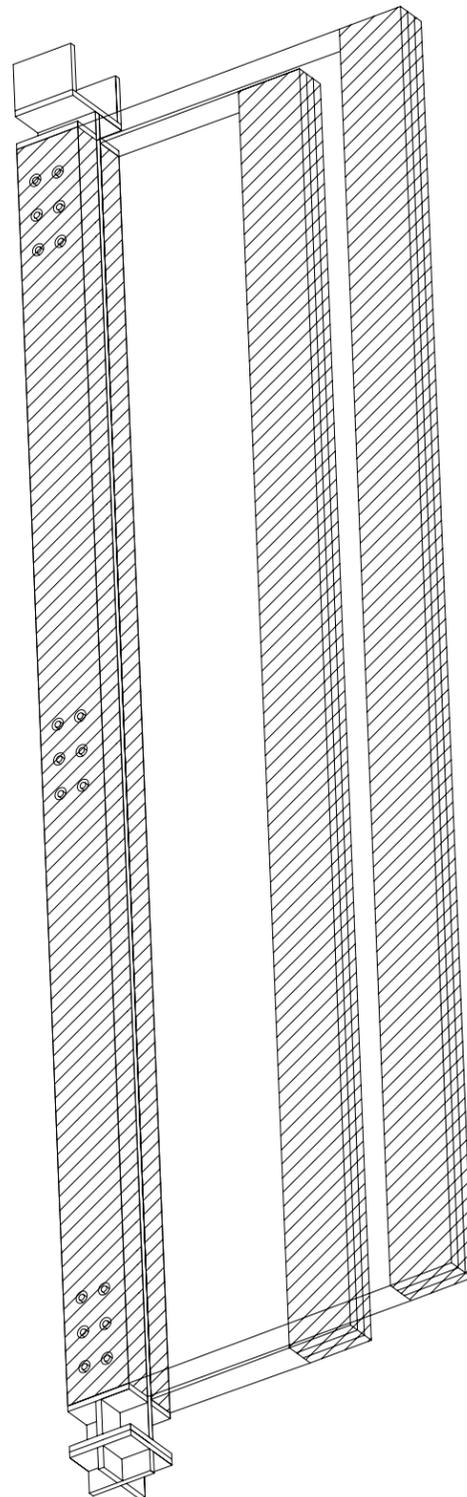
scale: **N.T.S.**

C1 COLUMN

S.5.2

WOOD FRAME

C2, C3



1 3-ply 3/4" Panels for C2/C3 Column
S.5.3

Total Needed: 16 Panels

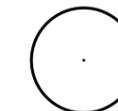
revision	description	date

consultants:



prepared by:
Matthew Erwin
Geoffrey Braiman

date drawn:
05.14.07



scale: **N.T.S.**

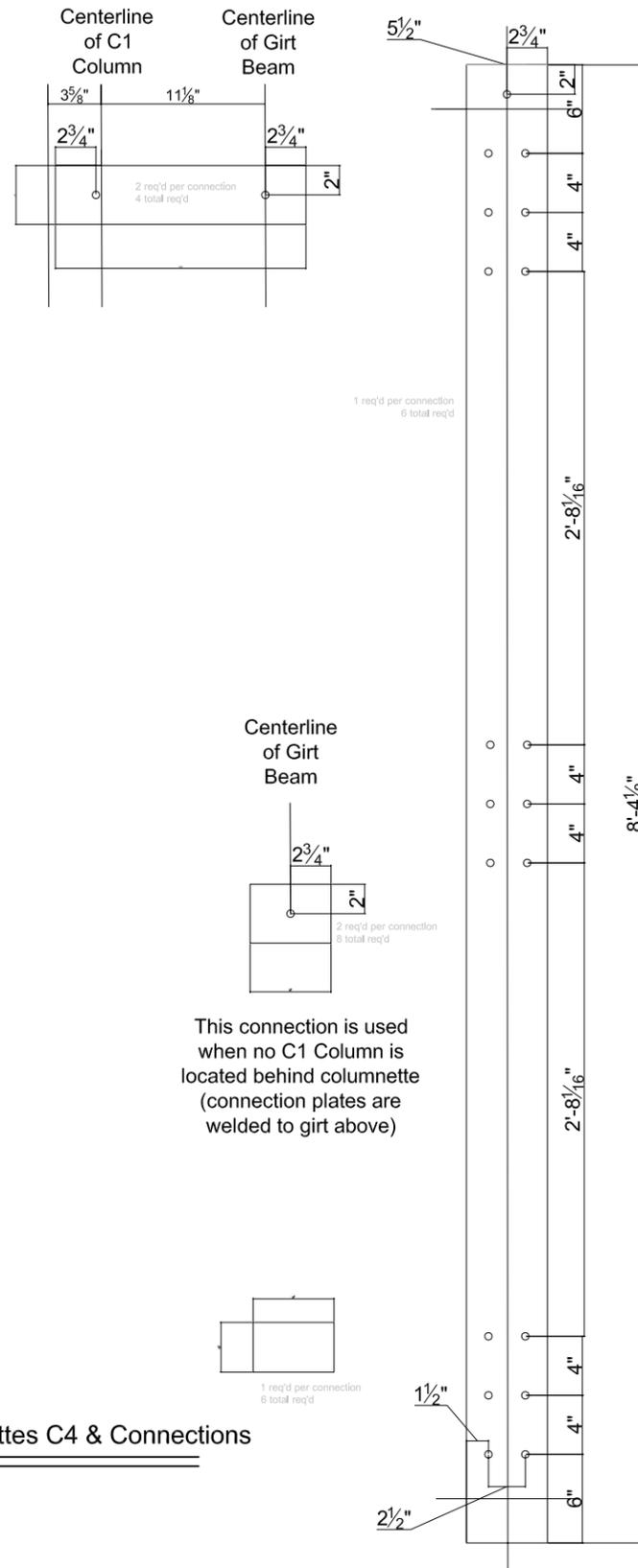
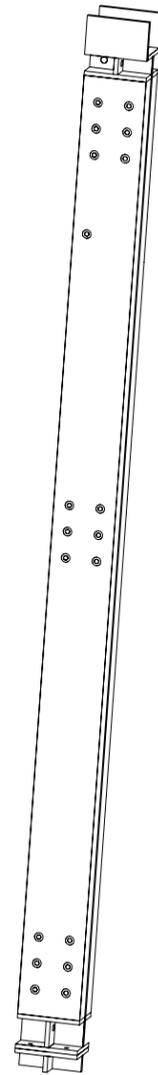
C2 & C3 COLUMNS

S.5.3

WOOD FRAME



C4: COLUMNNETTES



PART OF CONTRACT

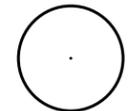
1	A36 Fitch Plates for Columnettes C4 & Connections
S.5.4	

date	description	revision

consultants:



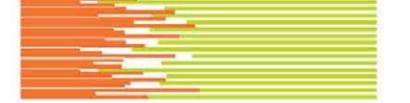
prepared by:
Matthew Erwin
Geoffrey Braiman
 date drawn:
05.14.07



scale: **N.T.S.**

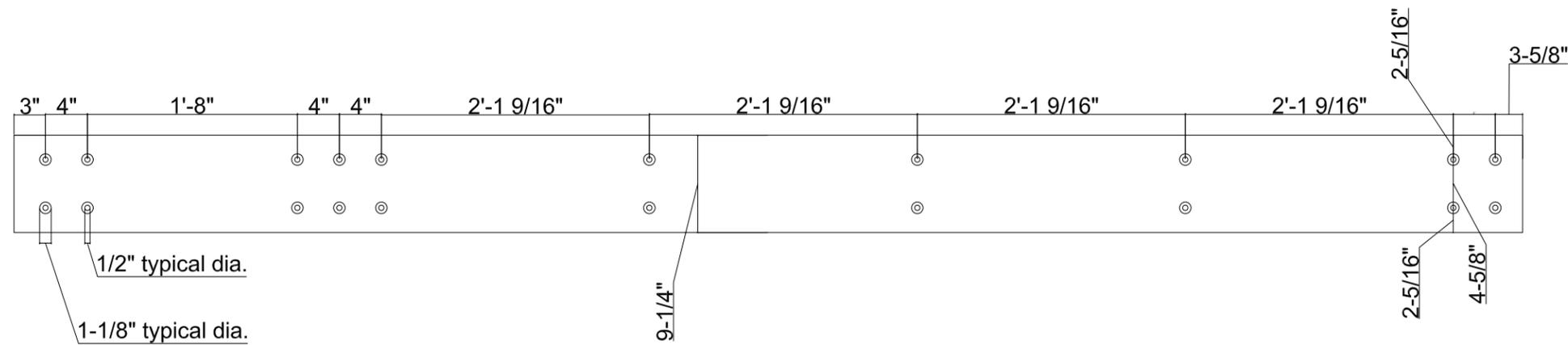
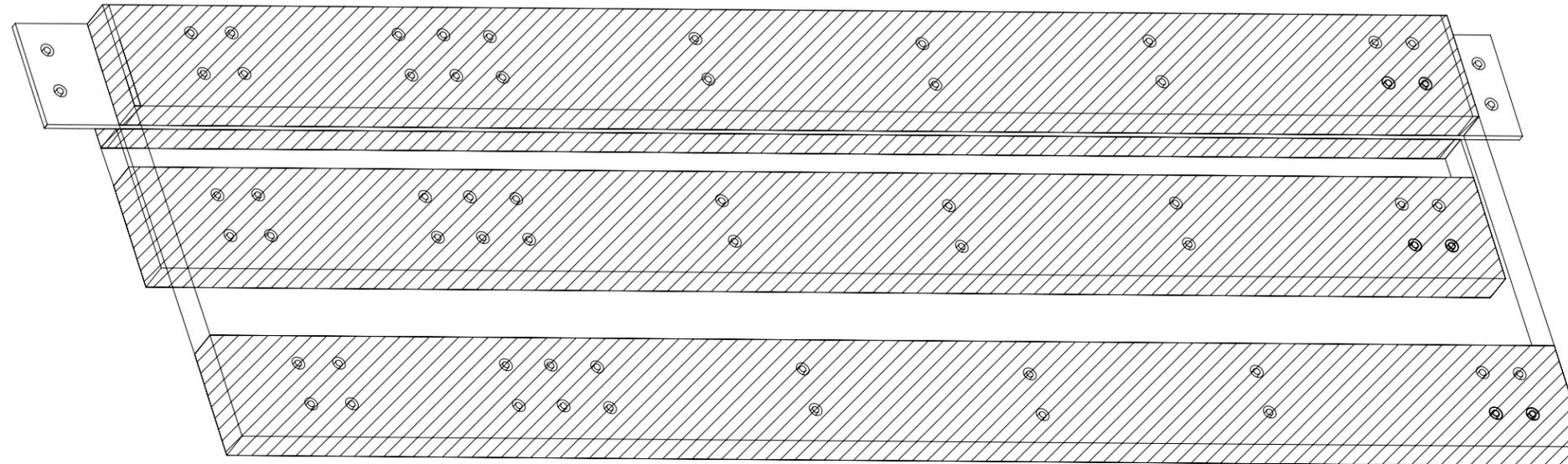
C4 COLUMNNETTES

S.5.4



WOOD FRAME

B2



1
S.5.5

3-ply 3/4" Panels for B2 Beam

Total Needed: 8 Panels

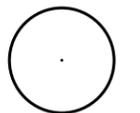
date
description
revision

consultants:



prepared by:
Matthew Erwin
Geoffrey Braiman

date drawn:
05.14.07



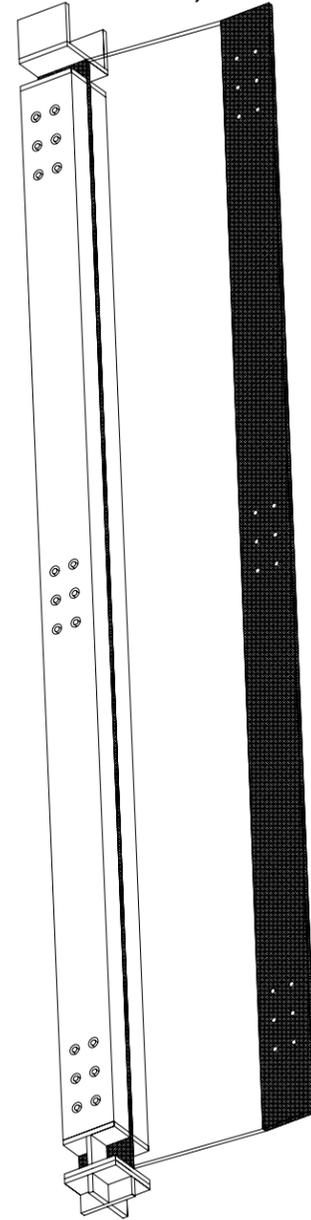
scale: **N.T.S.**

G4 COLUMNETTES

S.5.5

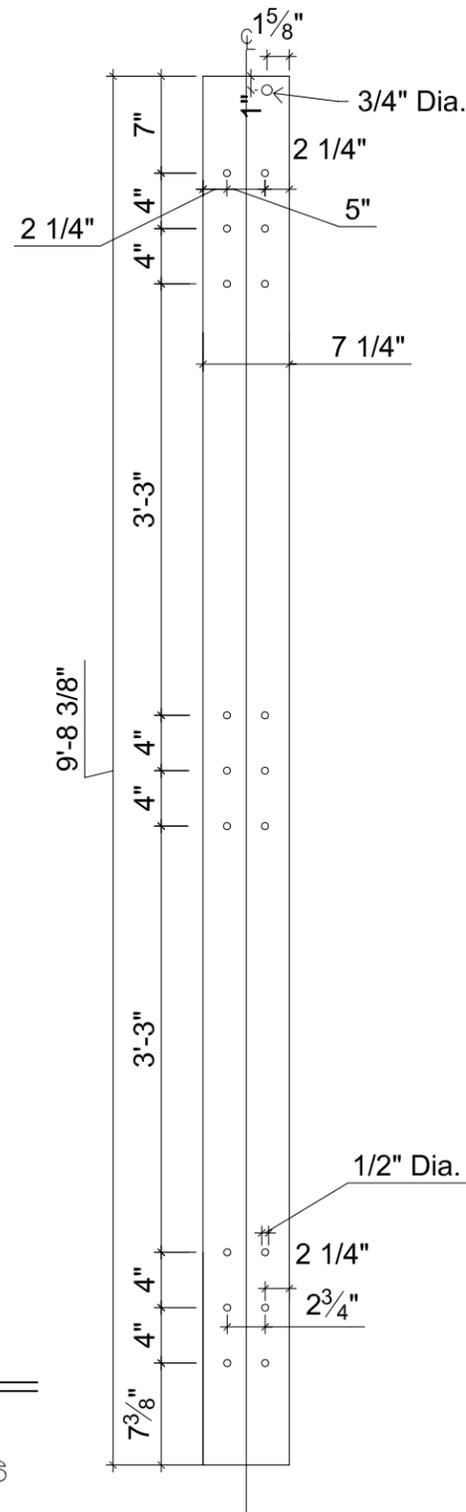
STEEL FRAME

C1 (South Column)



1 A36 Flitch Plate for C1 Column
S.6.1

Total Needed: 4 Plates

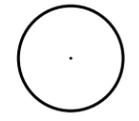


revision	description	date

consultants:



prepared by:
Matthew Erwin
Geoffrey Braiman
date drawn:
05.14.07



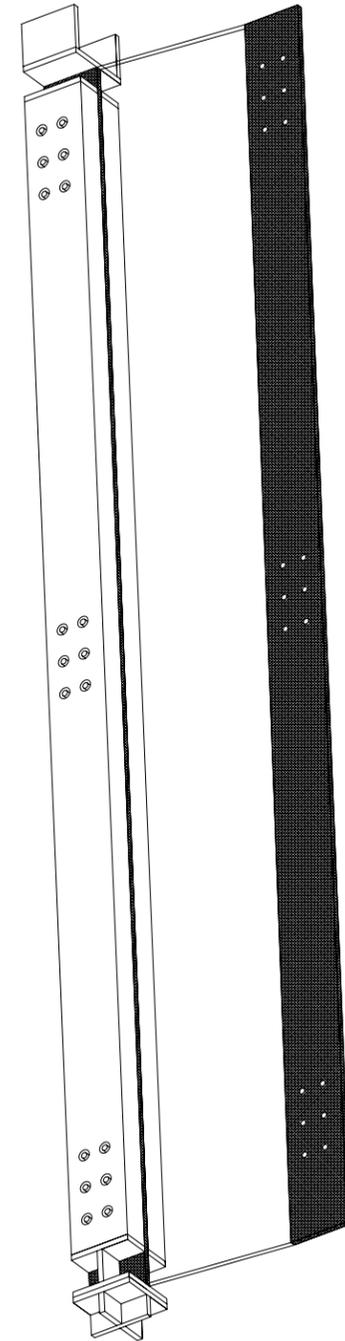
scale: **N.T.S.**

STEEL FRAME C1 COLUMN

S.6.1

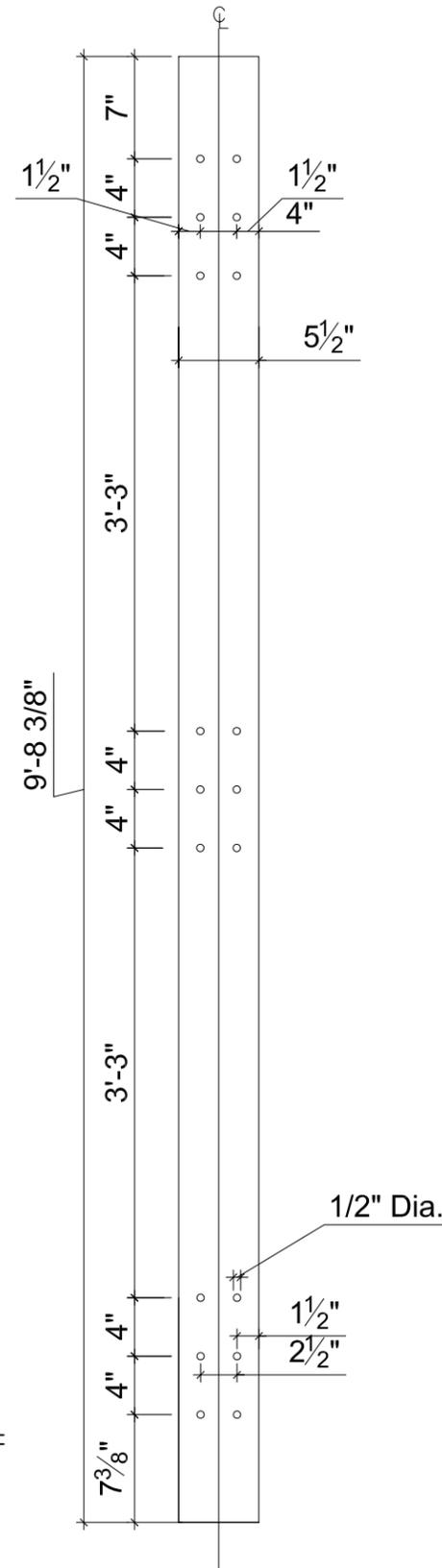
STEEL FRAME

C2, C3 North Columns



1 A36 Flitch Plate for C2 & C3 Columns
C2/C3

Total Needed: 8 Plates

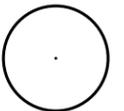


revision	description	date

consultants:



prepared by:
Matthew Erwin
Geoffrey Braiman
date drawn:
05.14.07



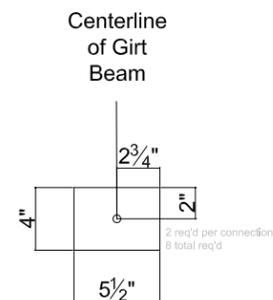
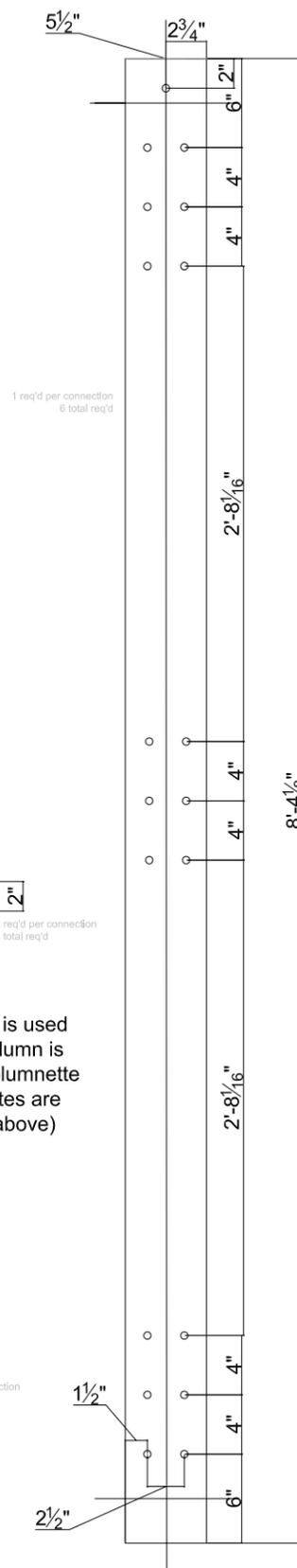
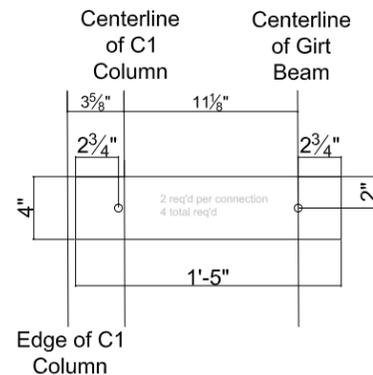
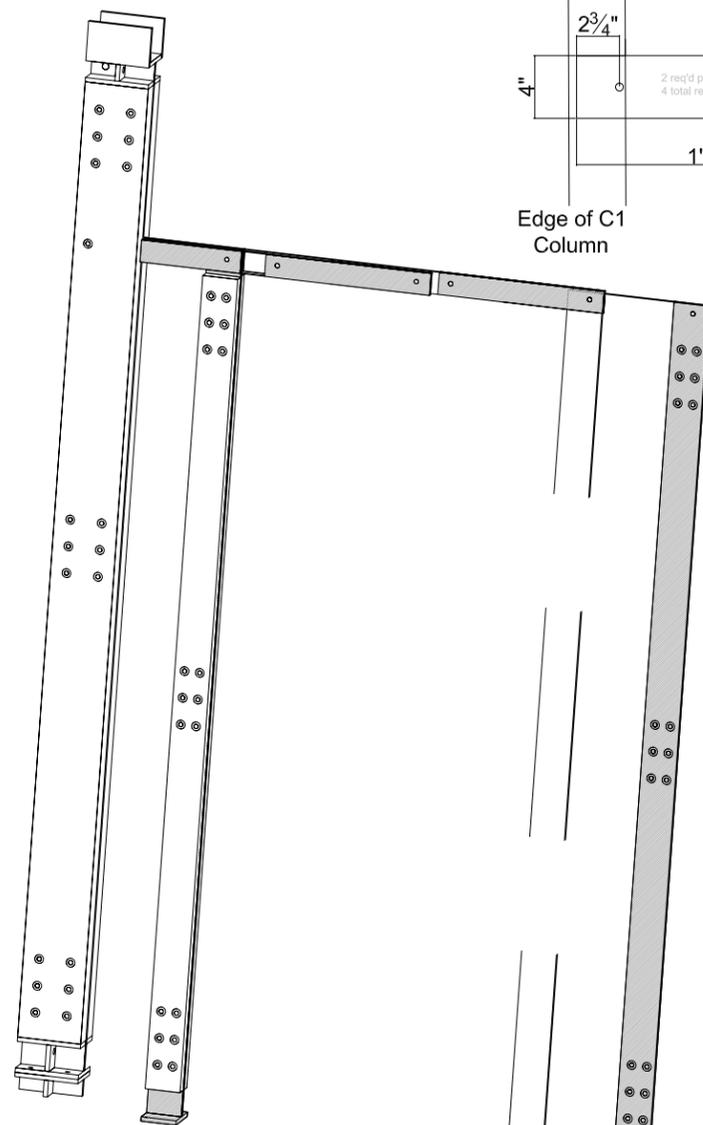
scale: **N.T.S.**

STEEL FRAME C2 & C3 COLUMNS

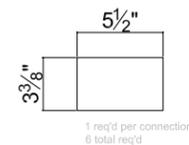
S.6.2

STEEL FRAME

C4: COLUMNNETTES



This connection is used when no C1 Column is located behind columnette (connection plates are welded to girt above)



 PART OF CONTRACT

1	A36 Fitch Plates for Columnettes C4 & Connections
S.6.3	

revision	description	date

consultants:

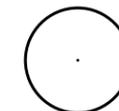


prepared by:

Matthew Erwin
Geoffrey Braiman

date drawn:

05.14.07



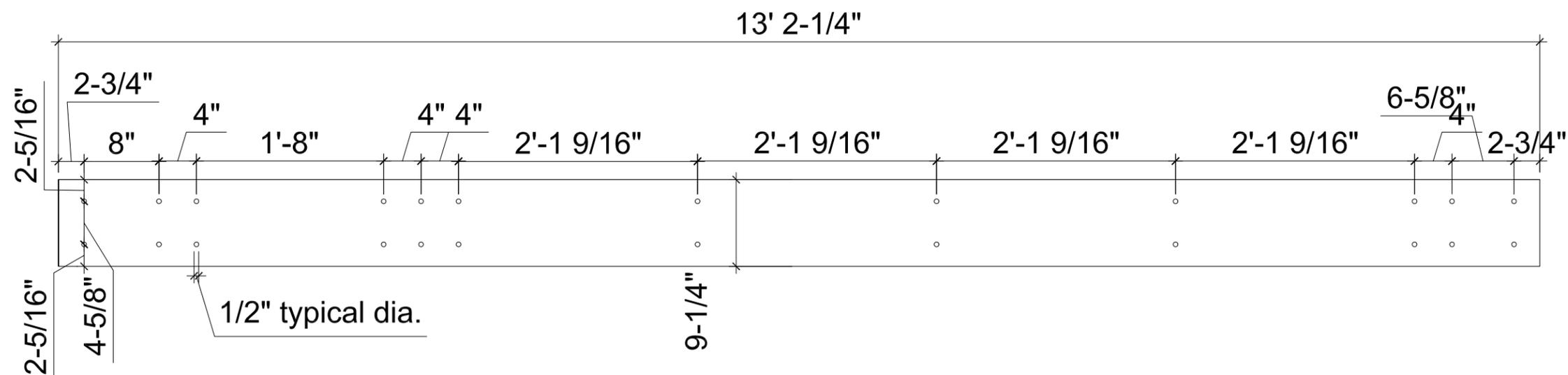
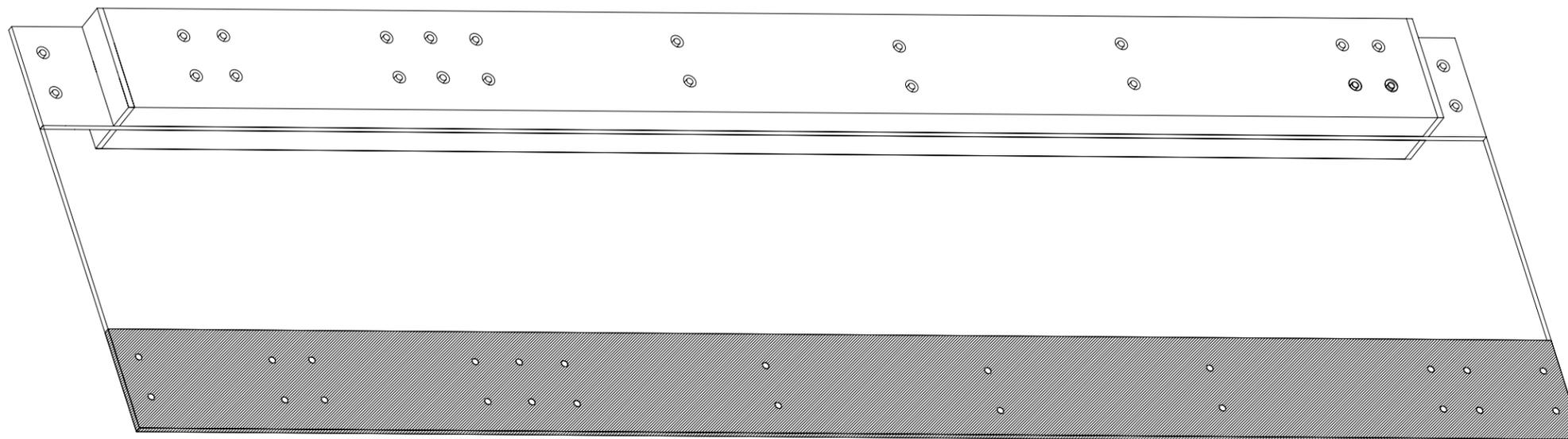
scale: **N.T.S.**

STEEL FRAME C4 COLUMNNETTES

S.6.3

STEEL FRAME

B2



1	A36 Flitch Plate B2 Beam
S.6.4	

Total Needed: 4 Plates

revision	description	date

consultants:

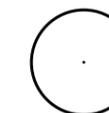


prepared by:

Matthew Erwin
Geoffrey Braiman

date drawn:

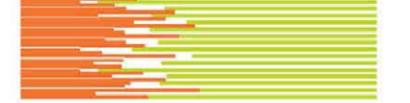
05.14.07



scale: **N.T.S.**

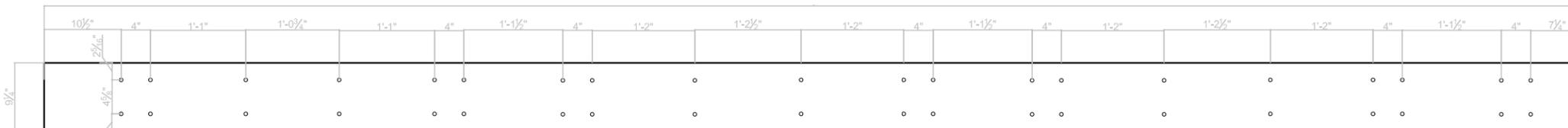
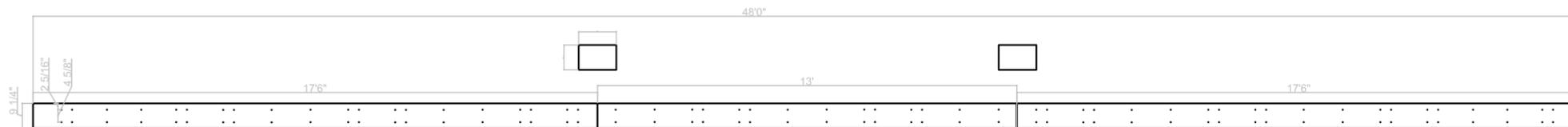
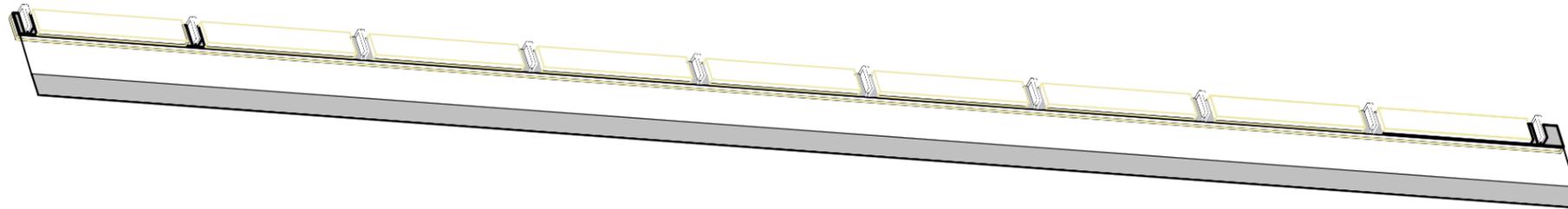
STEEL FRAME B2 BEAMS

S.6.4

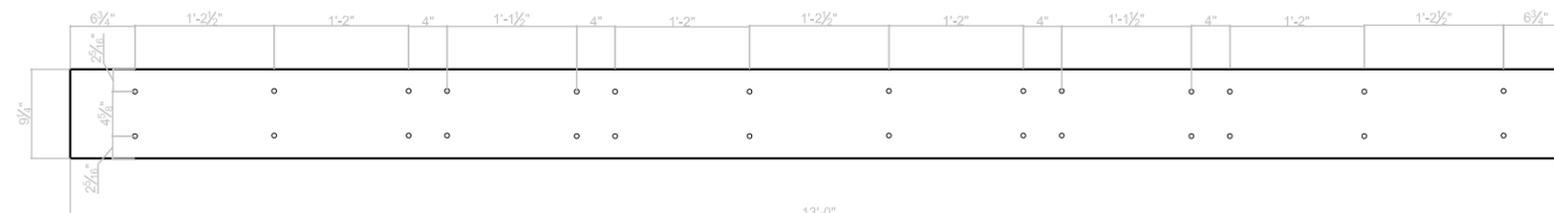


STEEL FRAME

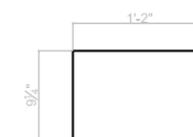
B3



Total Needed: 4 Plates



Total Needed: 2 Plates



Total Needed: 4 Plates

- 1 A36 Flitch Plate for B3 Beam
- B3 Total Needed: (4) 17'-6" Panels
(2) 13'-0" Panels

revision	description	date

consultants:

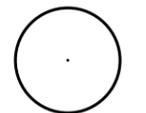


prepared by:

Matthew Erwin
Geoffrey Braiman

date drawn:

05.14.07



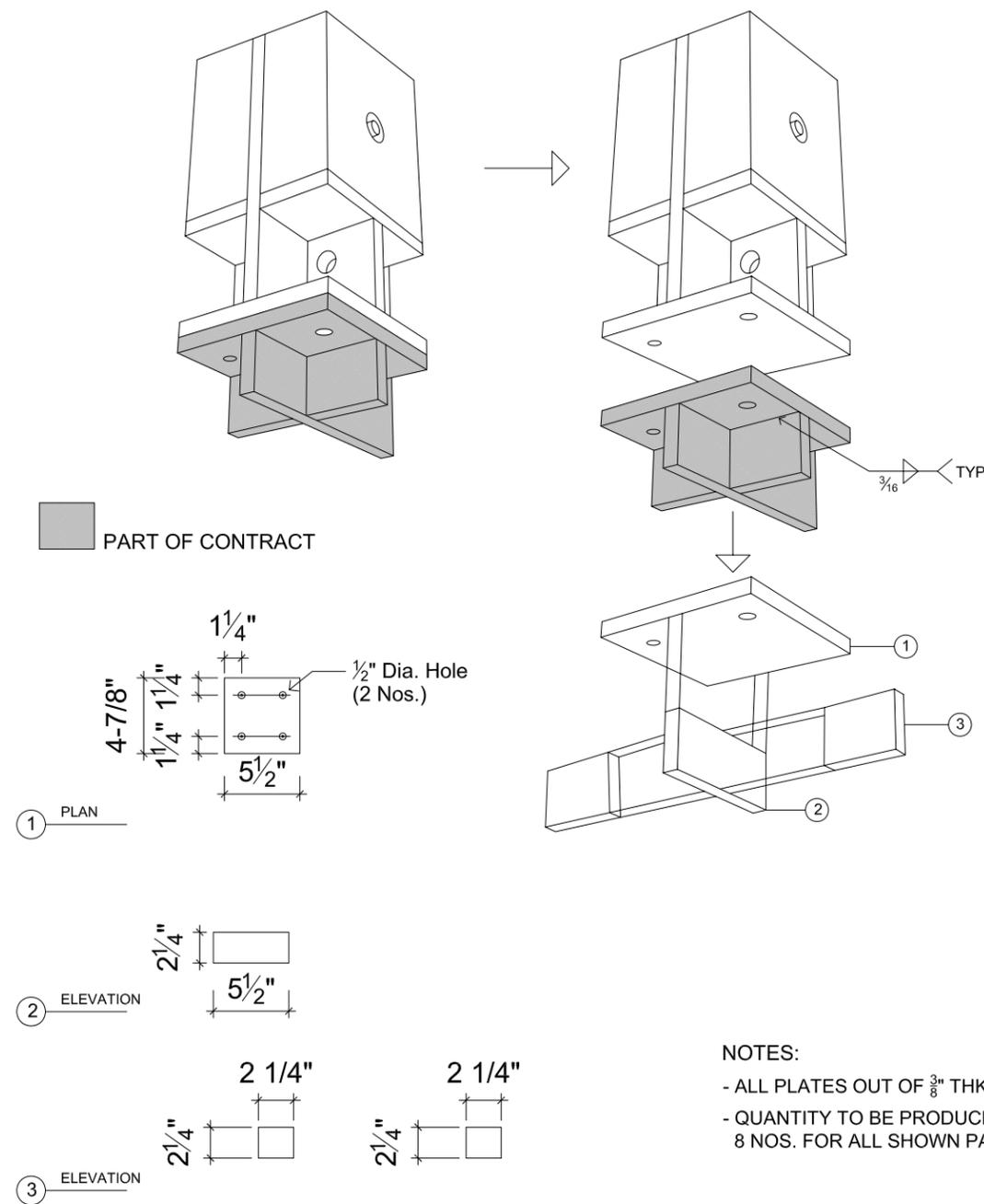
scale: **N.T.S.**

STEEL FRAME B3 BEAMS

S.6.5

STEEL FRAME

C2, C3 to CHASSIS CONNECTION



NOTES:
 - ALL PLATES OUT OF 3/8" THK STEEL
 - QUANTITY TO BE PRODUCED:
 8 NOS. FOR ALL SHOWN PARTS

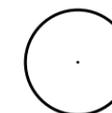
1 C2, C3 Column to Chassis Connection
 S.7.1

revision	description	date

consultants:



prepared by:
Matthew Erwin
Geoffrey Braiman
 date drawn:
05.14.07



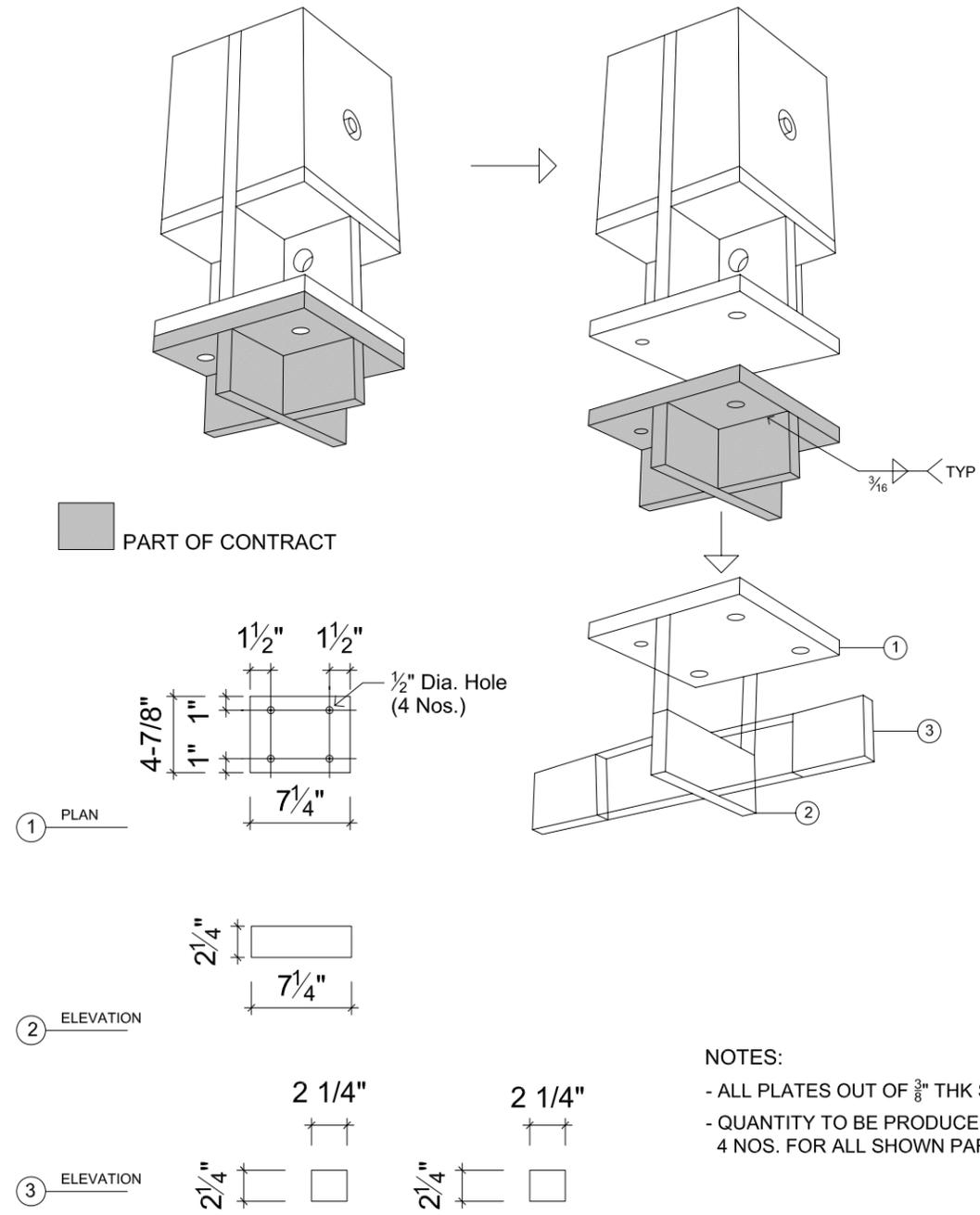
scale: **N.T.S.**

CONNECTION DETAILS C2, C3 TO CHASSIS

S.7.1

STEEL FRAME

C1 to CHASSIS CONNECTION



■ PART OF CONTRACT

1 C1 to Chassis Connection

S.7.2

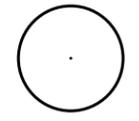
revision	description	date

consultants:



prepared by:
Matthew Erwin
Geoffrey Braiman

date drawn:
05.14.07



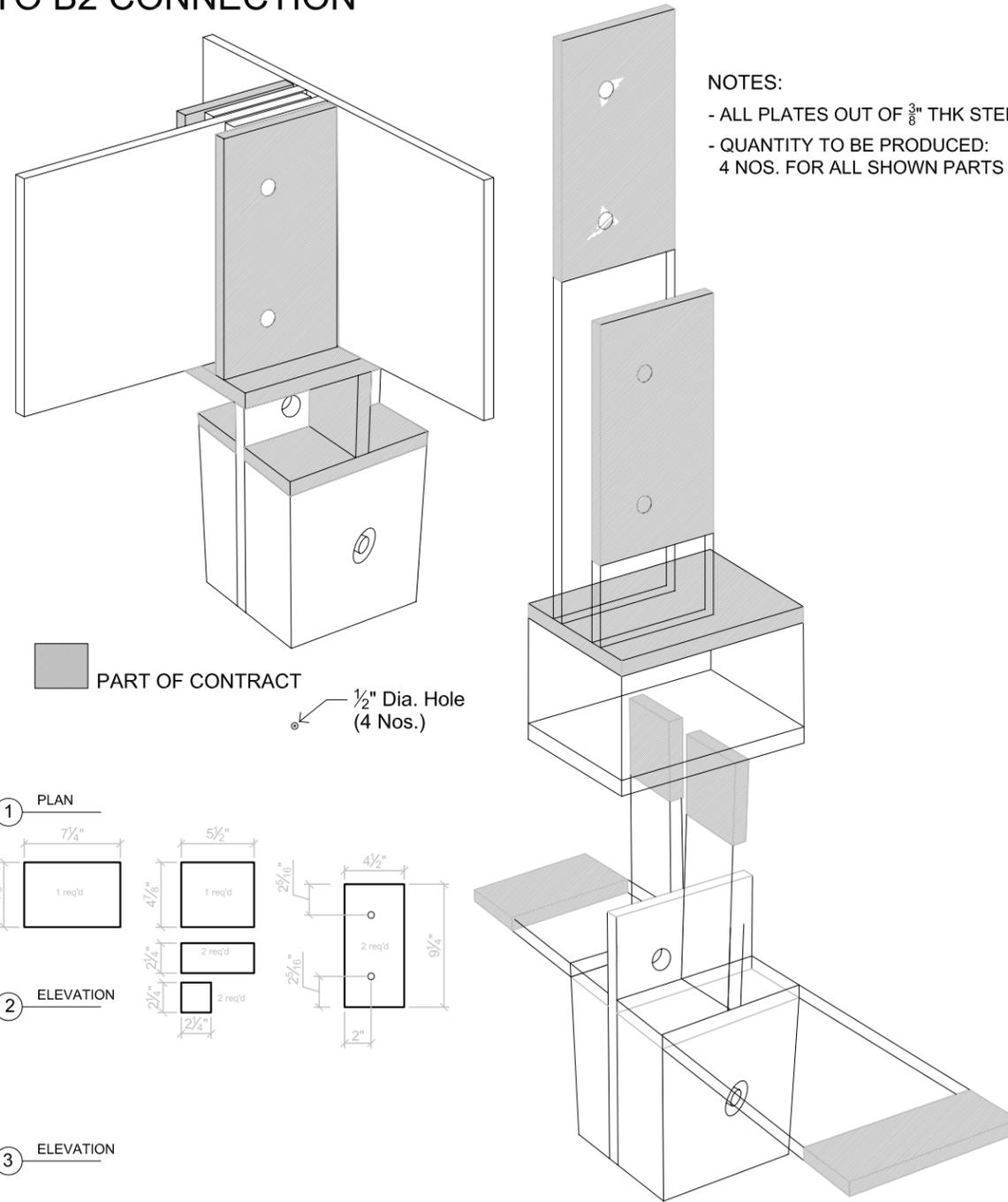
scale: **N.T.S.**

CONNECTION DETAILS C1 TO CHASSIS

S.7.2

STEEL FRAME

C3 TO B2 CONNECTION



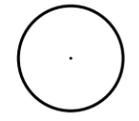
1 C3 to B2 Connection
 S.7.3

revision	description	date

consultants:



prepared by:
Matthew Erwin
Geoffrey Braiman
 date drawn:
05.14.07



scale: **N.T.S.**

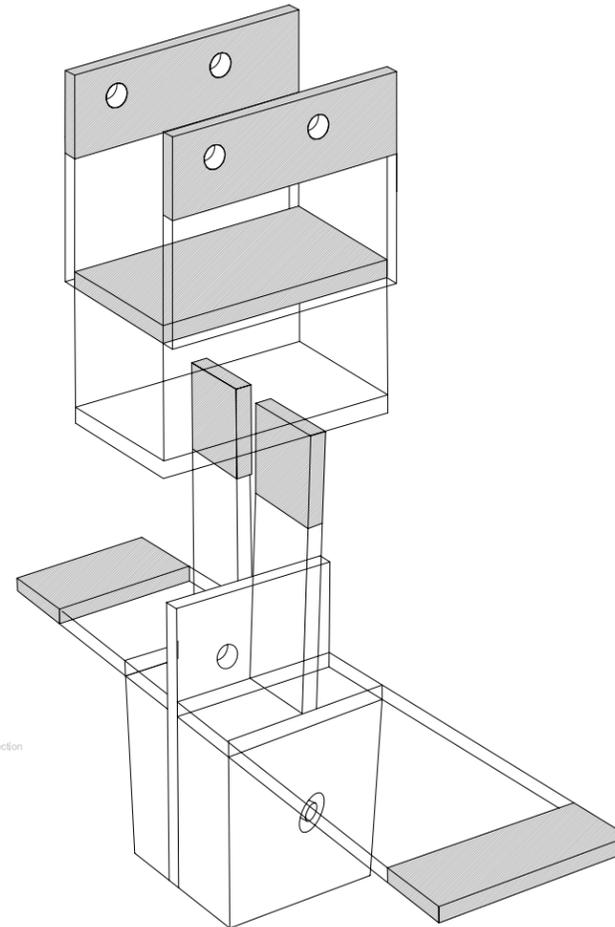
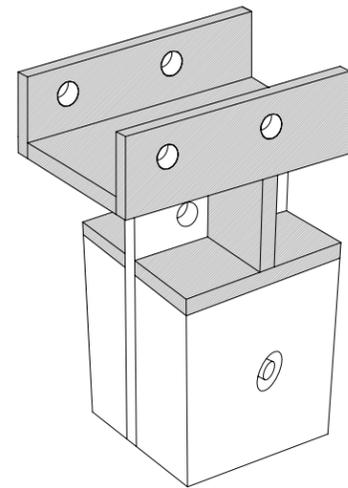
CONNECTION DETAILS C3 TO B2

S.7.3

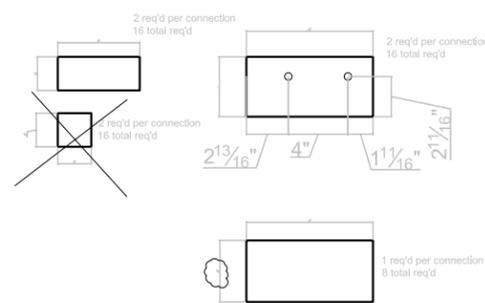
STEEL FRAME

C2 TO B2 CONNECTION

C:\deo\sd07\structure\logo.jpg



 PART OF CONTRACT



- NOTES:
- ALL PLATES OUT OF $\frac{3}{8}$ " THK STEEL
 - QUANTITY TO BE PRODUCED: 4 NOS. FOR ALL SHOWN PARTS

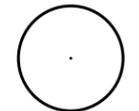
1	C2 to B2 Connection
S.7.4	

revision	description	date

consultants:



prepared by:
Matthew Erwin
Geoffrey Braiman
 date drawn:
05.14.07



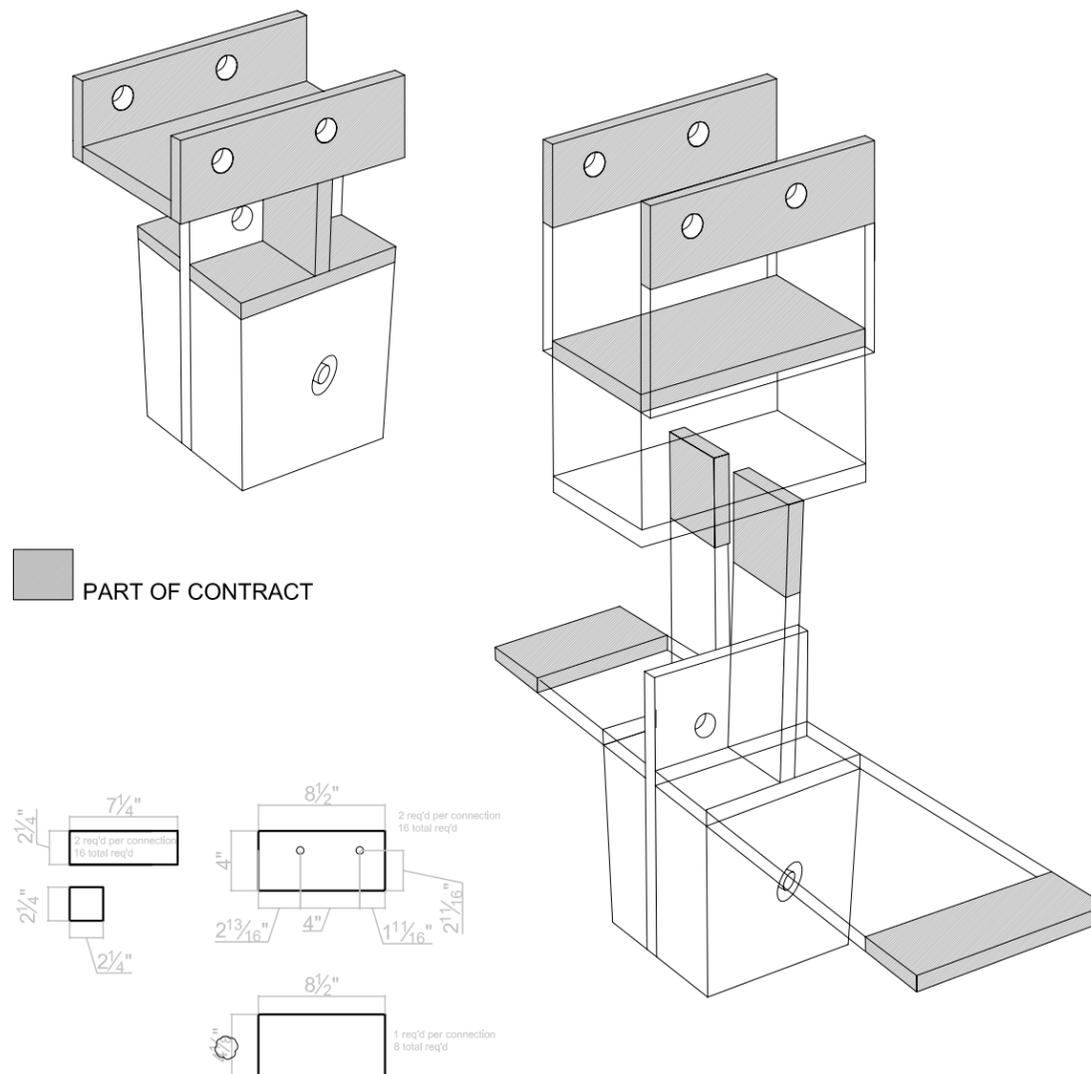
scale: **N.T.S.**

CONNECTION DETAILS C2 TO B2

S.7.4

STEEL FRAME

C1 TO B2 CONNECTION



NOTES:
 - ALL PLATES OUT OF $\frac{3}{8}''$ THK STEEL
 - QUANTITY TO BE PRODUCED:
 4 NOS. FOR ALL SHOWN PARTS

1 C1 to B2 Connection
 S.7.5

revision	description	date

consultants:

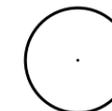


prepared by:

Matthew Erwin
Geoffrey Braiman

date drawn:

05.14.07



scale: **N.T.S.**

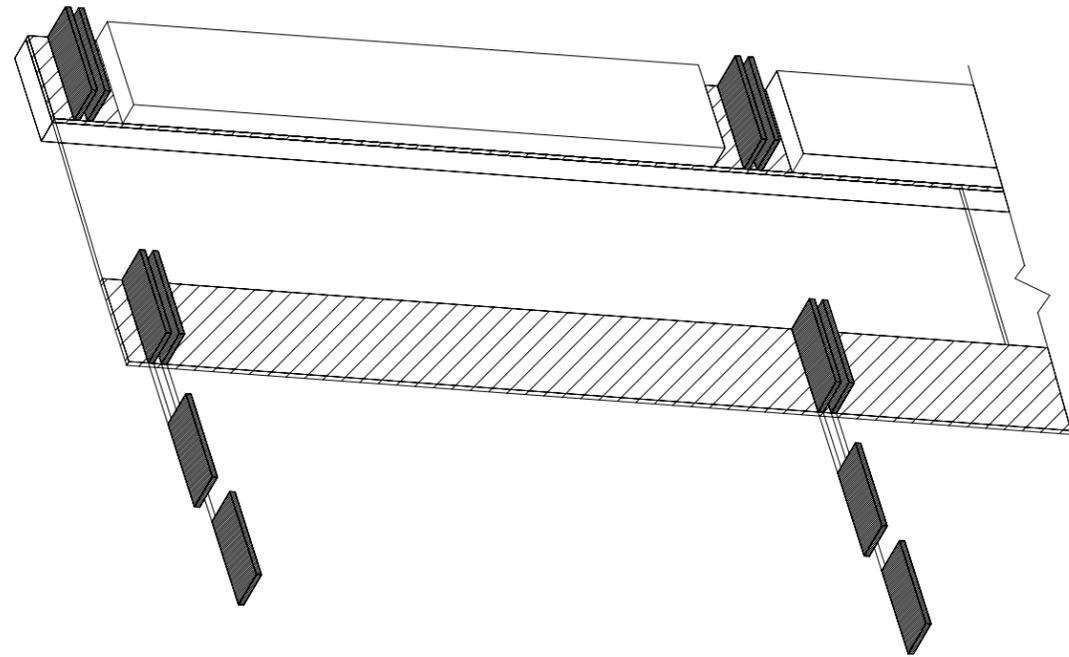
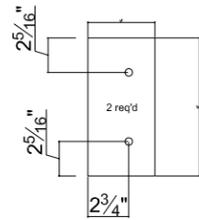
CONNECTION DETAILS C1 TO B2

S.7.5



STEEL FRAME

B3 TO B2 CONNECTION



 PART OF CONTRACT

1	A36 Connector Plates for B3 to B2 Beam
S.7.6	Total Needed: 40 Plates

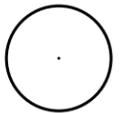
revision	description	date

consultants:



prepared by:
Matthew Erwin
Geoffrey Braiman

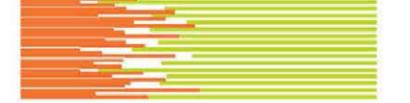
date drawn:
05.14.07



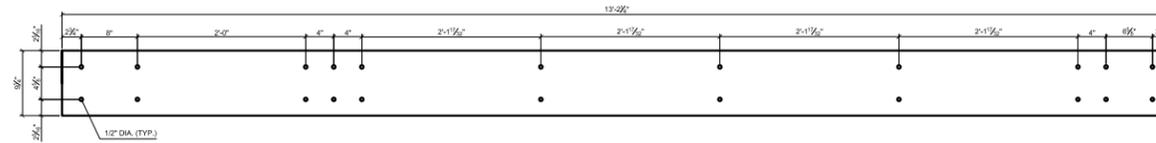
scale: **N.T.S.**

CONNECTION DETAILS B2 TO B3

S.7.6

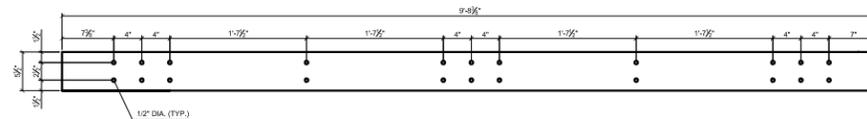


1st order (submitted to ga steel matt; received)



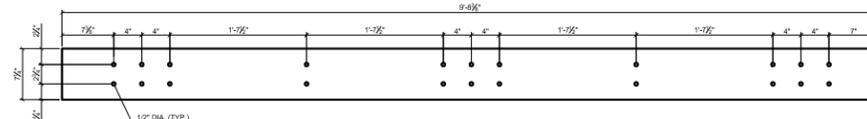
6 Required

1 A36 Flitch Plate B2 Beam
S.8.1



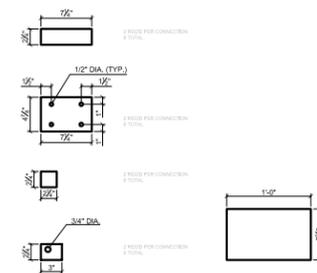
10 Required

2 A36 Flitch Plate C2/C3 Column
S.8.1

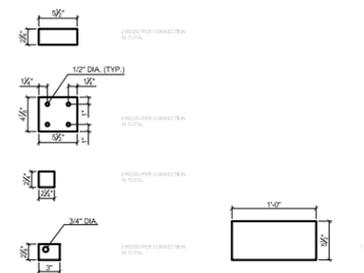


5 Required

3 A36 Flitch Plate C1 Column
S.8.1



4 C1 to Chassis Connection
S.8.1



5 C2/C3 Column to Chassis Connection
S.8.1

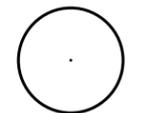
date	description	revision

consultants:



prepared by:
Matthew Erwin
Geoffrey Braiman

date drawn:
05.14.07

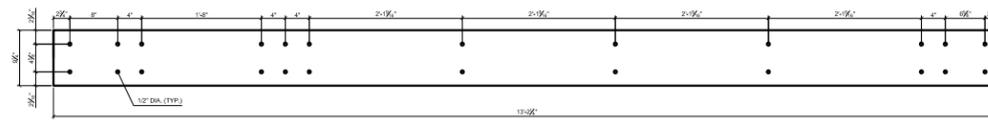
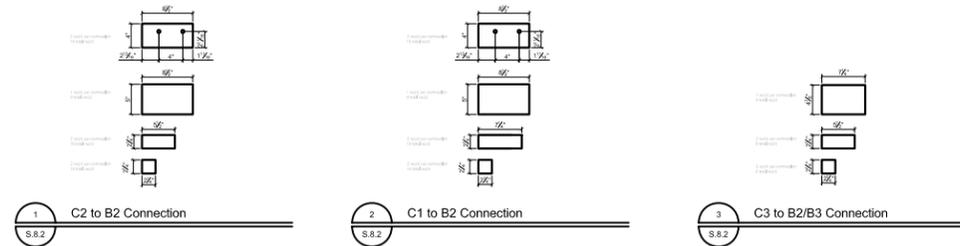


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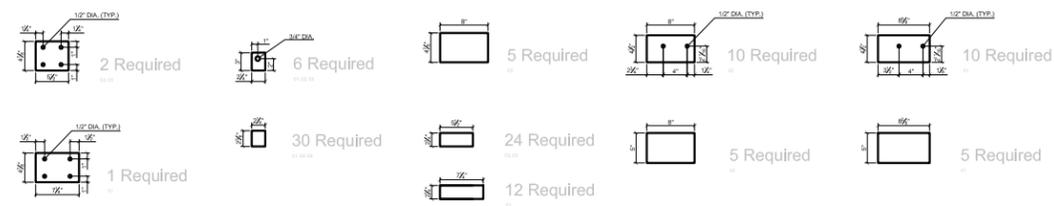
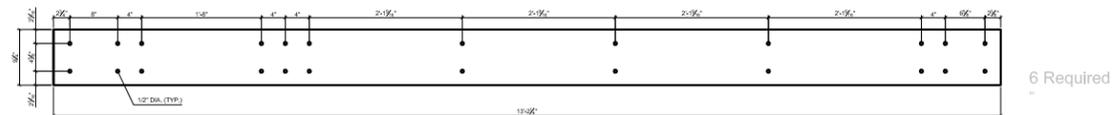
S.8.1

FIRST STEEL ORDER

2nd order (submitted to ga steel 6.5.07)



4 A36 Fitch Plate B2 Beam



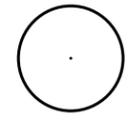
All holes 1/2" diameter U.N.
 1/2" steel plate, Grade 30 or Grade 50
 Steel Connection Plates
 DTSD Frame Connections
 Jamgochian, Trubiano, Gentry
 06 June 07
 nocall.gentry@coe.gatech.edu
 404.894.0572
 FOR PRICING ONLY

revision	description	date

consultants:



prepared by:
Joe Jamgochian
 date drawn:
05.14.07

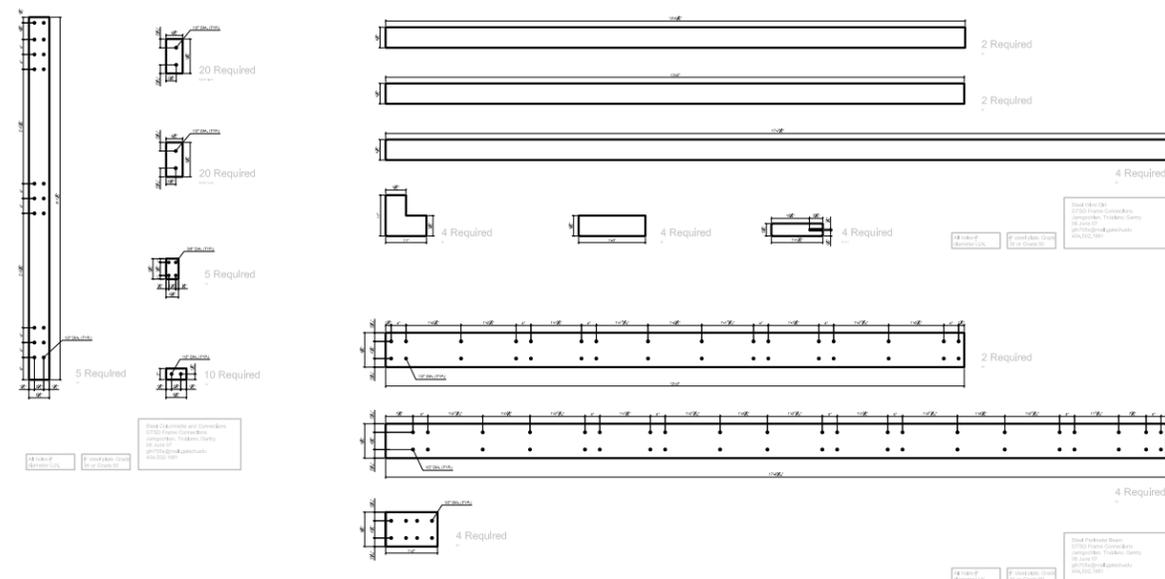
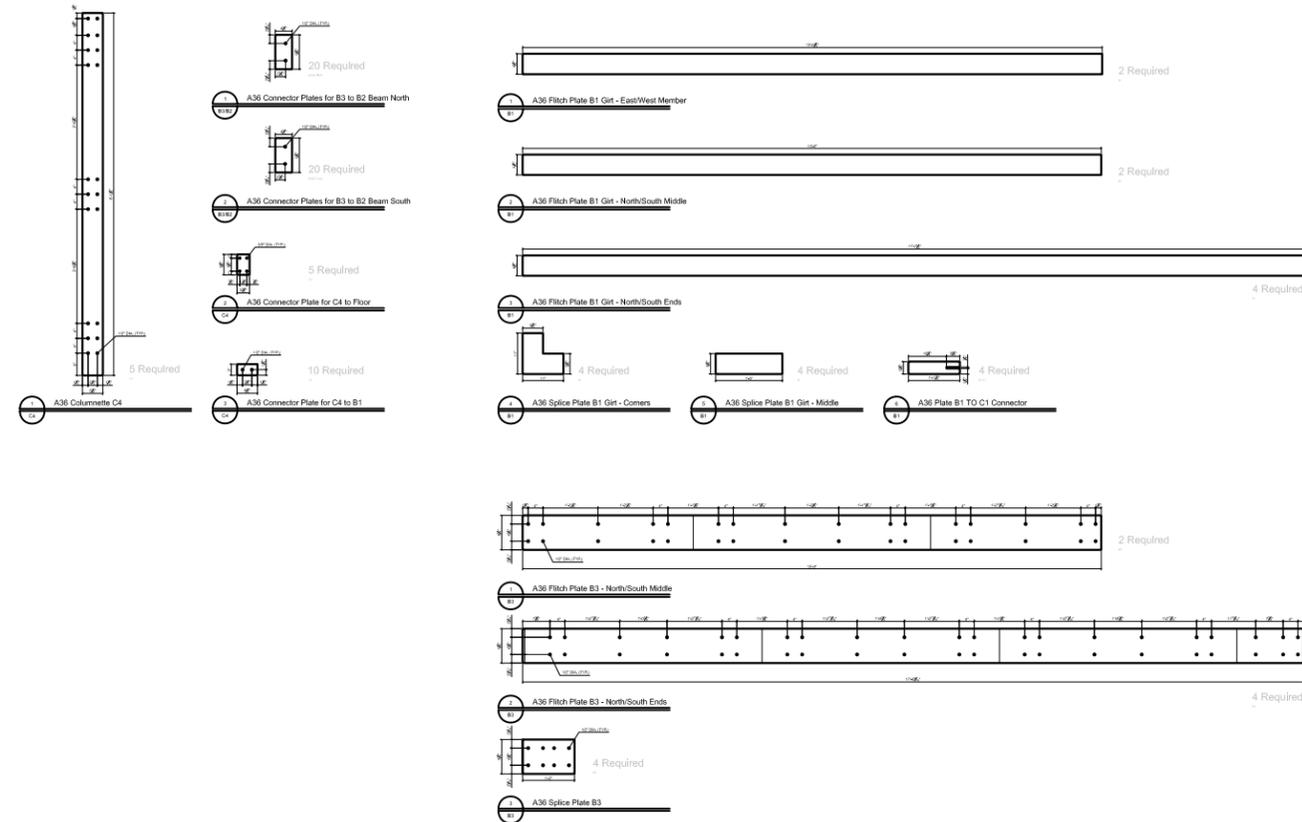


scale: **N.T.S.**

S.8.2

SECOND STEEL ORDER

3rd order (to be submitted to ga steel 6.8.07)



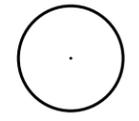
revision	description	date

consultants:



prepared by:
Joe Jamgochian

date drawn:
05.14.07

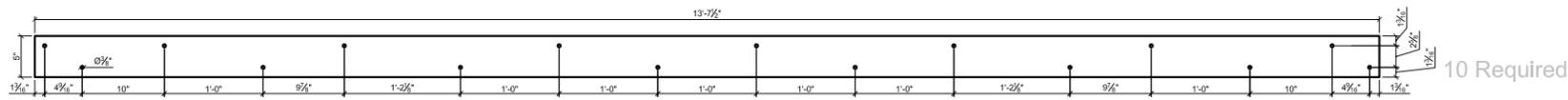


scale: **N.T.S.**

S.8.3

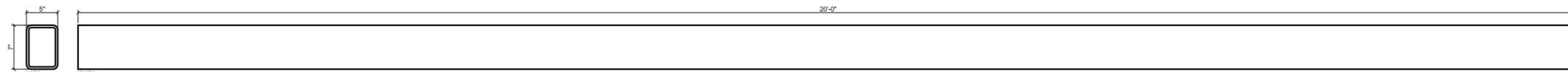
THIRD STEEL ORDER

4th order (to be submitted to ga steel) (roof pv support)



1 A36 Plate - Top of B2 Members

All holes 3/8" diameter U.J.N.
1/2" steel plate, Grade 36 or Grade 50



2 Tube - 5"x7"x3/8" - 20' length

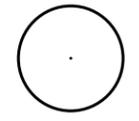
Roof PV Support
Jakubiec, Trubiano, Gentry
16 July 07
franca.trubiano@mail.gatech.edu
404.502.1981

revision	description	date

consultants:



prepared by:
Alstan Jakubiec
date drawn:
07.01.07



scale: **N.T.S.**

FORTH STEEL ORDER

S.8.4

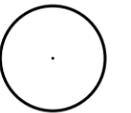
5th order (to be submitted to gtri) (pv support plate)

revision	description	date

consultants:



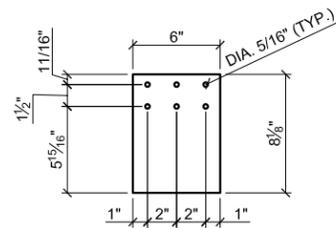
prepared by:
Alstan Jakubiec
date drawn:
07.01.07



scale: **N.T.S.**

S.8.5

FIFTH STEEL ORDER

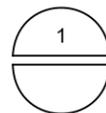


30 Required

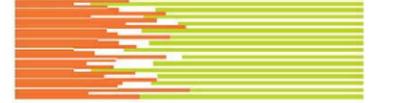
All holes 5/16" diameter U.N.

³/₈" steel plate, Grade 36 or Grade 50

PV Support Plate
Jakubiec, Trubiano, Gentry
16 July 07
franca.trubiano@mail.gatech.edu
404.502.1981



A36 Plate - PV Support Plates



	MANUFACTURER	MODEL	SOUND RATING (High) (dB)	AIRFLOW (H-L) (CFM)	PERFORMANCE				DIMENSIONS(inches)			WEIGHT (lbs)	SUPPLY VOLTAGE (V)	POWER SUPPLY (W)
					TOTAL CAPACITY		EFFICIENCY		H	W	D			
					HEATING (btu)	COOLING (btu)	SEER (btu/h/W)	HSPF (btu/h/W)						
OUTDOOR CONDENSOR	MITSUBISHI ELECTRIC	MXZ-3A30NA	49	-	27,200	36,000	16.0	10.0	35-7/16	35-7/16	12-19/32	158	208/230	1000-3250
INDOOR FAN COIL - BEDROOM	MITSUBISHI ELECTRIC	MSZ-A9NA	-	-	8,600	8,500	-	-	12	30-1/2	8-1/2	23	208/230	3250
INDOOR FAN COIL - STUDY	MITSUBISHI ELECTRIC	MSZ-A9NA	-	-	8,600	8,500	-	-	12	30-1/2	8-1/2	23	208/230	3250
INDOOR FAN COIL - LIVING	MITSUBISHI ELECTRIC	MSZ-A12NA	-	-	11,400	11,400	-	-	12	30-1/2	8-1/2	23	208/230	3250

	MANUFACTURER	MODEL	AIRFLOW (CFM)	DIMENSIONS (inches)			WEIGHT (lbs)	SUPPLY VOLTAGE (V)	POWER SUPPLY (W)
				H	W	D			
ERV	ULTIMATEAIR	200DX	60-210	25	19	25	72	120	34-200

VENTILATION RATES

KITCHEN 100 CFM INTERMITTENT/25 CFM CONTINUOUS
 BATHROOM 50 CFM INTERMITTENT/20 CFM CONTINUOUS
 HABITABLE ROOM 15 CFM PER PERSON

INDOOR TEMPERATURE REQUIREMENT 72° F- 76° F

INDOOR HUMIDITY REQUIREMENT 40%-55%

date	description	revision

consultants:

engineer's stamp

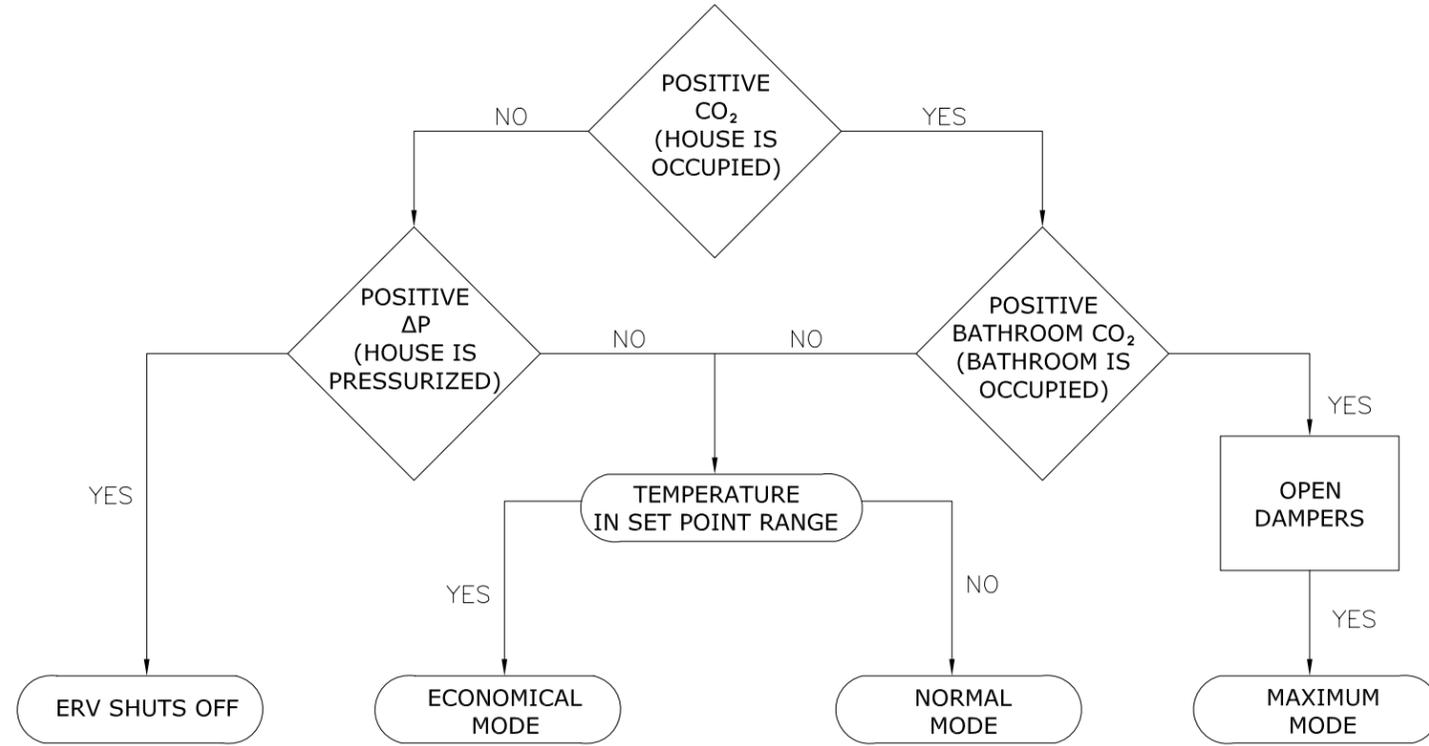
prepared by:
Shreyansh Ajeeta Dhole

date drawn:
08.06.07
03.03.07

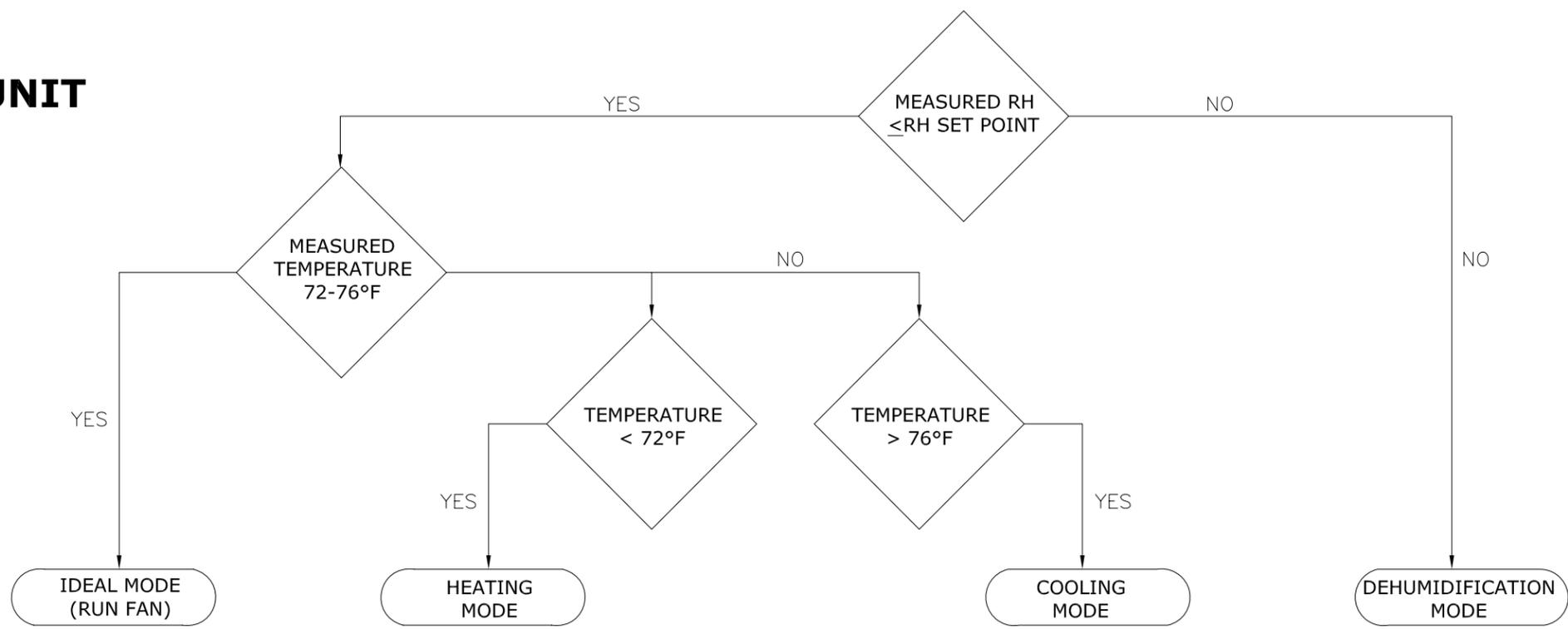
HVAC SCHEDULE

M.O.O

ERV



FAN COIL UNIT



revision	description	date

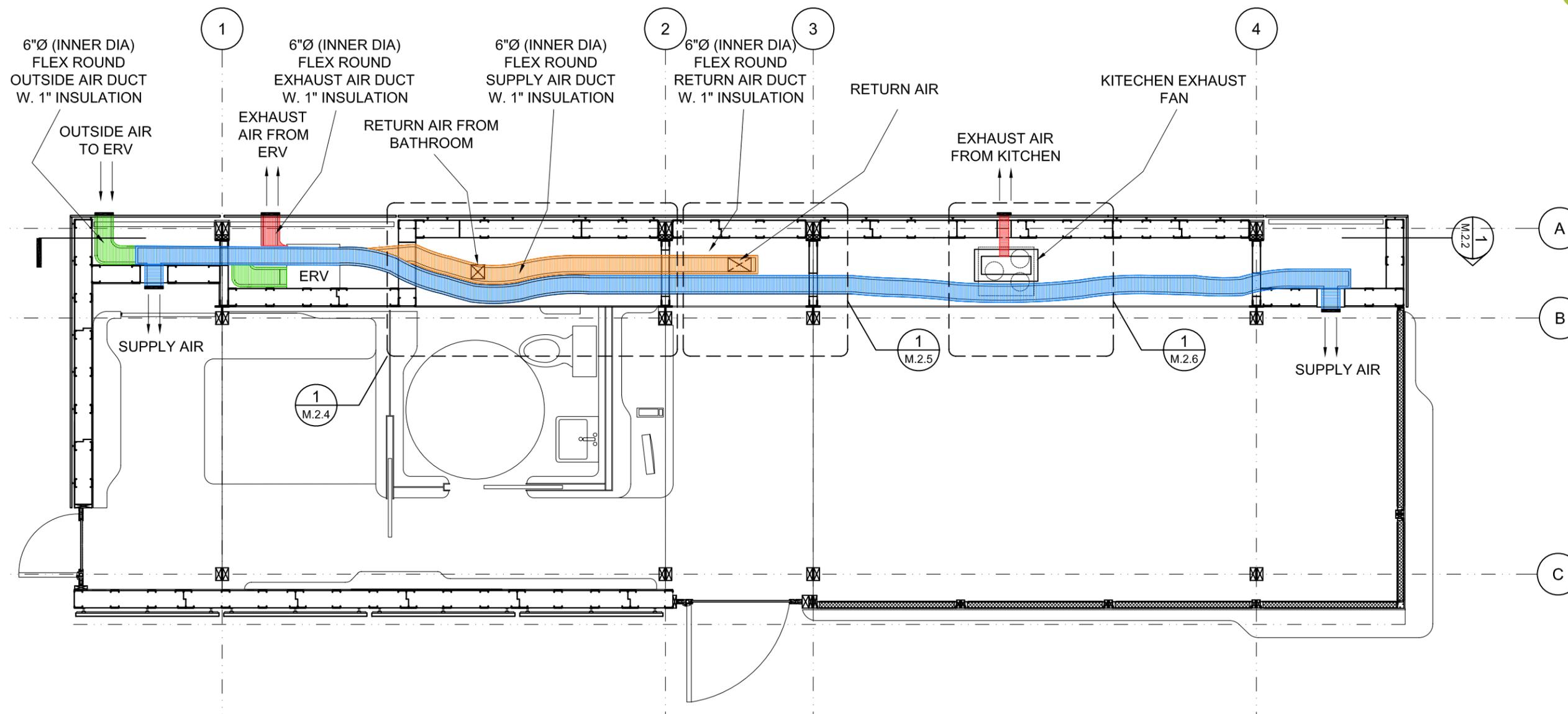
consultants:

engineer's stamp

prepared by:
Shreyansh

date drawn:
08.06.07

HVAC : CONTROL LOOPS



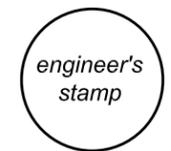
1 PLAN: VENTILATION SYSTEM
M.2.1

NOTES :

1. OUTDOOR AIR INLET VENT WITH 1/4" BIRDSCREEN
2. EXHAUST AIR OUTLET VENT WITH 1/4" BIRDSCREEN
3. ENERGY RECOVERY VENTILATOR (ERV) - ULTIMATEAIR 200DX
4. ALL DUCTWORK- 6" DIA, INSULATED, ROUND, FLEX DUCTING

date	description	revision

consultants:



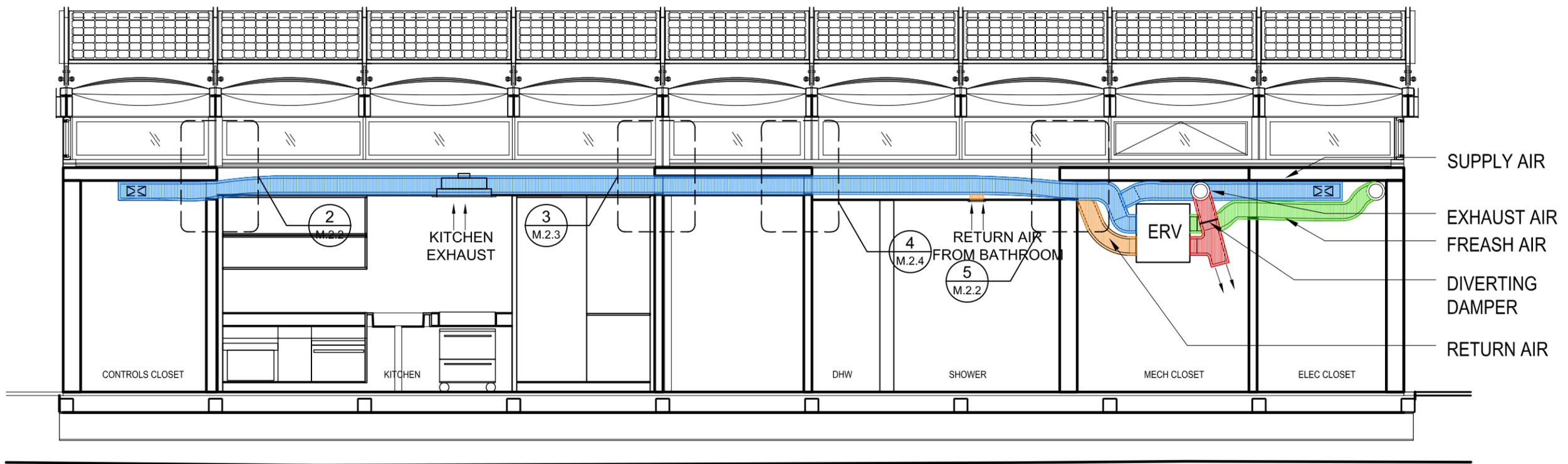
prepared by:
Shreyansh Ajeeta Dhole

date drawn:
08.06.07
03.03.07

scale: **1/4" : 1' 0"**

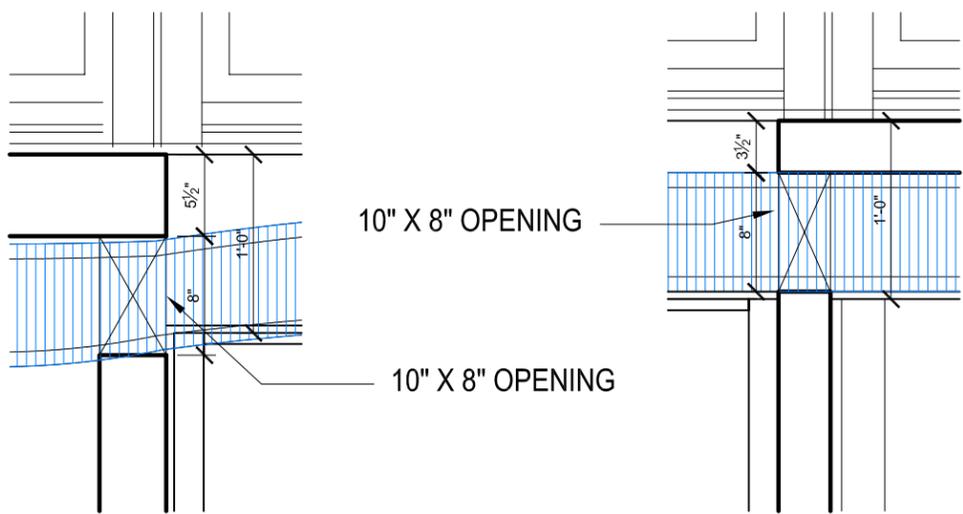
HVAC : VENTILATION SYSTEM

M.2.1

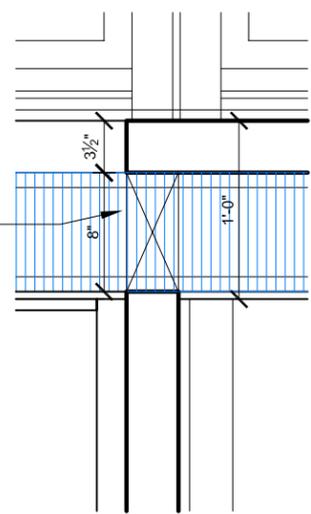


SUPPLY AIR
 EXHAUST AIR
 FRESH AIR
 DIVERTING DAMPER
 RETURN AIR

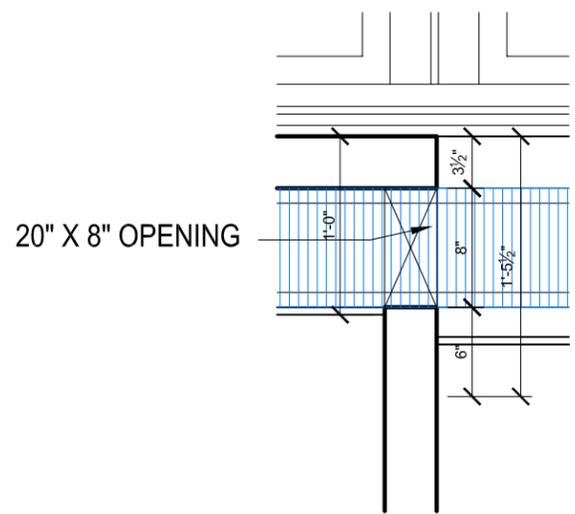
1 SECTIONAL ELEVATION: VENTILATION SYSTEM
 M.2.2



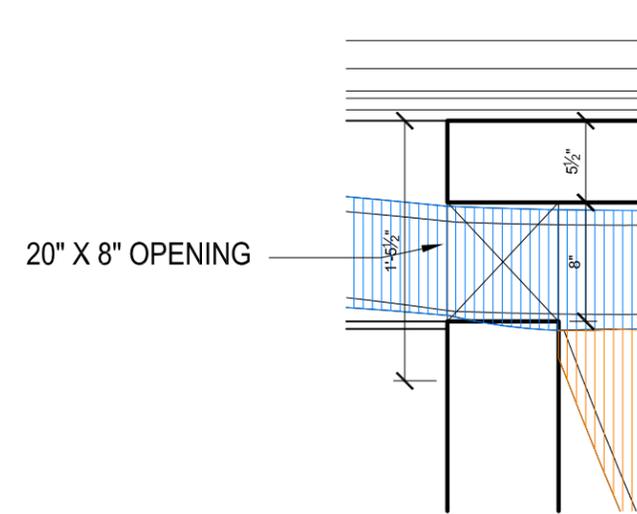
2 DETAILS
 M.2.2



3 DETAILS
 M.2.2



4 DETAILS
 M.2.2



5 DETAILS
 M.2.2

date	description	revision

consultants:

engineer's stamp

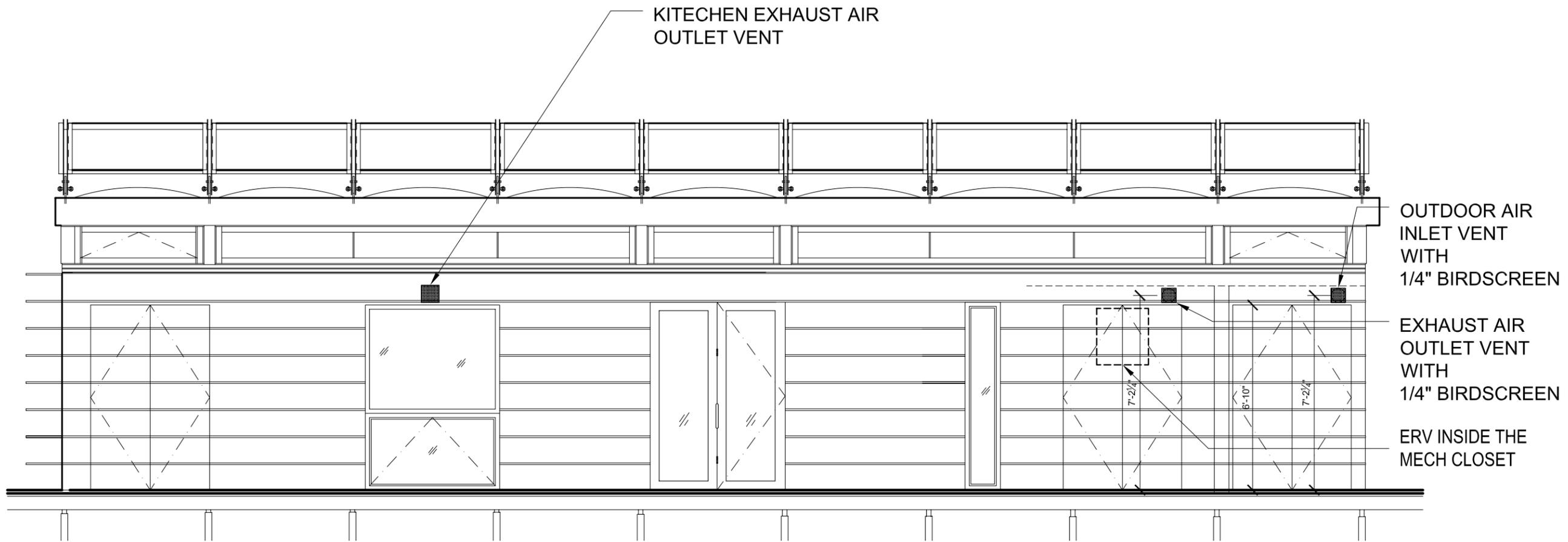
prepared by:
Shreyansh Ajeeta Dhole

date drawn:
 08.06.07
 03.03.07

scale: 1/4" : 1' 0"

HVAC : VENTILATION SYSTEM

M.2.2



date	description	revision

consultants:

engineer's stamp

prepared by:
Shreyansh

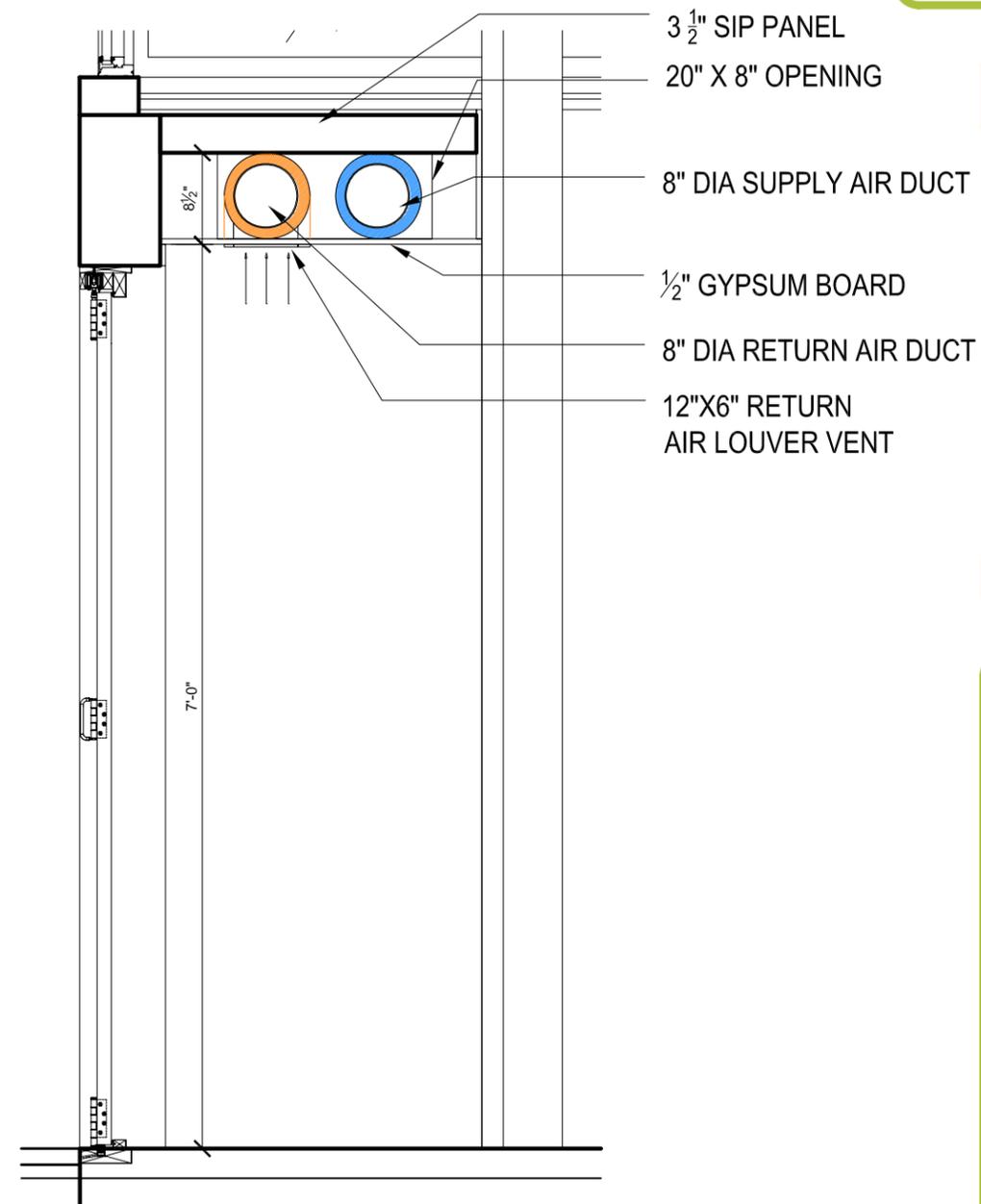
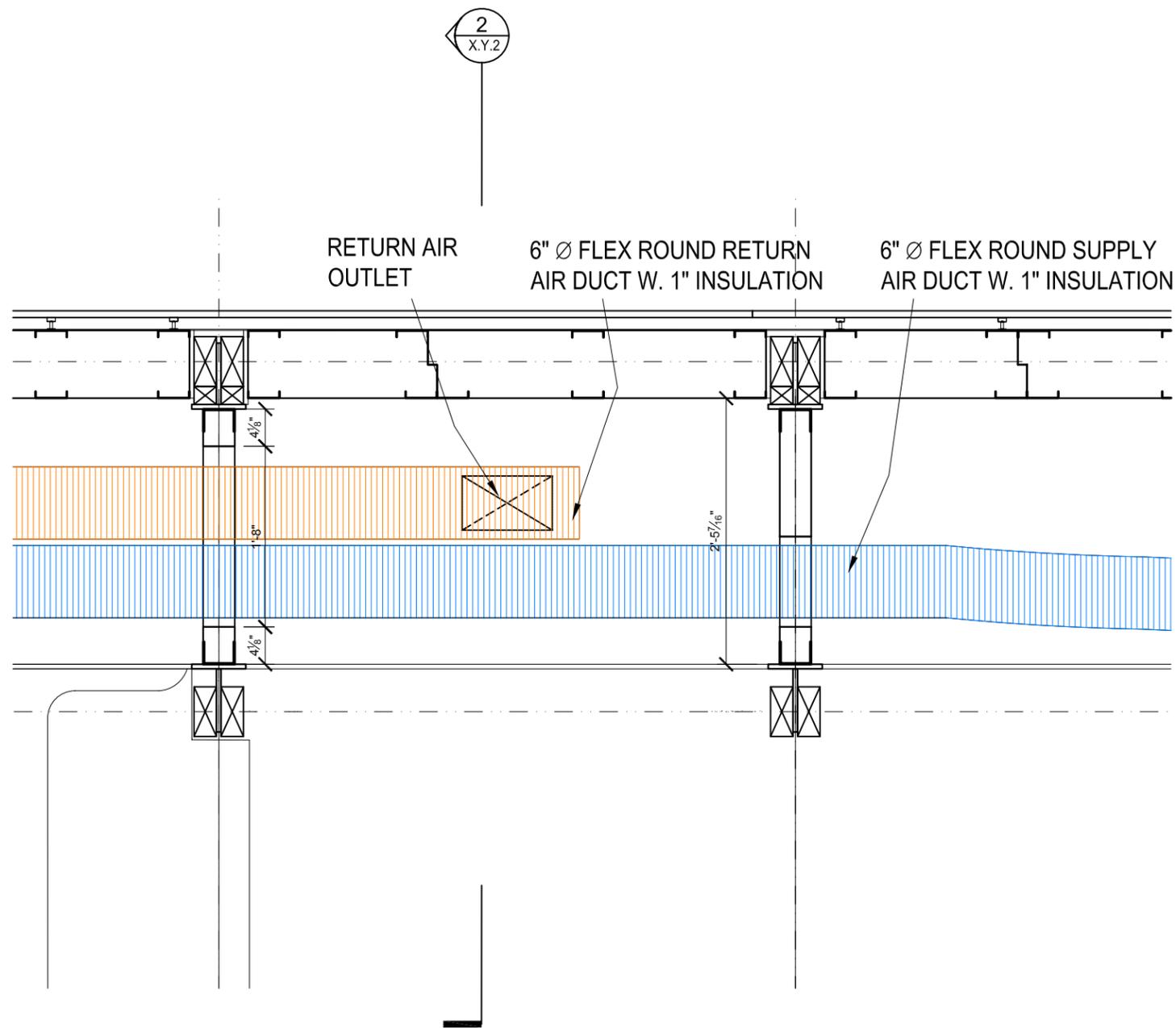
date drawn:
08.06.07

scale: **1/4" : 1' 0"**

1 NORTH ELEVATION: VENTILATION SYSTEM
M.2.3

HVAC : VENTILATION SYSTEM

M.2.3



date	description	revision

consultants:

engineer's stamp

prepared by:
Shreyansh

date drawn:
08.03.07

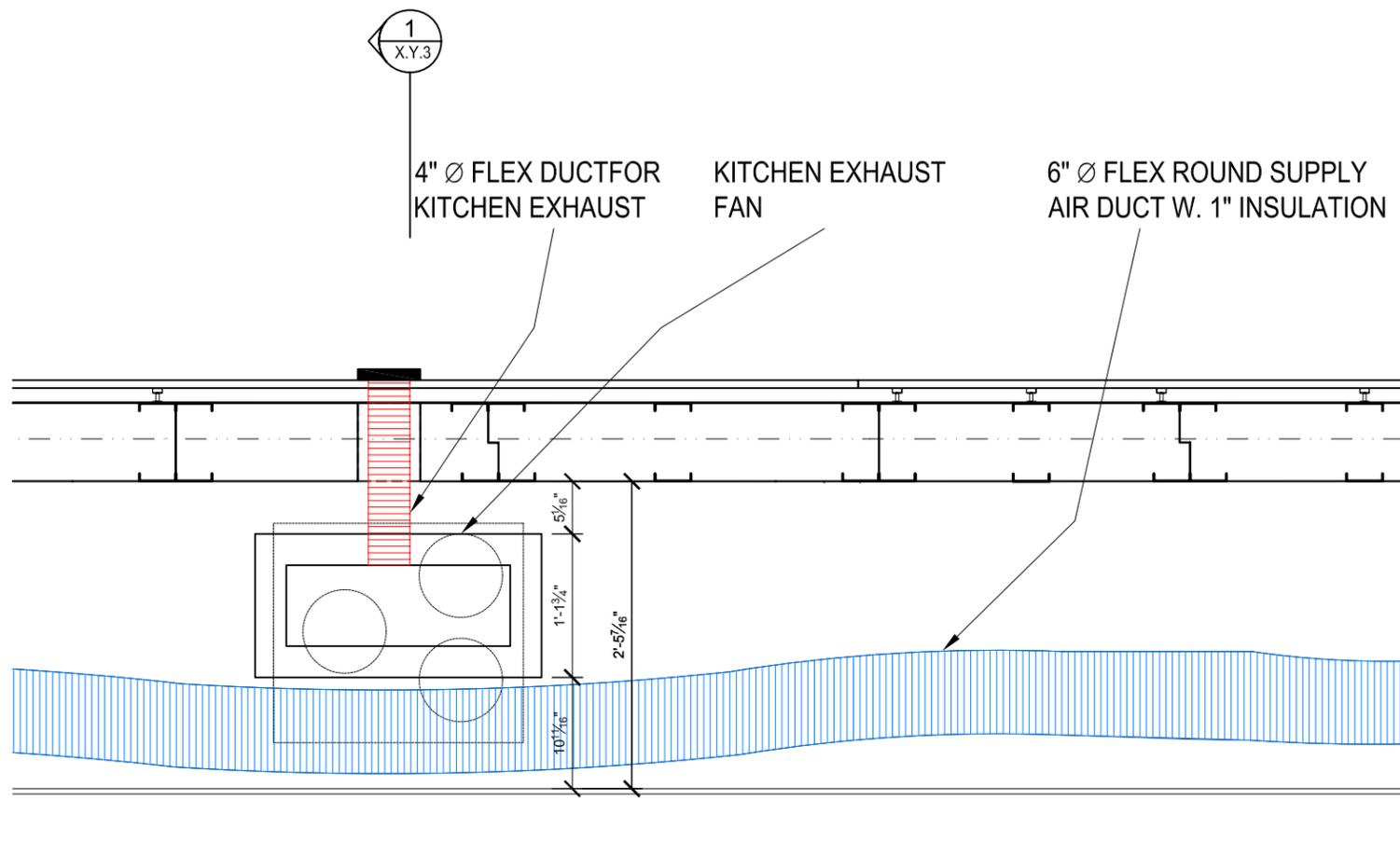
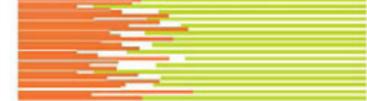
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HVAC : VENTILATION SYSTEM

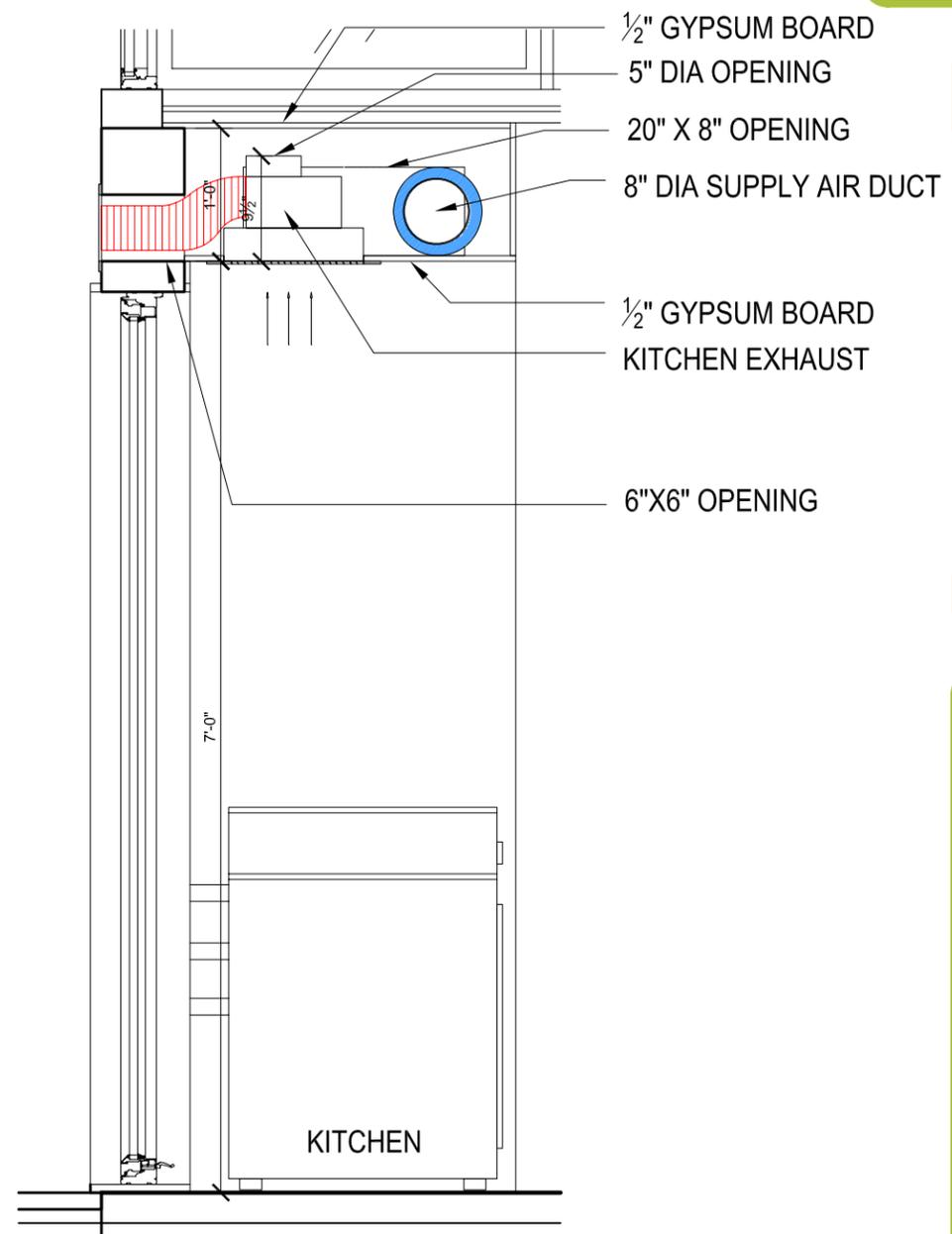
1 PLAN
M.2.5

2 CROSS SECTION
LOOKING WEST
M.2.5

M.2.5



1 CROSS SECTION
M.2.6 LOOKING WEST



1 CROSS SECTION
M.2.6 LOOKING WEST

date	description	revision

consultants:

engineer's stamp

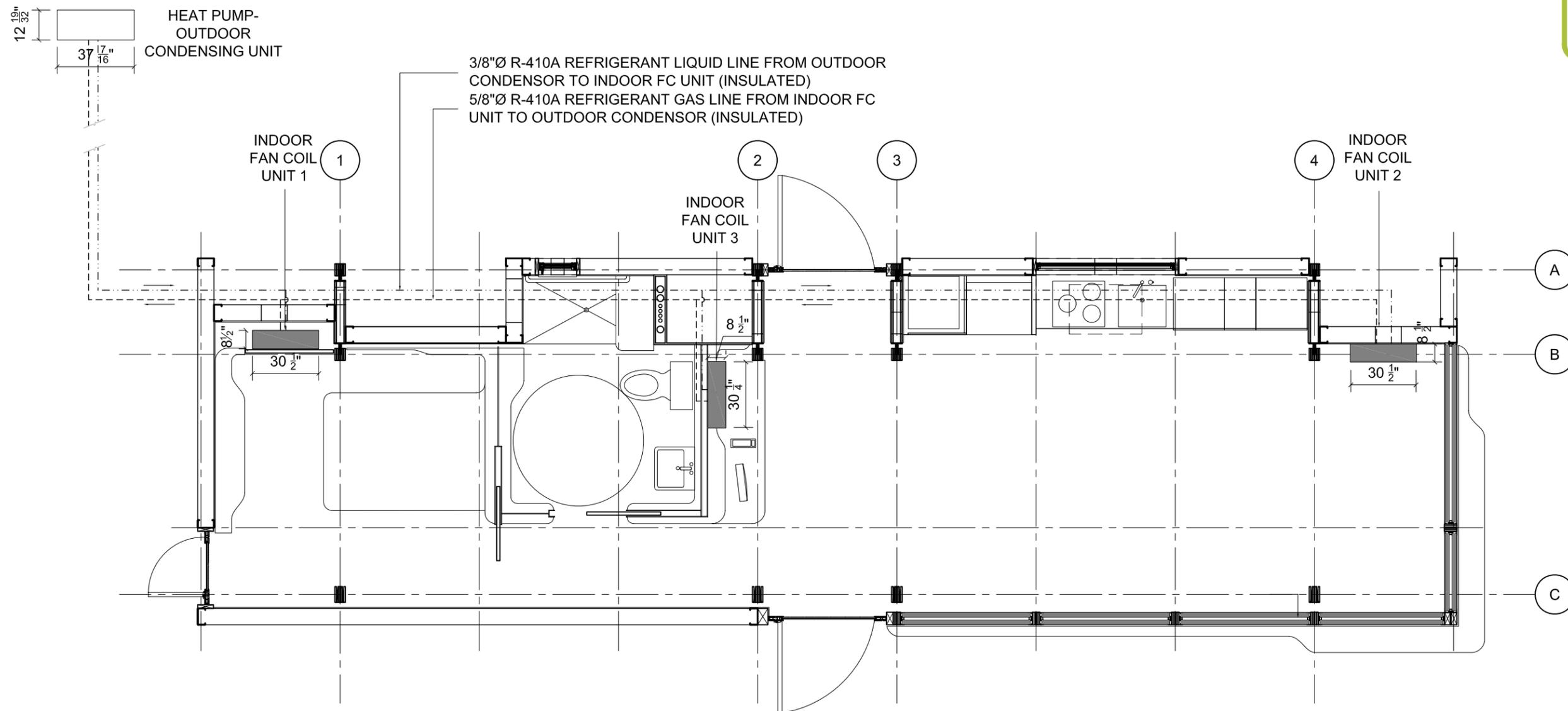
prepared by:
Shreyansh

date drawn:
08.06.07

scale: 3/4" : 1' 0"

HVAC : VENTILATION SYSTEM

M.2.6



3/8"Ø R-410A REFRIGERANT LIQUID LINE FROM OUTDOOR CONDENSOR TO INDOOR FC UNIT (INSULATED)
 5/8"Ø R-410A REFRIGERANT GAS LINE FROM INDOOR FC UNIT TO OUTDOOR CONDENSOR (INSULATED)

INDOOR FAN COIL UNIT 1

INDOOR FAN COIL UNIT 3

INDOOR FAN COIL UNIT 2

NOTES :

1. HEAT PUMP- OUTDOOR CONDENSING UNIT - MITSUBISHI ELECTRICAL MXZ-3A30NA
2. HEAT PUMP - INDOOR FAN COIL UNIT (BEDROOM AND STUDY) - MITSUBISHI ELECTRICAL MSZ-A9NA
3. HEAT PUMP - INDOOR FAN COIL UNIT (LIVING) - MITSUBISHI ELECTRICAL MSZ-A12NA
4. 12" CLEARANCE TO BE PROVIDED ON ALL SIDES OF THE CONDENSOR UNIT

date	description	revision

consultants:

engineer's stamp

prepared by:
Shreyansh Ajeeta Dhole

date drawn:
 08.06.07
 03.02.07
 11.30.06

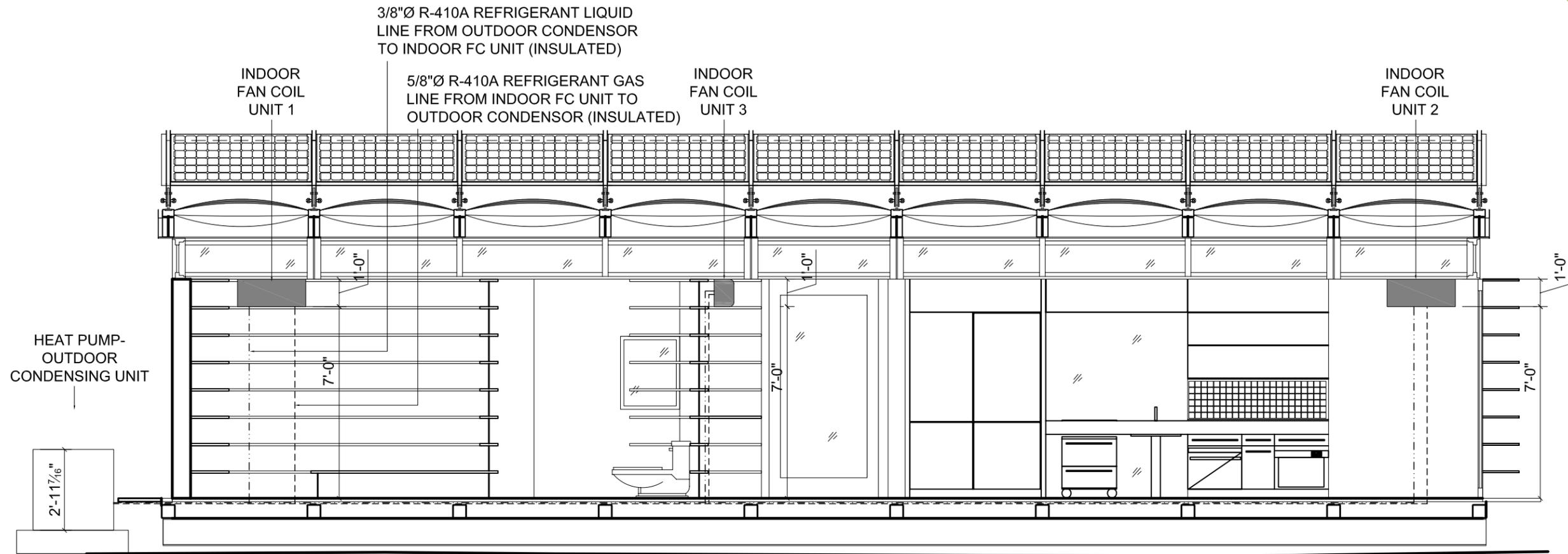


scale: 1/4" = 1' 0"

PLAN - DUCTLESS MULTI - SPLIT HEAT PUMP

1 PLAN - DUCTLESS MULTI - SPLIT HEAT PUMP UNIT
 M.3.0

M.3.0



NOTES :

1. HEAT PUMP- OUTDOOR CONDENSING UNIT - MITSUBISHI ELECTRICAL MXZ-3A30NA
2. HEAT PUMP - INDOOR FAN COIL UNIT (BEDROOM AND STUDY) - MITSUBISHI ELECTRICAL MSZ-A9NA
3. HEAT PUMP - INDOOR FAN COIL UNIT (LIVING) - MITSUBISHI ELECTRICAL MSZ-A12NA
4. 12" CLEARANCE TO BE PROVIDED ON ALL SIDES OF THE CONDENSOR UNIT

date	description	revision

consultants:

-
-
-

engineer's stamp

prepared by:
Shreyansh Ajeeta Dhole

date drawn:
 08.06.07
 03.02.07
 11.30.06



scale: 1/4" : 1' 0"

SEC ELEV - DUCTLESS MULTI-SPLIT HEAT PUMP

1
 M.3.1

SECTIONAL ELEVATION - DUCTLESS MULTI - SPLIT HEAT PUMP UNIT

M.3.1

ELECTRICAL NOTES

1.0.0 GENERAL

1.0.1 THE PV DIAGRAM DEPICTS A STAND-ALONE PHOTOVOLTAIC SYSTEM WITH BATTERY STORAGE

1.0.2 ALL EQUIPMENTS INCLUDING PV MODULE, INVERTERS, CHARGE CONTROL AND BATTERIES SHALL BE UL LISTED AND SHALL ME ASSEMBLED AND INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS

1.0.3. PV MOUNTED SUPPORT SHALL BE GROUNDED

2.0.0 RECEPTACLE OUTLETS [REF: SECTION E3801, 2006 REC]

2.0.1 RECEPTACLE IN BEDROOM, DINING, LIVING, STUDY AND KITCHEN SHALL BE INSTALLED SO THAT NO POINT MEASURED HORIZONTALLY ALONG THE FLOOR LINE IN ANY WALL SPACE IS MORE THAN 6'-0" FROM RECEPTACLE OUTLET

2.0.2 FLOOR RECEPTACLES SHALL BE INSTALLED WITHIN 18" DISTANCE FROM THE WALL

2.0.3 RECEPTACLE OUTLETS FOR WALL COUNTER IN KITCHEN SHALL BE INSTALLED SO THAT NO POINT IN ALONG THE WALL LINE IS 24"

2.0.4 RECEPTACLE OUTLETS FOR WALL COUNTER SHALL NOT BE MORE THAN 20" ABOVE THE COUNTER TOP

2.0.5 APPLIANCE RECEPTACLE OUTLETS INSTALLED FOR SPECIFIC APPLIANCES, SUCH AS REFRIGERATOR OR DISH WASHER SHALL BE INSTALLED WITHIN 6'-0" OF THE INTENDED LOCATION OF THE APPLIANCE

2.0.6 RECEPTACLE IN BATHROOM SHALL BE INSTALLED WITHIN 3'-0" OF THE OUTSIDE EDGE OF WASH BASIN. THE RECEPTACLE OUTLET SHALL BE LOCATED ON THE WALL OR PARTITION THAT IS ADJACENT TO THE WASH BASIN AND SHALL BE LOCATED WITHIN 20" ABOVE THE BASIN TOP

2.0.7 EXTERIOR RECEPTACLE SHOULD BE WATER PROOFED AND SHALL BE INSTALLED NOT MORE THAN 6'-6" ABOVE DECK LEVEL

2.0.8 ONE 120 V DUPLEX RECEPTACLE SHALL BE INSTALLED WITHIN 25'-0" DISTANCE FROM HVAC EQUIPMENTS FOR SERVICING OF HEATING, AIR-CONDITIONING AND REFRIGERATION EQUIPMENT

1.0.9 BATHROOM AND KITCHEN COUNTER RECEPTACLE SHALL HAVE GFCI PROTECTION [REF: SECTION E3802, 20006 REC]

3.0.0 LOCATION OF SWITCHES, CONTROLS AND RECEPTACLE OUTLETS [REF: ADA GUIDELINES]

3.0.1 ALL SWITCHES, CONTROLS AND RECEPTACLE SHALL BE MINIMUM OF 15" AND MAXIMUM OF 54" TO CENTERLINE, ABOVE THE FINISHED FLOOR LEVEL

4.0.0 WIRING

4.0.1 ALL WIRING FOR INTERIOR SPACES SHALL RUN BELOW THE FINISHED FLOOR AND SHALL PULLED UP ON THE WALL SURFACE FOR ELECTRICAL INSTALLATIONS THROUGH WIRE CHASE WITHIN SIP WALLS

4.0.2 CONTROLS, DATA, TV AND TELEPHONE WIRING SHALL BE INDEPENDENT OF 120V AC/ 240V AC WIRING

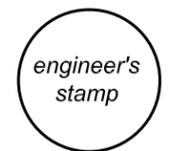
ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	120 V DUPLEX RECEPTACLE
	120 V DUPLEX RECEPTACLE (GFCI AND WATER PROOF)
	120 V DUPLEX RECEPTACLE (GFCI)
	120 V SPECIAL PURPOSE RECEPTACLE OUTLET
	240 V SPECIAL PURPOSE RECEPTACLE OUTLET
	FLOOR RECEPTACLE
	SMOKE DETECTOR



date	description	revision

consultants:



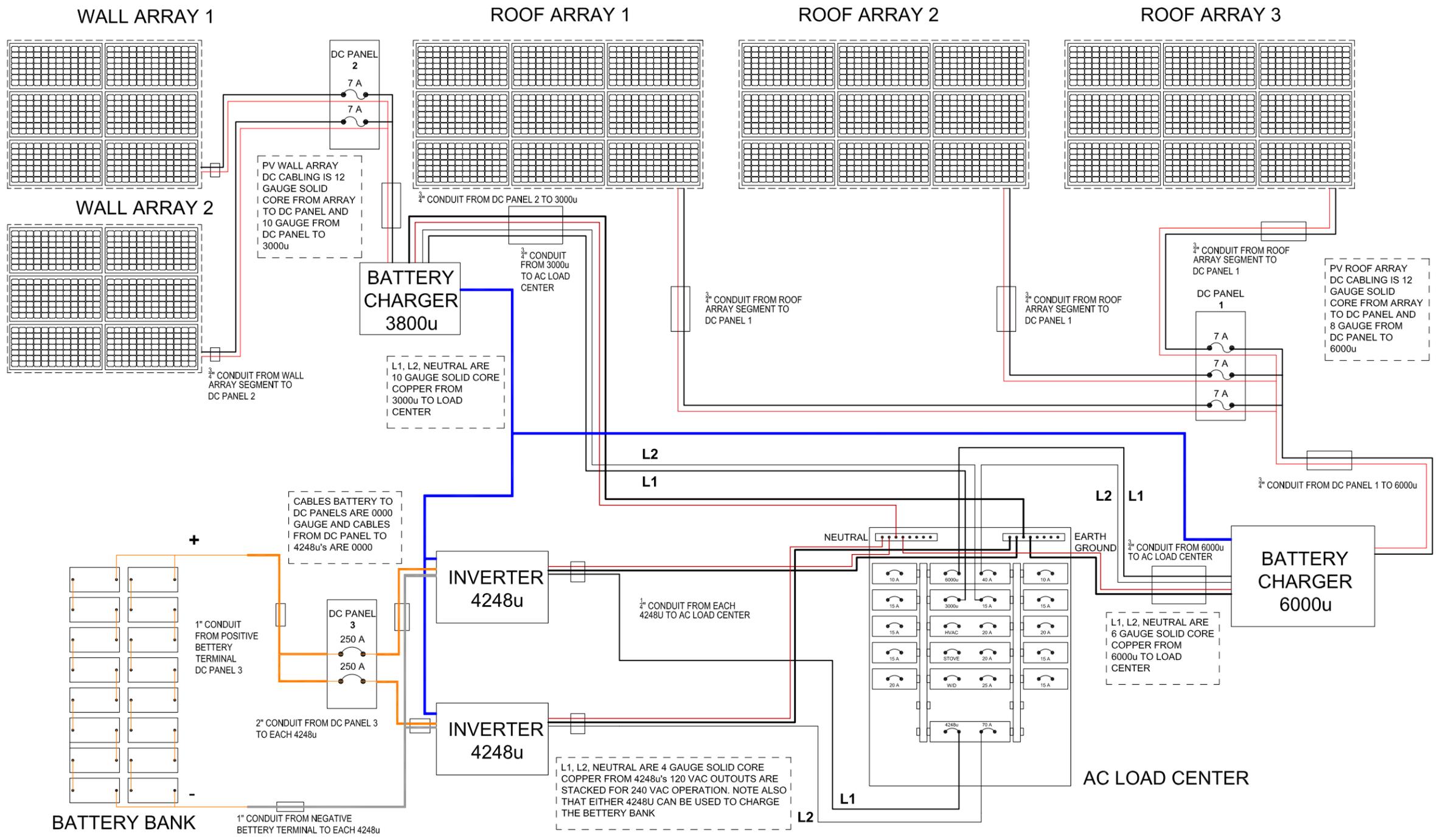
prepared by:
Shreyansh

date drawn:
08.06.07
03.02.07
12.06.06



E.0.0

ELECTRICAL NOTES/ LEGEND



NOTES:

1. EACH ROOF BANK CONSISTS OF 9 SUNPOWER 220 PANELS WIRED IN SERIES. MAXIMUM POWER POINT VOLTAGE IS 358 VDC @5.53 AMPS. OPEN CIRCUIT VOLTAGE IS APPROXIMATELY 435 VDC. NOTE THAT PANELS ARE POSITIVE GROUND, SUCH THAT POSITIVE GROUND IS 0 VOLTS AND THE NEGATIVE TERMINAL WILL BE -435 VOLTS MAXIMUM.
2. FRONT WALL BANK CONSISTS OF 12 SUNPOWER 215 PANELS WIRED IN SERIES. MAXIMUM POWER POINT VOLTAGE IS 239 VDC @5.53 AMPS. OPEN CIRCUIT VOLTAGE IS APPROXIMATELY 290 VDC. NOTE THAT PANELS ARE POSITIVE GROUND, SUCH THAT POSITIVE GROUND IS 0 VOLTS AND THE NEGATIVE TERMINAL WILL BE -290 VOLTS MAXIMUM.
3. BATTERY BANK CONSISTS OF 2 PARALLEL STRINGS OF 8 SURRETTE BATTERIES(6-CS-25PS) CONNECTED IN SERIES. THE BETTERY BANK VOLTAGE IS 48V AND THE CAPACITY IS 1025 AMPS-HR AT 100 HR RATE.

date	description	revision

consultants:

engineer's stamp

prepared by:
Shreyansh
 date drawn:
 08.06.07
 03.03.07
 12.03.06



scale: none

E.1.0

PV ARRAY

ELECTRIC CAR WITH CHARGING STATION

SUPPLY WATER PUMP

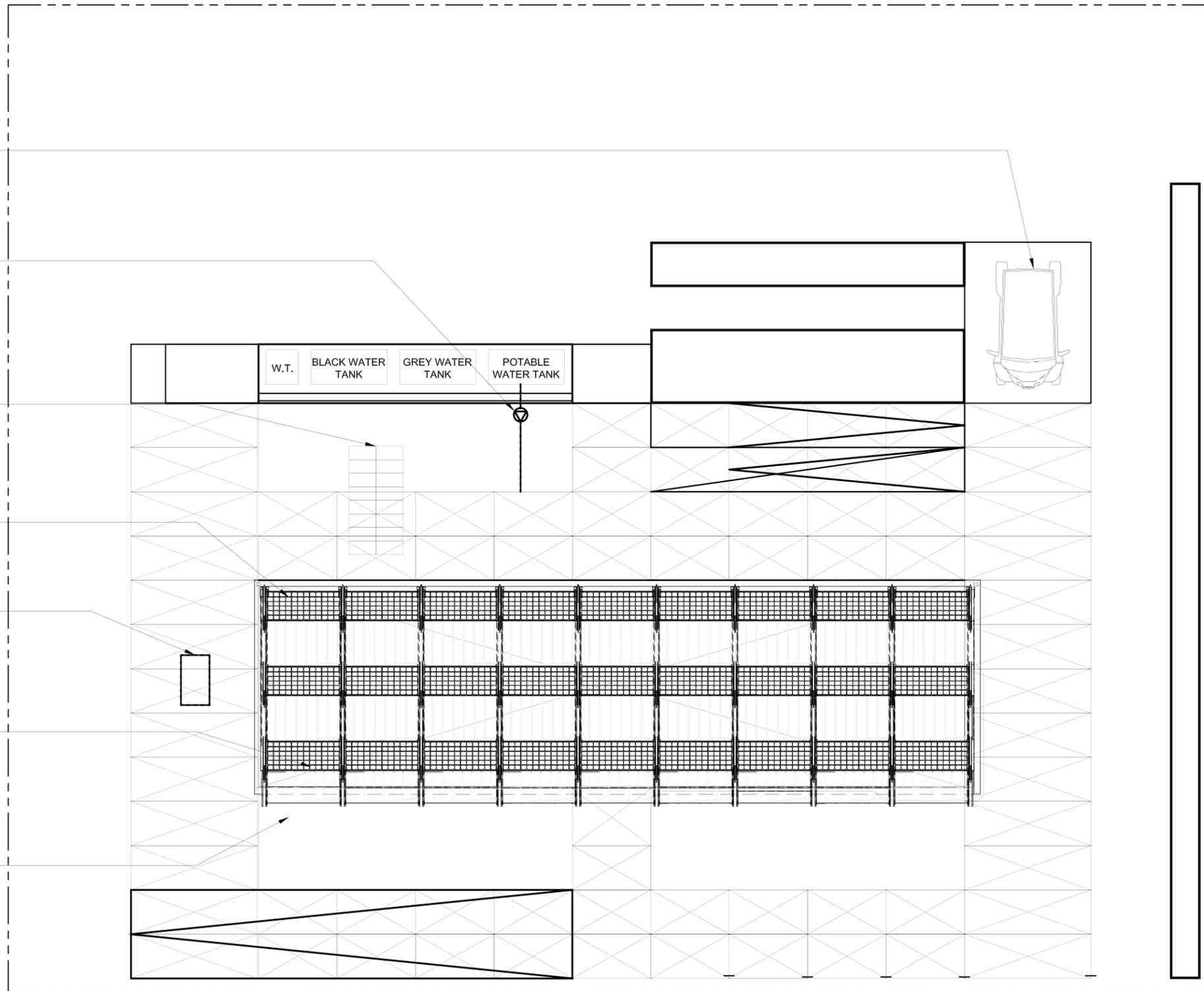
BATTERY BANK BELOW THE DECK

LOCATION OF ELECTRIC CLOSET

SUBMERSIVE PUMP FOR IRRIGATION

PV ARRAY ON THE ROOF

PV ARRAY ON THE SOUTH WALL



date

description

revision

consultants:



engineer's stamp

prepared by:

Shreyansh

date drawn:

06.08.07

03.03.07



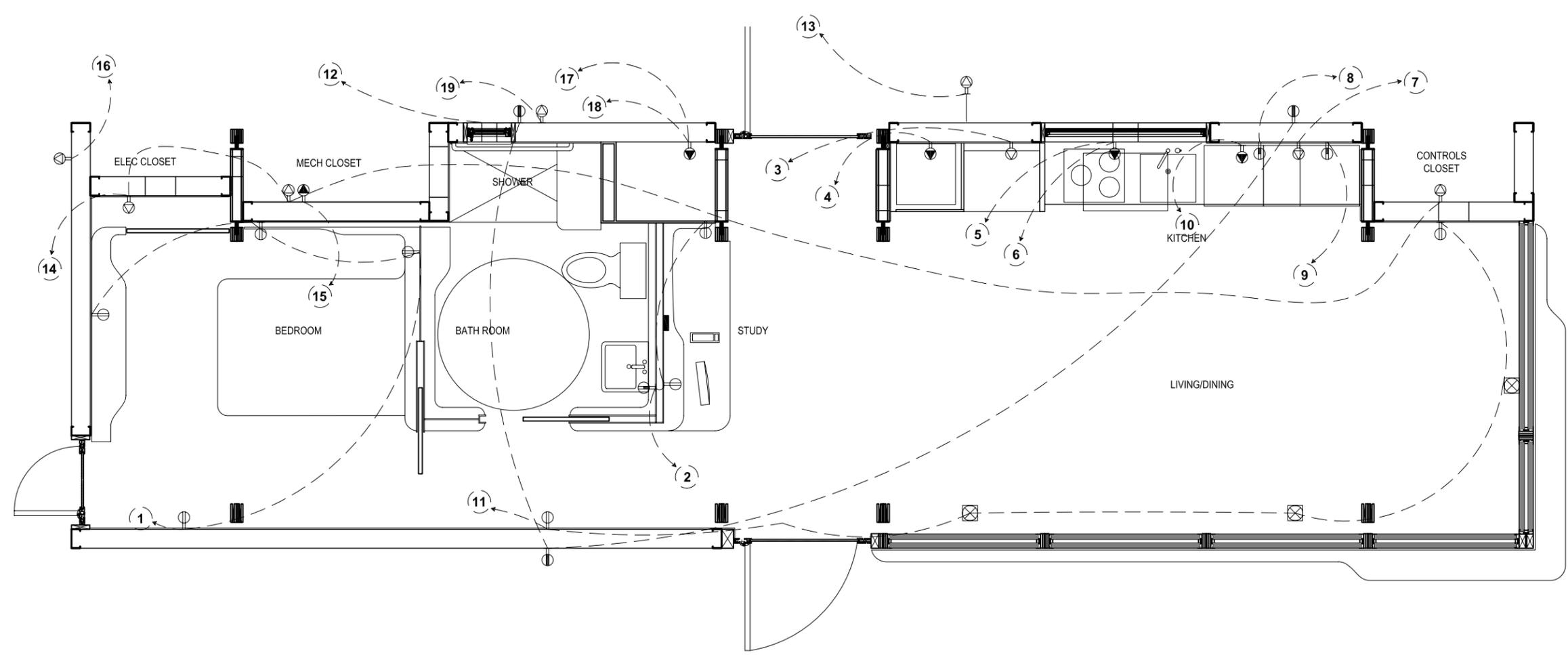
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SITE ELECTRICAL

1
E.2.0

SITE ELECTRICAL

E.2.0



date	description	revision

consultants:

engineer's stamp

prepared by:
Shreyansh

date drawn:
08.06.07

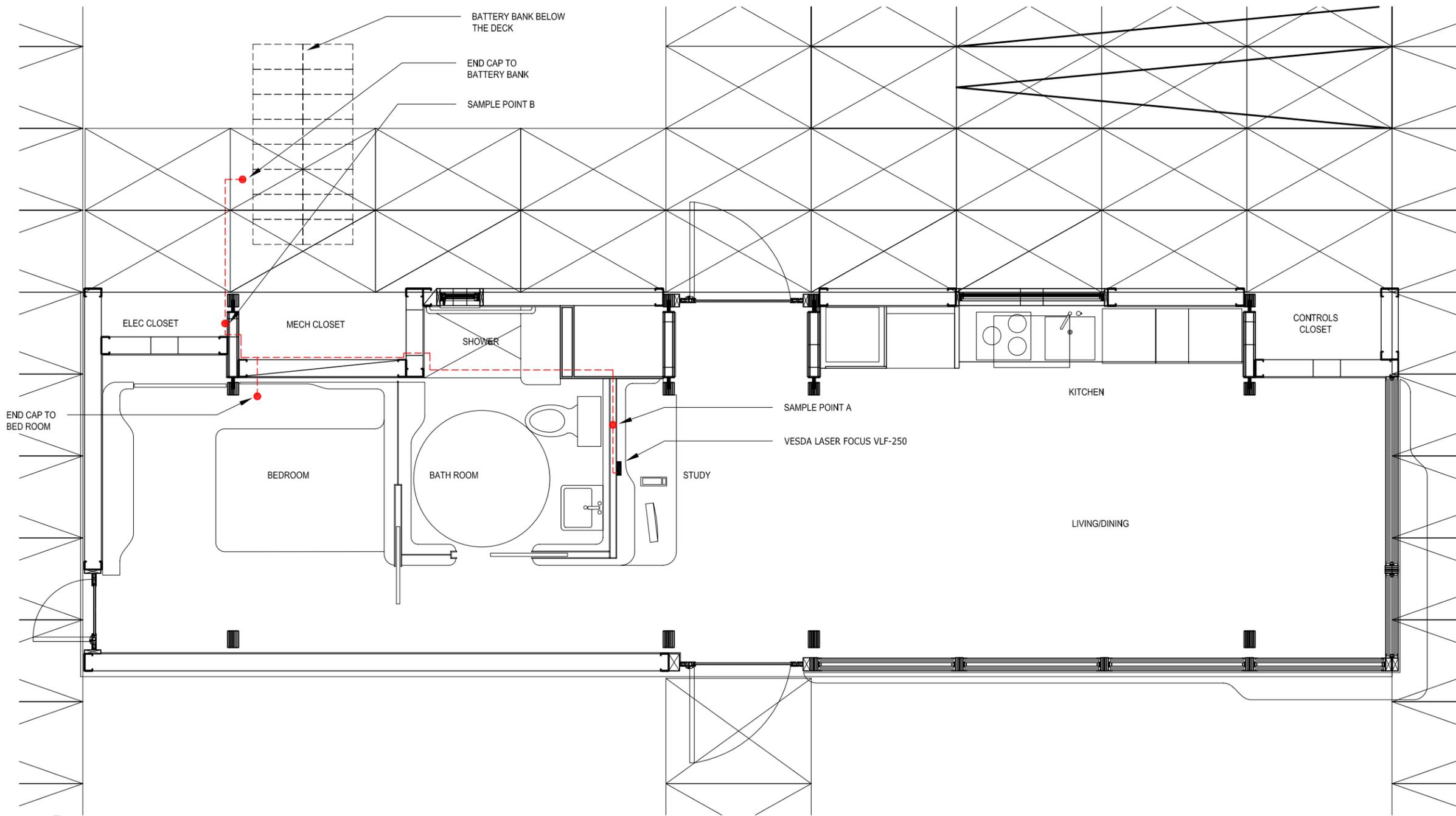


scale: **1/4" = 1'-0"**

E.2.1

ELECTRICAL : PLAN

1 PLAN: CIRCUIT LAYOUT
 E.2.2



1 PLAN: SMOKE DETECTION SYSTEM
E.2.2

NOTES:
REFER ELEVATIONAL SECTION-E.2.3 FOR THE LOCATION OF SAMPLE POINTS AND END CAP

date
description
revision

consultants:

engineer's stamp

prepared by:
Shreyansh

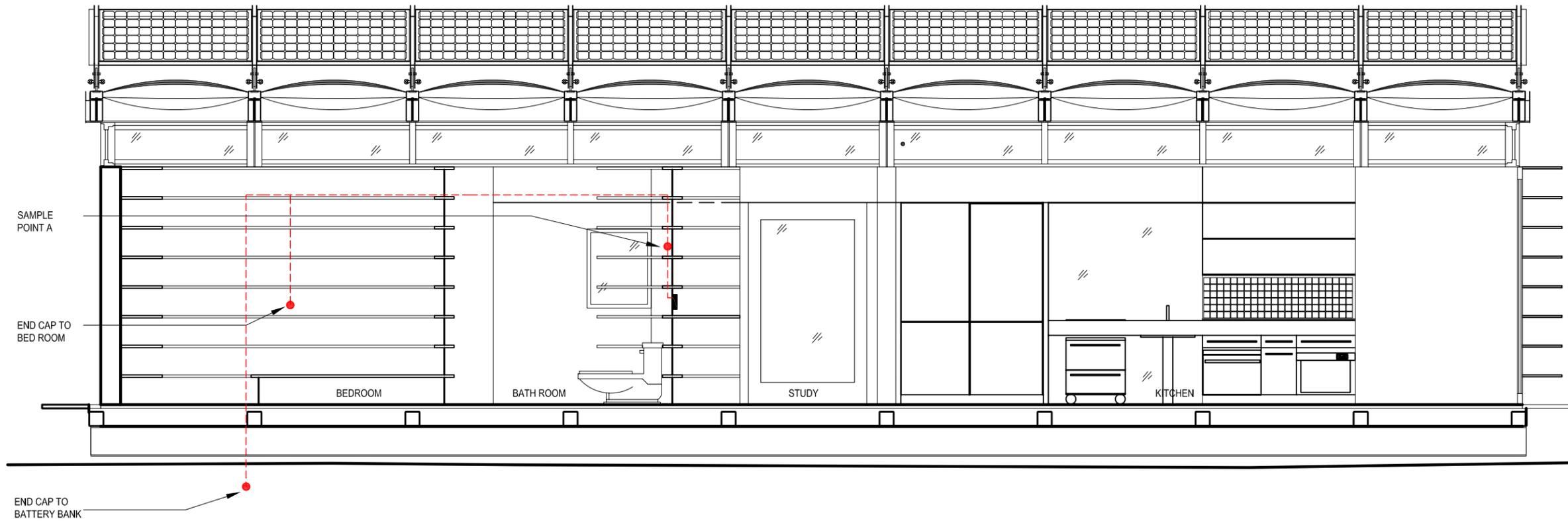
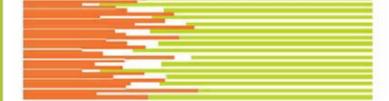
date drawn:
08.06.07



scale: 1/4" = 1'-0"

E.2.2

ELECTRICAL : SMOKE DETECTION SYSTEM



date
description
revision

consultants:

engineer's stamp

prepared by:
Shreyansh

date drawn:
08.06.07

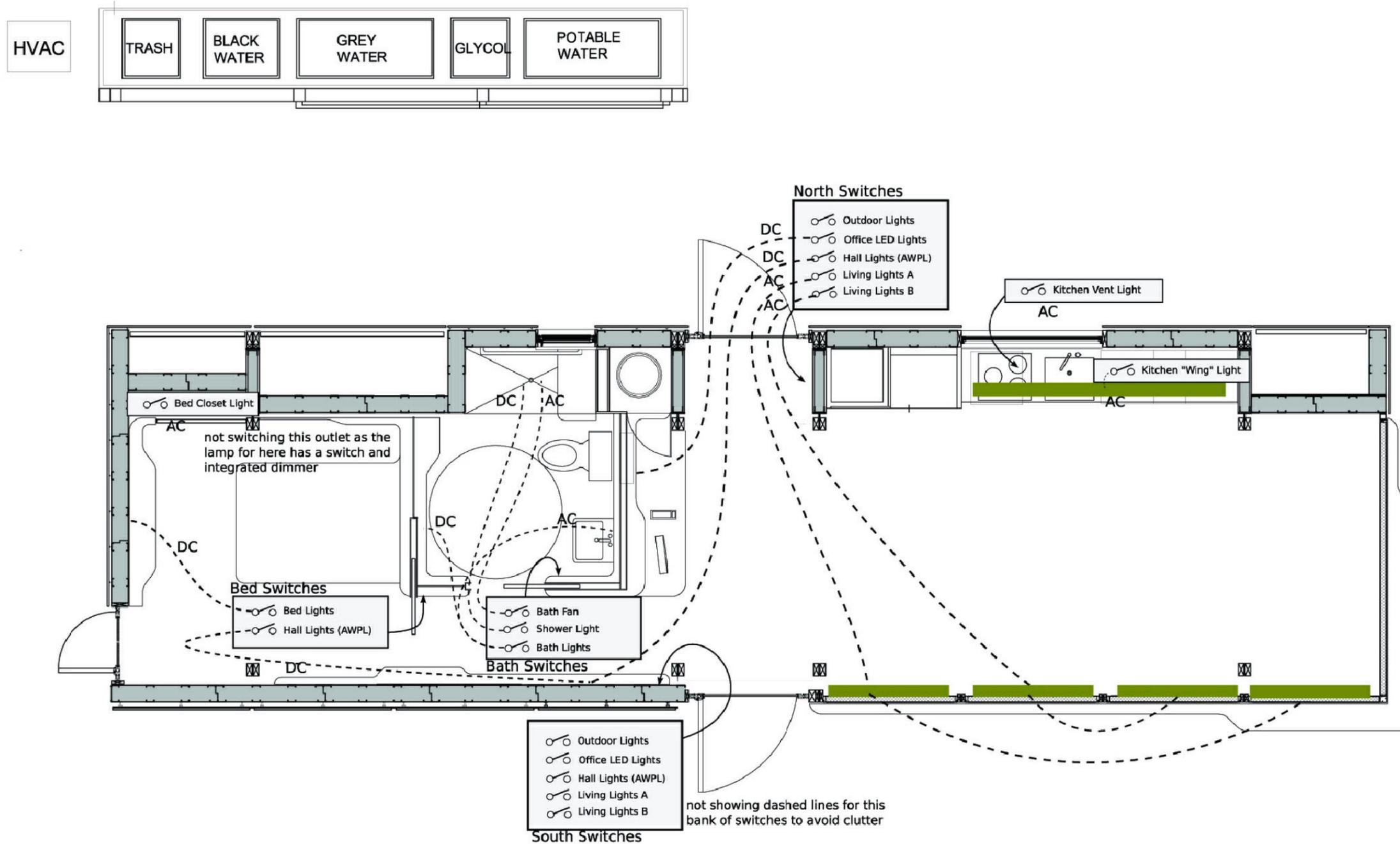
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1 ELEVATIONAL SECTION: SMOKE DETECTION SYSTEM
E.2.3

NOTES:
REFER PLAN -E.2.2 FOR THE LOCATION OF SAMPLE POINTS AND END CAP

E.2.3

ELECTRICAL : SMOKE DETECTION SYSTEM



date	description	revision

consultants:

engineer's stamp

prepared by:
Shreyansh

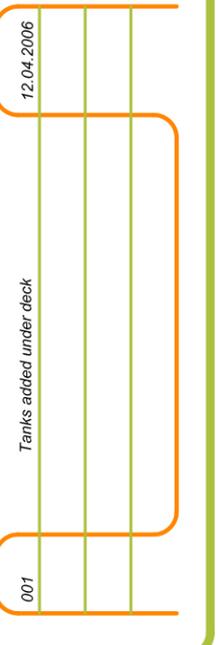
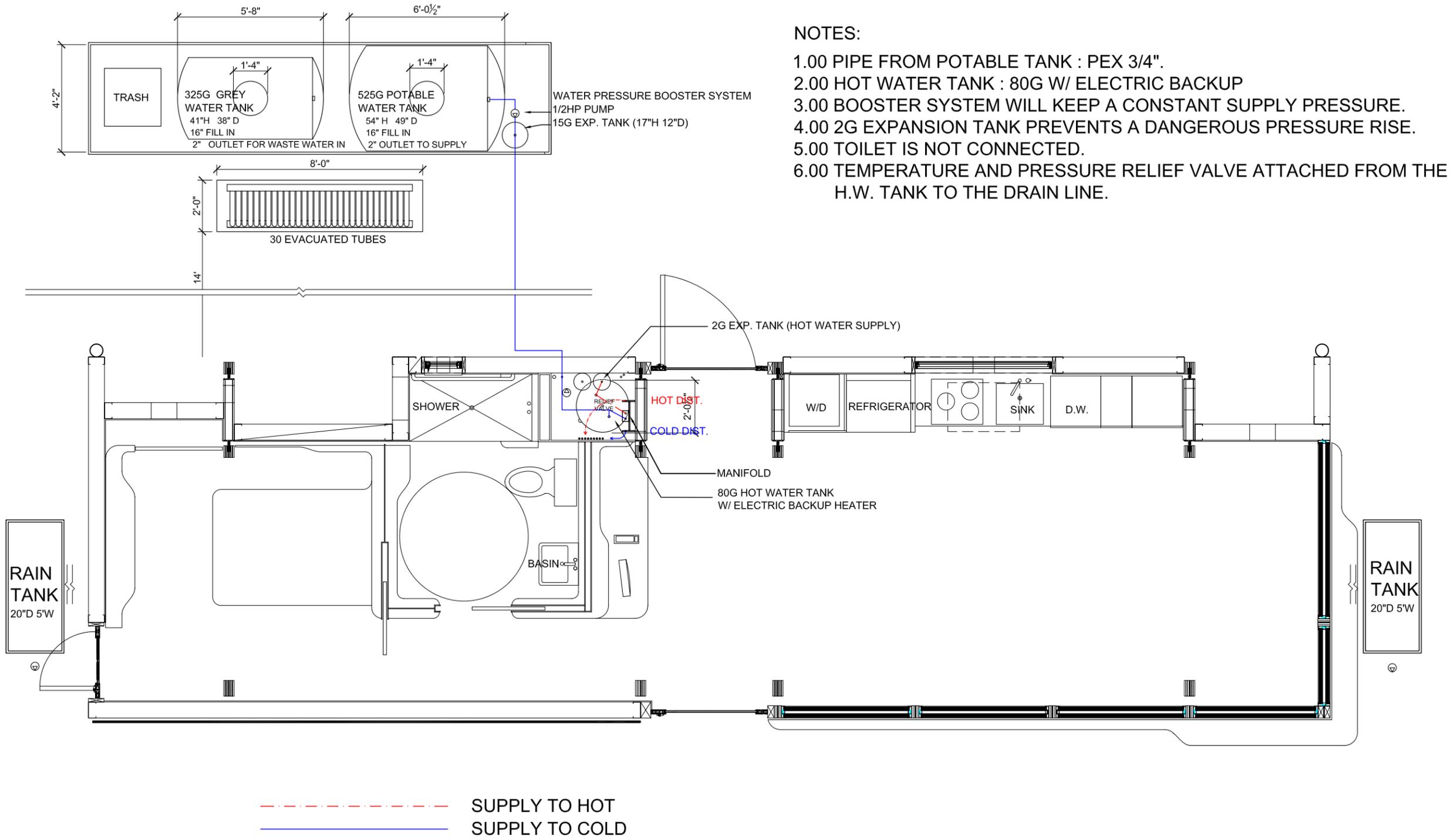
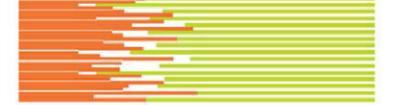
date drawn:
08.06.07



ELECTRICAL : LIGHTING

1 PLAN: LIGHTING SWITCH LAYOUT
E.2.4

E.2.4



consultants:

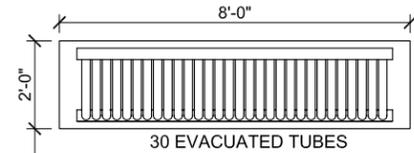
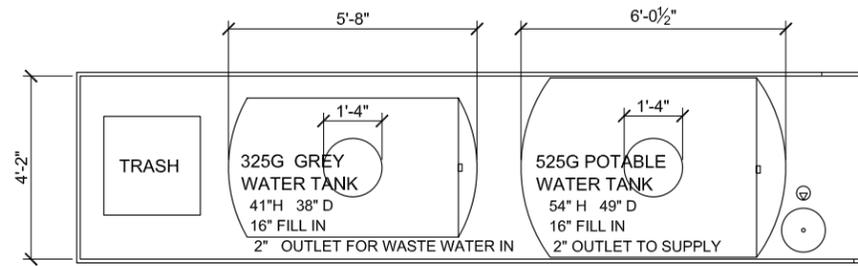
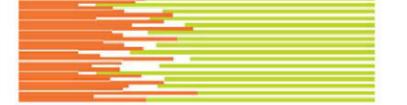


prepared by:
 Sang-Hoon Lee
 Rannie Daffon
 C. JASON MABRY
 date drawn:
 8.03.07



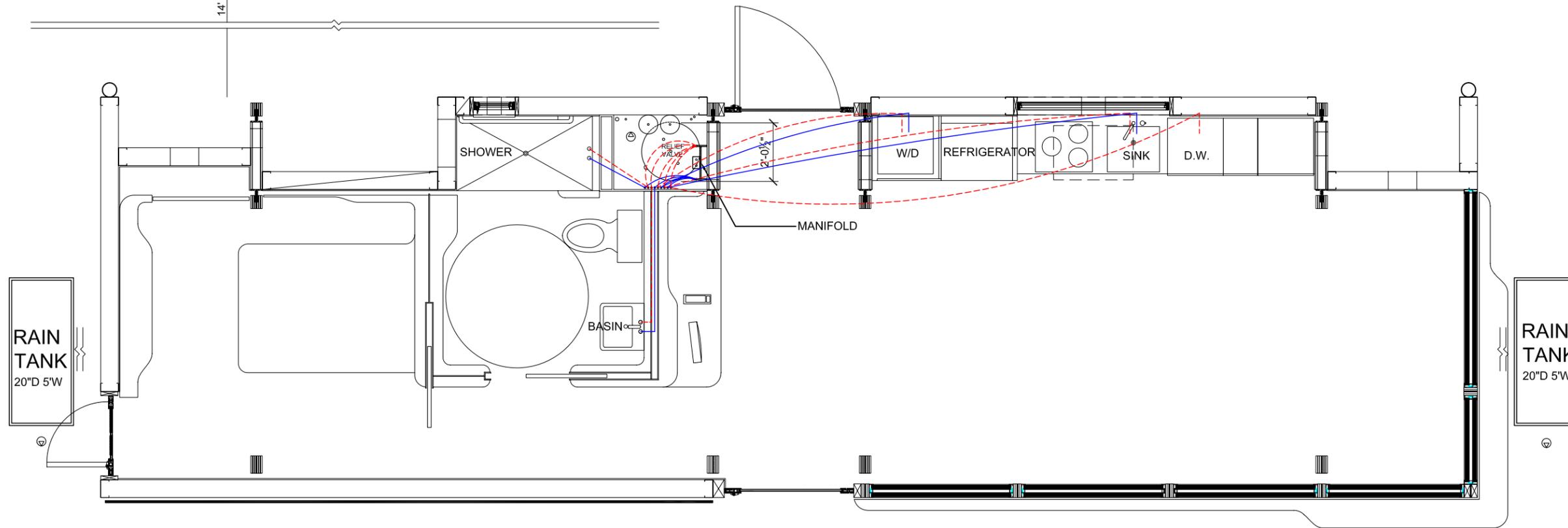
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PLUMBING SUPPLY PLAN

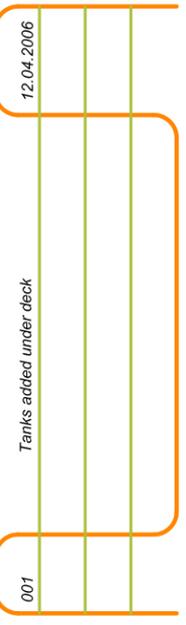


NOTES:

- 1.00 DISTRIBUTION PIPE : 1/2" PEX.
- 2.00 MANIFOLD INLET : 3/4", OUTLET : 1/2"
3. MANIFOLD COLD OUTLET : 4 (SHOWER, BASIN, W/D, SINK)
4. MANIFOLD HOT OUTLET : 5 (SHOWER, BASIN, W/D, SINK, DISHWASHER)



— COLD DISTRIBUTION
 - - - HOT DISTRIBUTION



consultants:

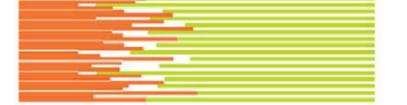


prepared by:
 Sang-Hoon Lee
 Rannie Daffon
 C. JASON MABRY
 date drawn:
 8.03.07



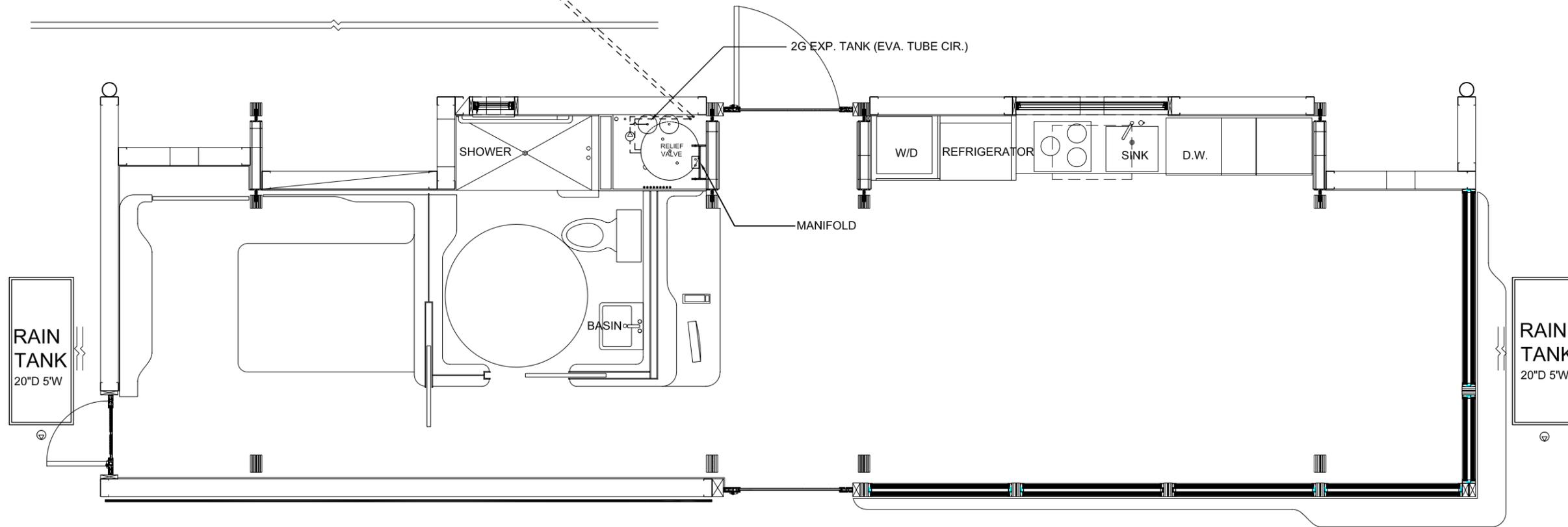
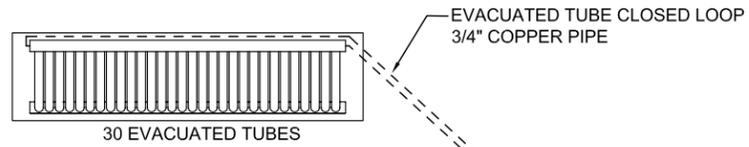
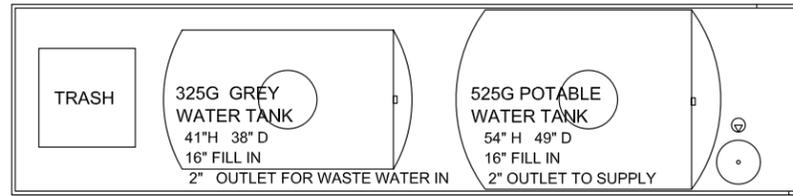
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PLUMBING DISTRIBUTION PLAN

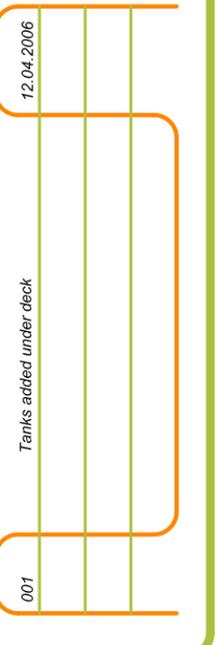


NOTES:

- 1.00 EVACUATED TUBE GLYCOL CLOSED LOOP PIPE : 3/4" COPPER
- 2.00 30 EVACUATED TUBES STANDS AT 70° TO THE GROUND



----- EVAC TUBE CLOSED LOOP

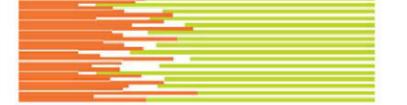


consultants:
 prepared by:
 Sang-Hoon Lee
 Rannie Daffon
 C. JASON MABRY
 date drawn:
 8.03.07



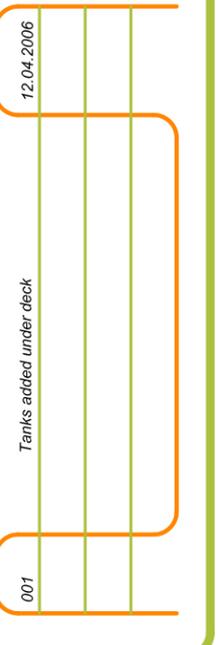
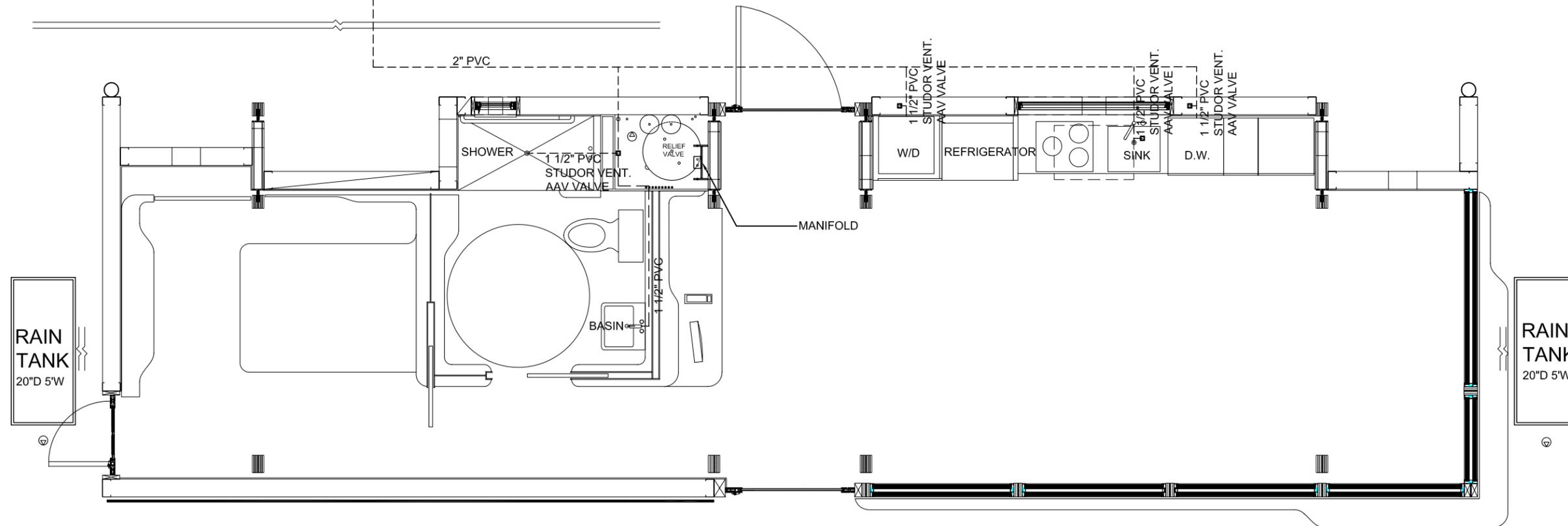
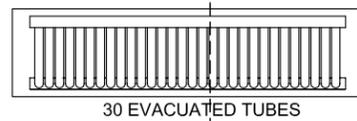
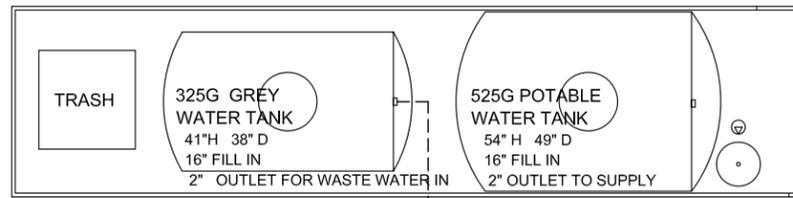
scale: NTS

PLUMBING SOLAR COLLECTOR PLAN



NOTES:

- 1.00 GREY SHOWER, BASIN, LAUNDRY WASHER, D.W. PIPE, SINK : 1 1/2" PVC
 - 2.00 GREY STACK PIPE : 2" PVC
 - 3.00 ALL WASTE LINES TO SLOPE 1/4" PER FOOT.
 - 4.00 KITCHEN SINK DOES NOT HAVE A FOOD DISPOSAL.
- WASTE WATER PLAN DOES NOT NEED A BLACK WATER TANK.

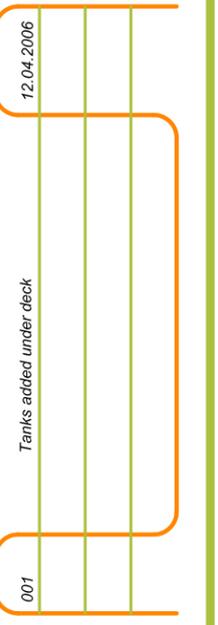
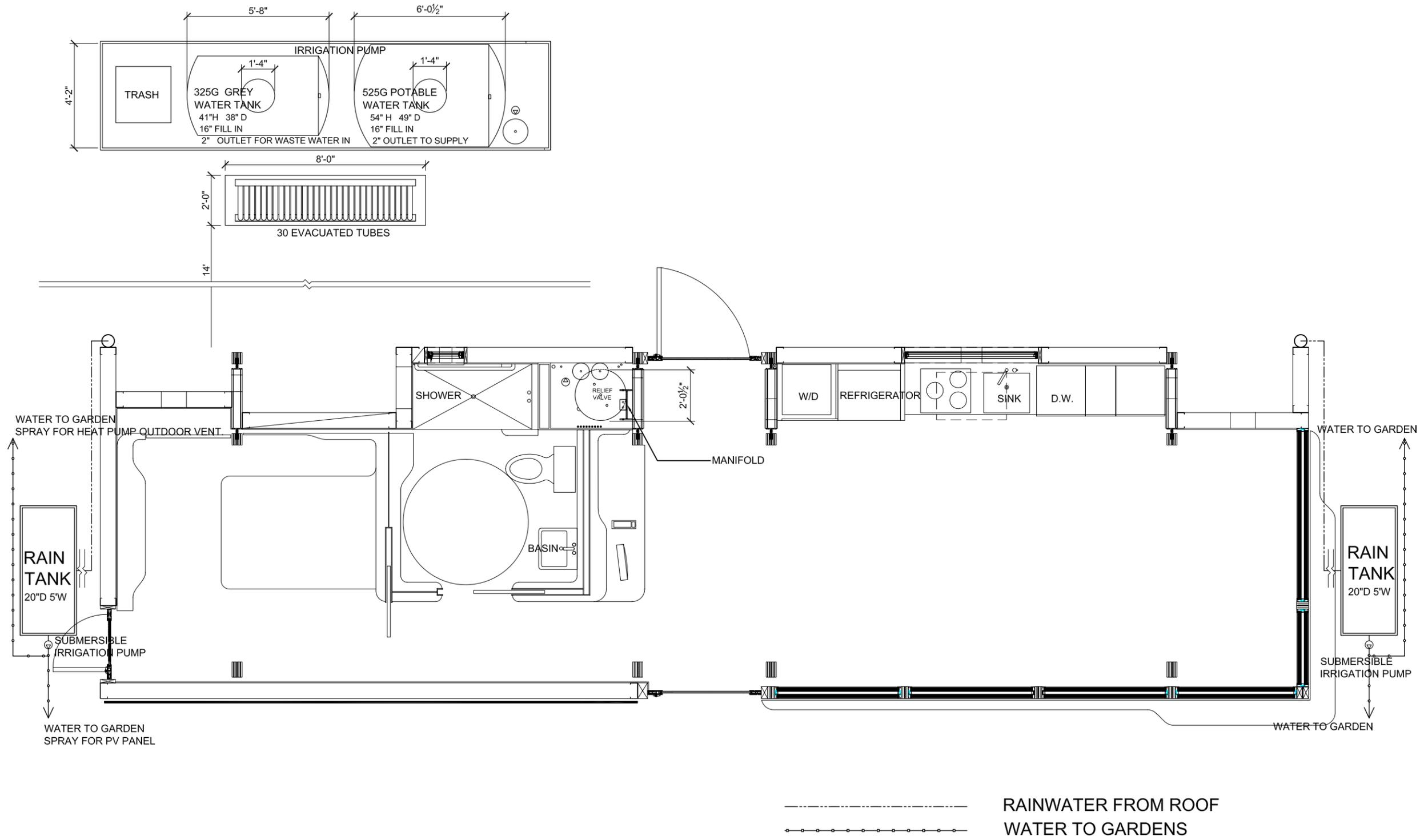
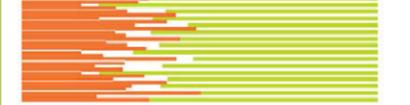


prepared by:
 Sang-Hoon Lee
 Rannie Daffon
 C. JASON MABRY
 date drawn:
 8.03.07



scale: **NTS**

PLUMBING WASTE PLAN

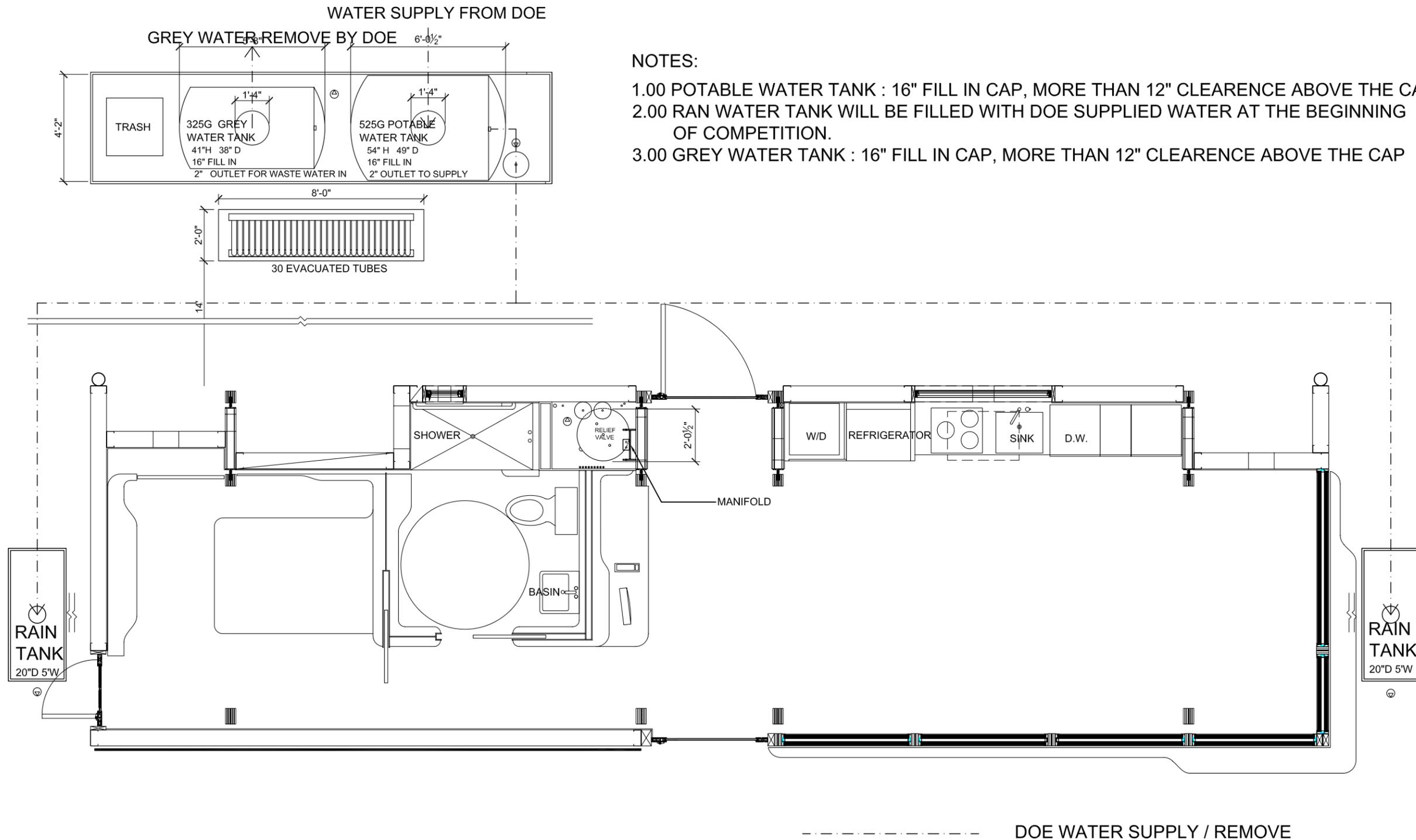
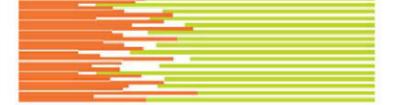


prepared by:
 Sang-Hoon Lee
 Rannie Daffon
 C. JASON MABRY
 date drawn:
 8.03.07



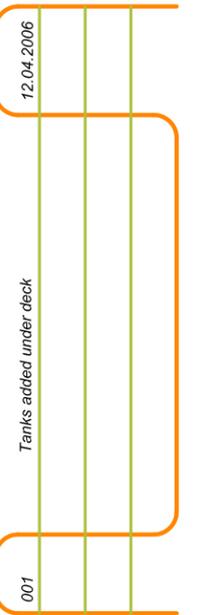
scale: NTS

PLUMBING IRRIGATION PLAN



NOTES:

- 1.00 POTABLE WATER TANK : 16" FILL IN CAP, MORE THAN 12" CLEARANCE ABOVE THE CAP
- 2.00 RAN WATER TANK WILL BE FILLED WITH DOE SUPPLIED WATER AT THE BEGINNING OF COMPETITION.
- 3.00 GREY WATER TANK : 16" FILL IN CAP, MORE THAN 12" CLEARANCE ABOVE THE CAP



consultants:

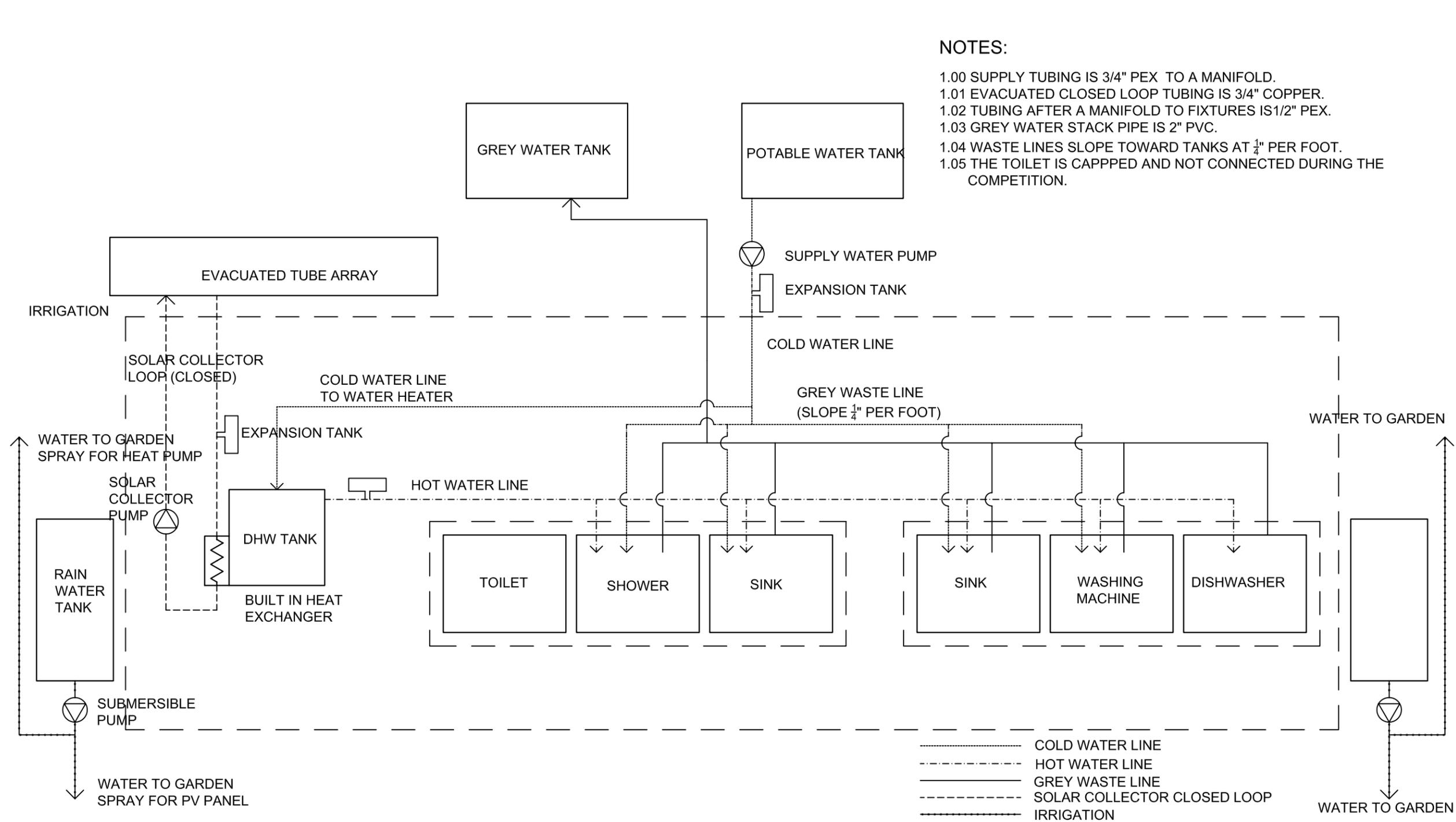


prepared by:
Sang-Hoon Lee
Rannie Daffon
C. JASON MABRY
date drawn:
8.03.07



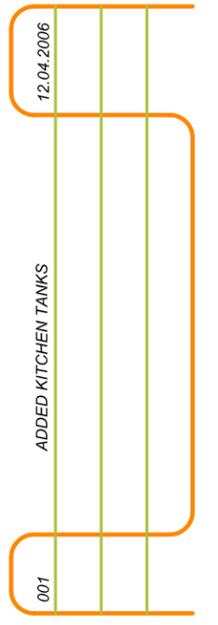
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PLUMBING DOE WATER SUPPLY/REMOVE PLAN



NOTES:

- 1.00 SUPPLY TUBING IS 3/4" PEX TO A MANIFOLD.
- 1.01 EVACUATED CLOSED LOOP TUBING IS 3/4" COPPER.
- 1.02 TUBING AFTER A MANIFOLD TO FIXTURES IS 1/2" PEX.
- 1.03 GREY WATER STACK PIPE IS 2" PVC.
- 1.04 WASTE LINES SLOPE TOWARD TANKS AT 1/4" PER FOOT.
- 1.05 THE TOILET IS CAPPPED AND NOT CONNECTED DURING THE COMPETITION.



consultants:

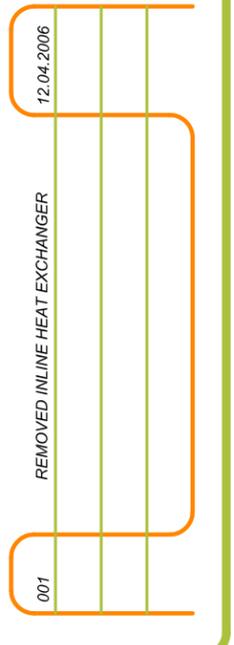
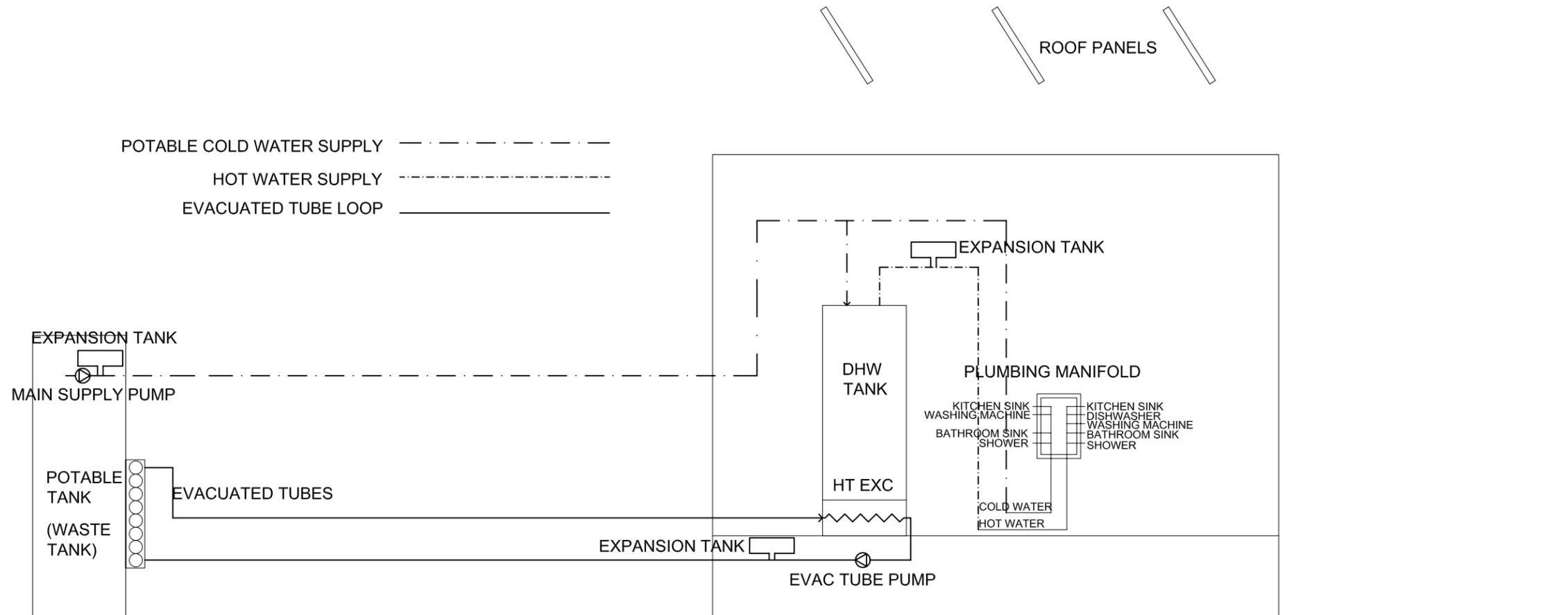


prepared by:
 Sang-Hoon Lee
 Rannie Daffon
 C. JASON MABRY
 date drawn:
 8.03.07



scale: **NTS**

PLUMBING LINE SCHEMATIC



consultants:



prepared by:
 Sang-Hoon Lee
 Rannie Daffon
 C. JASON MABRY
 date drawn:
 8.03.07

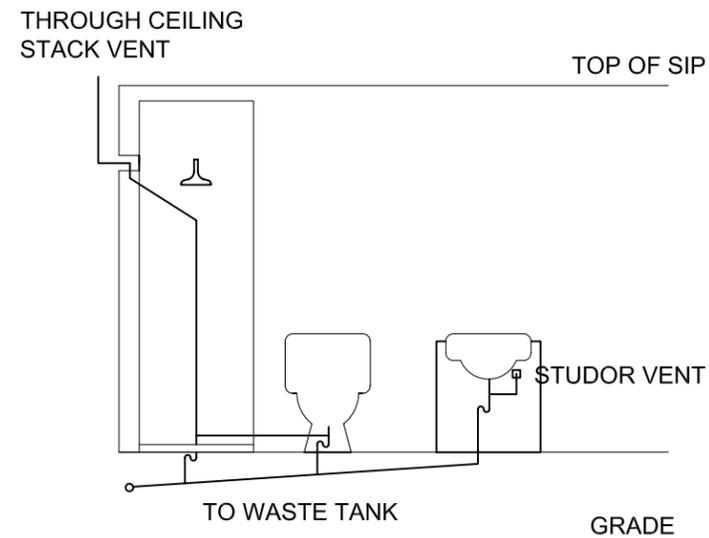


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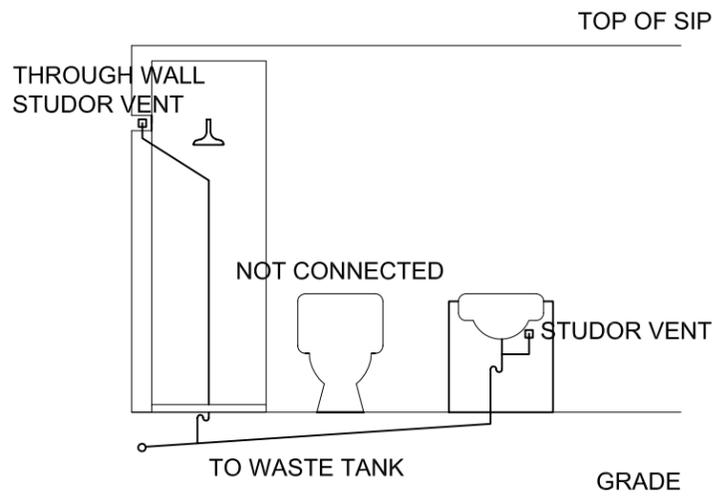
P.8.0

PLUMBING SCHEMATIC: SOLAR SECTION

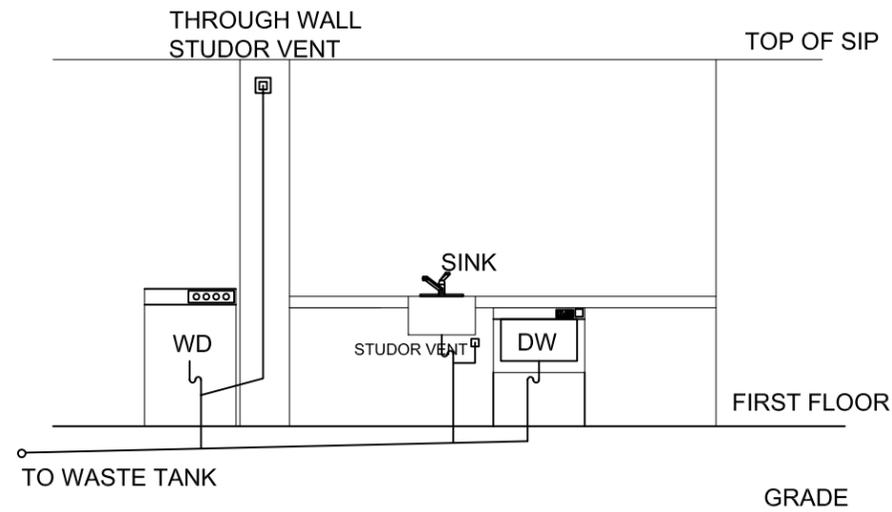
BATHROOM CROSS SECTION
A. TOILET IS CONNECTED.



BATHROOM CROSS SECTION FOR COMPETITION HOUSE
B. TOILET IS NOT CONNECTED.



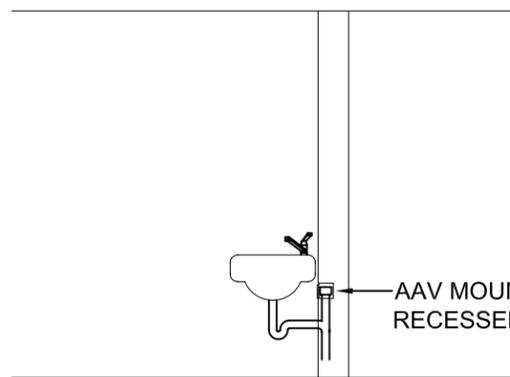
KITCHEN LONGITUDINAL SECTION



2 PLUMBING RISER DIAGRAM
P.9.0

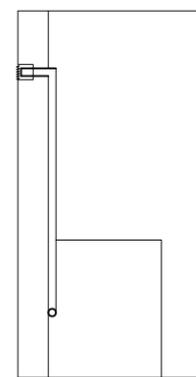


SINK SECTION



- NOTES:**
- 1.01 AAV SHALL BE LOCATED A MINIMUM OF 4" ABOVE HORIZONTAL BRANCH LINE.
 - 1.02 VALVE SHALL CONNECT TO THE DRAIN WITH A VERTICAL CONNECTION IN AN UPRIGHT POSITION.
 - 1.03 AAV SHALL BE INSTALLED ACCORDING TO ALL APPLICABLE BUILDING AND PLUMBING CODES AND THE MANUFACTURER'S INSTRUCTIONS.

KITCHEN WALL SECTION



1 PLUMBING RISER DETAIL
P.9.0

consultants:



prepared by:
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Rannie Daffon
C. JASON MABRY

date drawn:
8.03.07



scale: NTS

P.9.0

PLUMBING RISER DIAGRAM AND DETAILS