

National Mall Site Plan: Not to Scale

LTU	MTL	PSU	GT	COLO	UMR	UMD	UT	UPR	SCU
DECATHLETE WAY									
NYIT	UIUC	MIT	CMU	TUD	KSU	CORNELL UNIVERSITY	CINCY	TAMU	UPM

Team Mission Statement & Design Objective

We are an interdisciplinary team committed to educating our peers and the public through the design and construction of an economically and environmentally scalable solar home.

A separate steel solar canopy creates advantages for both residents and the residential solar energy market by providing a flexible framework onto which solar collecting components may be installed, updated, and interchanged without damaging the building envelope. In addition, the separation of canopy from roof allows for a series of dynamic spaces in which the resident may apply devices for shading and landscaping. The canopy thus becomes a structure for not only housing solar collecting components, but also for defining outdoor space. This begins to establish a new understanding of sustainable architecture. We acknowledge the fact that solar technologies will continue to improve in the coming years; rather than design a house that can only respond to the present, we have designed a system onto which solar technologies may be installed, upgraded, and replaced without serious consequences to the home.

Cornell University Solar Decathlon

909 Mitchell Street

Ithaca, New York 14850

(607) 277 - 7475

Project: 2007 Solar Decathlon

File Name: GI-001.dwg

Drawn By: SFR

Reviewed By: DEB

Seal:

Issue:

06/13/06 - DD Submission

07/28/06 - CD Submission

03/06/07 - CD Submission II

08/07/07 - Final Submission

12/09/08 - As Built Submission

GI-001

COVER SHEET

DRAWING #	DRAWING TITLE	SCALE	DRAWING #	DRAWING TITLE	SCALE
	GENERAL INFORMATION		LP-504	GREEN SCREEN	3/4" = 1'-0"
GI-001	COVER SHEET	NOT TO SCALE	LP-504.1	GREEN SCREEN DETAILS	1" = 4"
GI-002	TABLE OF CONTENTS	NOT TO SCALE	LP-505	SCHEDULE	NTS
GI-003	ABBREVIATIONS	NOT TO SCALE		STRUCTURAL SITE - CANOPY	
GI-004	SYMBOLS	NOT TO SCALE	SS-500	STRUCTURAL SITE - CANOPY DETAILS	VARIES
GI-005	GENERAL NOTES	NOT ISSUED	SS-501	STRUCTURAL SITE - CANOPY DETAILS	1" = 1'
GI-006	DESIGN CRITERIA SUMMARY	NOT TO SCALE	SS-502	STRUCTURAL SITE - CANOPY DETAILS	2" = 1'
GI-600	SOLAR ENVELOPE PLAN DIAGRAM	1/8" = 1'-0"		STRUCTURAL SUBSTRUCTURE	
GI-600.1	SOLAR ENVELOPE ELEVATION DIAGRAM	1/8" = 1'-0"	SB-100	STRUCTURAL SUBSTRUCTURE PLAN	1/4" = 1'-0"
GI-601	FOOTPRINT AREA DIAGRAM	1/4" = 1'-0"	SB-101	SOIL BEARING CAPACITY	1/8" = 1'-0"
GI-601.1	CONDITIONED AREA DIAGRAM	1/4" = 1'-0"	SB-500	STRUCTURAL SUBSTRUCTURE DETAILS	1-1/2" = 1'-0"
GI-602	ACCESSIBLE ROUTE DIAGRAM	1/8" = 1'-0"	SB-501	STRUCTURAL SUBSTRUCTURE DETAILS	1-1/2" = 1'-0"
	ARCHITECTURAL SITE		SB-600	STRUCTURAL SUBSTRUCTURE AXONOMETRIC	1/4" = 1'-0"
AS-100	ARCHITECTURAL SITE PLAN	1/8" = 1'-0"	SB-601	SIP FLOOR AXONOMETRIC	1/4" = 1'-0"
	ARCHITECTURAL ELEMENTS		SB-602	FLOOR FRAMING AXONOMETRIC	1/4" = 1'-0"
AE-100	FLOOR PLAN	1/4" = 1'-0"	SB-603	WALL FRAMING AXONOMETRIC	3/16" = 1'-0"
AE-101	PLENUM FLOOR PLAN	1/4" = 1'-0"	SB-604	SIP WALL AXONOMETRIC	3/16" = 1'-0"
AE-102	ROOF PLAN	1/4" = 1'-0"	SB-605	COMPLETE AXONOMETRICS	3/16" = 1'-0"
AE-103	PV PLAN	1/4" = 1'-0"		STRUCTURAL FRAMING	
AE-104	STEEL PLANK PLAN	1/8" = 1'-0"	SF-100	FLOOR FRAMING PLAN	1/4" = 1'-0"
AE-104.1	DECK PLAN	1/8" = 1'-0"	SF-101	SIP FLOOR FRAMING	1/4" = 1'-0"
AE-200	NORTH ELEVATION	1/4" = 1'-0"	SF-102	SIP WALL FRAMING PLAN	1/4" = 1'-0"
AE-200.1	NORTH ELEVATION WITH CANOPY	1/4" = 1'-0"	SF-103	SIP CEILING LAYOUT	1/4" = 1'-0"
AE-201	EAST ELEVATION	1/4" = 1'-0"		PLUMBING PIPING	
AE-201.1	EAST ELEVATION WITH CANOPY ACCESSORIES	1/4" = 1'-0"	PP-100	DOMESTIC PLUMBING SCHEMATIC	NTS
AE-202	SOUTH ELEVATION	1/4" = 1'-0"	PP-101	DOMESTIC PLUMBING PLAN	1/4" = 1'-0"
AE-202.1	SOUTH ELEVATION WITH CANOPY	1/4" = 1'-0"		MECHANICAL HVAC	
AE-203	WEST ELEVATION	1/4" = 1'-0"	MH-100	MECHANICAL VENTILATION SCHEMATIC	NTS
AE-203.1	WEST ELEVATION WITH CANOPY	1/4" = 1'-0"	MH-101	MECHANICAL SOLAR THERMAL SCHEMATIC	NTS
AE-300	EAST-WEST SECTION	1/4" = 1'-0"	MH-102	MECHANICAL VENTILATION PLAN	1/4" = 1'-0"
AE-301	NORTH-SOUTH SECTION	1/4" = 1'-0"	MH-103	MECHANICAL SOLAR THERMAL PLAN	1/4" = 1'-0"
AE-302	NORTH-SOUTH SECTION	1/4" = 1'-0"	MH-104	MECHANICAL CLOSET PLAN	1/2" = 1'-0"
AE-303	NORTH-SOUTH SECTION	1/4" = 1'-0"	MH-200	MECHANICAL CLOSET ELEVATION	1/2" = 1'-0"
AE-500	ARCHITECTURAL DETAILS	1-1/2" = 1'-0"		ELECTRICAL POWER	
AE-501	ARCHITECTURAL DETAILS	1-1/2" = 1'-0"	EP-100	ELECTRICAL POWER SCHEMATIC WIRING	NTS
AE-502	ARCHITECTURAL DETAILS	1-1/2" = 1'-0"	EP-101	ELECTRICAL POWER ONE LINE WIRING PLAN	NTS
AE-503	ARCHITECTURAL WINDOW DETAILS	1-1/2" = 1'-0"	EP-102	ELECTRICAL POWER THREE LINE WIRING PLAN	NTS
AE-504	ARCHITECTURAL WINDOW DETAILS	1-1/2" = 1'-0"	EP-103	BATTERY BOX PLAN	3/4" = 1'-0"
AE-505	ARCHITECTURAL DOOR DETAILS	1-1/2" = 1'-0"	EP-300	PV LAYOUT SECTION	1/4" = 1'-0"
AE-506	ARCHITECTURAL NANAWALL DETAILS	1" = 2"		INTERIOR ELECTRICAL WIRING	
AE-507	ARCHITECTURAL NANAWALL DETAILS	1" = 2"	EW-100	OUTLET WIRING SCHEMTIC	NTS
AE-508	ARCHITECTURAL NANAWALL DETAILS	1" = 2"	EW-101	CIRCUIT WIRING PLAN	1/4" = 1'-0"
	ARCHITECTURAL INTERIORS			CONTROLS NETWORK	
AI-101	REFLECTED CEILING PLAN	1/4" = 1'-0"	CN-100	MECHANICAL CLOSET CONTROLS SCHEMTIC	NTS
AI-200	INTERIOR ELEVATIONS	1/4" = 1'-0"	CN-101	CONTROLS NETWORK PLAN	1/4" = 1'-0"
AI-201	INTERIOR ELEVATIONS	1/4" = 1'-0"			
AI-202	KITCHEN DETAILS	1/2" = 1'-0"			
	ARCHITECTURAL FINISHES				
AF-100	FINISH PLAN W/ DOORS & WINDOWS	1/4" = 1'-0"			
	LANDSCAPE PLANTING				
LP-100	LANDSCAPE PLANTING TRAY PLAN	1/8" = 1'-0"			
LP-101	LANDSCAPE PLANTING PLAN	1/8" = 1'-0"			
LP-102	LANDSCAPE SCAFFOLD PLAN	1/8" = 1'-0"			
LP-500	SCAFFOLD ELEVATIONS	1/4" = 1'-0"			
LP-501	RAMP ELEVATIONS	1/4" = 1'-0"			
LP-502	WETLAND	1/2" = 1'-0"			
LP-503	SCREE GARDEN	1/2" = 1'-0"			

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08/07/07 - Final Submission

12/09/08 - As Built Submission

GI-002

TABLE OF CONTENTS

ABBREVIATIONS

AAD	Automatic Air Damper	CIRC	Circumference	EOD	Edge of Deck	INCL	Include (d) (ing)	P	Paint	SS	Stainless Steel
AB	Anchor Bolt	CJ	Control Joint	EQ	Equal, Equivalent	INS	Insulate (d) (ion)	PAR	Parallel	SST	Structural Steel Tubing
AC	Alternating Current	CK	Cork	EQUIP	Equipment	INT	Interior	PART	Partition	ST	Storage
ACU	Air Conditioning Unit	CL	Center Line	ES	Exposed Surface	INV	Inverter (charge)	PERF	Perforate (d) (ion)	STA	Station
AD	Area Drain	CLG	Ceiling	EW	Each Way			PERI	Perimeter	STC	Shower Temperature
ADA	American Disabilities Act	CLKG	Caulking	EWI	Entering Water Temperature	JB	Junction Box	PERP	Perpendicular		Controller
ADD	Addendum	CLR	Clear (ing)	EXH	Exhaust	JCT	Junction	PL	Plate	STD	Standard
ADDL	Additional	CMP	Corrugated Metal Panel	EXG	Existing	JT	Joint	PLAM	Plastic Laminate	STG	Seating
ADH	Adhesive	CO	Clean Out	EXP	Expansion	KW	Kilowatt	PLAS	Plaster, Plastic	STL	Steel
ADJ	Adjacent	COL	Column	EXT	Exterior, External	KWH	Kilowatt Per Hour	PLF	Pounds Per Linear Foot	STN	Stain (ed)
ADR	Access Door	COMB	Combination					PLY	Plywood	STOR	Storage
AESS	Arch. Exposed Structural Steel	COMP	Compress (ed) (ion) (ible)	F	Fahrenheit			PNL	Panel	STRU	Structural
AFF	Above Finish Floor	CONC	Concrete	FA	Fire Alarm	L	Length, Long	POC	Point of Connection	SURF	Surface
AHU	Air Handling Unit	COND	Condensate	FAI	Fresh Air Intake	LAM	Laminate (d)	POS	Positive	SUSP	Suspended
AIB	Air Infiltration Barrier	CONN	Connection	FCU	Fan Cooling Unit	LAT	Leaving Air Temperature	POT	Point of Tangency	SV	Sheet Vinyl
ALT	Alternate	CONST	Construction	FD	Floor Drain, Fire Damper	LAV	Lavatory	PR	Pair	SW	Switch
ALTN	Alteration	CONT	Continuous	FE	Fire Extinguisher	LAV	Lavatory	PREP	Prepare (ation)	SYM	Symmetrical
ALUM	Aluminum	CONTR	Contract (or)	FF	Finish Floor	LB	Pound	PRF	Preformed	SYN	Synthetic
ANOD	Anodized	COORD	Coordinate	FFE	Finish Floor Elevation	LBL	Label	PROJ	Project	SYS	System
AP	Access Panel	CORR	Corrugated	FFL	Finish Floor Line	LDR	Leader	PSF	Pounds Per Square Foot		
APPROX	Approximate (ly)	COWP	Clean Out Wall Plate	FG	Floor Grille	LEV	Level	PSI	Pounds Per Square Inch	T	Tread, Top, Tile
ARCH	Architect (ural)	CR	Ceiling Register	FIN	Finish (ed)	PT	Point	PT	Point	TB	Top and Bottom
A/S	Air Separator	CSK	Countersink	FIXT	Fixture	PTD	Painted	PTD	Pressure Treated Preservative	TBD	To Be Determined
AUTO	Automatic	CSMT	Casement	FL	Flush	PTP	Pressure Treated Preservative	PV	Photovoltaic Cell	TC	Temperature Control
AVG	Average	CT	Computer Terminal	FLD	Floor Duct	PF	Power Wall Exhauster	PWE	Power Wall Exhauster	TEL	Telephone
		CTD	Coated	FLEX	Flexible	LIN	Linear			TEMP	Temperature
BAT	Battery Cell	CTOP	Counter Top	FLG	Flashing	LL	Live Load	RA	Return Air	TG	Tongue and Groove
BD	Board	CTR	Center	FLR	Floor (ing)	LM	Landscape Module	RAF	Return Air Fan	THK	Thickness
BDD	Backdraft Damper	CU	Cubic	FLUOR	Fluorescent	LP	Low Pressure	RCU	Remote Condensing Unit	THR	Threshold
BFP	Back Flow Preventer	CW	Cold Water	FM	Floor Mounted	LPS	Low Pressure Steam	RD	Roof Drain	TMV	Thermostatic Mixing Valve
BG	Bottom Grille	CWR	Chilled Water Return	FMC	Flexible Metal Conduit	LPT	Low Point	RECEPT	Receptacle	TOD	Top of Duct
BIT	Bituminous	CWS	Chilled Water Supply	FND	Foundation	LS	Linoleum Sheet	REF	Reference	TOF	Top of Fascia
BLDG	Building			FOB	Flat on Bottom	LT	Light, Linoleum Tile	REFL	Reflect (ed) (ive) (or)	TOL	Tolerance
BLK	Block			FOT	Flat on Top	LV	Low Voltage	REFR	Refrigerator	TOP	Top of Pipe
BLKG	Blocking	DB	Dry Bulb	FP	Fireproof (ing)	LVR	Louver	REG	Register	TOS	Top of Steel
BM	Beam	DC	Direct Current	FPM	Feet Per Minute	LWT	Leaving Water Temperature	REINF	Reinforce (d) (ing)	TR	Top Register
BO	By Others	DDC	Direct Digital Control	FR	Frame, Floor Register	MAN	Manual	REQD	Required	TRN	Transom
BOD	Bottom of Duct	DEG	Degrees	FRA	Fresh Air	MAT	Material	RESIL	Resilient	TV	Television
BOF	Bottom of Footing	DEP	Depress (ed) (ion)	FS	Floor Sink	MAU	Make Up Air Unit	RET	Retaining, Return	TW	Top of Wall
BOS	Bottom of Steel	DET	Detail	FSD	Fire and Smoke Damper	MAX	Maximum	REV	Revision, Revised	TYP	Typical
BOT	Bottom	DIA	Diameter	FT	Feet	MBR	Member	RF	Rubber Floor		
BPL	Bearing Plate	DIAG	Diagonal	FTG	Footing	ME	Mechanical Equipment	RFG	Roofing	UC	Undercut
BR	Bottom Register	DIM	Dimension	FV	Flush Valve	MECH	Mechanical	RFH	Roof Hatch	UD	Underdrain
BRDG	Bridging	DIST	Distance			MF	Mixing Faucet	RG	Return Grille	UNF	Unfinished
BRG	Bearing	DIV	Division	GA	Gauge	MFR	Manufacture (r)	RHC	Reheat Coil	UNIF	Uniform
BS	Both Sides, Bottom of Stair	DL	Dead Load	GAL	Gallon	MIN	Minimum	RI	Rough-In	UON	Unless Otherwise Noted
BSPL	Backsplash	DN	Down	GALV	Galvanized	MIR	Mirror	RL	Rain Leader	UV	Unit Ventilator
BT	Bent	DO	Ditto	GASK	Gasket (ed)	MISC	Miscellaneous	RLG	Rail (ing)		
BTU	British Thermal Units	DP	Dampproof (ing)	GCO	Grade Cleanout	MOD	Module, Model	RM	Room	V	Volt
BTUH	British Thermal Units Per Hour	DPR	Damper	GF	Ground Face	MT	Mount	RMC	Rigid Metal Conduit	VAR	Varies, Variable
BUR	Built-Up Roofing	DR	Door	GL	Glass, Glazing	MTD	Mounted	RNC	Rigid Nonmetallic Conduit	VARN	Varnish
BW	Bottom of Wall	DWG	Drawing	GND	Ground	MTL	Metal	RNT	Running Trap	VAV	Variable Air Volume
BWC	Back Water Check Valve	DS	Downspout, Drainage Structure	GPM	Gallons Per Minute	MTR	Meter	RO	Receptacle Outlet, Rough Opening	VAB	Vapor Retarder Barrier
C1	Carpet Type 1	DTA	Dovetail Anchor	GR	Grade (ing)	MULL	Mullion	RPM	Revolutions Per Minute	VCT	Vinyl Composite Tile
CA	Compressed Air	DW	Dishwasher	GVL	Gravel			RTH	Roof Top Hood	VD	Volume Damper
CAB	Cabinet	DWR	Drawer	GWB	Gypsum Wall Board			RTU	Roof Top Unit	VERT	Vertical
CATV	Cable Television			GYP	Gypsum			RW	Raw Water	VIF	Verify in Field
CB	Circuit Breaker									VNR	Veneer
CC	Charge Controller	E	East	H	Height			S	South, Supply	VOL	Volume
CCTV	Closed Circuit Television	EA	Exhaust Air	HBD	Hard Board			SA	Supply Air	VTR	Vent Through Roof
CD	Ceiling Diffuser	EAT	Entering Air Temperature	HCR	Hot/Chilled Return	N	North	SAN	Sanitary		
CEM	Cement	EB	Expansion Bolt	HCS	Hot/Chilled Supply	NAT	Natural	SAS	Smooth All Sides	W	West, Width, Watt
CER	Ceramic	EF	Each Face	HD	Heavy Duty	NC	Normally Closed	SC	Solid Core	WB	Wet Bulb
CF	Cubic Feet	EJ	Expansion Joint	HDR	Header	NEG	Negative	SCHED	Schedule	WC	Water Closet
CFM	Cubic Feet Per Minute	ELEC	Electric (al)	HDW	Hardware	NO	Number, Normally Open	SD	Smoke Damper	WD	Wood
CFT	Ceramic Floor Tile	ELEM	Element	HM	Hollow Metal	NOM	Nominal	SEC	Section	WDW	Window
CG	Ceiling Grille	ELEV	Elevation	HORZ	Horizontal	NTS	Not to Scale	SF	Square Feet	WG	Wall Grille
CHAN	Channel	ENC	Enclosure	HP	Heat Pump			SH	Shelf, Shelving	WH	Wall Hung
				HR	Hand Rail			SHR	Shower	WP	Water Proofing, Working Point
				HT	Height			SHT	Sheet		
				HVAC	Heating/Ventilating/Air Conditioning			SHTHG	Sheathing	WS	Water Stop
				HVU	Heating and Ventilating Unit			SIM	Similar	W/	With
				HW	Hot Water			SK	Sink	W/O	Without
				HWH	Hot Water Heater	OA	Overall, Outside Air	SLC	Sillcock		
				HWP	Hot Water Pump	OC	On Center	SLV	Sleeve		
				HWR	Hot Water Return	OD	Outside Diameter	SLVR	Storm Louver		
				HWS	Hot Water Supply	OH	Overhead	SPEC	Specification (s)		
						OPNG	Opening	SPKR	Sprinkler		
						OPP	Opposite	SPL	Special		
								SQ	Square		

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




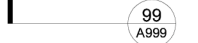
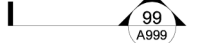





GI-003




















ABBREVIATIONS







Mechanical Legend	
	Air Supply Diffuser
	Return Air Diffuser
	Linear Diffuser
	Pump
	Valve










Material Symbols	
	Aluminum
	Batt Insulation
	Blocking/Continuous
	Blocking/Discontinuous
	Bamboo Planks
	Ceramic Tile
	Concrete Pavers
	Earth/Compact Fill
	Ferrous Metal
	Fire Proofing
	Finish Wood
	Glass
	Grating
	Plastic
	Rigid Insulation
	Steel






Lighting Outlets	
	Wall Incandescent Fixture
	Ceiling Incandescent Fixture
	Recessed Ceiling Incandescent Fixture
	Incandescent Lighting Track
	Blanked Outlet
	Drop Cord
	Junction Box
	Lamp Holder with Pull Switch
	Flood Light
	Individual Fluorescent Fixture
	Flourescent Lighting Strip Fixture
	Surface-Mounted Fluorescent Fixture













Drawing Symbols	
	Door Number
	Room Name/Number
	Window Number
	Revision Number
	Required Point Elevation
	Detail Section Key
	Building Section Key
	Interior Elevation Key
	Wall Section Key
	North Arrow
	Detail Enlargement
	Drawing Title Tag

Heating and Ventilating Symbols	
	Steam
	Blast Thermostatic Trap
	Flow Meter, Venturi
	Strainer, Duplex
	Reducing Pressure Valve
	Air Line Valve
	Lock Shield Valve
	Diaphragm Valve
	Air Eliminator Valve
	Strainer
	Thermometer
	Pressure Gauge and Cock
	Relief Valve
	Automatic Air Vent
	Automatic 3-Way Valve
	Automatic 2-Way Valve
	Solenoid Valve
	Thermostat (Electric)
	Thermostat (Pneumatic)

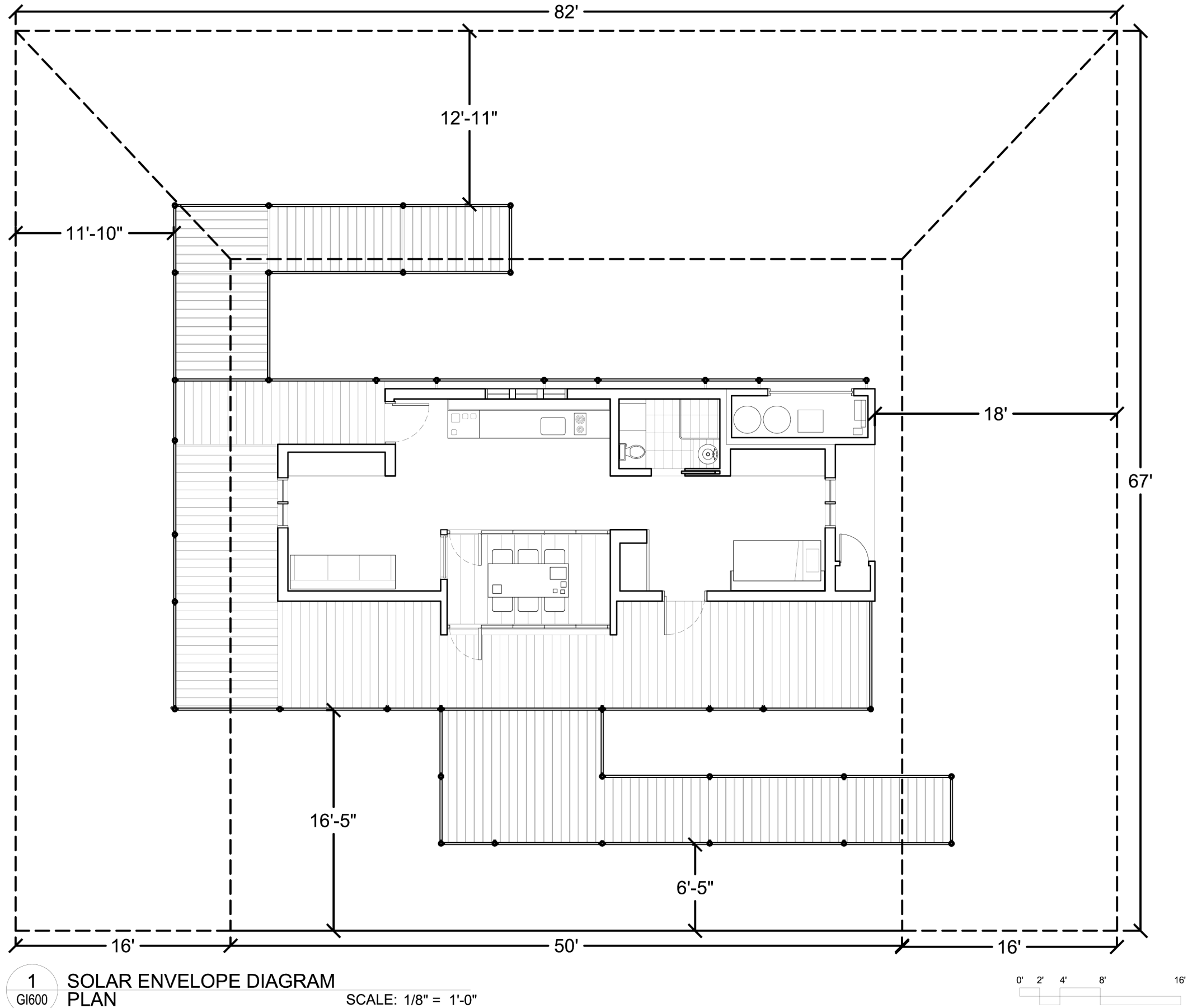
Switch Outlets	
	Single Pole Switch
	Duplex Pole Switch
	Three-Way Switch
	Four-Way Switch
	Weatherproof Switch
	Ceiling Pull Switch

Misc. Electrical Symbols	
	Lighting & Fan / Separate Switching
	Lighting & Fan / Switched Together
	Exhaust Fan
	Underground Stub-Out W.P. Box
	Television Antenna
	Smoke Detector
	Power Panel
	Lighting Panel
	Circuit Breaker

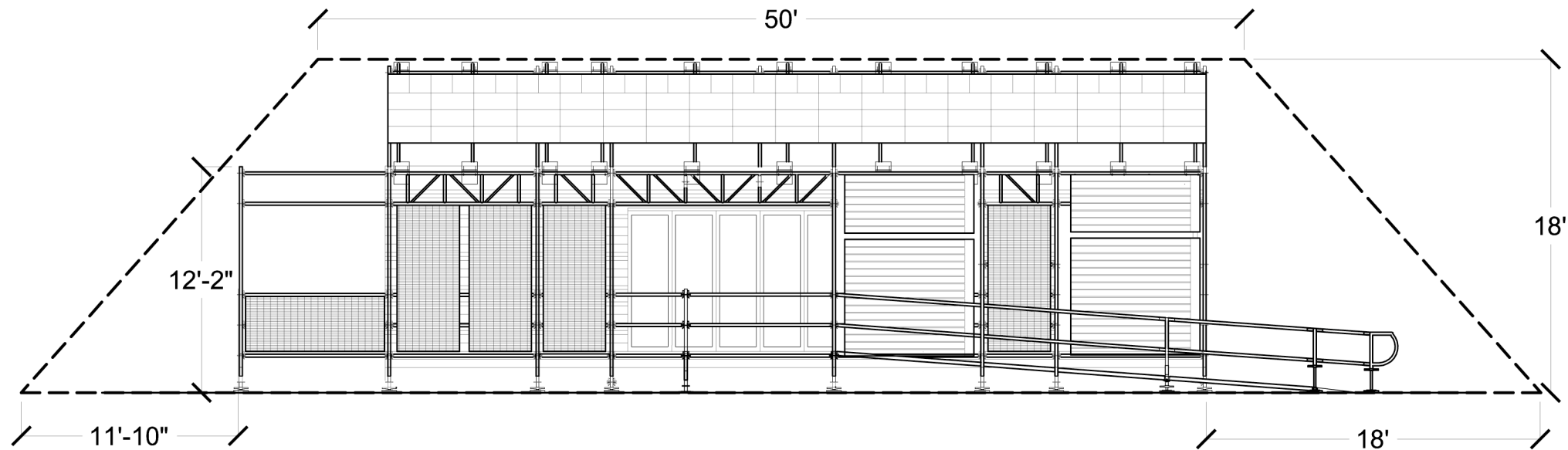
Signaling System Outlets	
	Push Button
	Door Bell
	Computer Data Outlet
	Telephone Outlet
	Cable Television Outlet

Receptacle Outlets	
	Single RO
	Duplex (Convenience) RO
	Triplex RO
	Quadruplex RO
	Convenience RO 1/2 Switch
	Convenience Outlet with Height
	Weatherproof Duplex RO
	Ground Fault Interrupter RO
	220 V Duplex RO
	Special Purpose RO
	Single Floor RO
	Duplex Floor RO

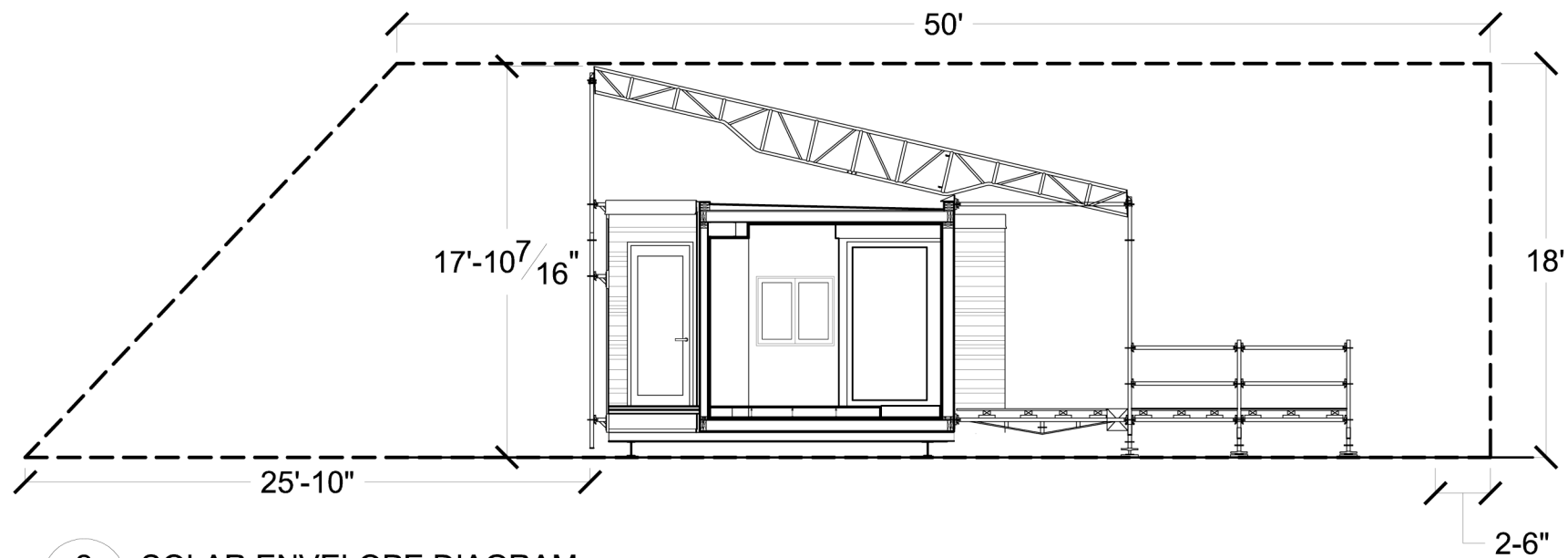
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Seal:		<div> <div>Issue:</div> <div> <div>06/13/06 - DD Submission</div> <div>07/28/06 - CD Submission</div> <div>03/06/07 - CD Submission II</div> <div>08/07/07 - Final Submission</div> <div>12/09/08 - As Built Submission</div> </div> </div>			
GI-004		SYMBOLS			



<div>GI-600</div> <div>SOLAR ENVELOPE DIAGRAM</div>	<div>Issue:</div> <div>06/13/06 - DD Submission</div> <div>07/28/06 - CD Submission</div> <div>03/06/07 - CD Submission II</div> <div>08/07/07 - Final Submission</div> <div>12/09/08 - As Built Submission</div>	Seal:	<div>Cornell University Solar Decathlon</div> <div>909 Mitchell Street</div> <div>Ithaca, New York 14850</div> <div>(607) 277 - 7475</div> <div>Project: 2007 Solar Decathlon</div> <div>File Name: GI-600.dwg</div> <div>Drawn By: SFR</div> <div>Reviewed By: DEB</div>



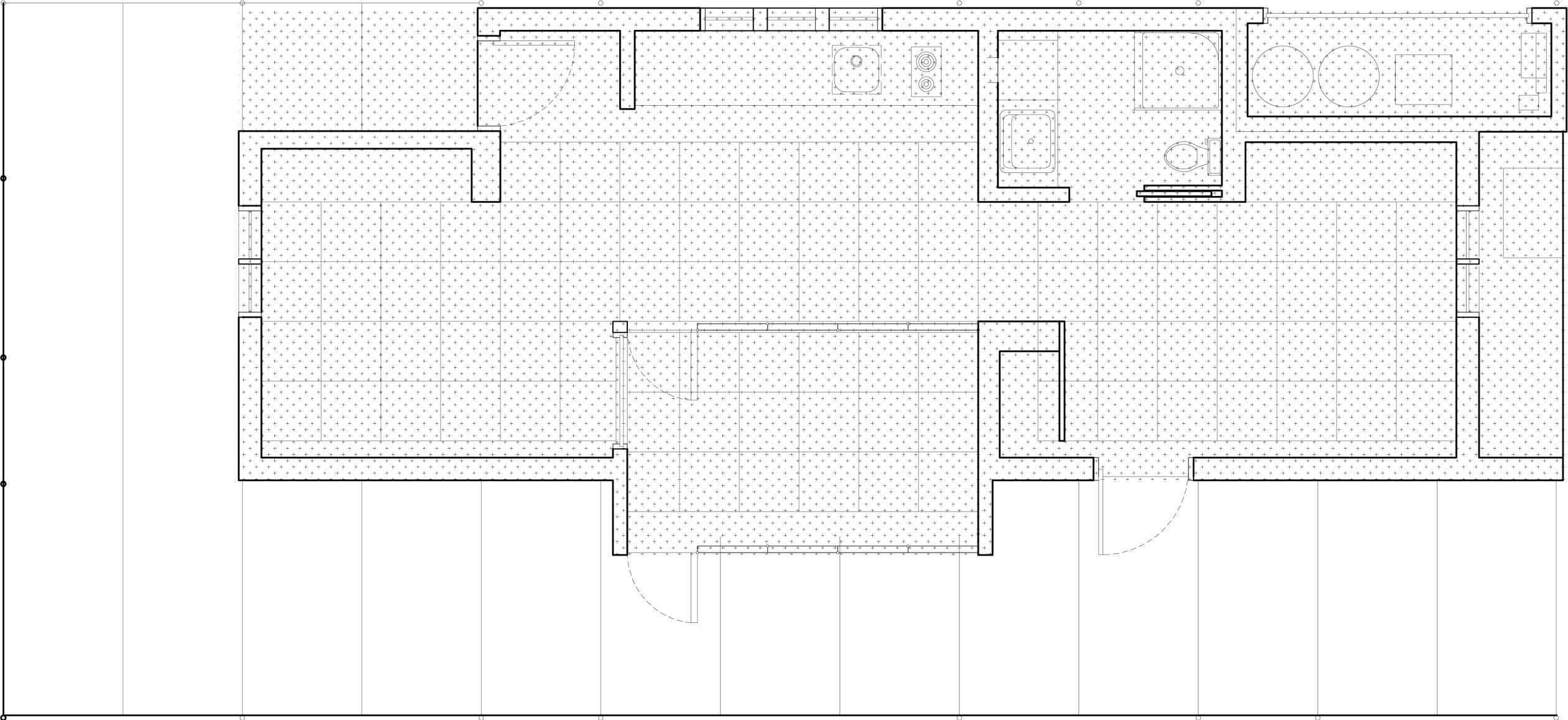
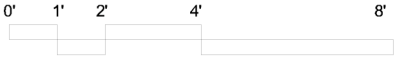
1 SOLAR ENVELOPE DIAGRAM
GI600 SOUTH ELEVATION SCALE: 1/8" = 1'-0"



2 SOLAR ENVELOPE DIAGRAM
GI600 WEST SECTION SCALE: 1/8" = 1'-0"

<div>GI-600.1</div> <div>SOLAR ENVELOPE DIAGRAMS</div>	<div>Issue:</div> <div>06/13/06 - DD Submission</div> <div>07/28/06 - CD Submission</div> <div>03/06/07 - CD Submission II</div> <div>08/07/07 - Final Submission</div> <div>12/09/08 - As Built Submission</div>	Seal:	<div>Cornell University Solar Decathlon</div> <div>909 Mitchell Street</div> <div>Ithaca, New York 14850</div> <div>(607) 277 - 7475</div> <div>Project: 2007 Solar Decathlon</div> <div>File Name: GI-600.dwg</div> <div>Drawn By: SFR</div> <div>Reviewed By: DEB</div>

AREA = 735 SQ FT



GI-601

FOOTPRINT
DIAGRAM

Issue:
06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As-Built Submission

Seal:

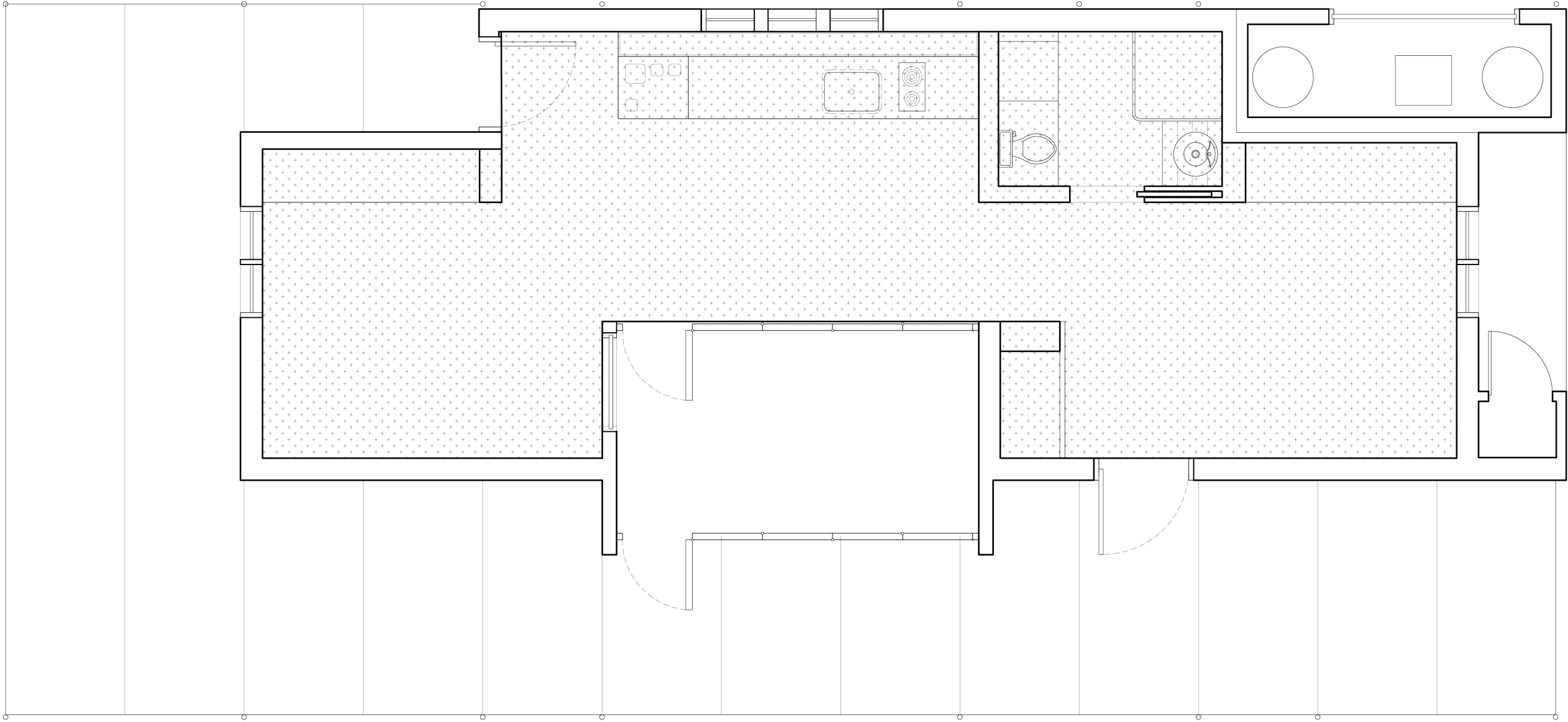
Cornell University Solar Decathlon
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Project: 2007 Solar Decathlon

File Name: GI-601.dwg

Drawn By: SFR

Reviewed By: DEB



AREA = 451 SQ FT

1
GI-601.1

CONDITIONED
AREA DIAGRAM

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



GI-601.1

CONDITIONED
AREA
DIAGRAM

Issue:
06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission

12/09/08 - As Built Submission

Seal:

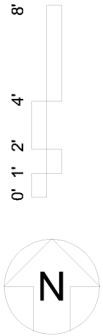
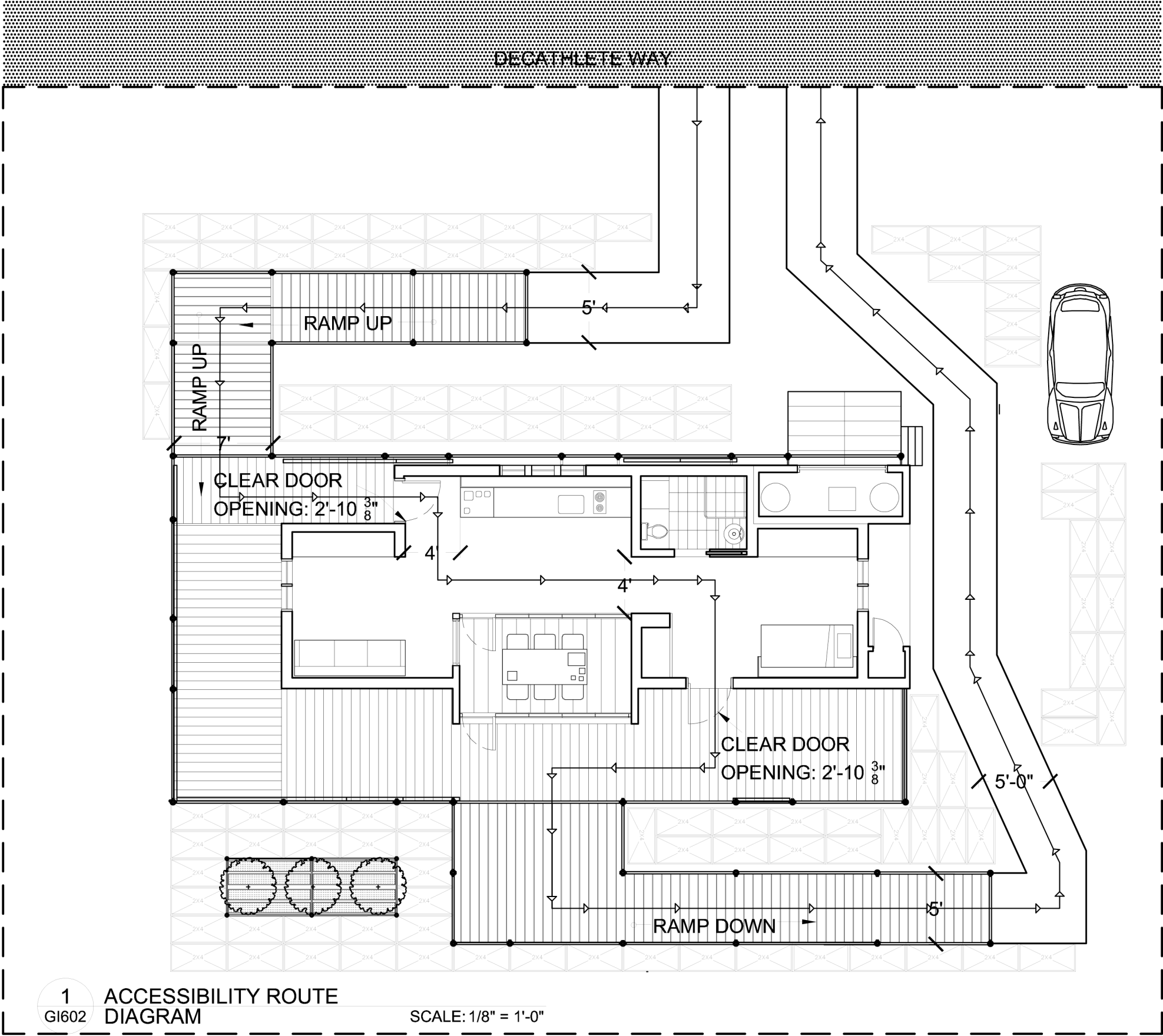
Cornell University Solar Decathlon
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Project: 2007 Solar Decathlon

File Name: GI-601.1dwg

Drawn By: SFR

Reviewed By: DEB



GI-602

**ACCESSIBLE
ROUTE
DIAGRAM**

Seal:

Issue:
06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As-Built Submission

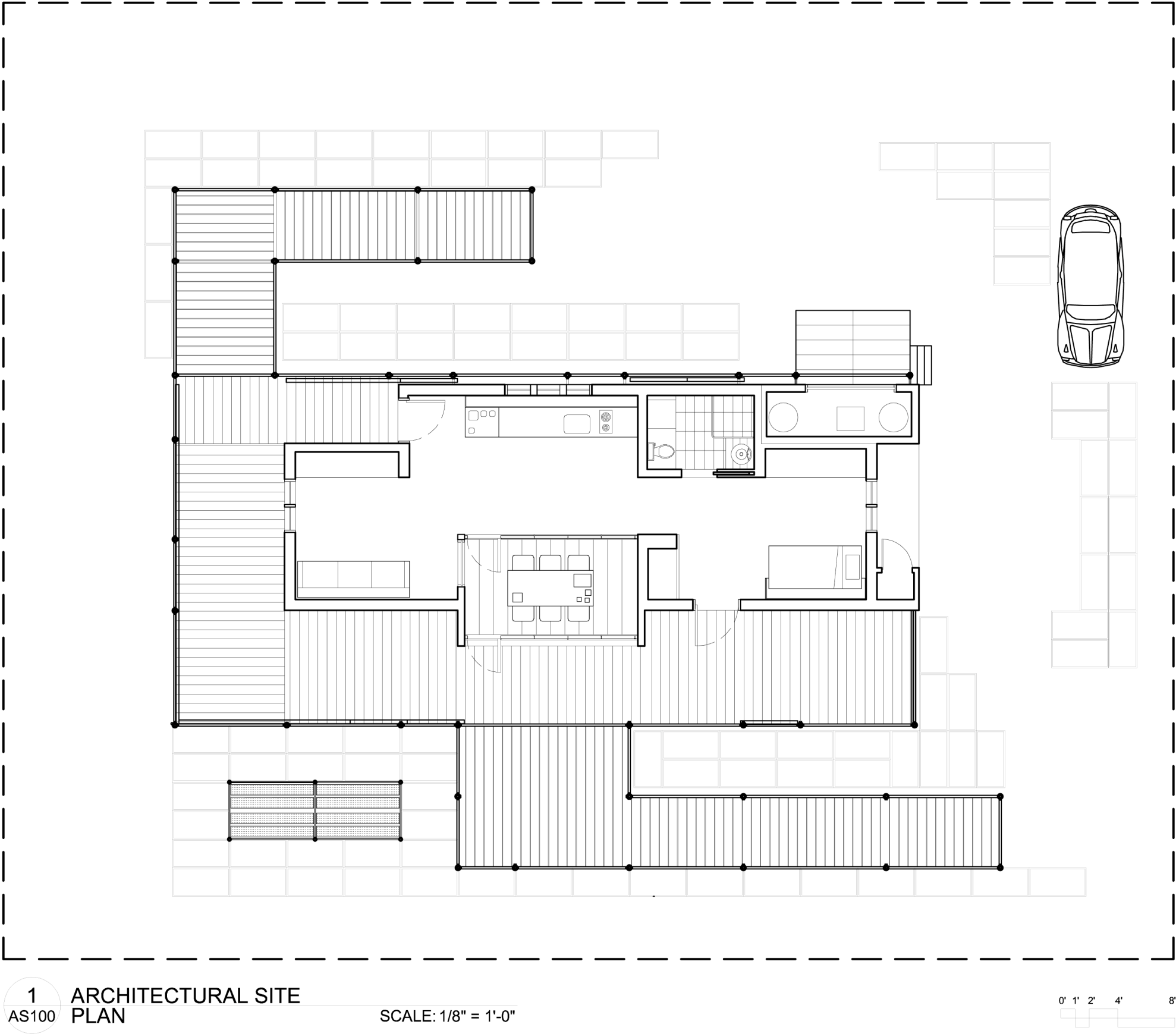
Cornell University Solar Decathlon
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Project: 2007 Solar Decathlon

File Name: GI-602.dwg

Drawn By: JCN

Reviewed By: DEB



1
AS100

ARCHITECTURAL SITE
PLAN

SCALE: 1/8" = 1'-0"



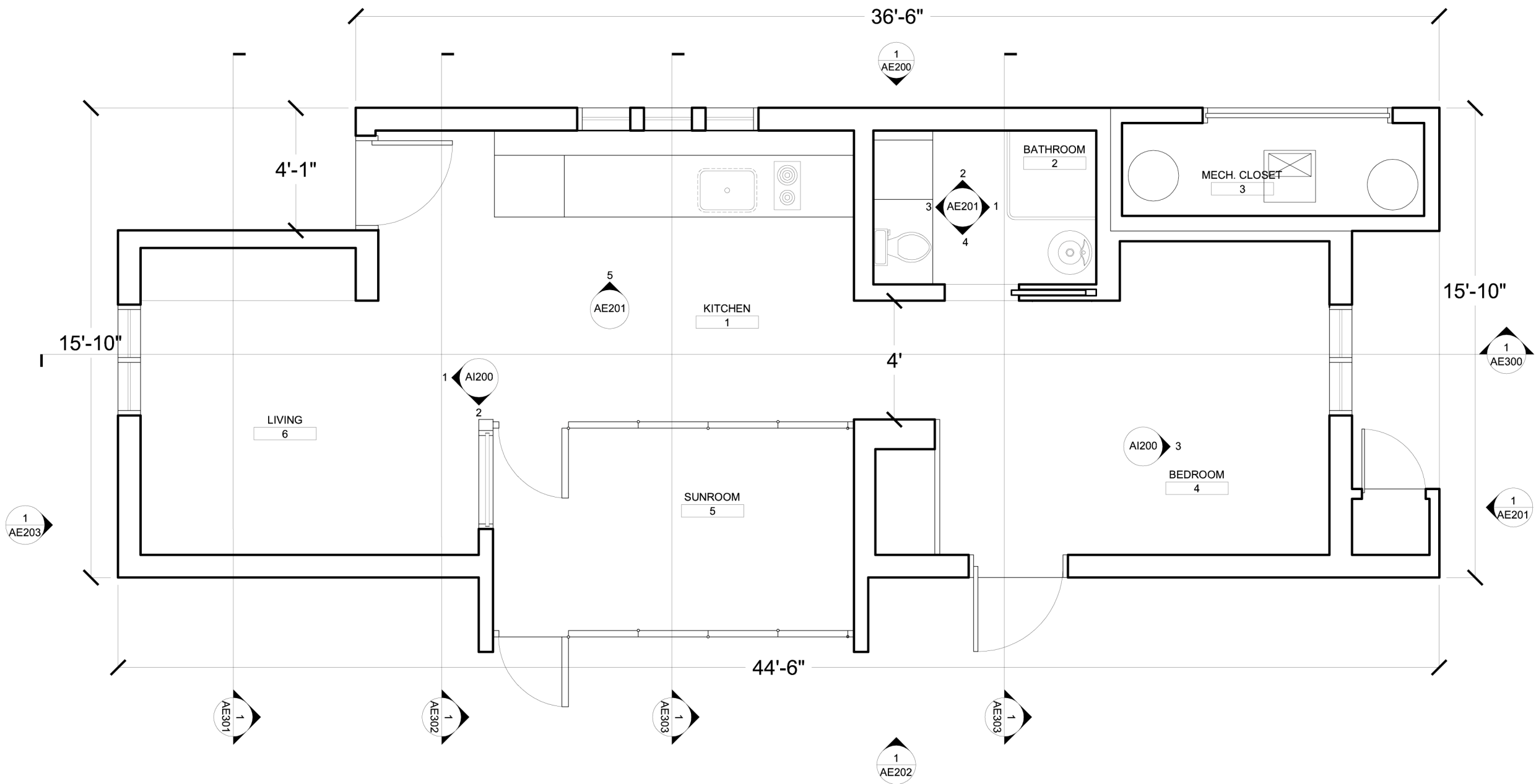
AS-100

ARCHITECTURE
SITE PLAN

Issue:	06/13/06 - DD Submission
	07/28/06 - CD Submission
	03/06/07 - CD Submission II
	08/07/07 - Final Submission
	12/09/08 - As-Built Submission

Seal:

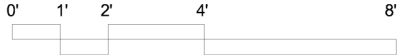
Cornell University Solar Decathlon 909 Mitchell Street Ithaca, New York 14850 (607) 277 - 7475	Project: 2007 Solar Decathlon
	File Name: AS-100.dwg
	Drawn By: JCN
	Reviewed By: DEB



1
AE100

FLOOR
PLAN

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



AE-100

FLOOR
PLAN

Seal:

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As Built Submission

Cornell University Solar Decathlon

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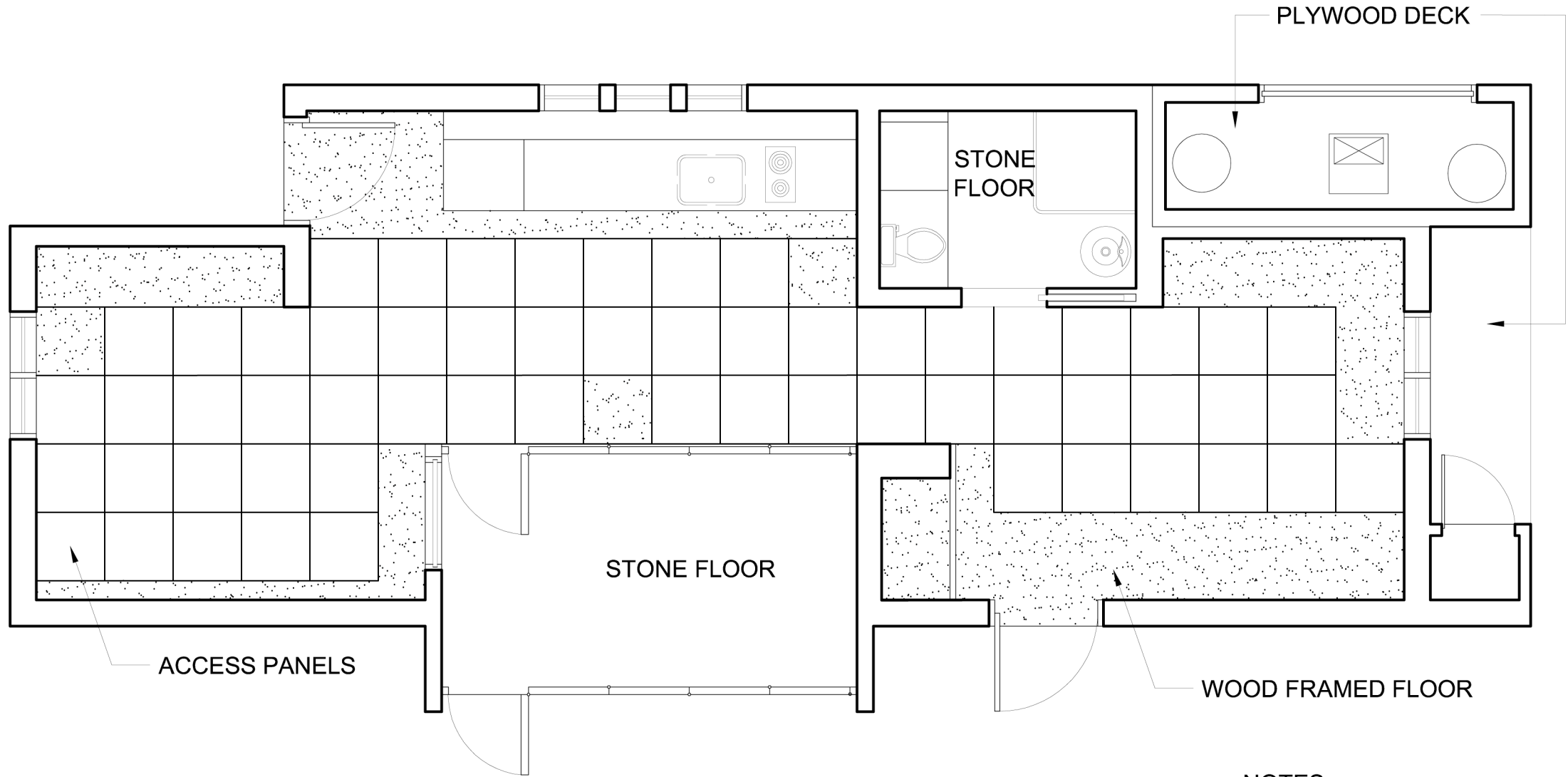
(607) 277 - 7475

Project: 2007 Solar Decathlon

File Name: GI-001.dwg

Drawn By: ARA

Reviewed By: SFR



NOTES:
*WOOD FRAMING LOCATED
WHERE DUCT REGISTERS
PUNCTURE THE FLOOR.

1
AE101

**PLENUM
FLOOR PLAN**

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

AE-101

**PLENUM
FLOOR
PLAN**

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As Built Submission

Seal:

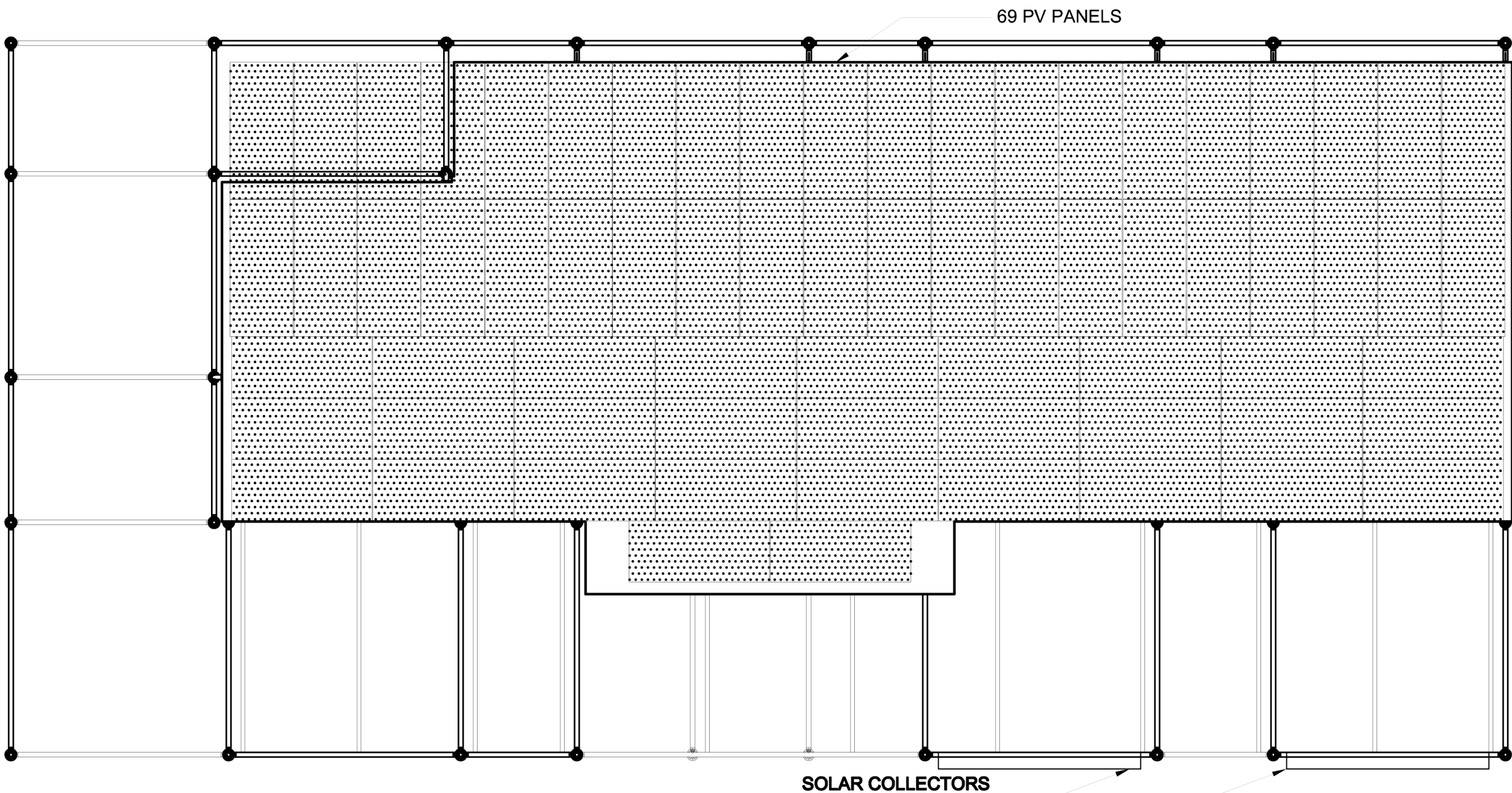
Cornell University Solar Decathlon
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Project: 2007 Solar Decathlon

File Name: GI-001.dwg

Drawn By: ARA

Reviewed By: SFR



HOUSE AREA CALCULATION						
Location	Number	Length	width	area	sq ft	total sq ft
House	1	533	190	101270	703.2639	703.2639
Bump	1	30	152.5	4575	31.77083	31.77083
Canopy measurements						
horizontal	3	90	2	180	1.25	3.75
vertical	15	96	2	192	1.333333	20
bump vertical	5	66	2	132	0.916667	4.583333

Location	Number	Length	width	area	sq ft	total sq ft
Canopy measurements continued						
longest horizontal	2	624	2	1248	8.666667	17.33333
longest vertical	1	294	2	588	4.083333	4.083333
longer vertical	1	198	2	396	2.75	2.75
short vertical	7	7	2	14	0.097222	0.680556
collectors	2	7	83.7	585.9	4.06875	8.1375
TOTAL SQUARE FOOTAGE						796.3528

1
AE105

PV PLAN
PLAN

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

0' 1' 2' 4' 8'



AE-103

PV PLAN

Seal:

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As-Built Submission

Cornell University Solar Decathlon

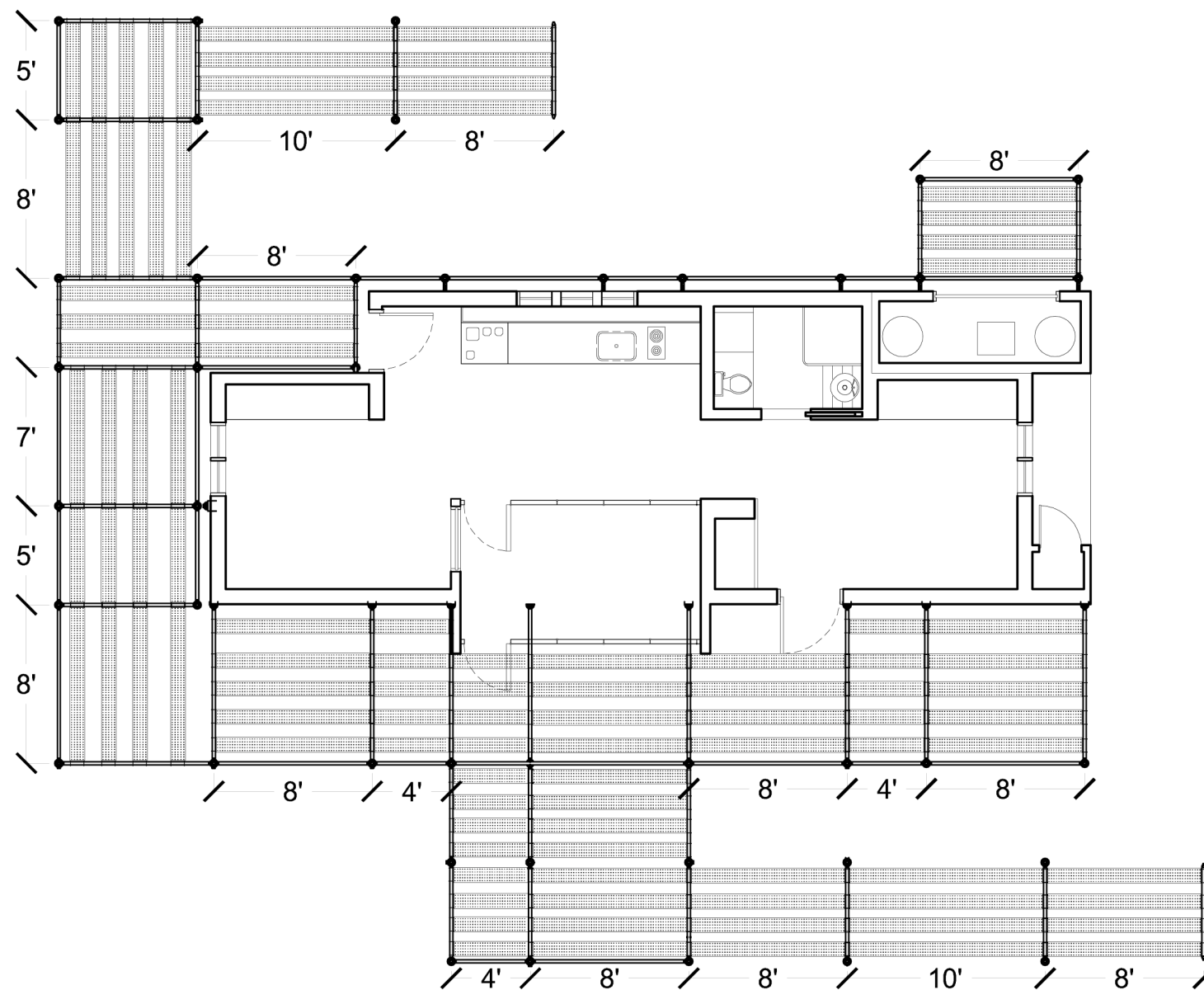
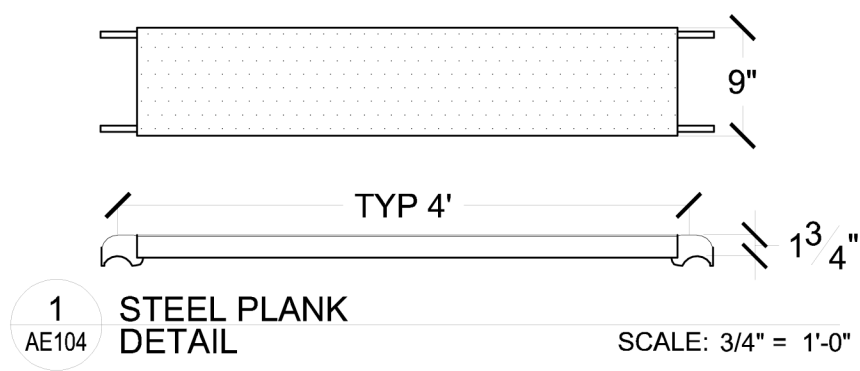
909 Mitchell Street
Ithaca, New York 14850
(607) 277 - 7475

Project: 2007 Solar Decathlon

File Name: AE-103.dwg

Drawn By: JCN

Reviewed By: NBR



NOTE: ALL RAMPS
SLOPED
AT 1:13 (7.7%)

0' 1' 2' 4' 8'



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Project: 2007 Solar Decathlon

File Name: AE-104.dwg

Drawn By: JCN

Reviewed By: NBR

Seal:

Issue:

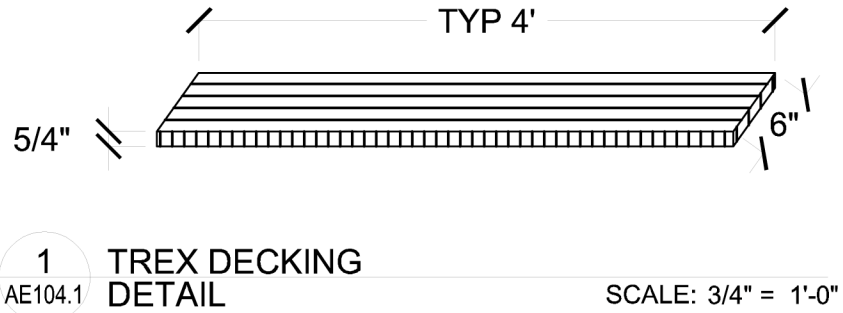
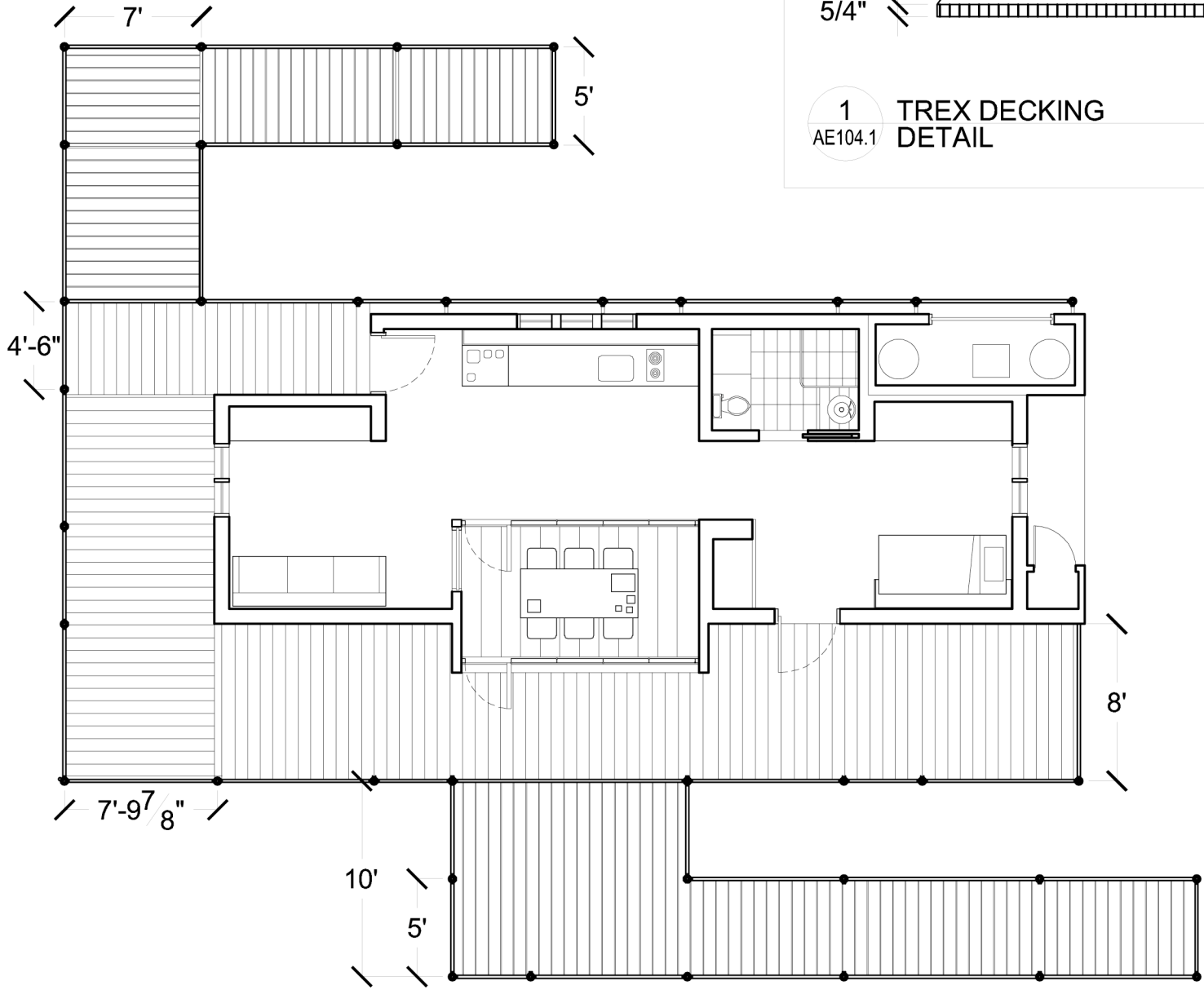
06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As-Built Submission

AE-104

STEEL
PLANK PLAN

1 WOOD
AE104.1 DECK PLAN

SCALE: 1/8" = 1'-0"



AE-104.1

DECK PLAN

Issue:
06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As-Built Submission

Seal:

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Project: 2007 Solar Decathlon

File Name: AE-104.1dwg

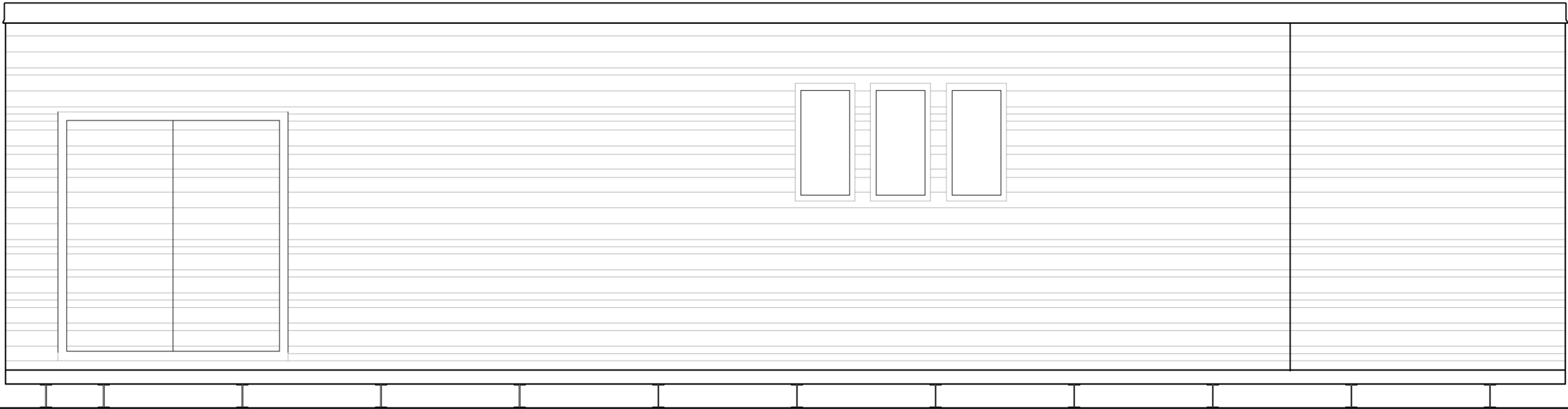
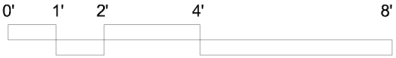
Drawn By: JCN

Reviewed By: NBR

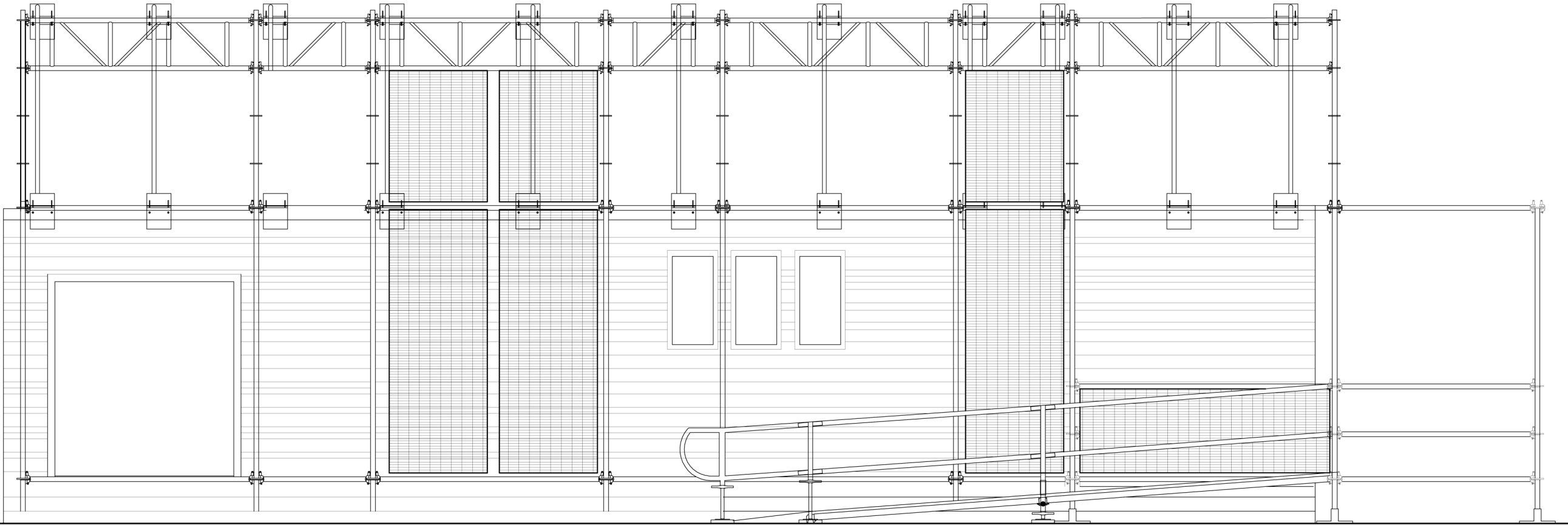
1
AE200

NORTH ELEVATION

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



AE-200	NORTH ELEVATION OF HOUSE	Issue: 06/13/06 - DD Submission 07/28/06 - CD Submission 03/06/07 - CD Submission II 08/07/07 - Final Submission 12/09/08 - As Built Submission	Seal:	Cornell University Solar Decathlon 909 Mitchell Street Ithaca, New York 14850 (607) 277 - 7475	
				Project: 2007 Solar Decathlon	
				File Name: AE-200.dwg	
				Drawn By: SFR	
				Reviewed By: DEB	



1
AE200.1

NORTH
ELEVATION

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

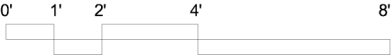
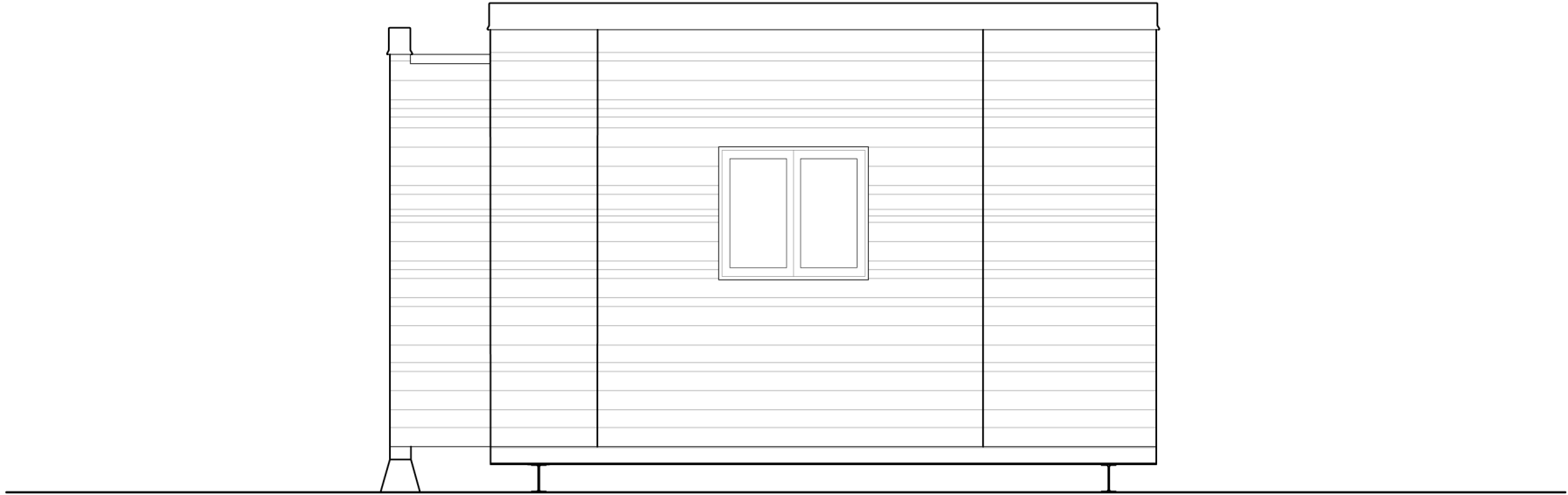


AE-200.1	Issue:	Seal:	Cornell University Solar Decathlon 909 Mitchell Street Ithaca, New York 14850 (607) 277 - 7475		
NORTH ELEVATION W/ CANOPY	06/13/06 - DD Submission	Project: 2007 Solar Decathlon			
	07/28/06 - CD Submission		File Name: AE-200.1.dwg		
	03/06/07 - CD Submission II			Drawn By: SFR	
	08/07/07 - Final Submission				Reviewed By: DEB
	12/09/08 - As Built Submission				

A1
AE201

EAST ELEVATION

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



AE-201

EAST
ELEVATION

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As Built Submission

Seal:

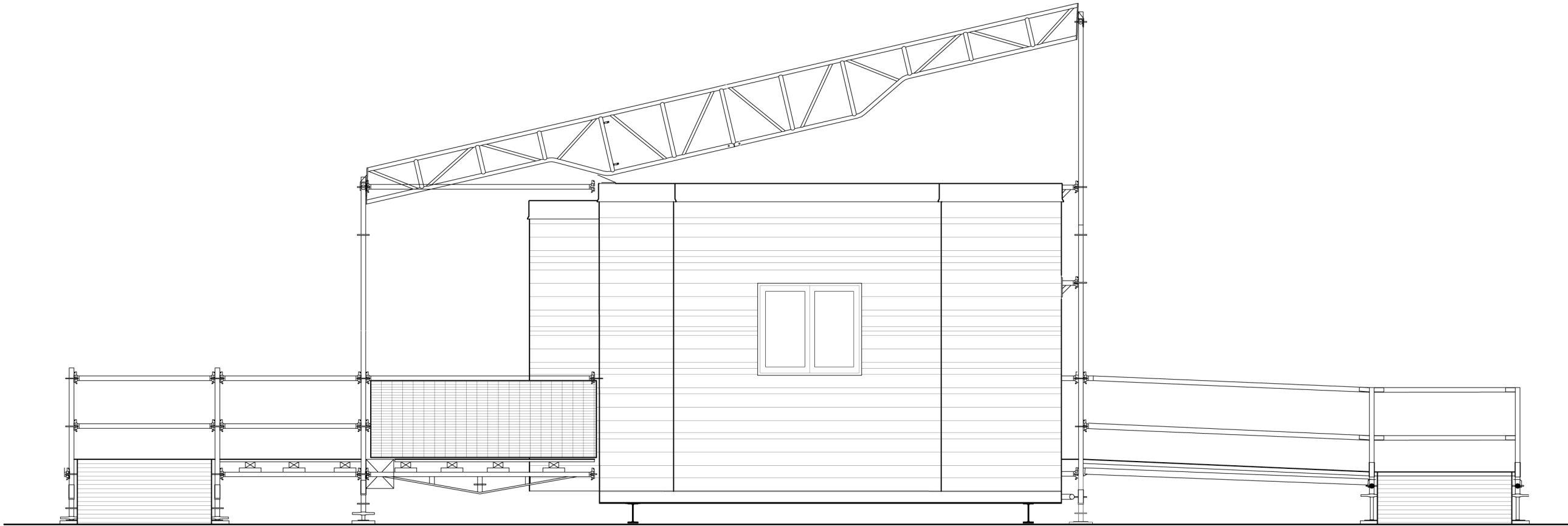
Cornell University Solar Decathlon
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Project: 2007 Solar Decathlon

File Name: AE-201.dwg

Drawn By: SFR

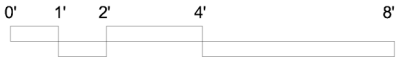
Reviewed By: DEB



A1
AE201.1

EAST ELEVATION WITH CANOPY

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



AE-201.1

EAST
ELEVATION
W/ CANOPY

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As Built Submission

Seal:

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Project: 2007 Solar Decathlon

File Name: AE-201.1.dwg

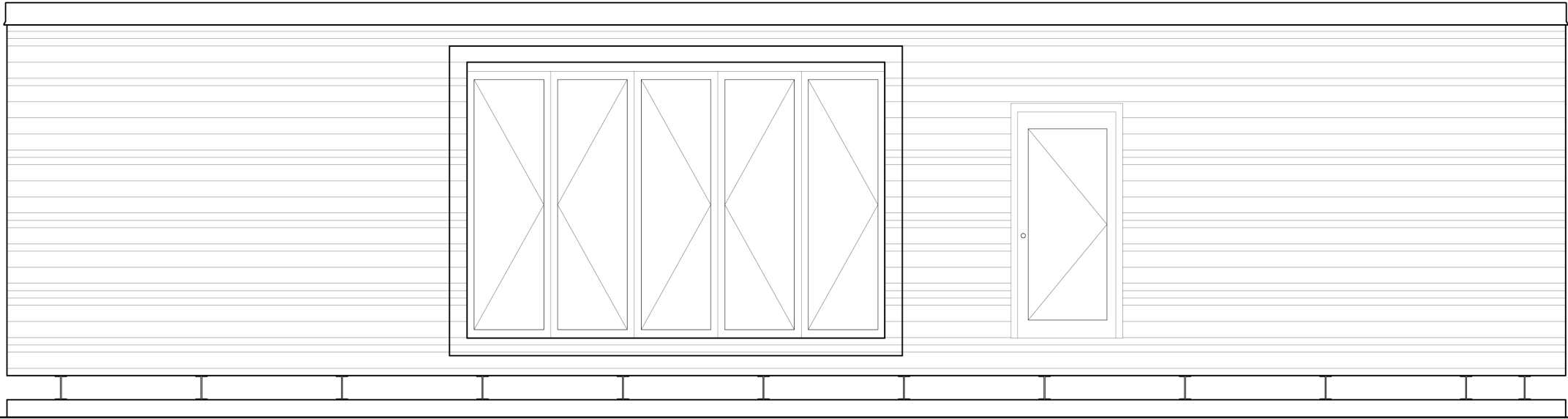
Drawn By: SFR

Reviewed By: DEB

A1
AE202

SOUTH ELEVATION

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



AE-202

SOUTH
ELEVATION

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As Built Submission

Seal:

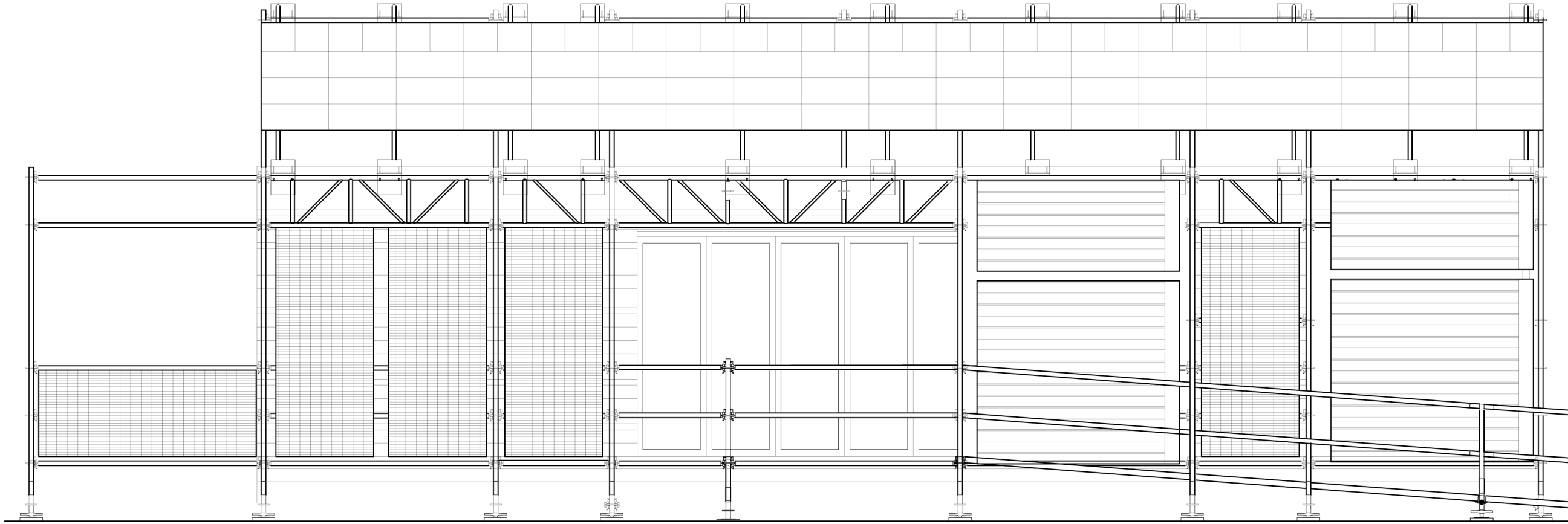
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(607) 277 - 7475

Project: 2007 Solar Decathlon

File Name: AE-202.dwg

Drawn By: SFR/ARA

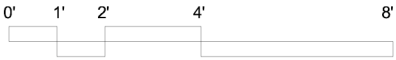
Reviewed By: DEB



A1
AE202.1

SOUTH ELEVATION WITH CANOPY

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



AE-202.1

SOUTH
ELEVATION
W/ CANOPY

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As Built Submission

Seal:

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Project: 2007 Solar Decathlon

File Name: AE-202.1.dwg

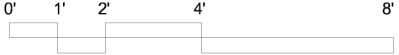
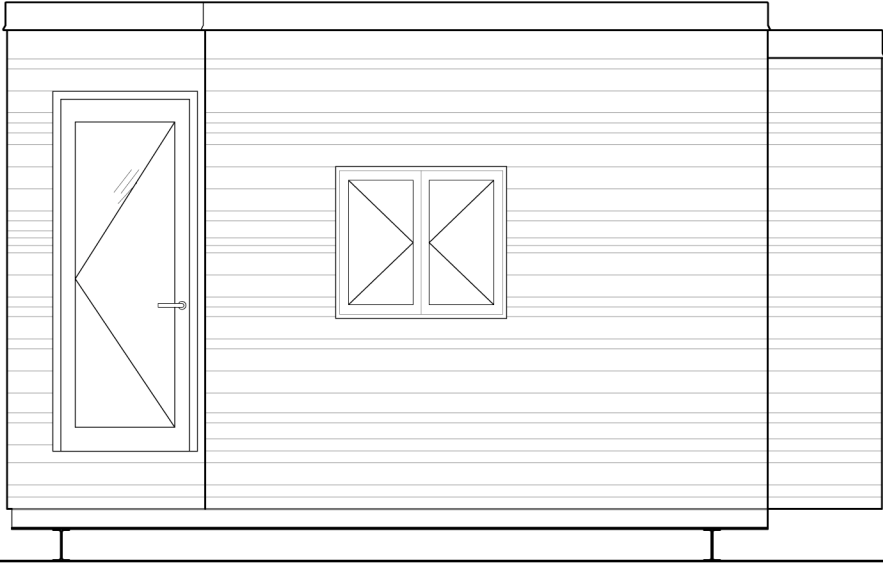
Drawn By: SFR

Reviewed By: DEB

A1
AE203

WEST ELEVATION

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



AE-203

WEST
ELEVATION

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As Built Submission

Seal:

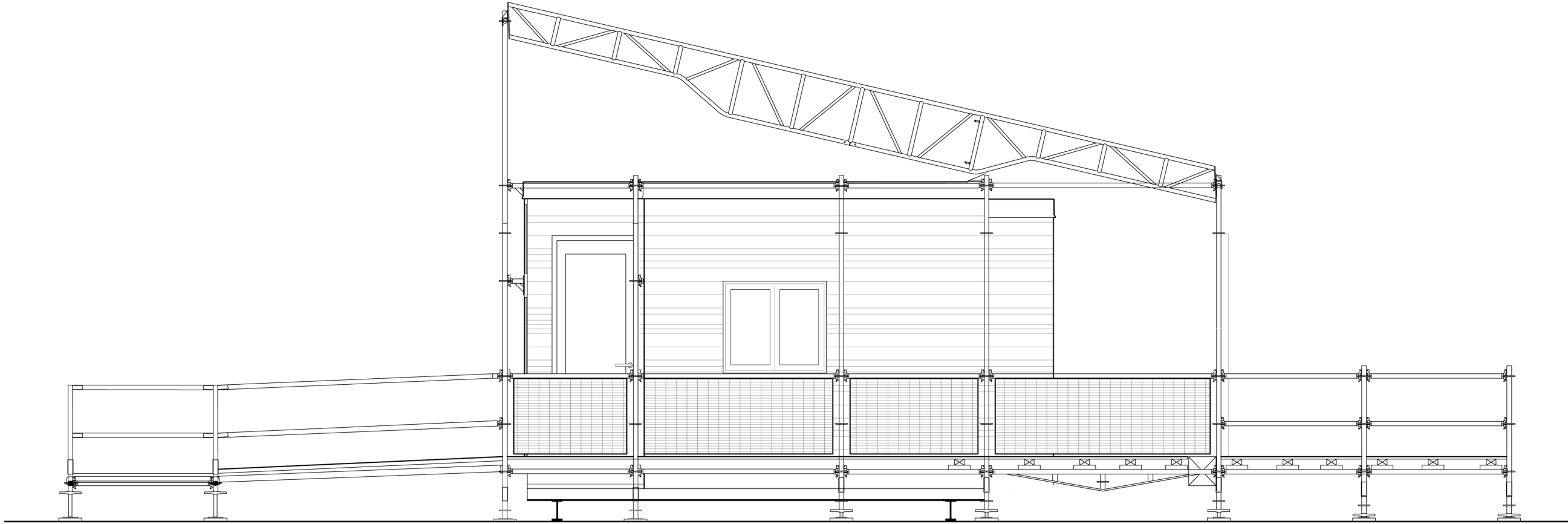
Cornell University Solar Decathlon
909 Mitchell Street
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(607) 277 - 7475

Project: 2007 Solar Decathlon

File Name: AE-203.dwg

Drawn By: SFR

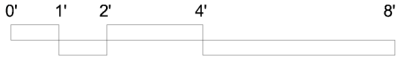
Reviewed By: DEB



A1
AE203.1

WEST ELEVATION WITH CANOPY

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



AE-203.1

WEST
ELEVATION
W/ CANOPY

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As Built Submission

Seal:

Cornell University Solar Decathlon

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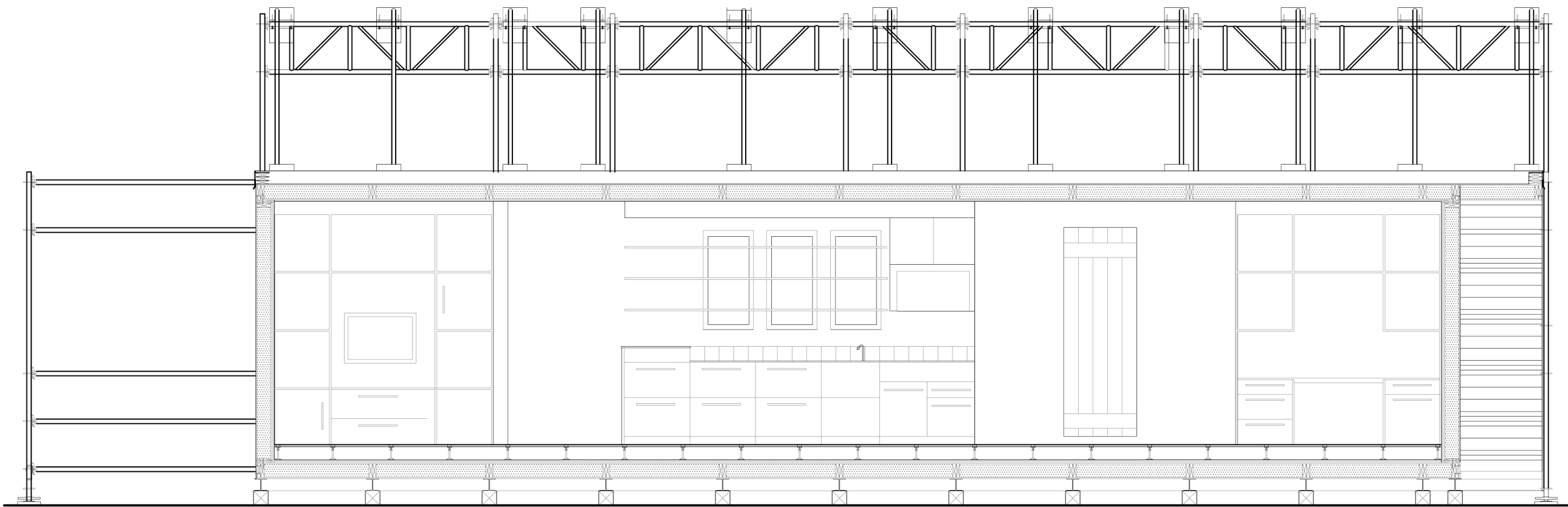
(607) 277 - 7475

Project: 2007 Solar Decathlon

File Name: AE-203.dwg

Drawn By: SFR

Reviewed By: DEB



1
AE-300

LOOKING SOUTH

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

AE-300

EAST-WEST
SECTION

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As Built Submission

Seal:

Cornell University Solar Decathlon

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Project: 2007 Solar Decathlon

File Name: GI-001.dwg

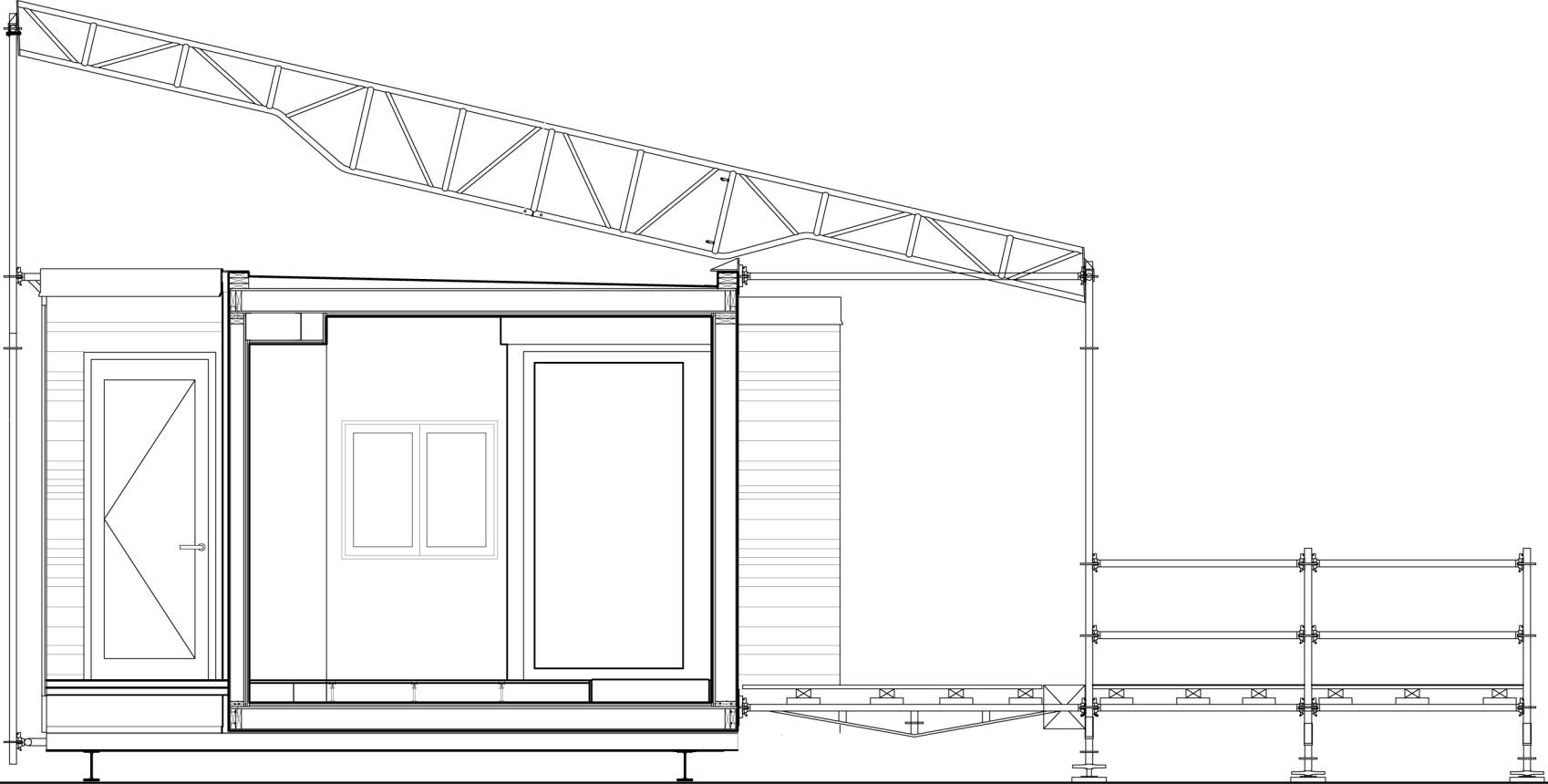
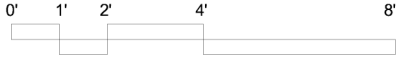
Drawn By: ARA

Reviewed By: SFR

1
AE301

LIVING ROOM LOOKING WEST
SECTION

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



AE-301

NORTH-SOUTH
SECTION

Issue:

- 06/13/06 - DD Submission
- 07/28/06 - CD Submission
- 03/06/07 - CD Submission II
- 08/07/07 - Final Submission
- 12/09/08 - As Built Submission

Seal:

Cornell University Solar Decathlon
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(607) 277 - 7475

Project: 2007 Solar Decathlon

File Name: GI-001.dwg

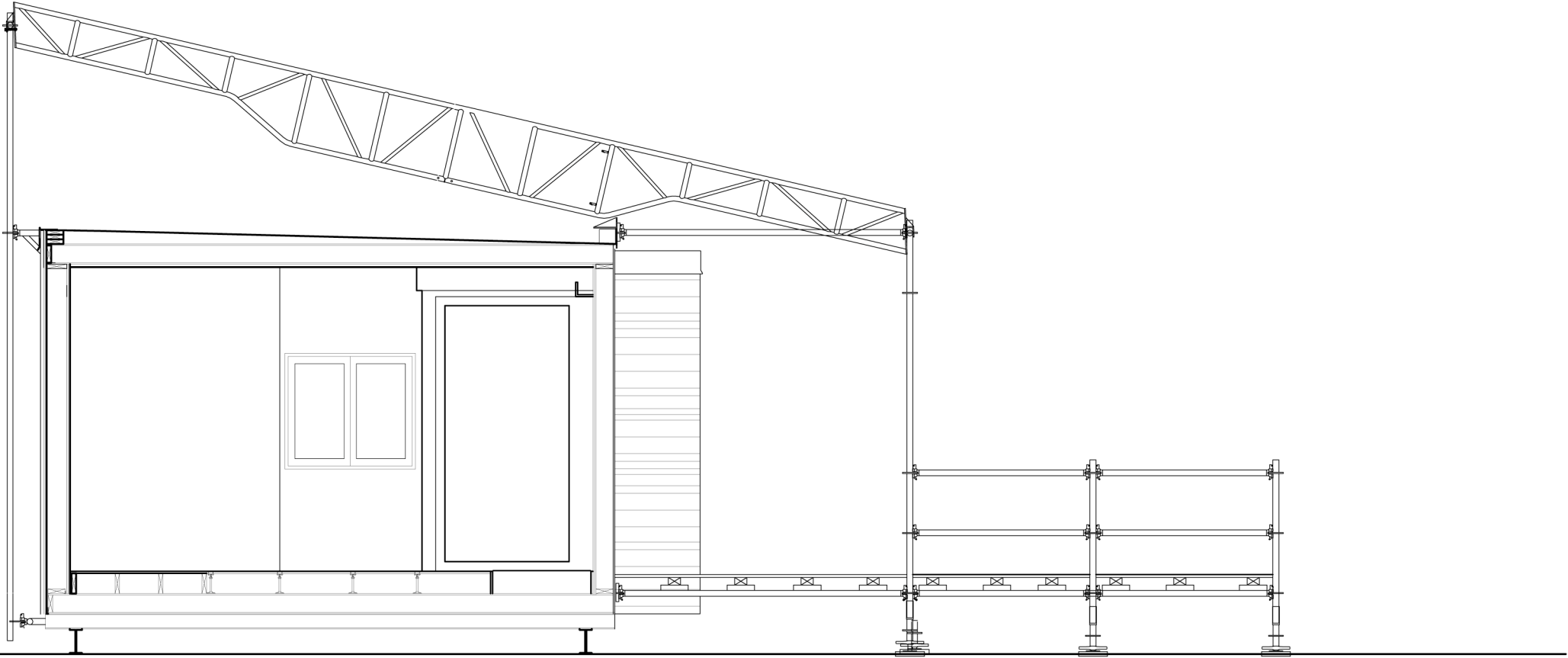
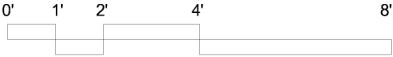
Drawn By: SFR

Reviewed By: DEB

1
AE302

LIVING ROOM LOOKING WEST
SECTION

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



AE-302

NORTH-SOUTH
SECTION

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As Built Submission

Seal:

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Project: 2007 Solar Decathlon

File Name: AE-302.dwg

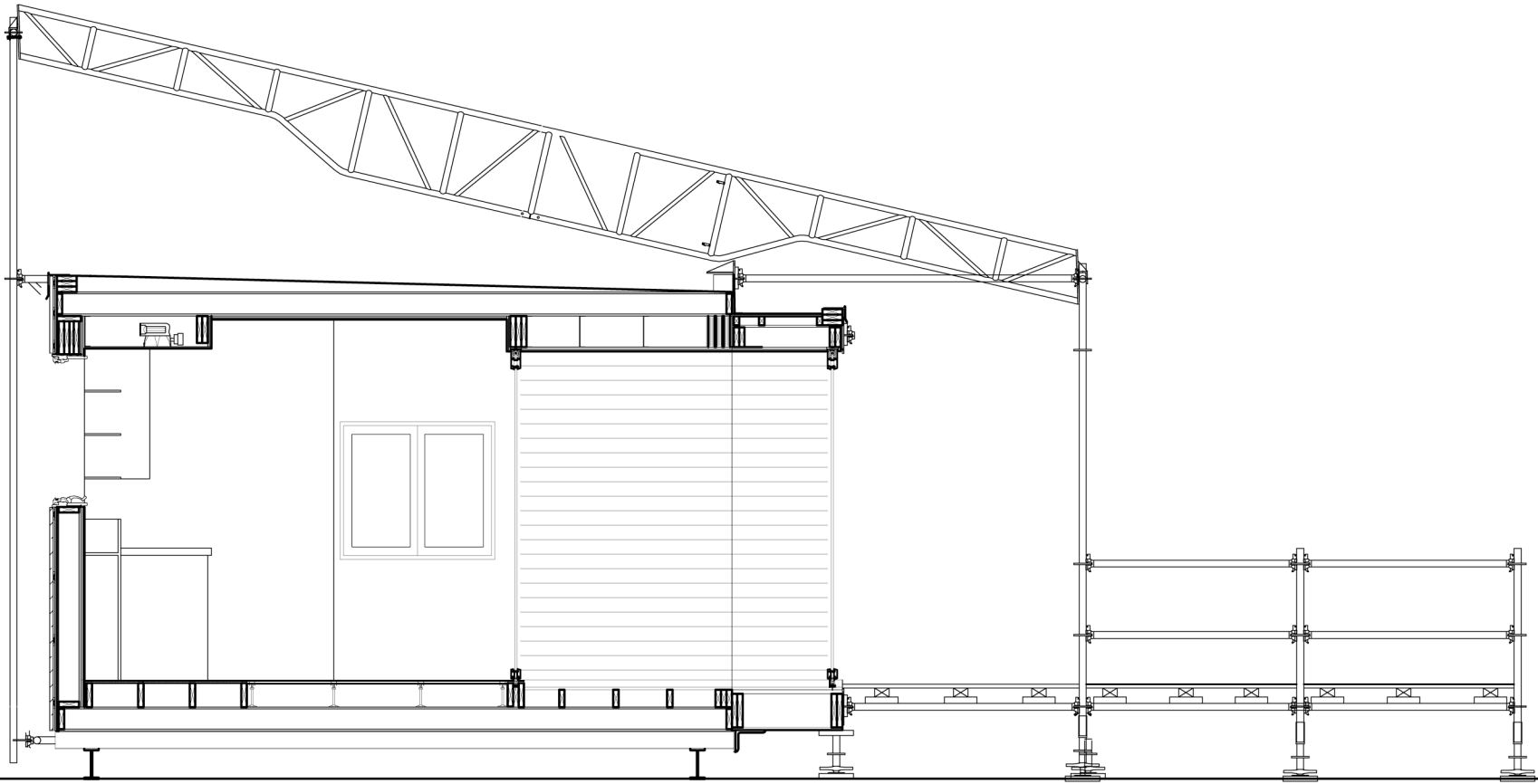
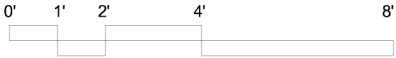
Drawn By: SFR

Reviewed By: DEB

1
AE303

LIVING ROOM LOOKING WEST
SECTION

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



AE-303

NORTH-SOUTH
SECTION

Issue:

- 06/13/06 - DD Submission
- 07/28/06 - CD Submission
- 03/06/07 - CD Submission II
- 08/07/07 - Final Submission
- 12/09/08 - As Built Submission

Seal:

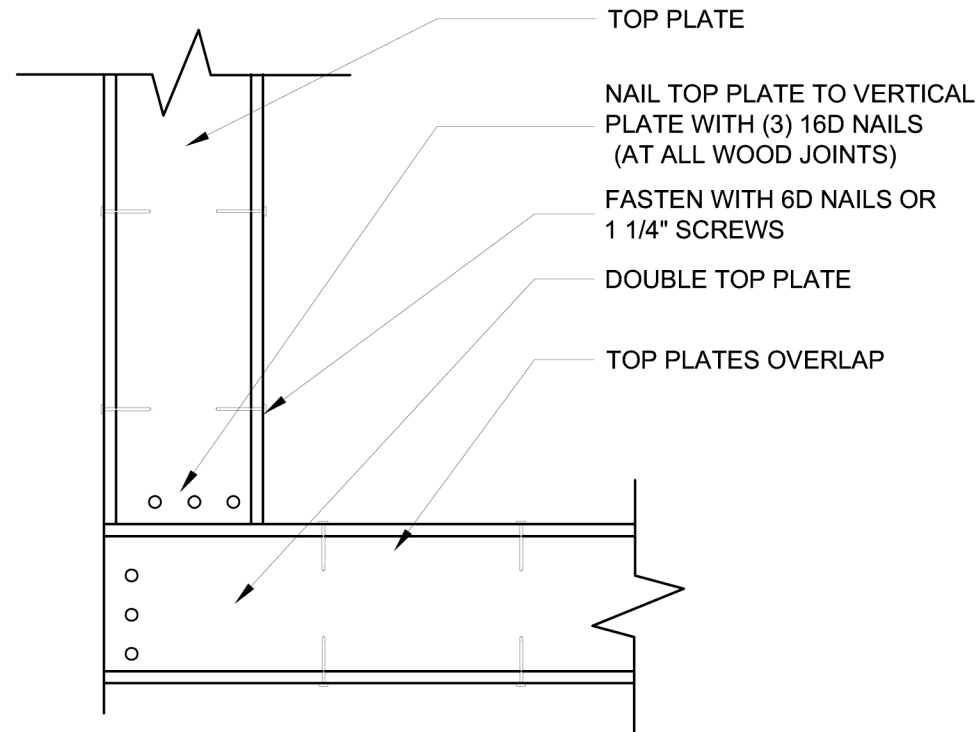
Cornell University Solar Decathlon
909 Mitchell Street
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(607) 277 - 7475

Project: 2007 Solar Decathlon

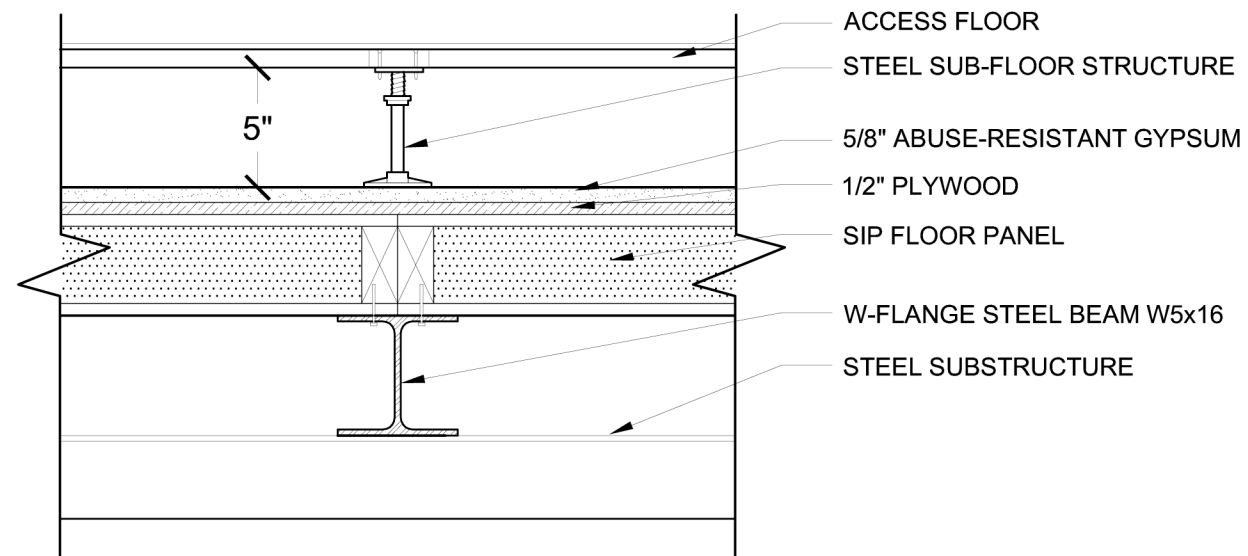
File Name: AE-303.dwg

Drawn By: SFR

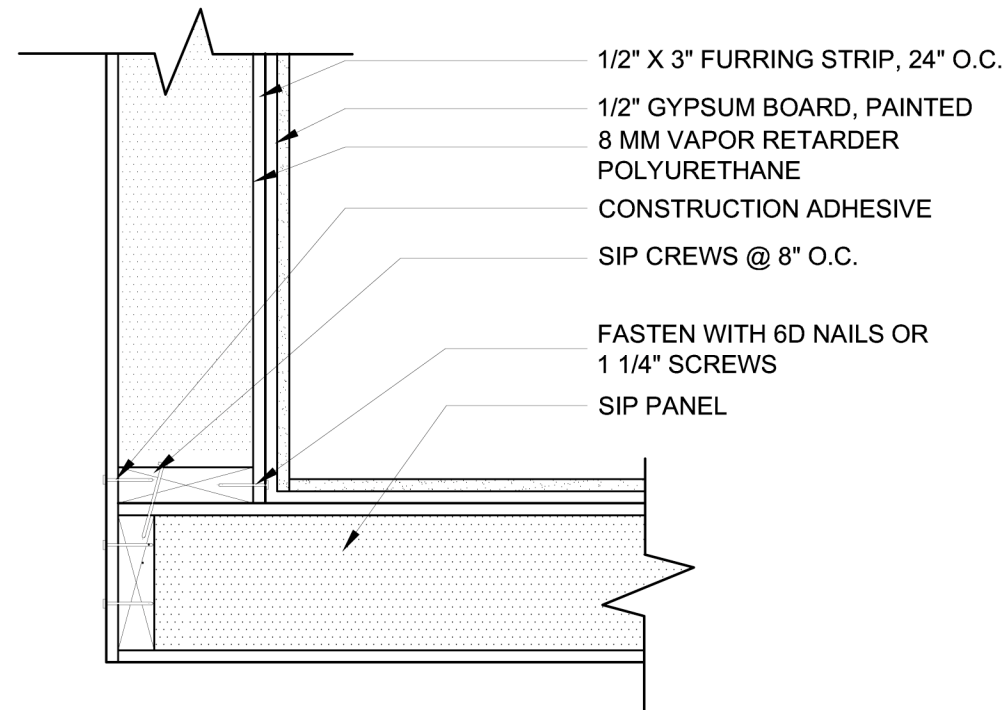
Reviewed By: DEB



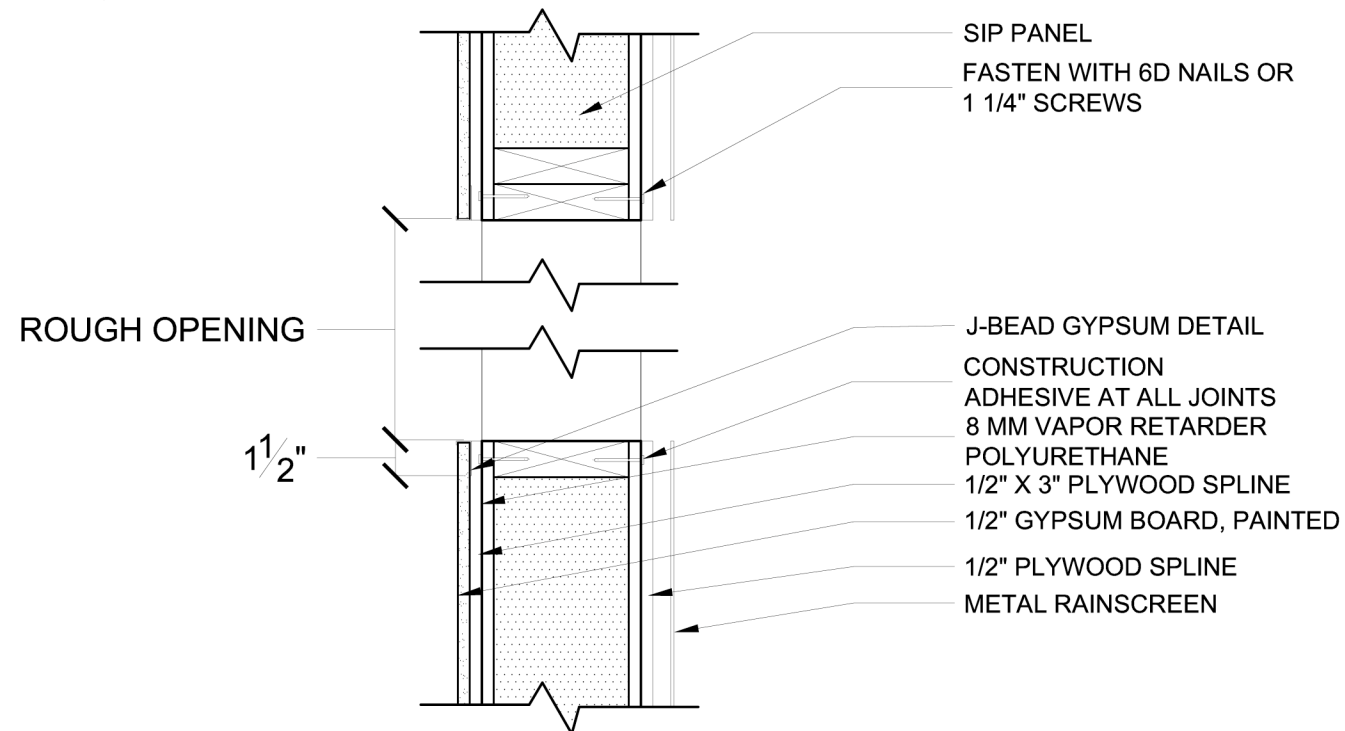
1 TOP CORNER SIP DETAIL
AE500 PLAN SCALE: 1 1/2" = 1'-0"



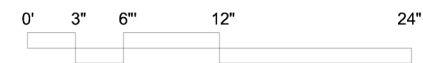
3 INTERFACE BETWEEN SIP FLOOR PANELS
AE500 SECTION SCALE: 1 1/2" = 1'-0"



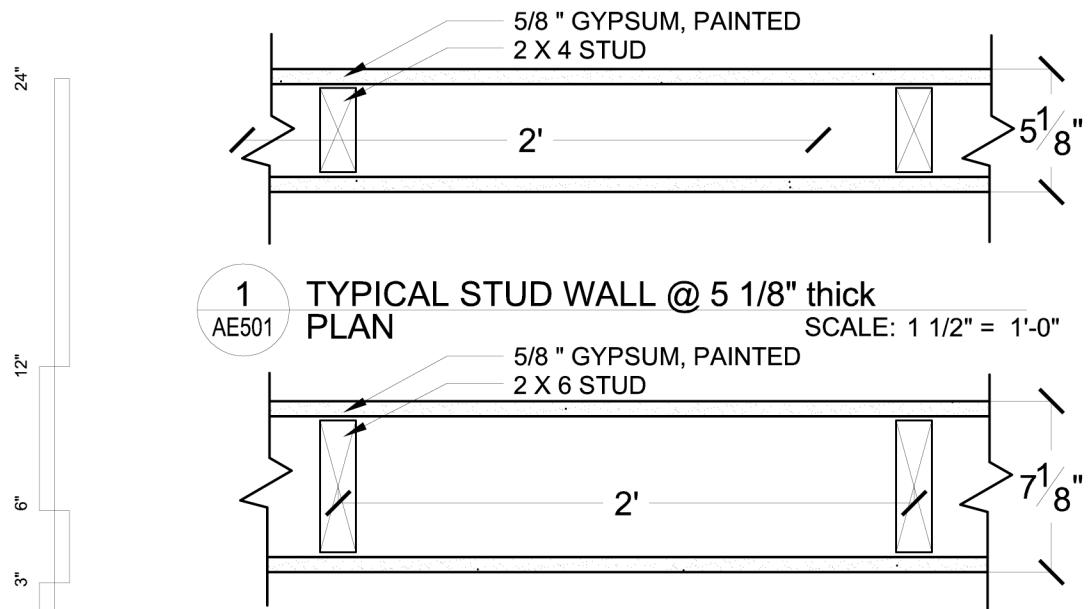
2 CORNER SIP DETAIL
AE500 SCALE: 1 1/2" = 1'-0"



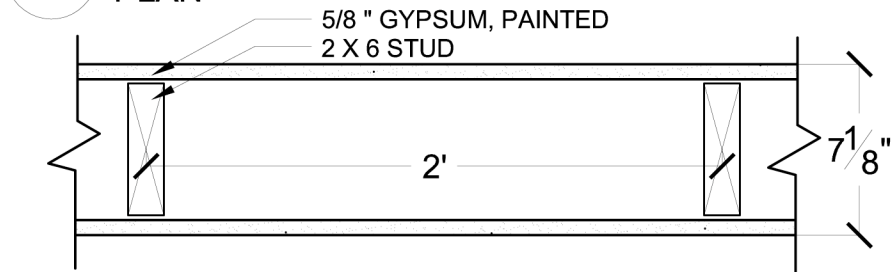
4 PANEL OPENING
AE500 SCALE: 1 1/2" = 1'-0"



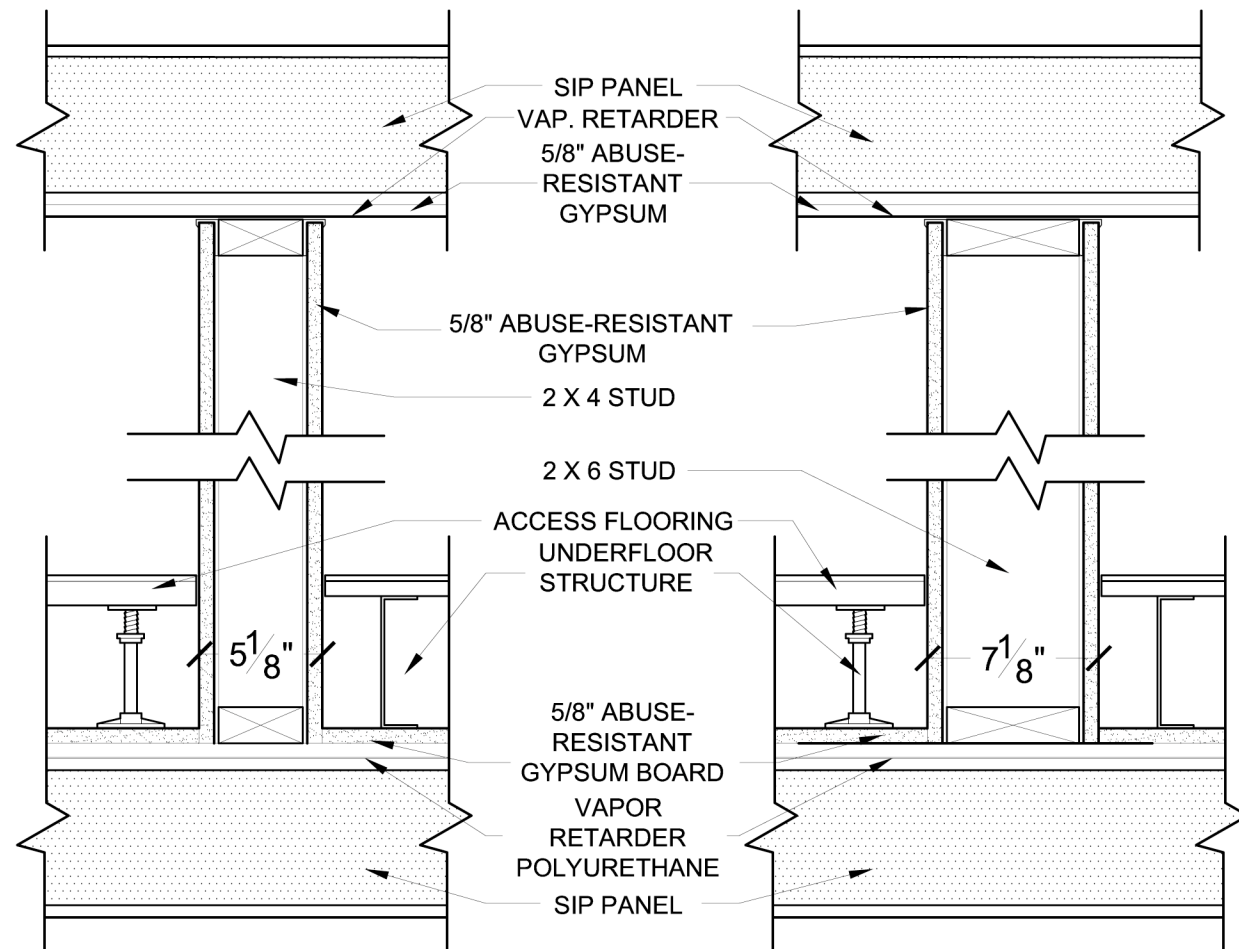
Seal:	Cornell University Solar Decathlon 909 Mitchell Street Ithaca, New York 14850 (607) 277 - 7475	
	Project: 2007 Solar Decathlon	
	File Name: AE-500.dwg	
	Drawn By: SFR	
Issue:	Reviewed By: DEB	
AE-500		
ARCHITECTURAL DETAILS		



1 TYPICAL STUD WALL @ 5 1/8" thick
AE501 PLAN SCALE: 1 1/2" = 1'-0"

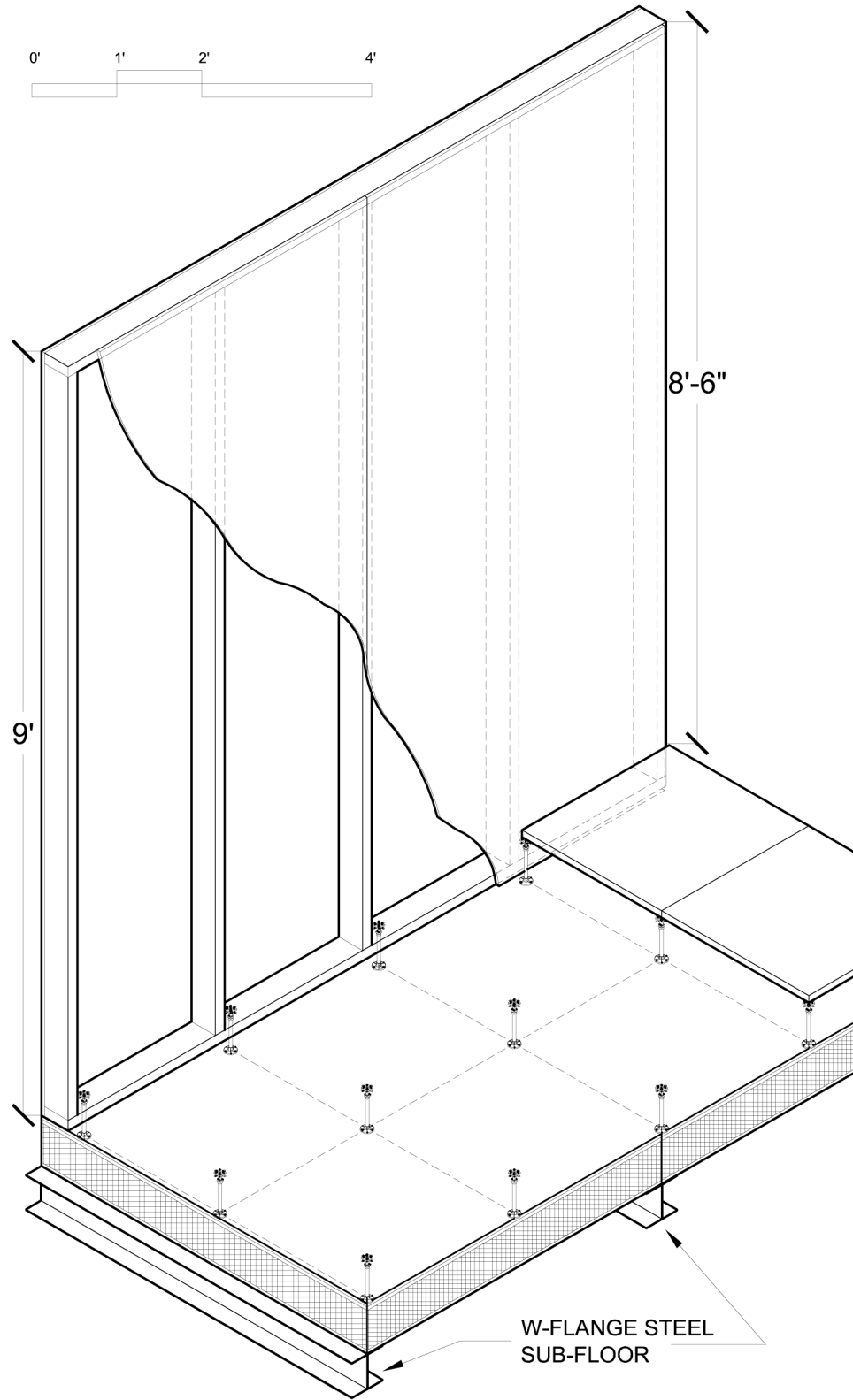


2 TYPICAL STUD WALL @ 7 1/8" thick
AE501 PLAN SCALE: 1 1/2" = 1'-0"



3 TYPICAL 5 1/8" STUD WALL
AE501 SECTION SCALE: 1 1/2" = 1'-0"

4 TYPICAL 7 1/8" STUD WALL
AE501 SECTION SCALE: 1 1/2" = 1'-0"



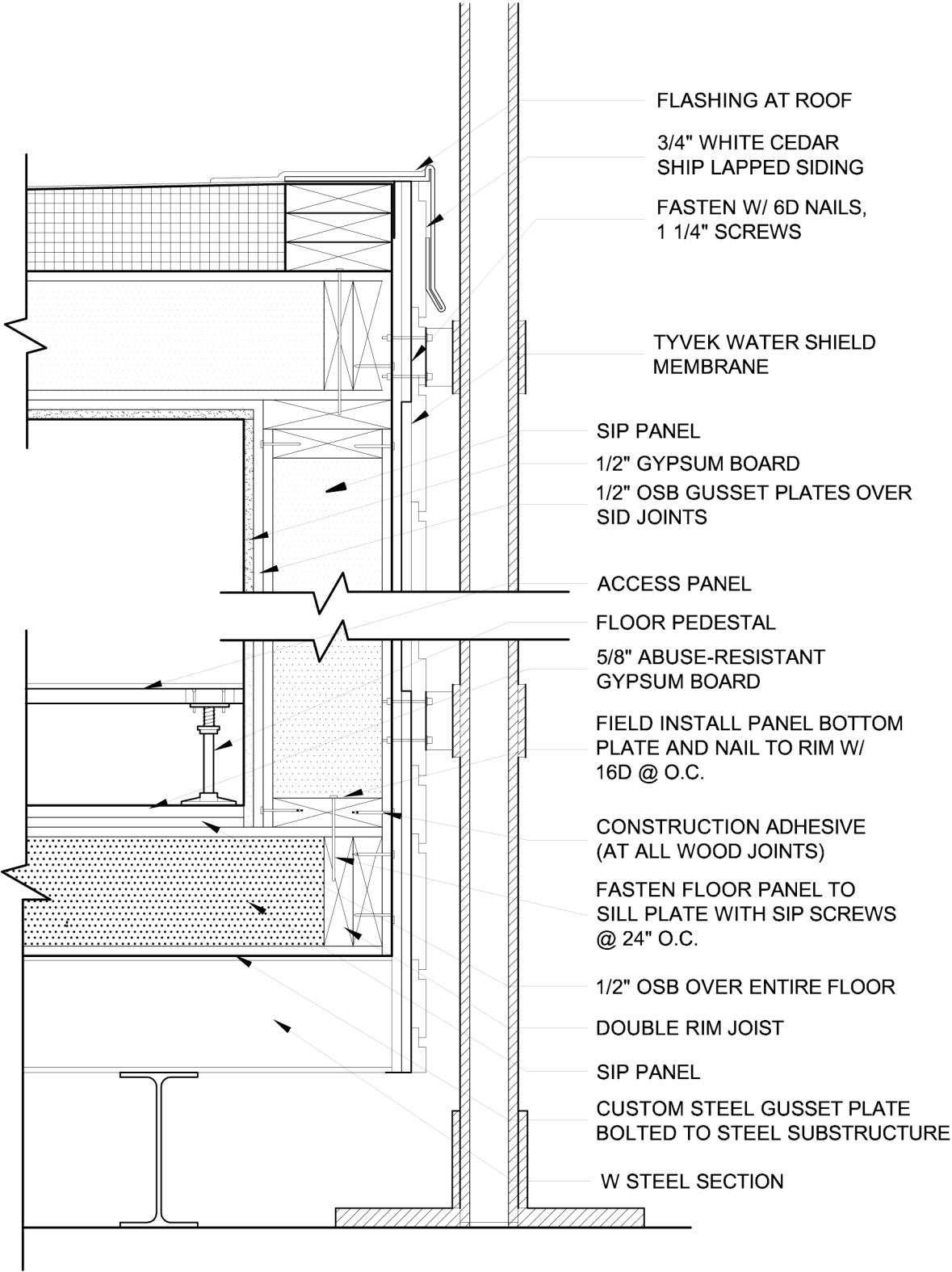
5 TYPICAL STUD WALL FRAMING
AE501 SCALE: 1/2" = 1'-0"

<h1>AE-501</h1>	ARCHITECTURAL DETAILS	
	Issue: 06/13/06 - DD Submission 07/28/06 - CD Submission 03/06/07 - CD Submission II 08/07/07 - Final Submission 12/09/08 - As Built Submission	Seal:
Cornell University Solar Decathlon 909 Mitchell Street Ithaca, New York 14850 (607) 277 - 7475		
Project: 2007 Solar Decathlon		
File Name: AE-501.dwg		
Drawn By: SFR		
Reviewed By: DEB		

1
AE502

EXTERIOR SIP WALL
SECTION

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



AE-502

ARCHITECTURAL
DETAILS

Issue:
06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As-Built Submission

Seal:

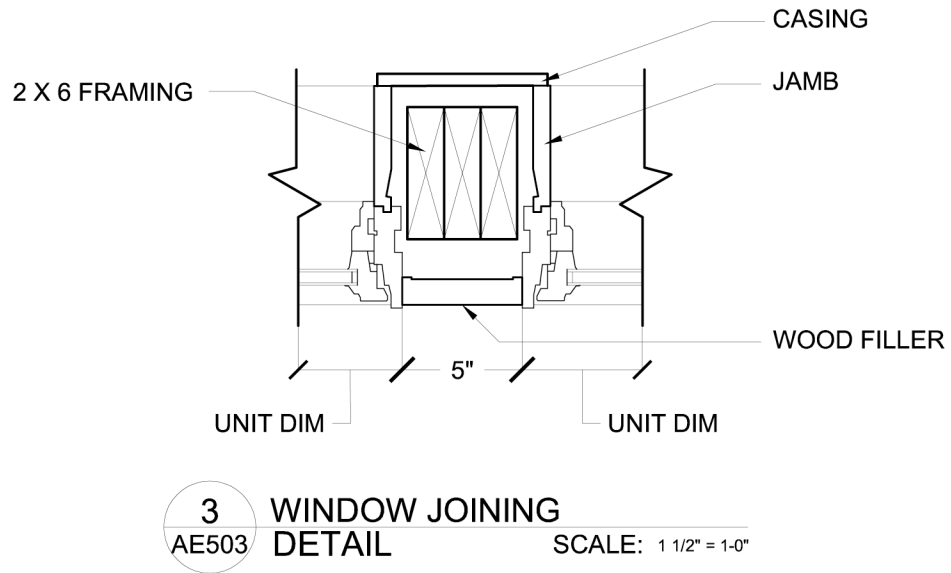
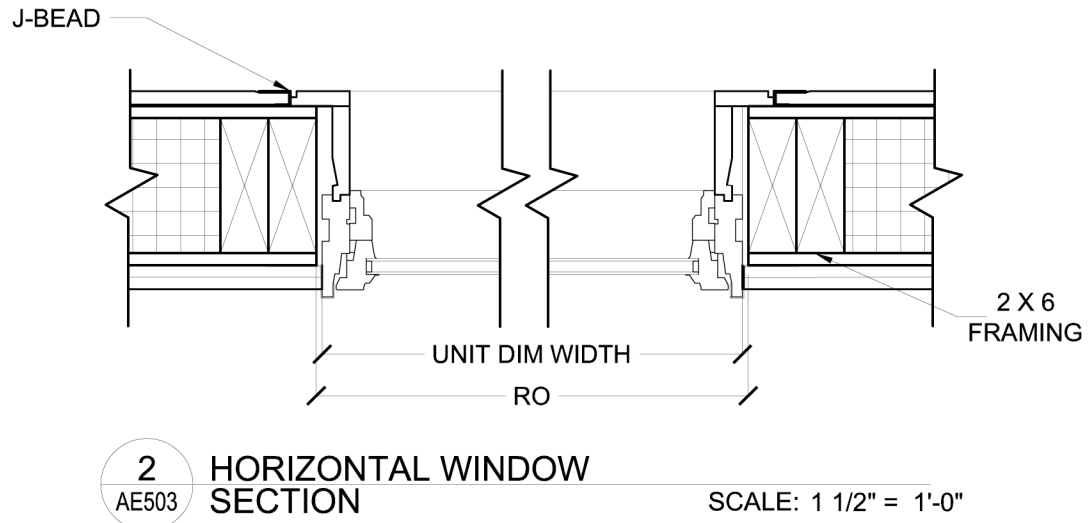
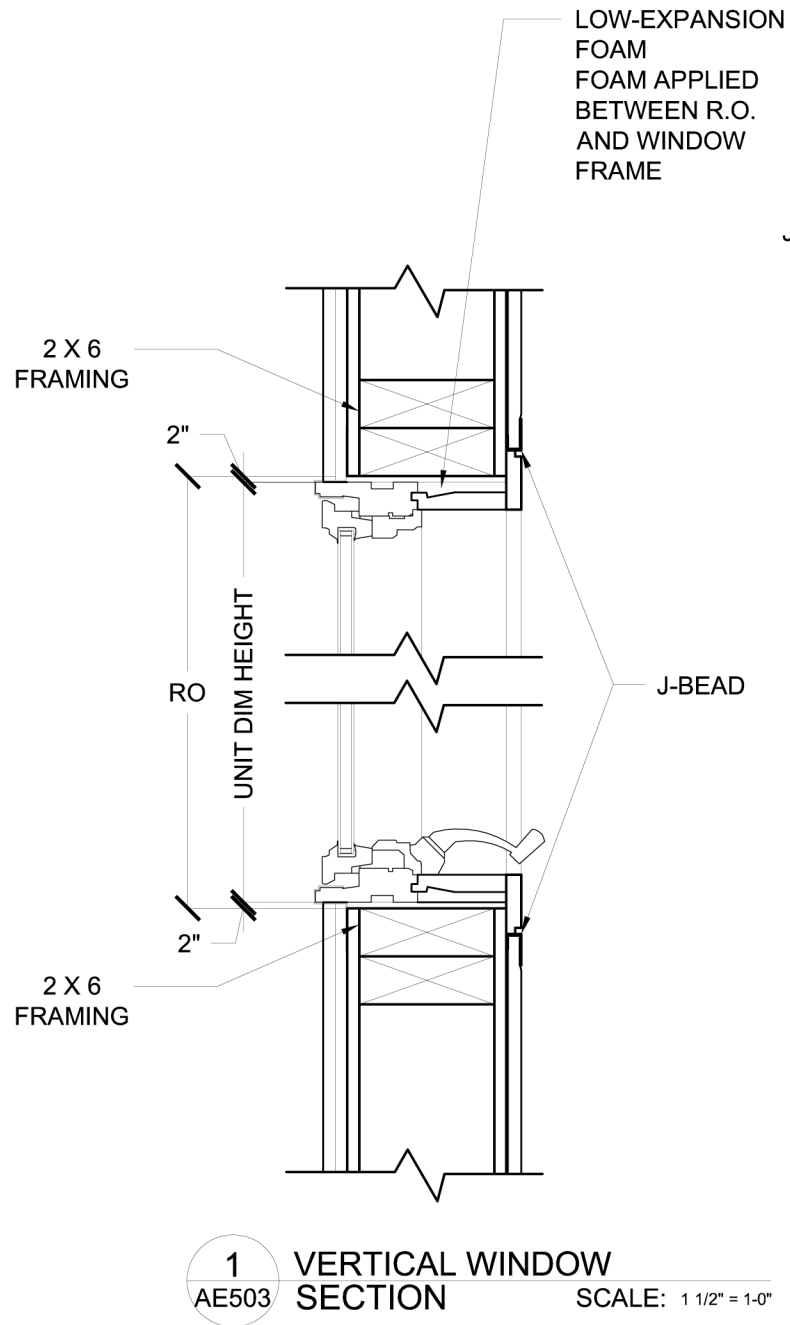
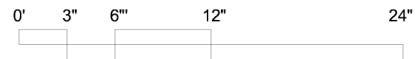
Cornell University Solar Decathlon
909 Mitchell Street
Ithaca, New York 14850
(607) 277 - 7475

Project: 2007 Solar Decathlon

File Name: AE-502.dwg

Drawn By: JCN

Reviewed By: DEB



AE-503

ARCHITECTURAL
DETAILS

Issue:
06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As-Built Submission

Seal:

Cornell University Solar Decathlon
909 Mitchell Street
Ithaca, New York 14850
(607) 277 - 7475

Project: 2007 Solar Decathlon

File Name: AE-503.dwg

Drawn By: ARA/SFR

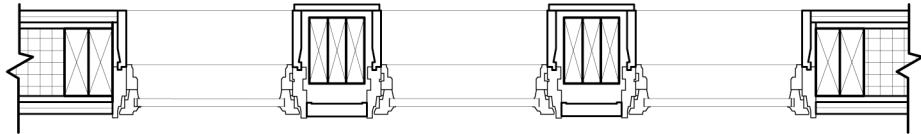
Reviewed By: DEB

1

AE505

FRAMING DETAIL
PLAN

SCALE: 1-1/2" = 1-0"

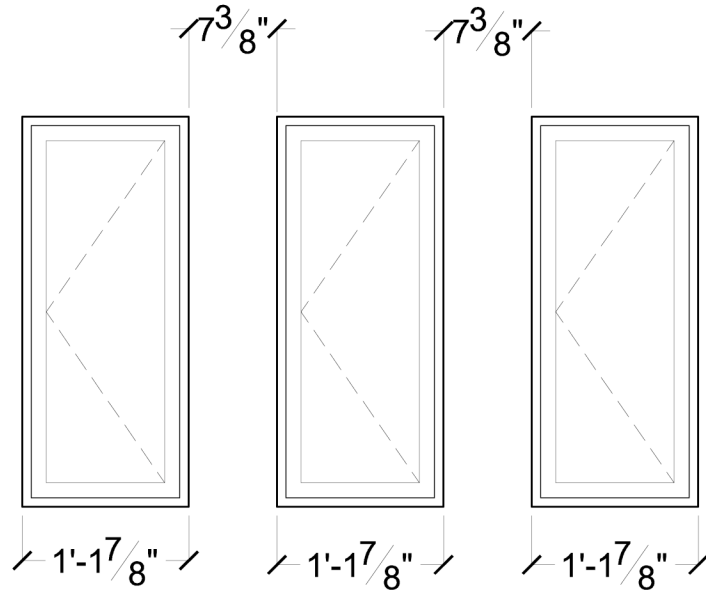


1

AE504

WINDOW ELEVATION

SCALE: 1-1/2" = 1-0"



AE-504

ARCHITECTURAL
DETAILS

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As-Built Submission

Seal:

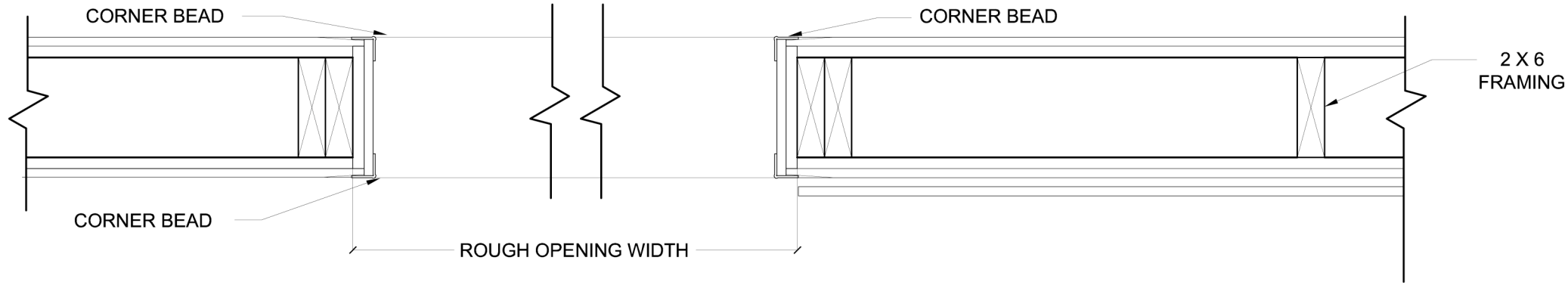
Cornell University Solar Decathlon
909 Mitchell Street
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Project: 2007 Solar Decathlon

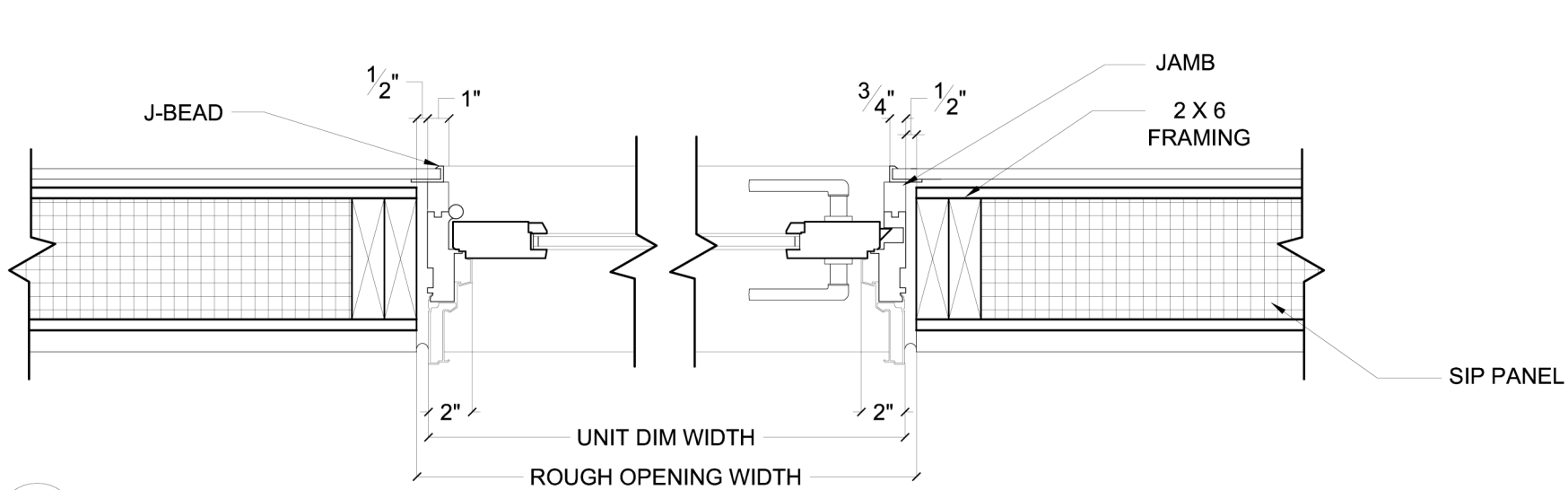
File Name: AE-504.dwg

Drawn By: ARA/SFR

Reviewed By: DEB

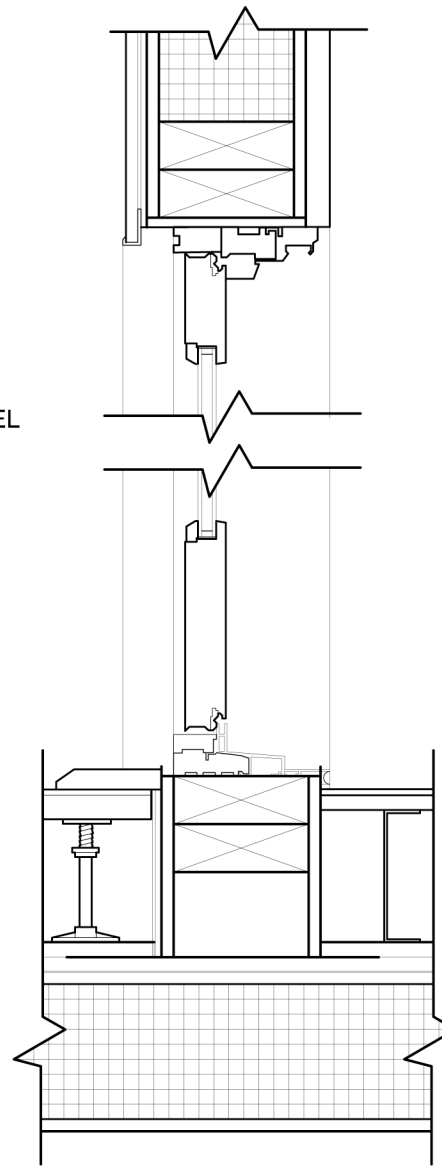


1 SLIDING "BARN" DOOR
AE505 DETAIL SCALE: 1-1/2" = 1'-0"



2 DOOR PLAN
AE505 DETAIL SCALE: 1-1/2" = 1'-0"

3 DOOR SECTION
AE505 DETAIL SCALE: 1-1/2" = 1'-0"



0' 3" 6" 12" 24"

AE-505

DOOR
DETAILS

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As-Built Submission

Seal:

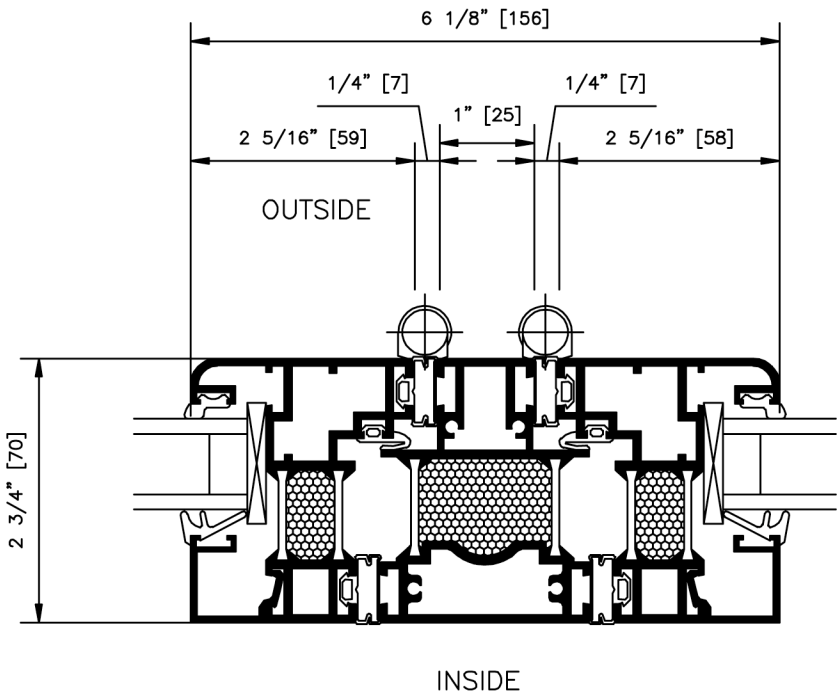
Cornell University Solar Decathlon
909 Mitchell Street
Ithaca, New York 14850
(607) 277 - 7475

Project: 2007 Solar Decathlon

File Name: AE-505.dwg

Drawn By: ARA

Reviewed By: SFR

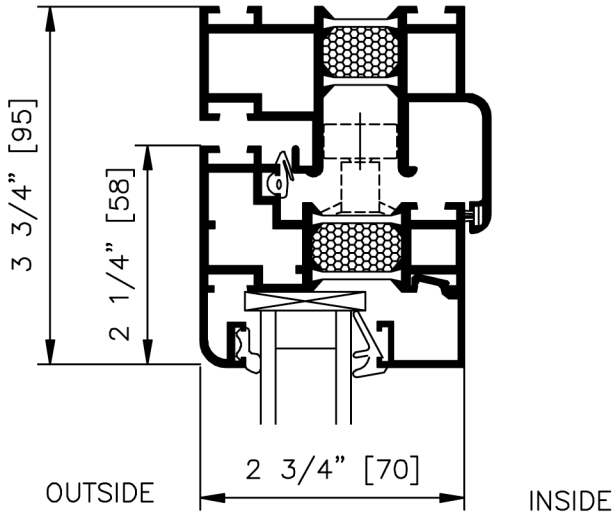


1

AE506

NANOWALL FOLDING PANELS
RUNNING CARRIAGE SET

SCALE: 1" = 2"

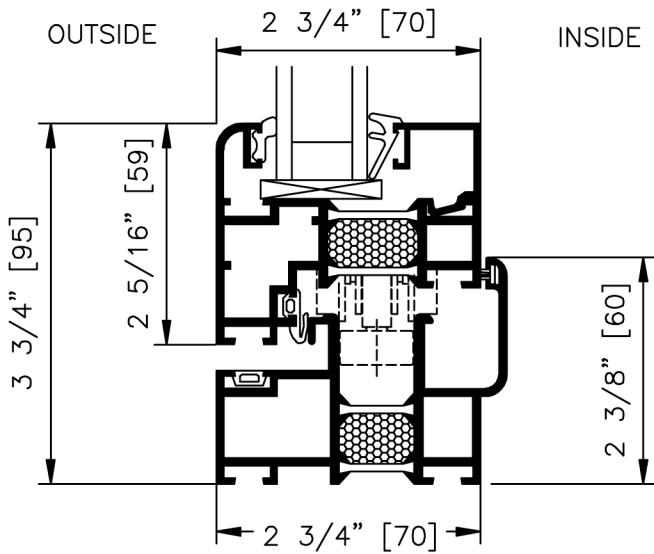


2

AE506

NANOWALL
HEAD JAM DETAIL

SCALE: 1" = 2"



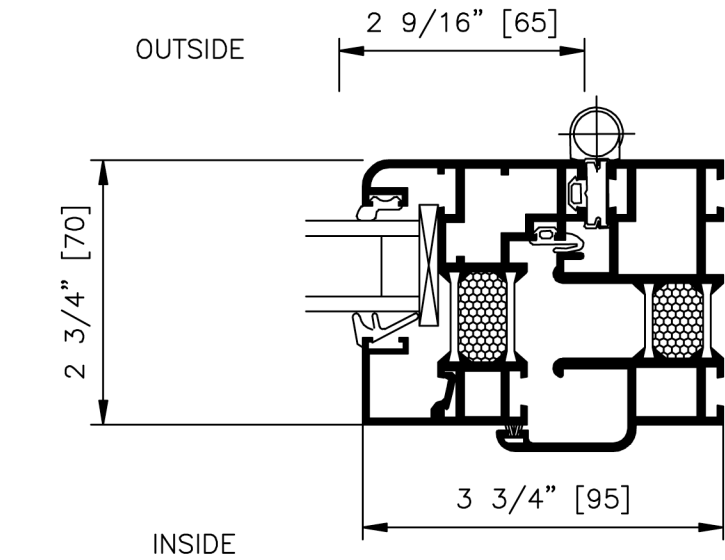
3

AE506

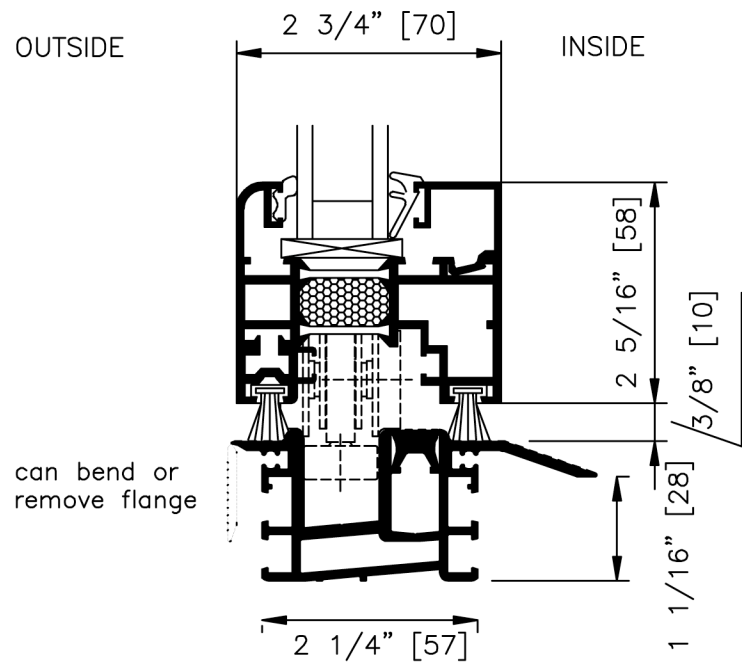
NANOWALL
RAISED SILL DETAIL

SCALE: 1" = 2"

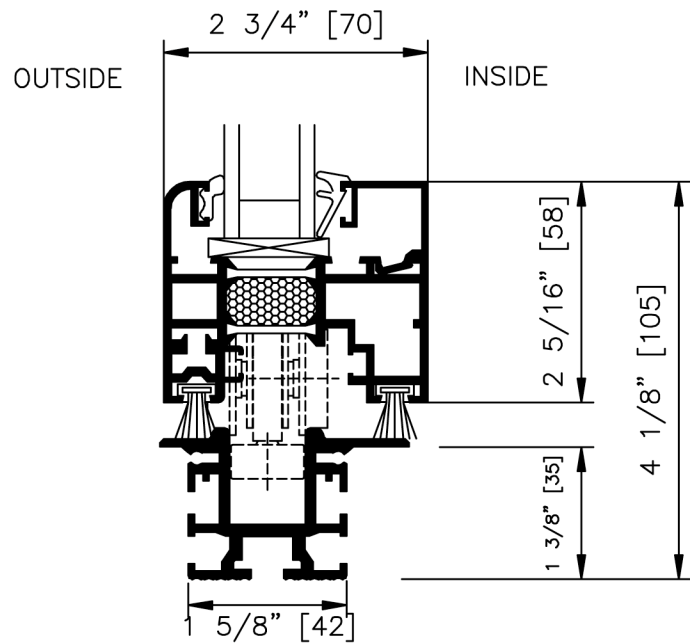
AE-506	Cornell University Solar Decathlon 909 Mitchell Street Ithaca, New York 14850 (607) 277 - 7475	
	Project: 2007 Solar Decathlon	
	File Name: AE-506.dwg	
	Drawn By: SFR	
	Reviewed By: DEB	
ARCHITECTURAL DETAILS	Seal:	
	Issue: 06/13/06 - DD Submission 07/28/06 - CD Submission 03/06/07 - CD Submission II 08/07/07 - Final Submission 12/09/08 - As-Built Submission	



4 NANOWALL PANEL HINGED
RIGHT SIDE JAMB DETAIL SCALE: 1" = 2"



5 NANOWALL LOW PROFILE
SILL DETAIL SCALE: 1" = 2"



6 NANOWALL FLUSH SILL
DETAIL SCALE: 1" = 2"

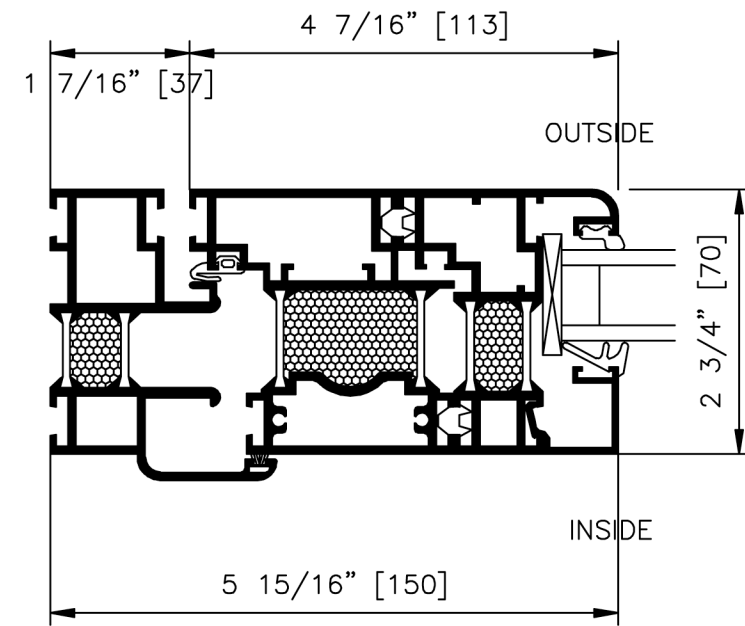
AE-507

ARCHITECTURAL
DETAILS

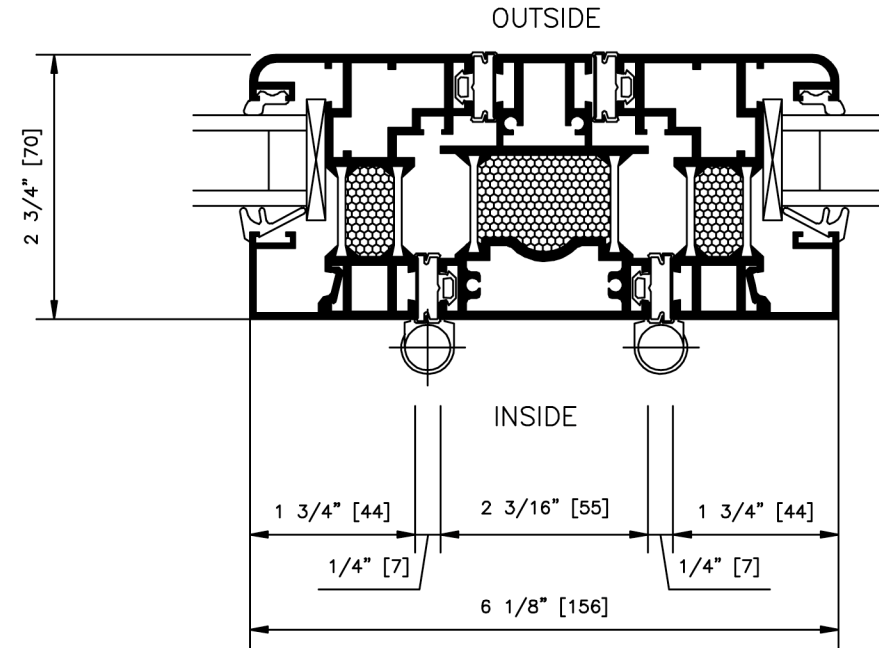
Issue:
06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As-Built Submission

Seal:

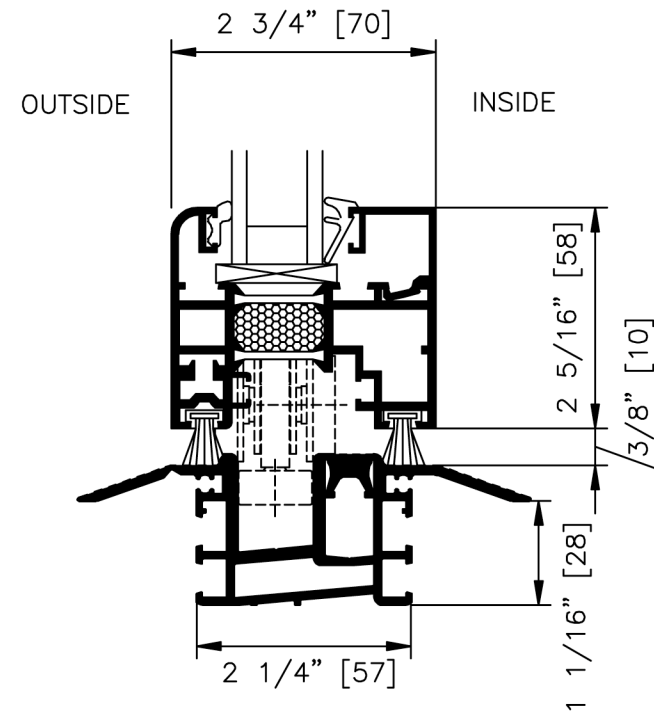
Cornell University Solar Decathlon
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(607) 277 - 7475
Project: 2007 Solar Decathlon
File Name: AE-507.dwg
Drawn By: SFR
Reviewed By: DEB



7 NANOWALL SWING PANEL
LEFT SIDE JAMB LOCK
AE508 SCALE: 1" = 2"



8 NANOWALL FOLDING
LOCKING PANEL DETAIL
AE508 SCALE: 1" = 2"

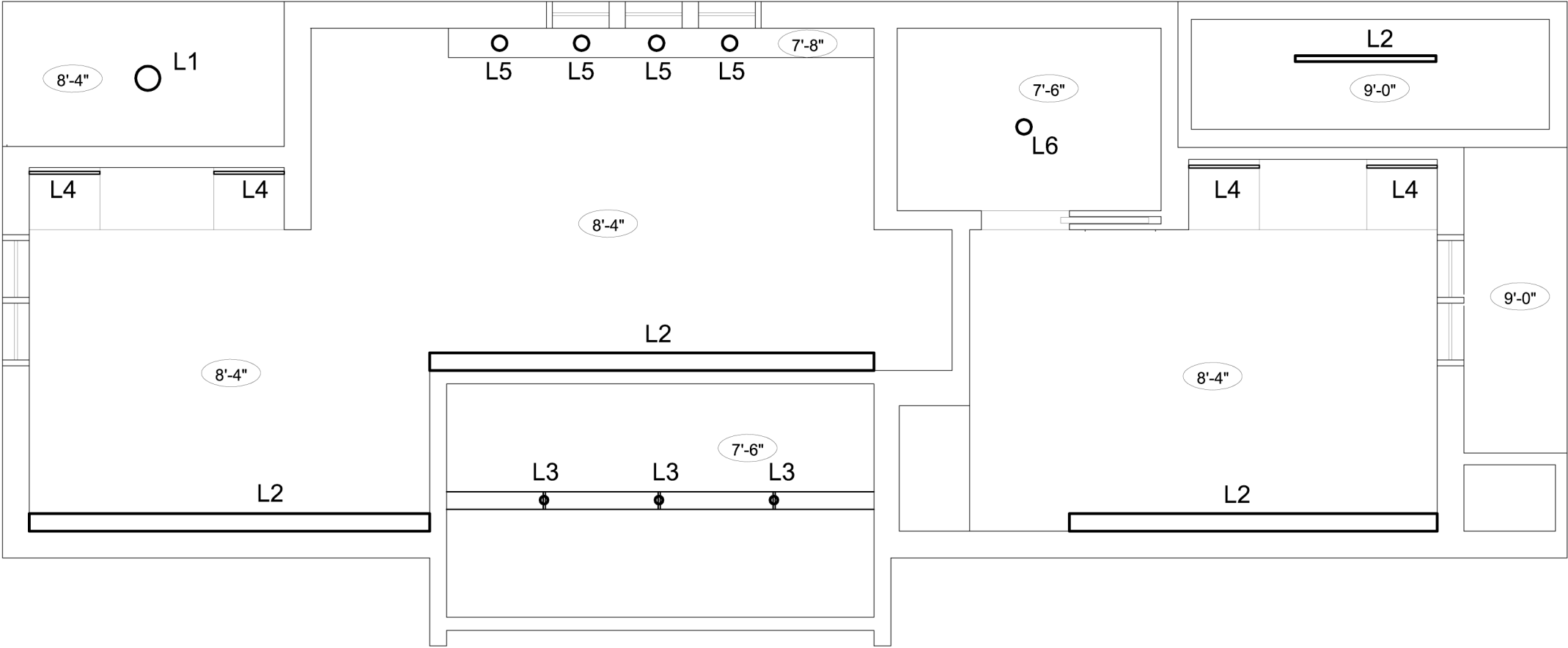


9 NANOWALL HIGH CLEARANCE
FLUSH SILL DETAIL
AE508 SCALE: 1" = 2"



<div>AE-508</div> <div>ARCHITECTURAL DETAILS</div>	Issue:		<div>Seal:</div>	<div>Cornell University Solar Decathlon 909 Mitchell Street Ithaca, New York 14850 (607) 277 - 7475</div> <div>Project: 2007 Solar Decathlon</div> <div>File Name: AE-508.dwg</div> <div>Drawn By: SFR</div> <div>Reviewed By: DEB</div>
	06/13/06 - DD Submission			
	07/28/06 - CD Submission			
	03/06/07 - CD Submission II			
	08/07/07 - Final Submission			
12/09/08 - As-Built Submission				

	TYPE	LAMP	FIXTURE
L1	SURFACE MOUNT DOWNLIGHT	NOT SPECIFIED	NOT SPECIFIED
L2	WALL-MOUNTED LINEAR FLOURESCENT	GE T5 STARCOAT 3500 K	WALL MOUNTED BOX (CORNELL BUILT)
L3	CABLE TRACK LOW-VOLTAGE HALOGEN	MR16	JUNO CABLE TRACK FIXTURE
L4	RECESSED LEDS	GE TETRA ULTRA LED	BUILT INTO CABINETS
L5	RECESSED HALOGEN DOWNLIGHTS	GE EDISON PAR 20 SPOTLIGHT	JUNO ACULUX PRECISION DOWNLIGHTS
L6	RECESSED COMPACT FLOURESCENT	GE 4 FIN CFL	JUNO CFL DOWNLIGHT



1
AE101

REFLECTED CEILING
PLAN

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

AI-101

REFLECTED
CEILING
PLAN

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As Built Submission

Seal:

Cornell University Solar Decathlon

909 Mitchell Street

Ithaca, New York 14850

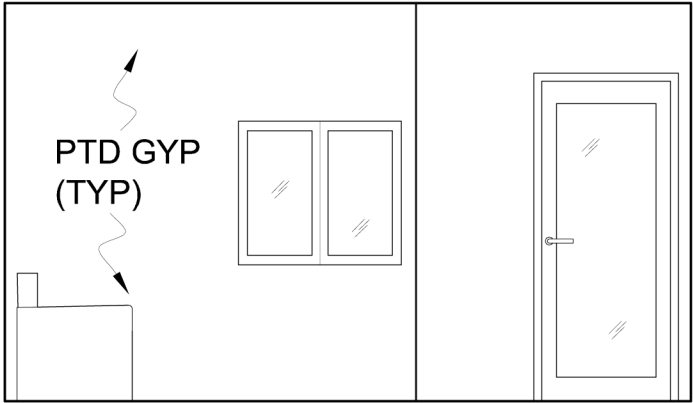
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Project: 2007 Solar Decathlon

File Name: AI-101.dwg

Drawn By: SFR

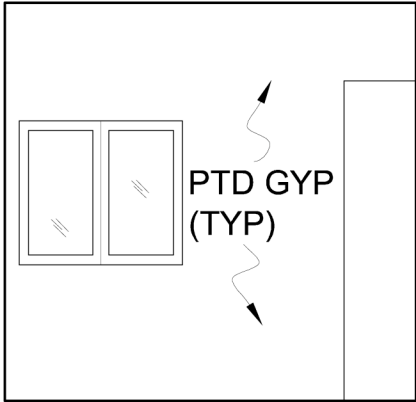
Reviewed By: SFR



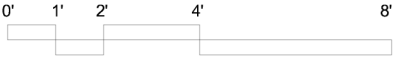
1 INTERIOR ELEVATION
AI200 LOOKING WEST SCALE: 1/4" = 1'-0"



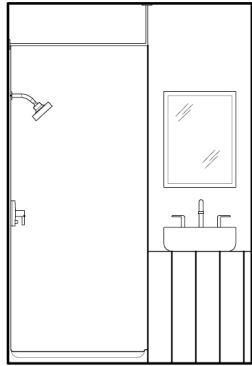
2 INTERIOR ELEVATION
AI200 LOOKING SOUTH SCALE: 1/4" = 1'-0"



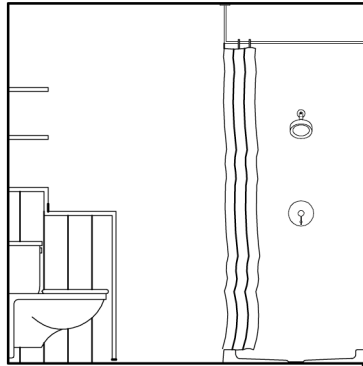
3 INTERIOR ELEVATION
AI200 LOOKING EAST SCALE: 1/4" = 1'-0"



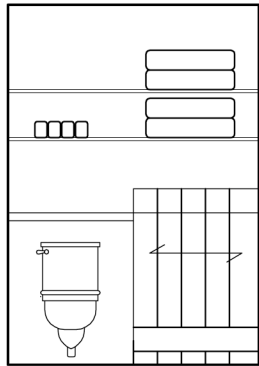
AI-200	Issue:	Seal:	Cornell University Solar Decathlon 909 Mitchell Street Ithaca, New York 14850 (607) 277 - 7475
			Project: 2007 Solar Decathlon
			File Name: AI-200.dwg
			Drawn By: SFR
			Reviewed By: SFR
INTERIOR ELEVATIONS	Issue:	Seal:	06/13/06 - DD Submission
			07/28/06 - CD Submission
			03/06/07 - CD Submission II
			08/07/07 - Final Submission
			12/09/08 - As Built Submission



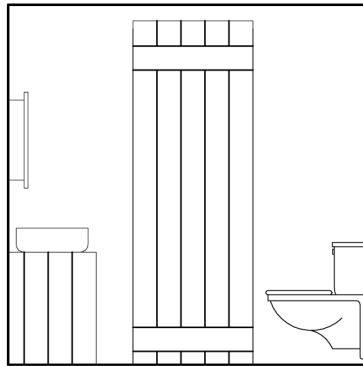
1 INTERIOR ELEVATION BATHROOM
AI200 LOOKING EAST SCALE: 1/4" = 1'-0"



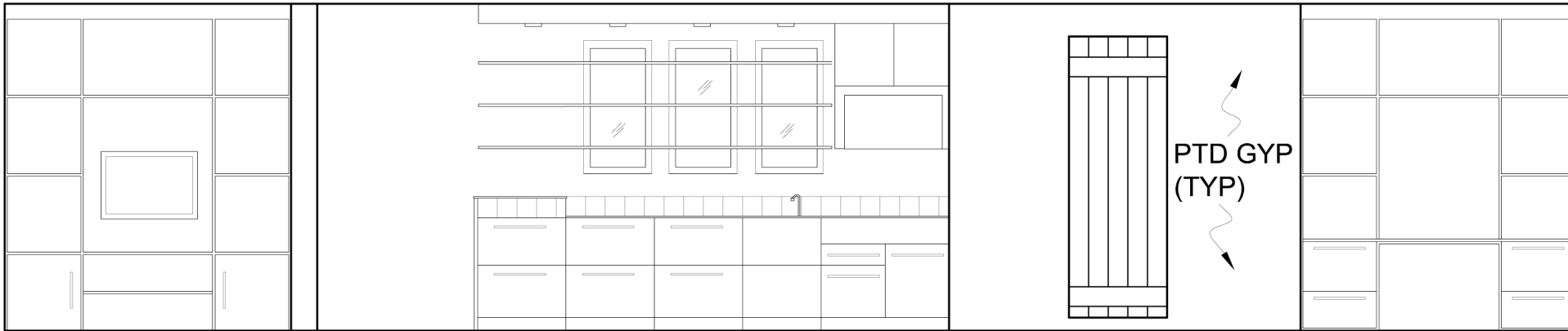
2 INTERIOR ELEVATION BATHROOM
AI200 LOOKING NORTH SCALE: 1/4" = 1'-0"



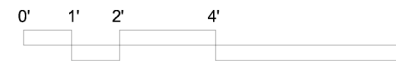
3 INTERIOR ELEVATION BATHROOM
AI200 LOOKING WEST SCALE: 1/4" = 1'-0"



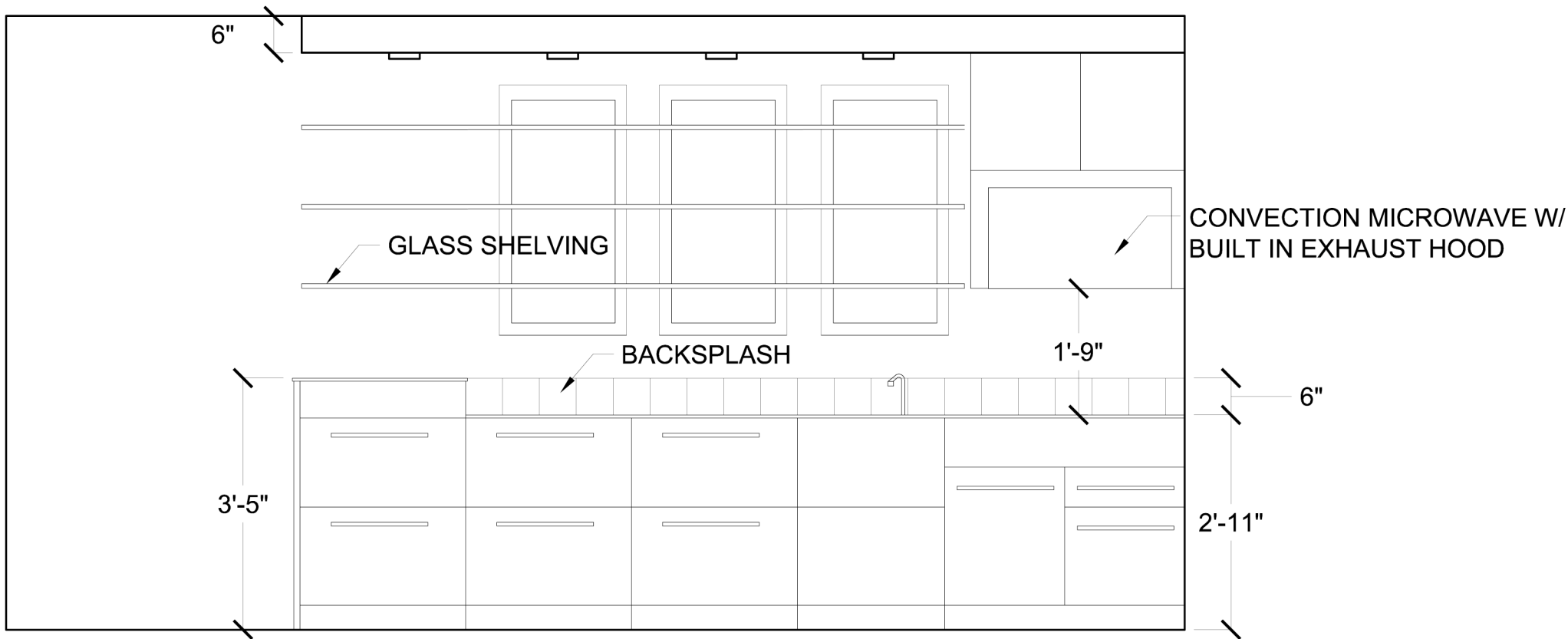
4 INTERIOR ELEVATION BATHROOM
AI200 LOOKING WEST SCALE: 1/4" = 1'-0"



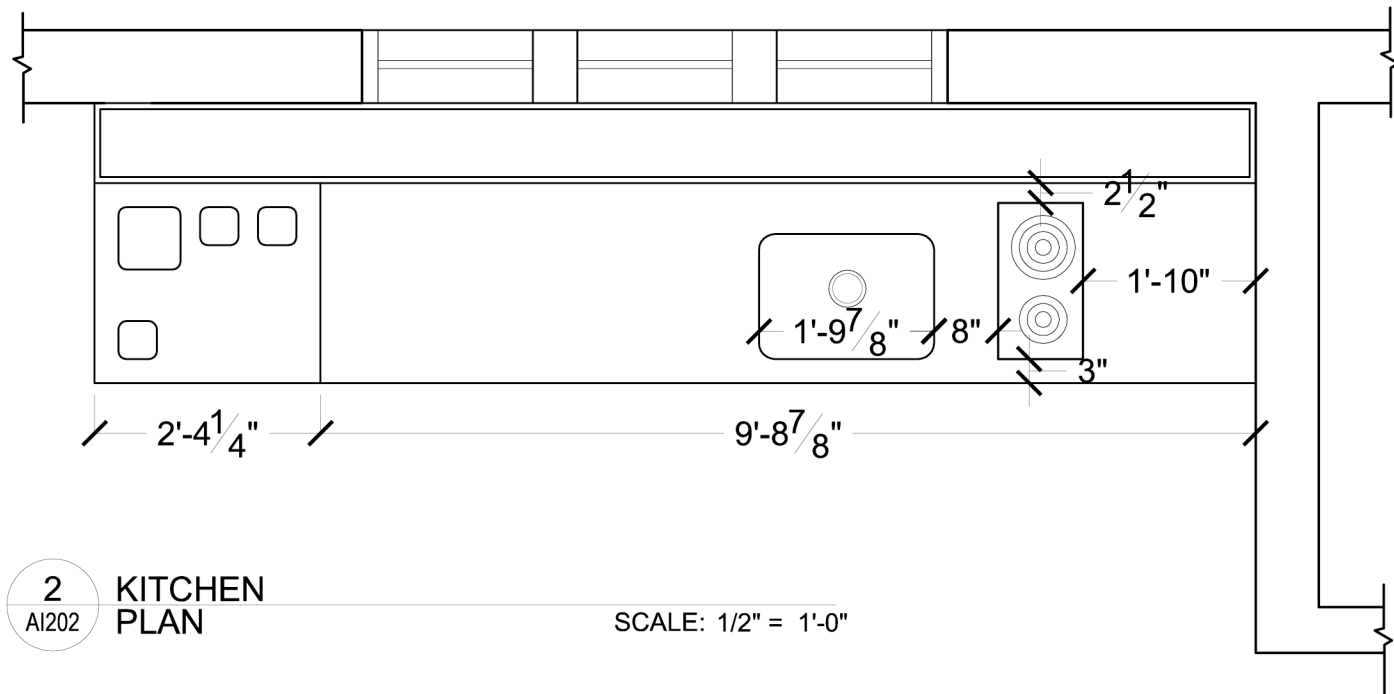
5 INTERIOR ELEVATION
AI200 LOOKING NORTH SCALE: 1/4" = 1'-0"



Cornell University Solar Decathlon 909 Mitchell Street Ithaca, New York 14850 (607) 277 - 7475		Project: 2007 Solar Decathlon	File Name: AI-201.dwg	Drawn By: SFR	Reviewed By: SFR
Seal:					
Issue:		06/13/06 - DD Submission 07/28/06 - CD Submission 03/06/07 - CD Submission II 08/07/07 - Final Submission 12/09/08 - As Built Submission			
AI-201		INTERIOR ELEVATIONS			



1 KITCHEN ELEVATION
AI202 LOOKING NORTH SCALE: 1/2" = 1'-0"

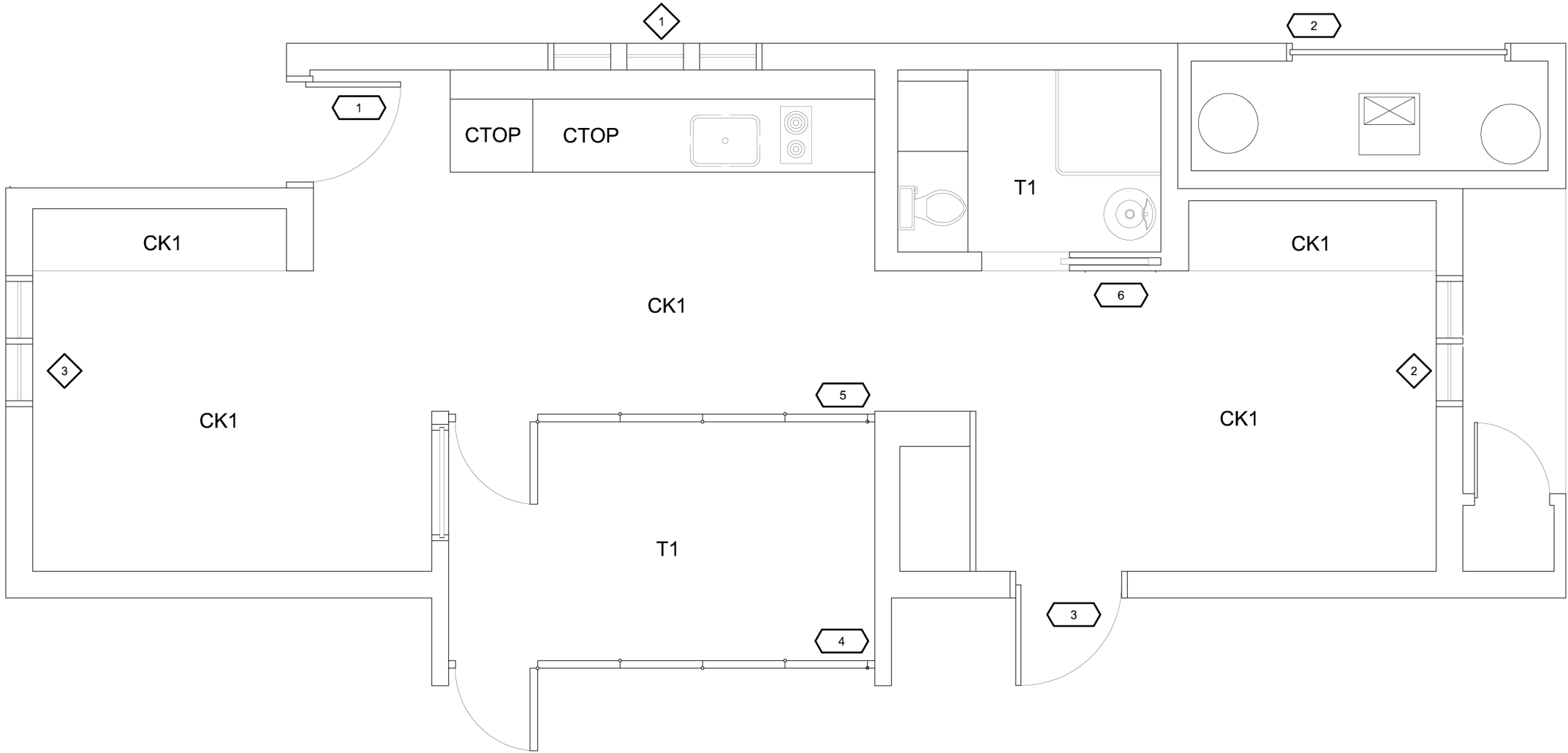


2 KITCHEN PLAN
AI202 SCALE: 1/2" = 1'-0"

NOTES:
*COUNTER AND SINK ARE MADE OUT OF CORIAN.
*EXHAUST HOOD BUILT INTO CONVECTION MICROWAVE ABOVE COOK TOP



Seal:	Cornell University Solar Decathlon 909 Mitchell Street Ithaca, New York 14850 (607) 277 - 7475	
	Project: 2007 Solar Decathlon	
	File Name: AI-202.dwg	
	Drawn By: SFR	
	Reviewed By: SFR	
Issue:		
	06/13/06 - DD Submission	
	07/28/06 - CD Submission	
	03/06/07 - CD Submission II	
	08/07/07 - Final Submission	
AI-202	12/09/08 - As Built Submission	
	KITCHEN DETAILS	



Door Schedule

	Door Type	Rough Opening
1	Jeld-wen Patio Wood Swing	3' 1-1/4" x 6' 11"
2	Side Swing Cedar Cladded Doors	8' 6" x 8' 0"
3	Jeld-wen Pation Wood Swing	3' 1-1/4" x 6' 11"
4	Nano-Wall SL70 Folding Glass Panel System	12' 1-3/4" x 8' 7"
5	Nano-Wall SL70 Folding Glass Panel System	12' 1-3/4" x 8' 7"
6	Wood Pocket Door	
7	Hafele Top-Hung Sliding Barn Door	

Window Schedule

	Window Type	Rough Opening	Area
1	Triple Jeld-wen Glass Casement	1' 8-3/4" x 3' 4-3/4"	15-1/16" x 34-15/32" (3.6 sq ft)
2	Double Jeld-wen Glass Casement	3' 4-3/4" x 3' 4-3/4"	34- 15/32" x 34-15/32" (7.2 sq ft)
3	Double Jeld-wen Glass Casement	3' 4-3/4" x 3' 4-3/4"	34- 15/32" x 34-15/32" (7.2 sq ft)

Finish Schedule

	Finish
CK1	Floating Floor Cork
T1	Bluestone Tile
CTop	Corian
DK	Trex Decking

AF-100

FINISH PLAN
W/ DOORS &
WINDOWS

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As Built Submission

Seal:

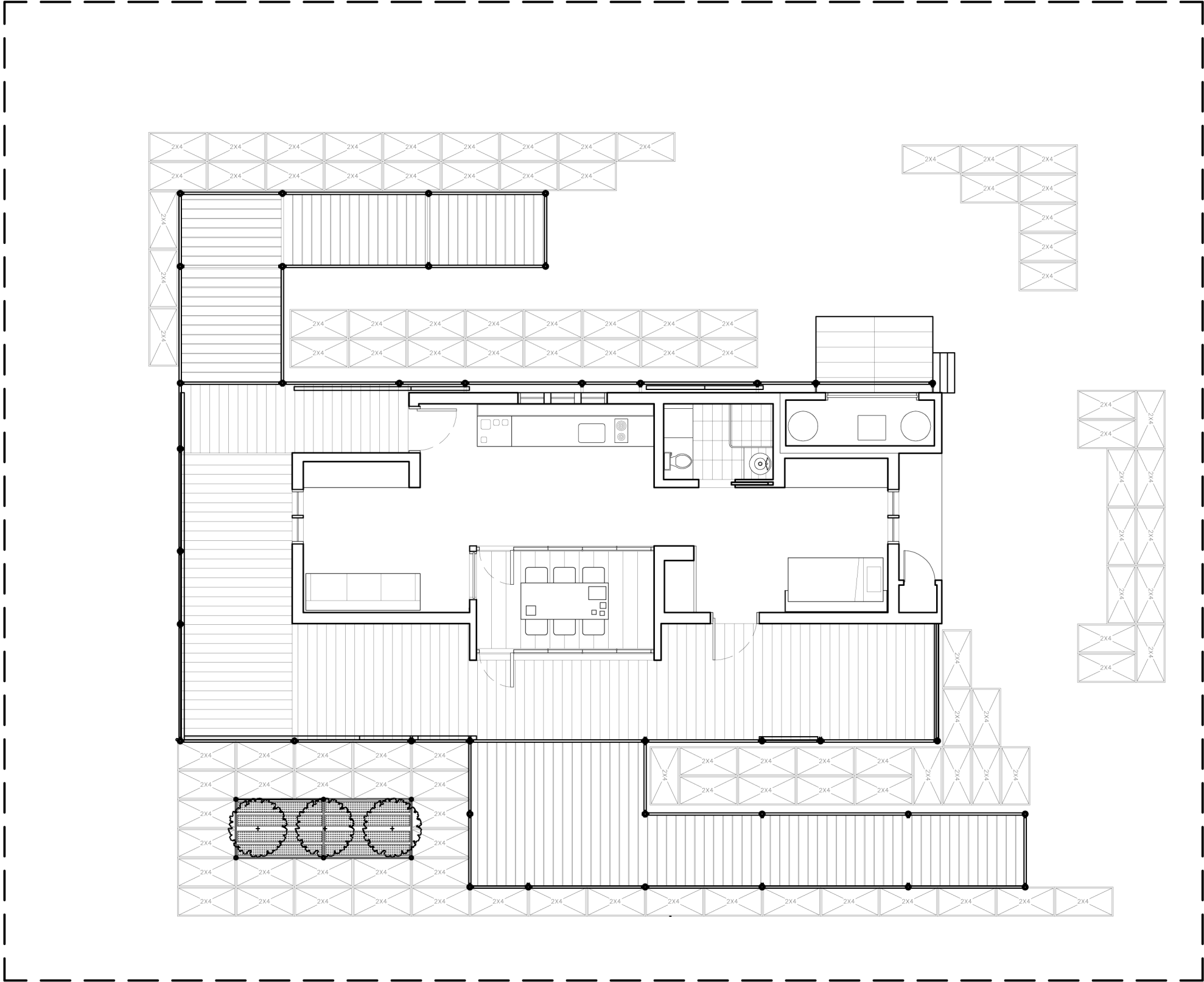
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Project: 2007 Solar Decathlon

File Name: AF-001.dwg

Drawn By: SFR

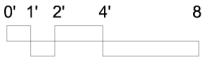
Reviewed By: SFR



1
LP100

LANDSCAPE PLANTING
TRAY PLAN

SCALE: 1/8" = 1'-0"



LP-100

LANDSCAPE
PLANTING
TRAY PLAN

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission

12/09/08 - As Built Submission

Seal:

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Project: 2007 Solar Decathlon

File Name: LP-100.dwg

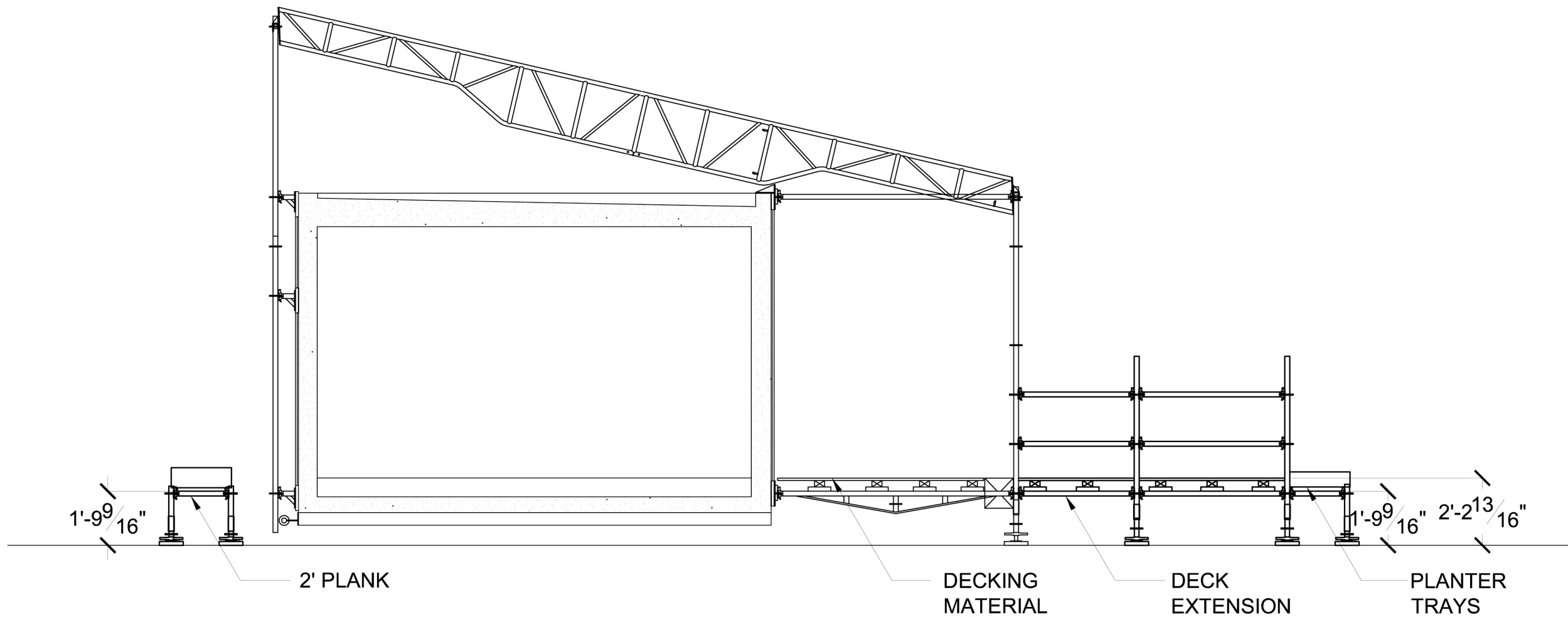
Drawn By: JCN

Reviewed By: DEB



SCALE: 1/8" = 1'-0"

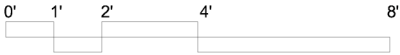
LP-102	Issue: 06/13/06 - DD Submission 07/28/06 - CD Submission 03/06/07- CD Submission II 08/07/07 - Final Submission 12/09/08 - As Built Submission	Seal:	Cornell University Solar Decathlon 909 Mitchell Street Ithaca, New York 14850 (607) 277 - 7475
			Project: 2007 Solar Decathlon
			File Name: LP-102.dwg
			Drawn By: JCN
			Reviewed By: DEB
LANDSCAPE SCAFFOLD PLAN			



1
LP500

WEST ELEVATION

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



Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As Built Submission

Seal:

Cornell University Solar Decathlon
909 Mitchell Street
Ithaca, New York 14850
(607) 277 - 7475

Project: 2007 Solar Decathlon

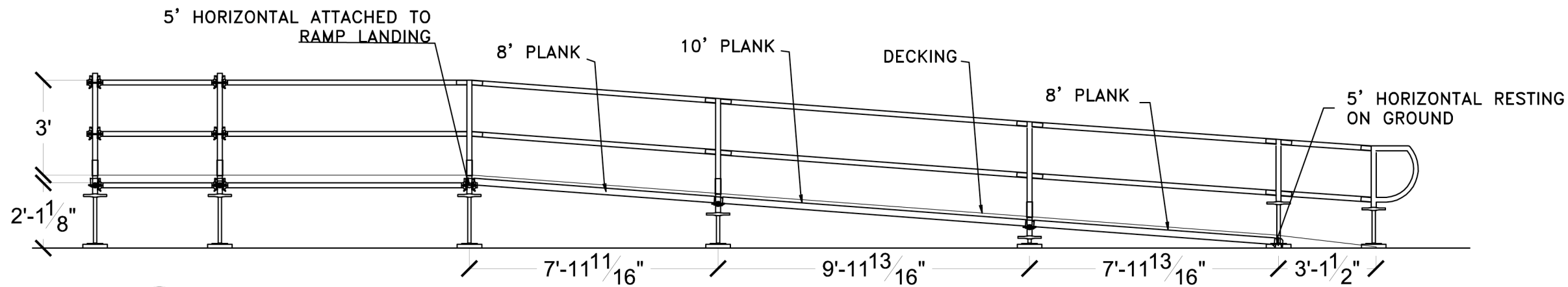
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Drawn By: SFR

Reviewed By: DEB

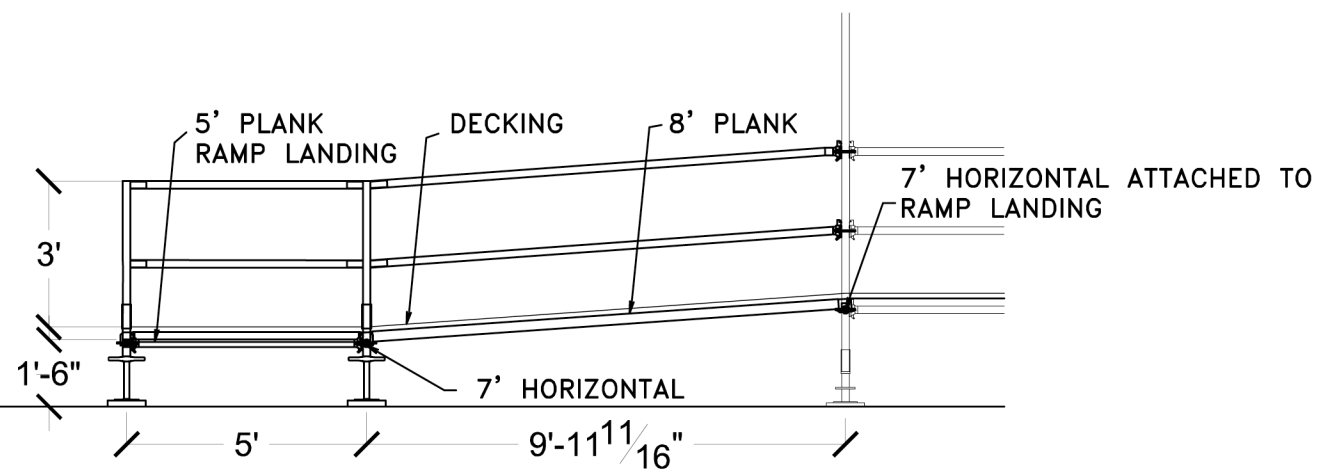
LP-500

SCAFFOLD
ELEVATIONS



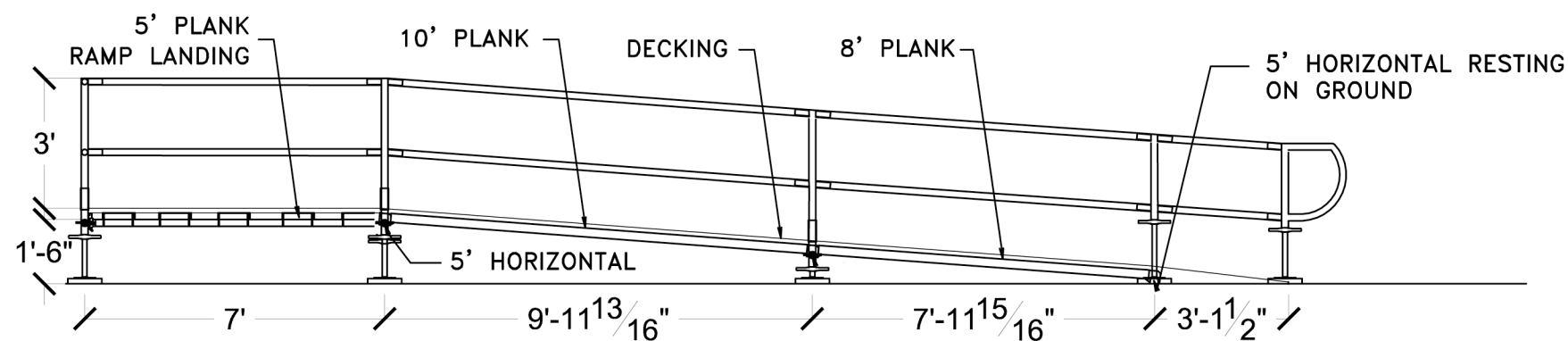
1 SOUTH EXIT RAMP
ELEVATION

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



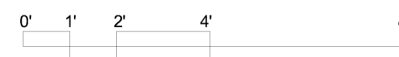
2 SECOND LEVEL NORTH
ENTRY RAMP ELEVATION

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

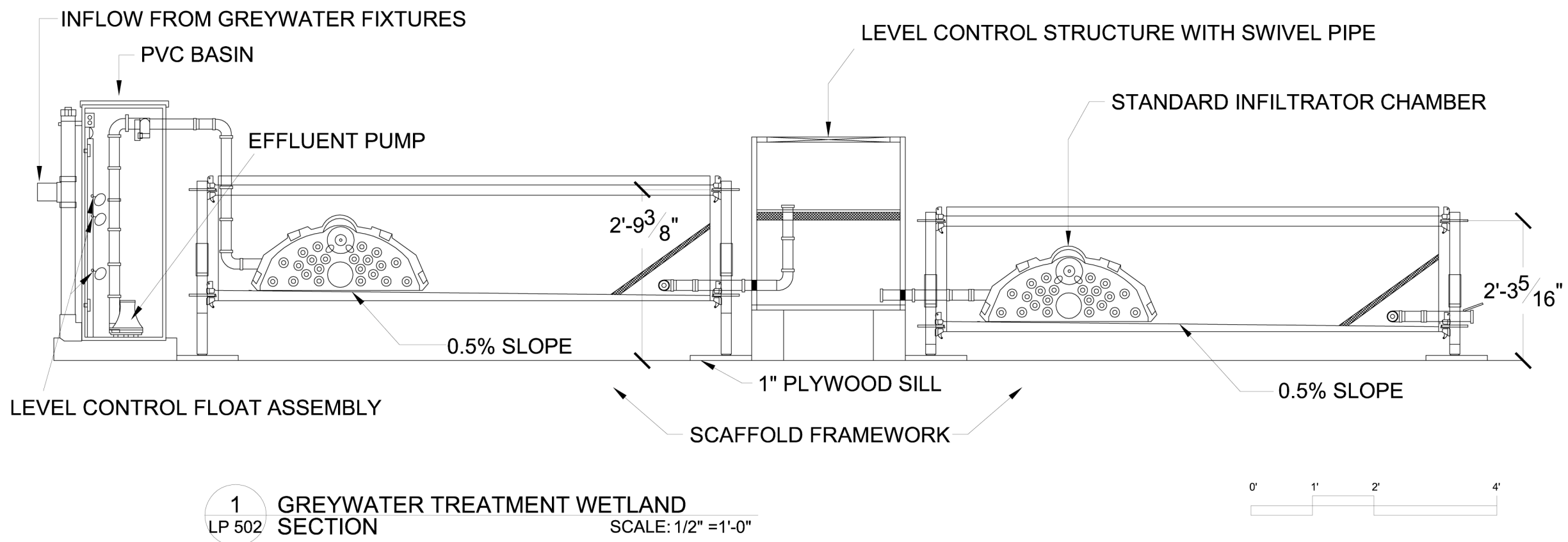
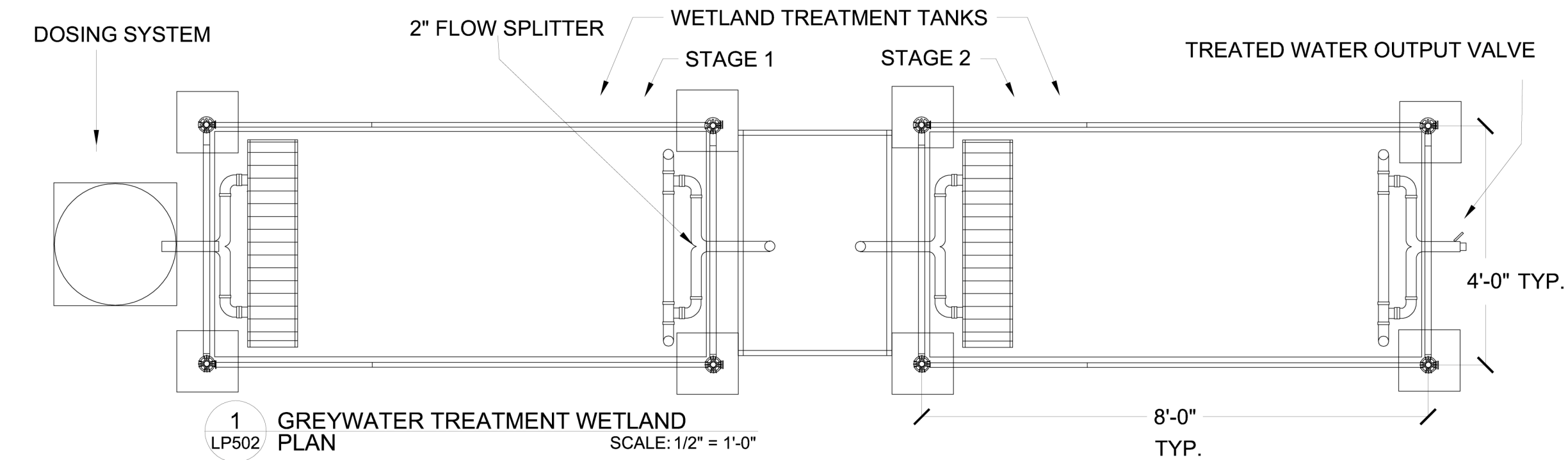


3 FIRST LEVEL NORTH
ENTRY RAMP ELEVATION

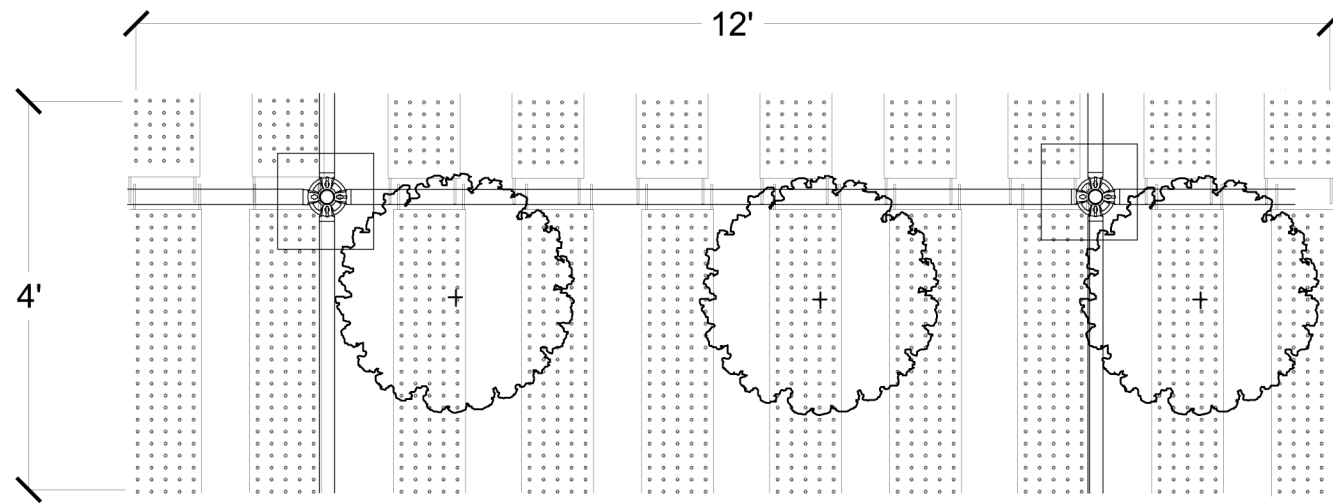
SCALE: 1/4" = 1'-0"



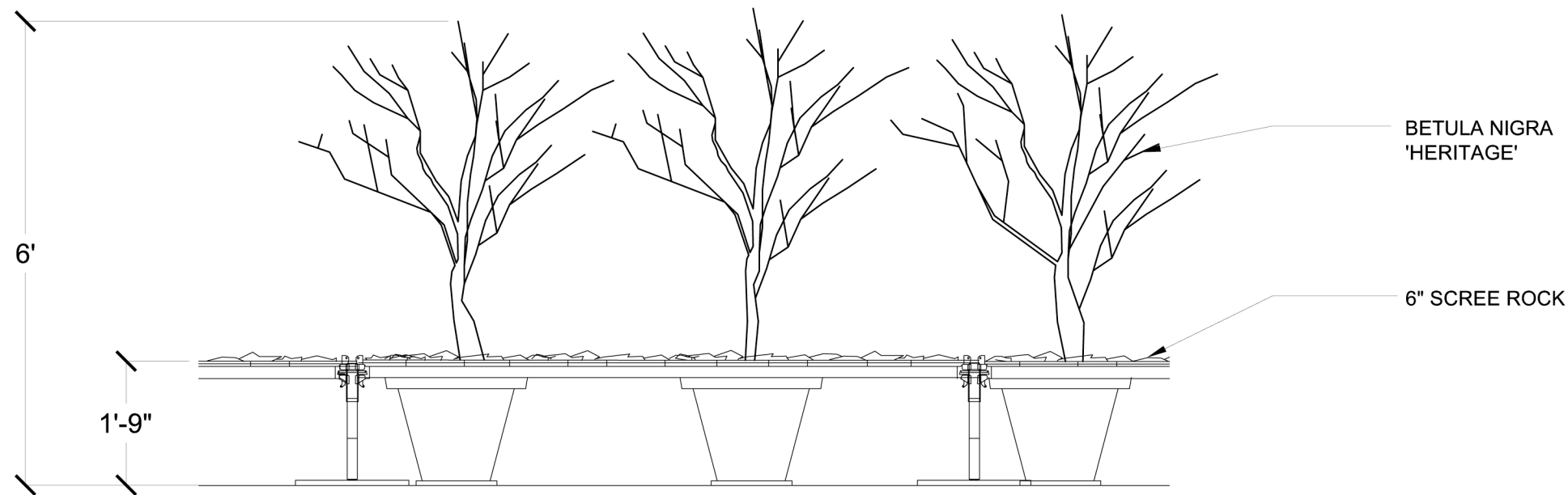
Cornell University Solar Decathlon 909 Mitchell Street Ithaca, New York 14850 (607) 277 - 7475		Project: 2007 Solar Decathlon	
		File Name: LP-501.dwg	
		Drawn By: SFR	
		Reviewed By: DEB	
Seal:			
Issue:		06/13/06 - DD Submission 07/28/06 - CD Submission 03/06/07 - CD Submission II 08/07/07 - Final Submission 12/09/08 - As Built Submission	
LP-501		RAMP ELEVATIONS	



LP-502	WETLAND DETAILS	Issue:		Seal:	Cornell University Solar Decathlon 909 Mitchell Street Ithaca, New York 14850 (607) 277 - 7475
		06/13/06 - DD Submission			
		07/28/06 - CD Submission			
		03/06/07 - CD Submission II			
		08/07/07 - Final Submission			
		12/09/08 - As Built Submission			Project: 2007 Solar Decathlon
					File Name: LP-502.dwg
					Drawn By: BCK
					Reviewed By: DEB



1 SCREE GARDEN PLAN
LP503 PLAN SCALE: 1/2" = 1'-0"



2 SCREE GARDEN SECTION
LP 503 SECTION SCALE: 1/2" = 1'-0"

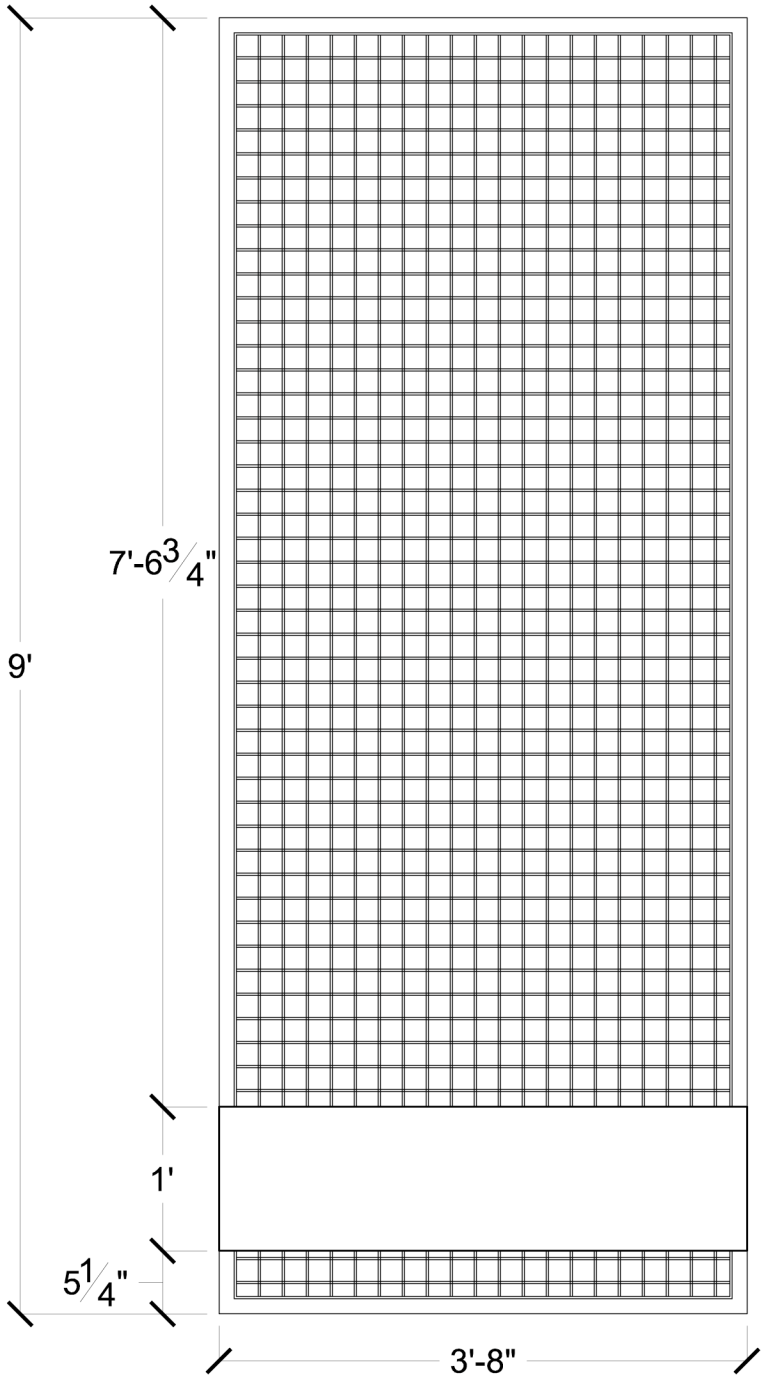


LP-503	Seal:	Issue:		Cornell University Solar Decathlon 909 Mitchell Street Ithaca, New York 14850 (607) 277 - 7475
		06/13/06 - DD Submission		
		07/28/06 - CD Submission		
		03/06/07 - CD Submission II		
		08/07/07 - Final Submission		
SCREE GARDEN	12/09/08 - As Built Submission		Project: 2007 Solar Decathlon	
			File Name: LP-503.dwg	
			Drawn By: JCN	
			Reviewed By: DEB	

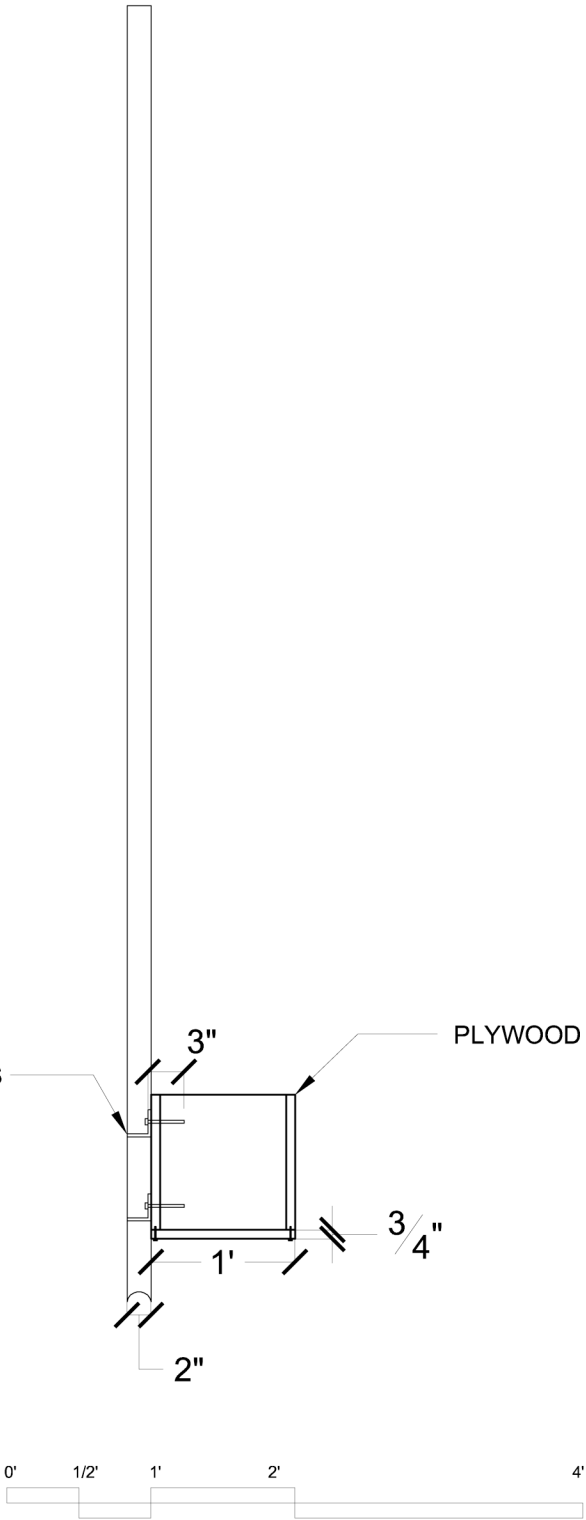
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LP-504

GREENSCREEN/PLANTER BOX ATTACHMENT
SECTION AND ELEVATION

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



SNAP L-BRACKETS



LP-504

GREENSCREENS

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission

12/09/08 - As Built Submission

Seal:

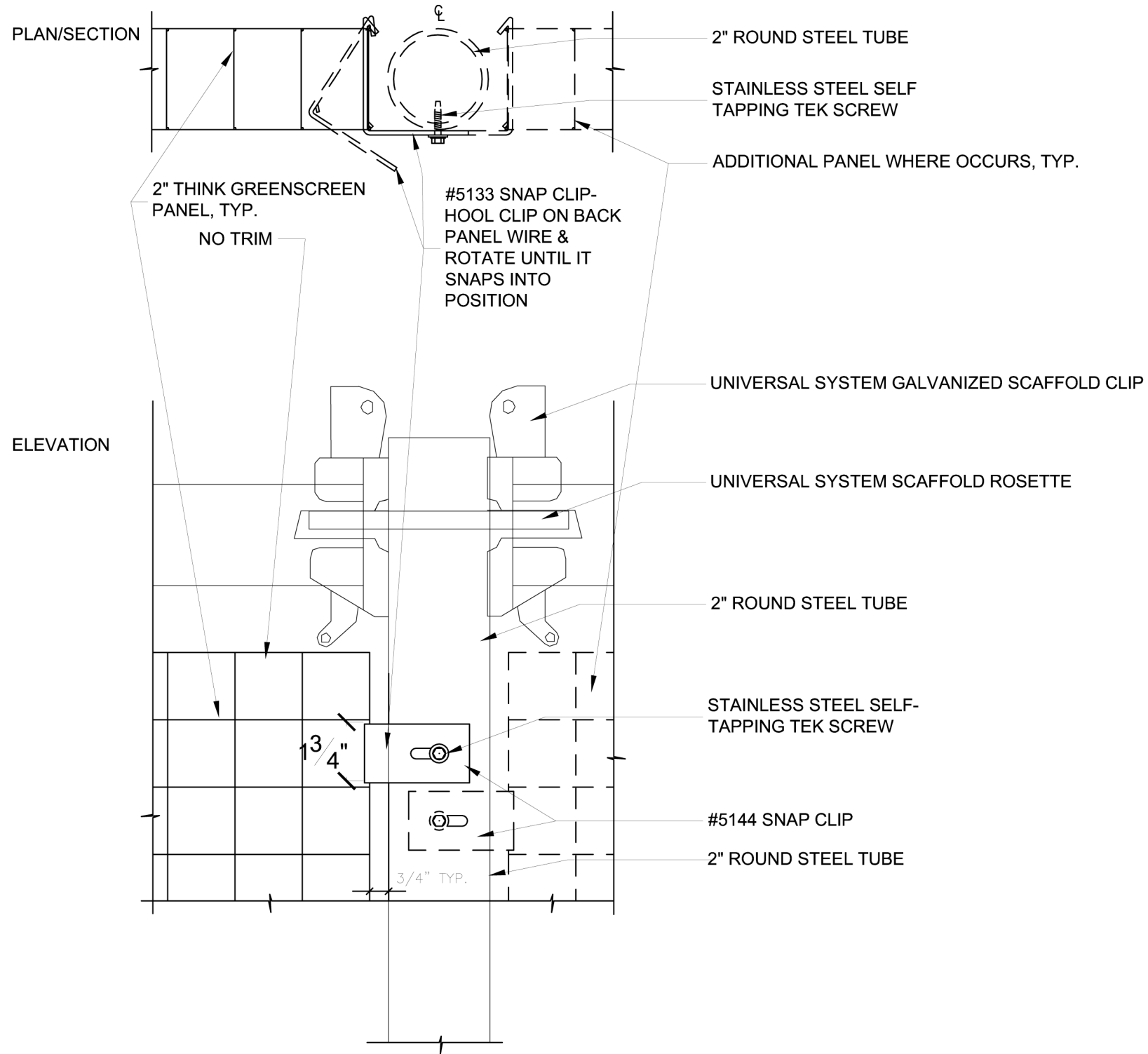
Cornell University Solar Decathlon
909 Mitchell Street
Ithaca, New York 14850
(607) 277 - 7475

Project: 2007 Solar Decathlon

File Name: LP-504.dwg

Drawn By: BCK/JCN

Reviewed By: DEB



LP-504.1	GREENSCREEN/ SCAFFOLD ATTACHMENT	Issue: 06/13/06 - DD Submission 07/28/06 - CD Submission 03/06/07 - CD Submission II 08/07/07 - Final Submission 12/09/08 - As Built Submission	Seal:	Cornell University Solar Decathlon 909 Mitchell Street Ithaca, New York 14850 (607) 277 - 7475
				Project: 2007 Solar Decathlon
				File Name: LP-504.1.dwg
				Drawn By: BCK/JCN
				Reviewed By: DEB

VEGETABLES	QTY OF POTS	COMMON NAME	SCIENTIFIC NAME	SIZE CONTAINER	COMMENTS
	36	Green Onions	Allium cepa 'White Spear'	1-gal	
	36	Chives	Allium tuberosum 'New Belt'	1-gal	
	54	Swiss Chard	Beta vulgaris subsp. Cicla 'Bright Lights'	1-gal	
	36	Mustard Greens	Brassica juncea 'Red Giant'	1-gal	
	54	Collards	Brassica oleracea 'Champion'	1-gal	
	54	Kale	Brassica oleracea 'Red Russian'	1-gal	
	12	Broccoli	Brassica oleracea var. botrytis 'Arcadia'	1-gal	
	12		Brassica oleracea var. botrytis 'Gypsy'	1-gal	
	54 (70)	Sweet Bell Peppers	Capsicum annuum 'Ace'	1-gal	
	72	Hot Peppers	Capsicum annuum 'Hot Pepper Latams'	1-gal	
	54 (70)	Sweet Bell Peppers	Capsicum annuum 'Sunray'	1-gal	
	54	Radicchio	Cichorium intybus 'Indigo'	1-gal	
	18	Cardoon	Cynara cardunculus 'Porto Spineless'	2-gal	
	54	Lettuce	Lactuca sativa 'Outredgeous'	1-gal	
	36		Lactuca sativa 'Tropicana'	1-gal	
	36	Basil	Ocimum basilicum 'Genovese'	1-gal	
	54		Ocimum basilicum 'Red Rubin'	1-gal	
	36	Parsley	Petroselinum crispum 'Italian Dark Green'	1-gal	
	36	Bush Beans	Phaseolus vulgaris 'Carson'	1-gal	
	18		Phaseolus vulgaris 'Royal Burgundy'	1-gal	
	36	Rosemary	Rosmarinus officinalis	1-gal	
	36	Sage	Salvia officinalis	1-gal	
	12	Eggplant	Solanum melongena 'Machiaw'	2-gal	
	6		Solanum melongena 'Orient Express'	2-gal	
	6		Solanum melongena 'Tango'	2-gal	
	54	Spinach	Spinacia oleracea 'Spargo'	1-gal	
	36	Marigold	Tagetes tenuifolia 'Tangerine Gem'	1-gal	
	72	Viola	Viola spp. 'Penny All Season'	1-gal	
	1074 = TOTAL				

WETLAND	QTY OF POTS	COMMON NAME	SCIENTIFIC NAME	SIZE CONTAINER	COMMENTS
	24	Giant Leaf Yarrow	Achillea macrophylla	2-gal	
	24	Blue Wood Sedge	Carex flaccosperma	1-gal	
	32	Tussock Sedge	Carex stricta	1-gal	
	32	Snakeroot	Eupatorium Rugosum 'Chocolate'	1-gal	
	32	Rushes	Juncus Effusus	4" plug	
	24	Iris	Iris	1-gal	
	8	Sweetspire	Itea virginica	1-gal	
	40	Lemon Balm	Melissa officinalis	4"	
	32	Giant Coneflower	Rudbeckia maxima	1-gal	
	8	Shrub Willow	Salix	2-gal	
	40	Lizard Tail	Saururus cernuus	4"	
	40	Coleus	Solenostemon	4"	
	336 = TOTAL				

ORNAMENTALS	QTY OF POTS	COMMON NAME	SCIENTIFIC NAME	SIZE CONTAINER	COMMENTS
	27	American Sweet Flag	Acorus calamus	8"	
	27	Big Blue Stem	Andropogon gerardii	8"	
	27	Feather Reed Grass 'Karl Foerster'	Calamagrostis x acutiflora 'Karl Foerster'	8"	
	27	Blue Fescue	Festuca ovina glauca 'Elijah Blue'	8"	
	27	Lavender 'Dilly Dilly'	Lavendula x intermedia 'Dilly Dilly'	8"	
	27	Siler Grass 'Femer Osten'	Miscanthus sinensis 'Femer Osten'	8"	
	27	Purple Moor Grass	Molinia caerulea spp. Arudinacea 'Strahlenquelle'	8"	
	27	Mexican Feather Grass	Nassella tenuissima	8"	
	27	Switchgrass	Panicum virgatum	8"	
	27	Purple Fountain Grass	Pennisetum setaceum 'Rubrum'	8"	
	27	Russian Sage 'Little Spire'	Perovskia atriplicifolia 'Little Spire'	8"	
	27	Strawberries and Cream' Ribbon Grass	Phalaris arundinacea 'Feezy's Variety'	8"	
	27	New Zealand Flax	Phormium 'Baby Bronze'	8"	
	27	Little Blue Stem 'Prairie Embers'	Schizachyrium scoparium 'Prairie Embers'	8"	
	27	Autumn Joy' Stonecrop	Sedum 'Autumn Joy'	8"	
	27	Bertram Anderson' Stonecrop	Sedum 'Bertram Anderson'	8"	
	27	Iceberg' Stonecrop	Sedum spectabile 'Iceberg'	8"	
	27	Lamb's Ear 'Silver Carpet'	Stachys byzantina 'Silver Carpet'	8"	
	3	Heritage River Birch	Betula nigra 'Heritage'	1.5" caliper, 4' spread	multi-stem, uniform
	489 = TOTAL				

GREENSCREENS	QTY OF POTS	COMMON NAME	SCIENTIFIC NAME	SIZE CONTAINER	COMMENTS
	19	Hops	Humulus 'Nugget'	1-gal	
	18	Hops	Humulus 'Cascade'	2-gal	
	37 = TOTAL				

LP-505

PLANT SCHEDULE

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission

12/09/08 - As Built Submission

Seal:

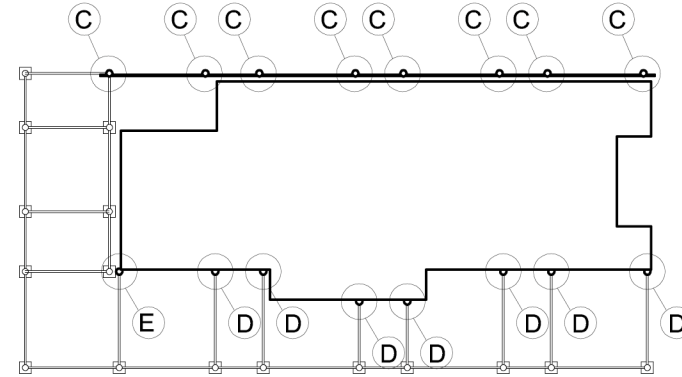
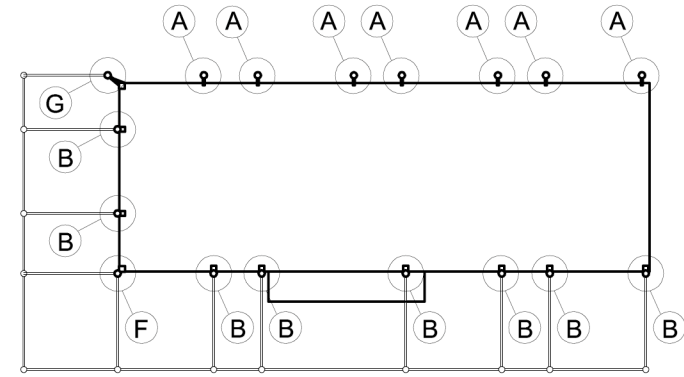
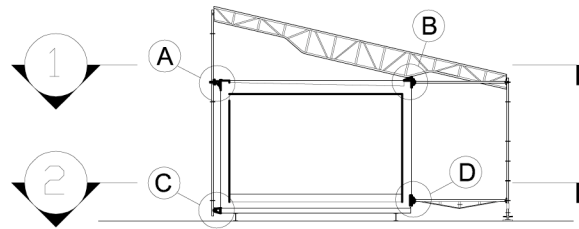
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Project: 2007 Solar Decathlon

File Name: LP-505.dwg

Drawn By: BCK/JCN

Reviewed By: DEB



1 KEY SECTION
SS 500

SCALE: NTS

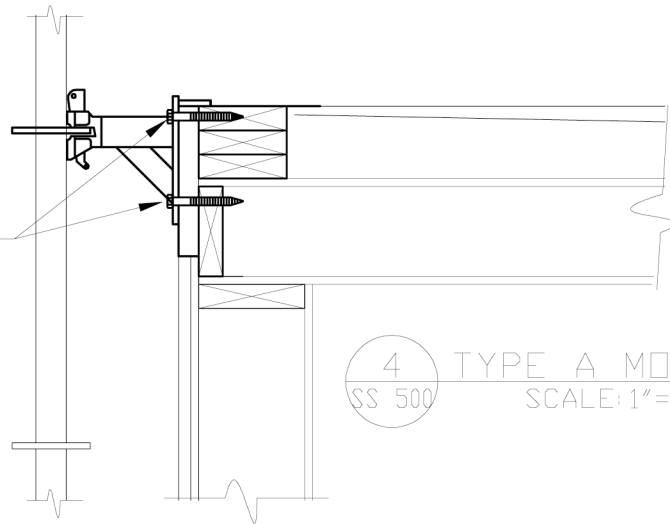
2 ROOF KEY PLAN
SS 500

SCALE: NTS

3 DECK KEY PLAN
SS 500

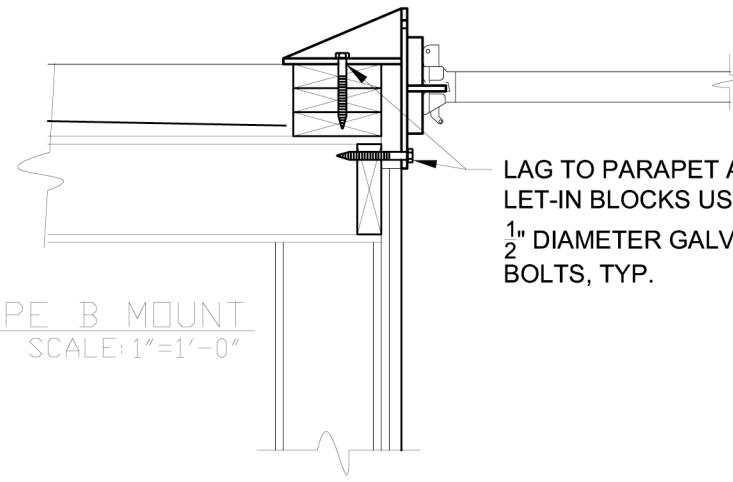
SCALE: NTS

LAG TO PARAPET AND SIP LET-IN
BLOCKS WITH FOUR $\frac{1}{2}$ " DIAMETER
GALVANIZED LAG BOLTS, TYP.



4 TYPE A MOUNT
SS 500 SCALE: 1"=1'-0"

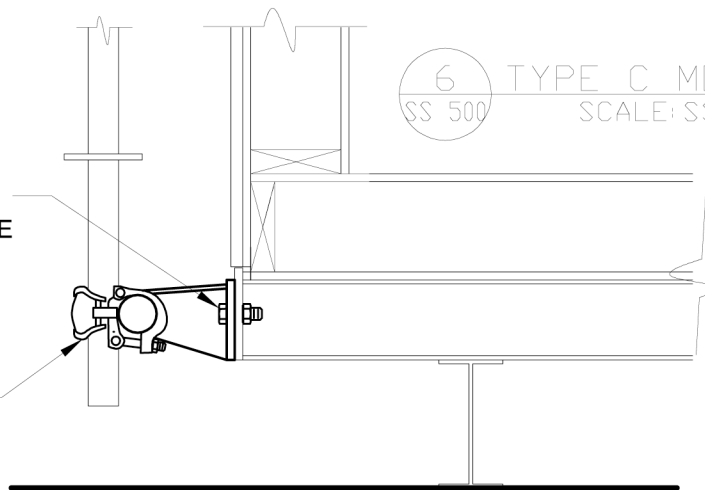
LAG TO PARAPET AND SIP
LET-IN BLOCKS USING FOUR
 $\frac{1}{2}$ " DIAMETER GALVANIZED LAG
BOLTS, TYP.



5 TYPE B MOUNT
SS 500 SCALE: 1"=1'-0"

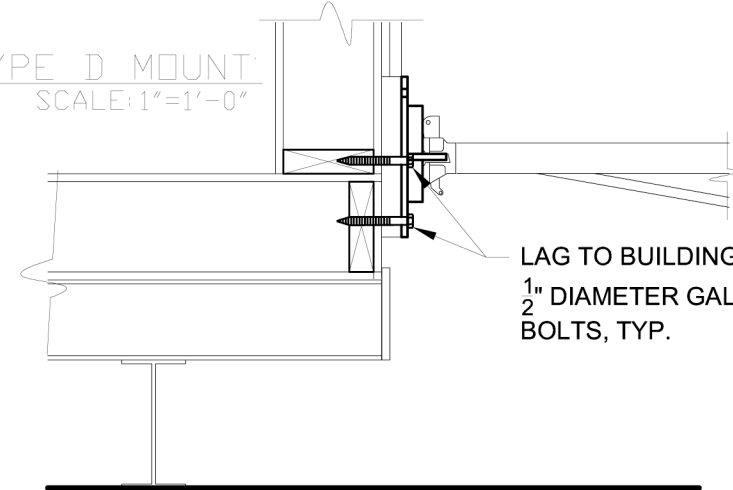
BOLT TO STEEL SUBFRAME
USING TWO $\frac{3}{4}$ " DIAMETER GRADE
8 BOLTS, TYP.

CLAMP VERTICAL MEMBERS
TO LONGITUDINAL BALLERINA
BAR USING CLAM-SHELL
CONNECTORS



6 TYPE C MOUNT
SS 500 SCALE: SS 500

LAG TO BUILDING WITH FOUR
 $\frac{1}{2}$ " DIAMETER GALVANIZED LAG
BOLTS, TYP.



7 TYPE D MOUNT
SS 500 SCALE: 1"=1'-0"

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File Name: SS-500.dwg

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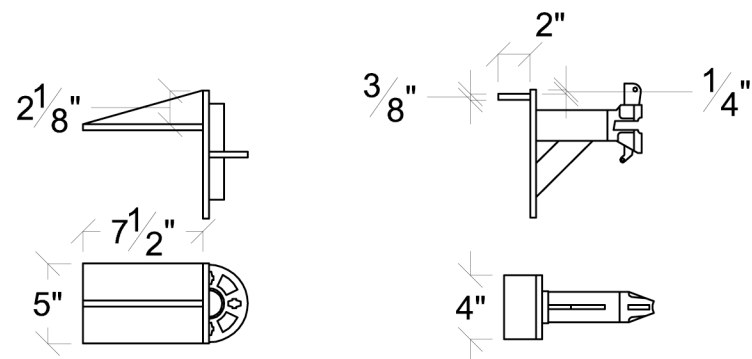
Seal:

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As Built Submission

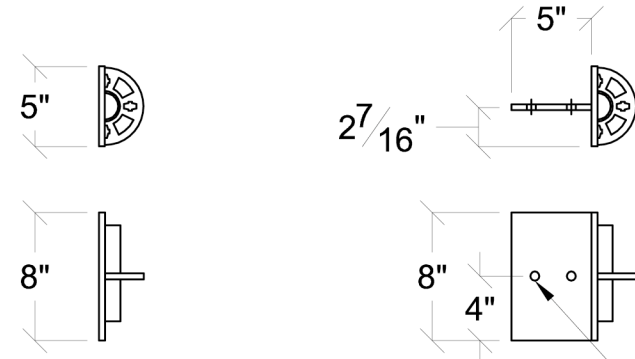
SS-500

CANOPY
CONNECTION
DETAILS



BRACKET A

BRACKET B

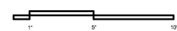


BRACKET D

BRACKET E

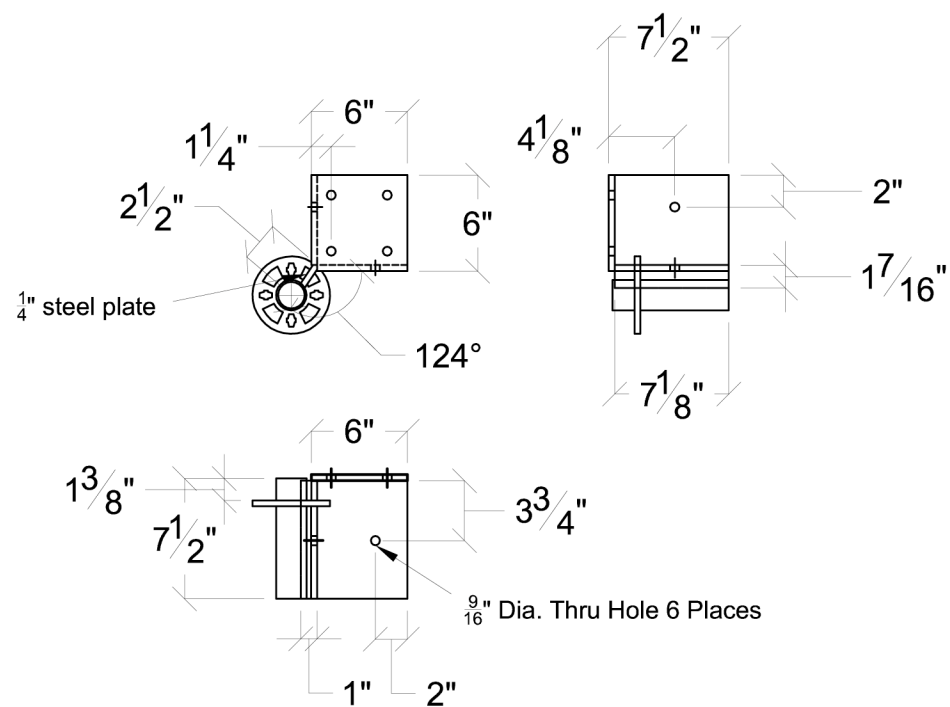
A1
SS501 BRACKET A AND B

SCALE: 1" = 1'-0"



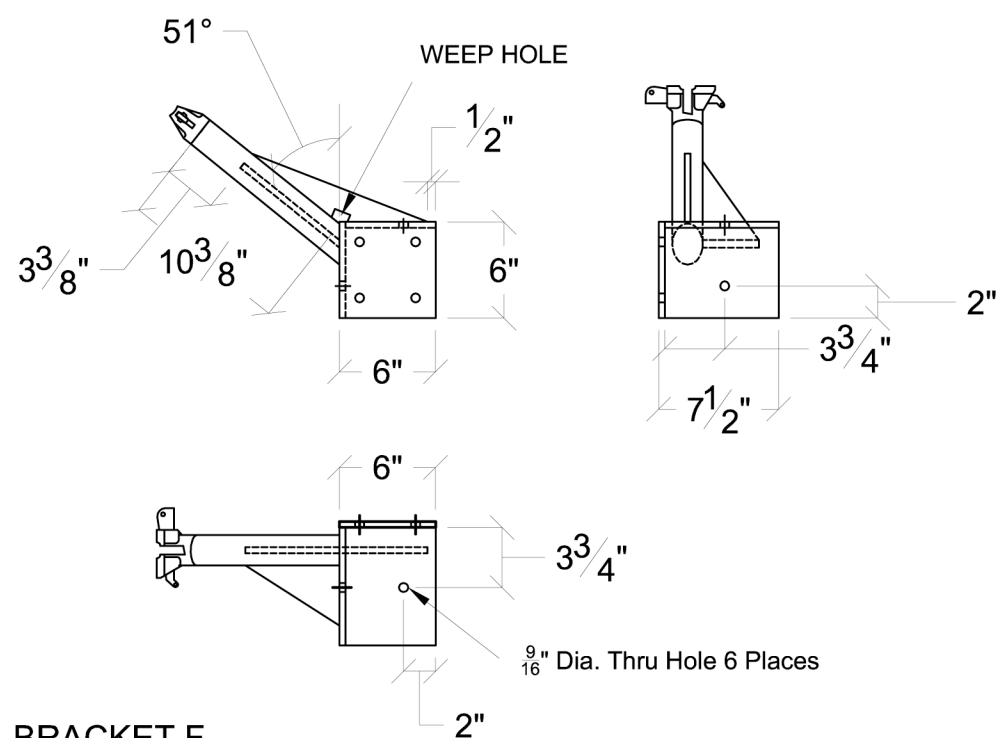
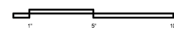
A2
SS501 BRACKET D AND E

SCALE: 1" = 1'-0"



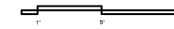
A3
SS501 BRACKET F

SCALE: 1" = 1'-0"



A4
SS501 BRACKET F

SCALE: 1" = 1'-0"



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File Name: SS - 501.dwg

Drawn By: DEB / KBD

Reviewed By: SFR

Seal:

Issue:
06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As Built Submission

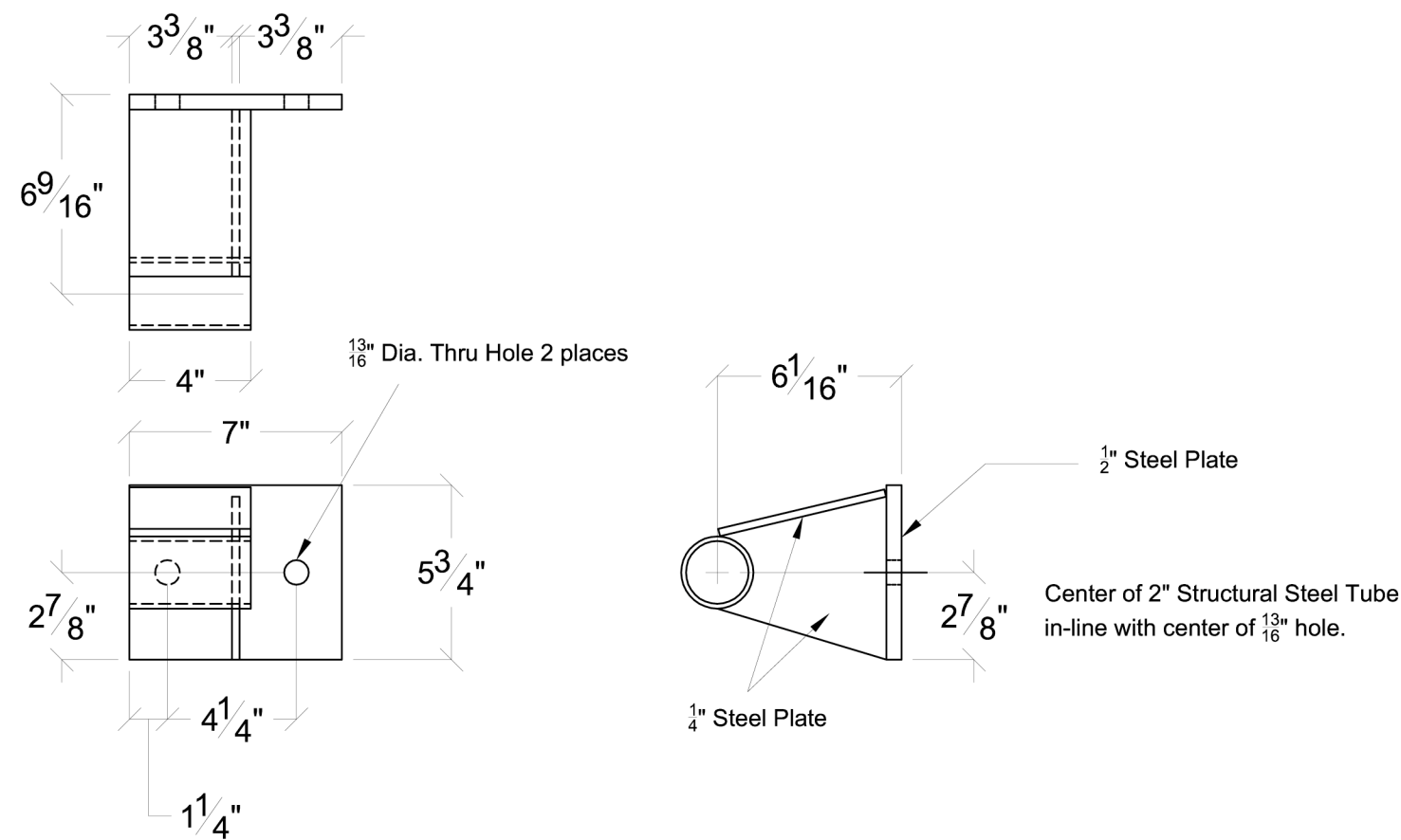
SS-501

STRUCTURAL
STEEL
DETAILS

A1
SS101

C BRACKET DETAIL

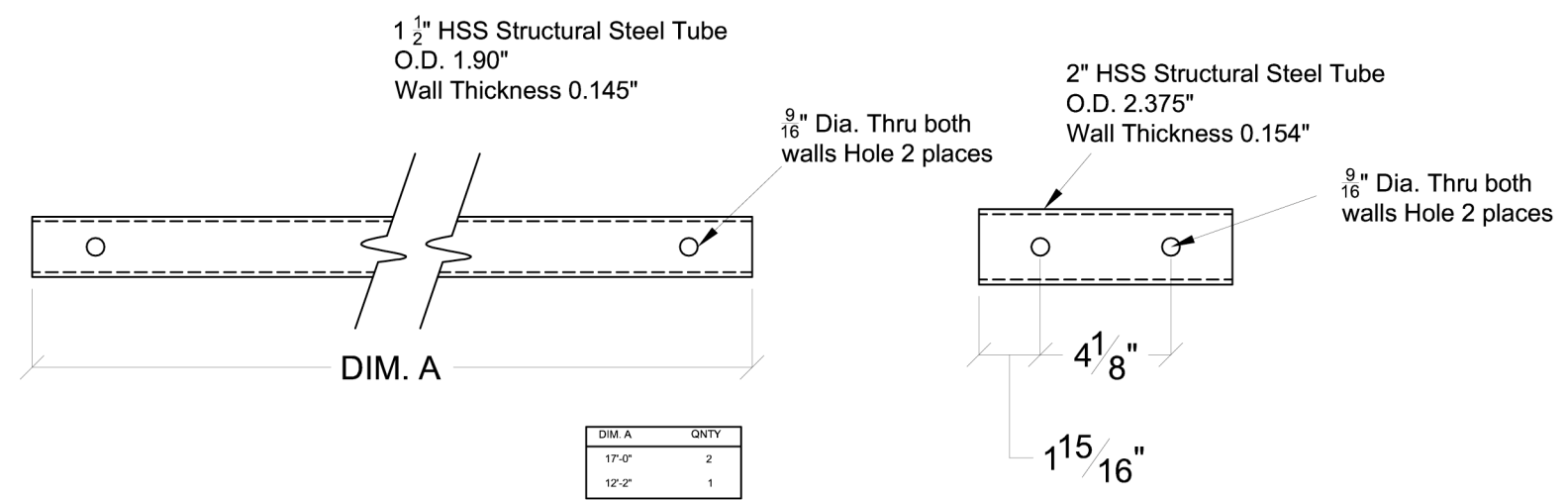
SCALE: 2" = 1'-0"



A2
SS101

BALLERINA BAR AND CONNECTORS

SCALE: 2" = 1'-0"



Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As Built Submission

SS-502

STRUCTURAL
STEEL
DETAILS

Seal:

Cornell University Solar Decathlon

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Ithaca, New York 14850

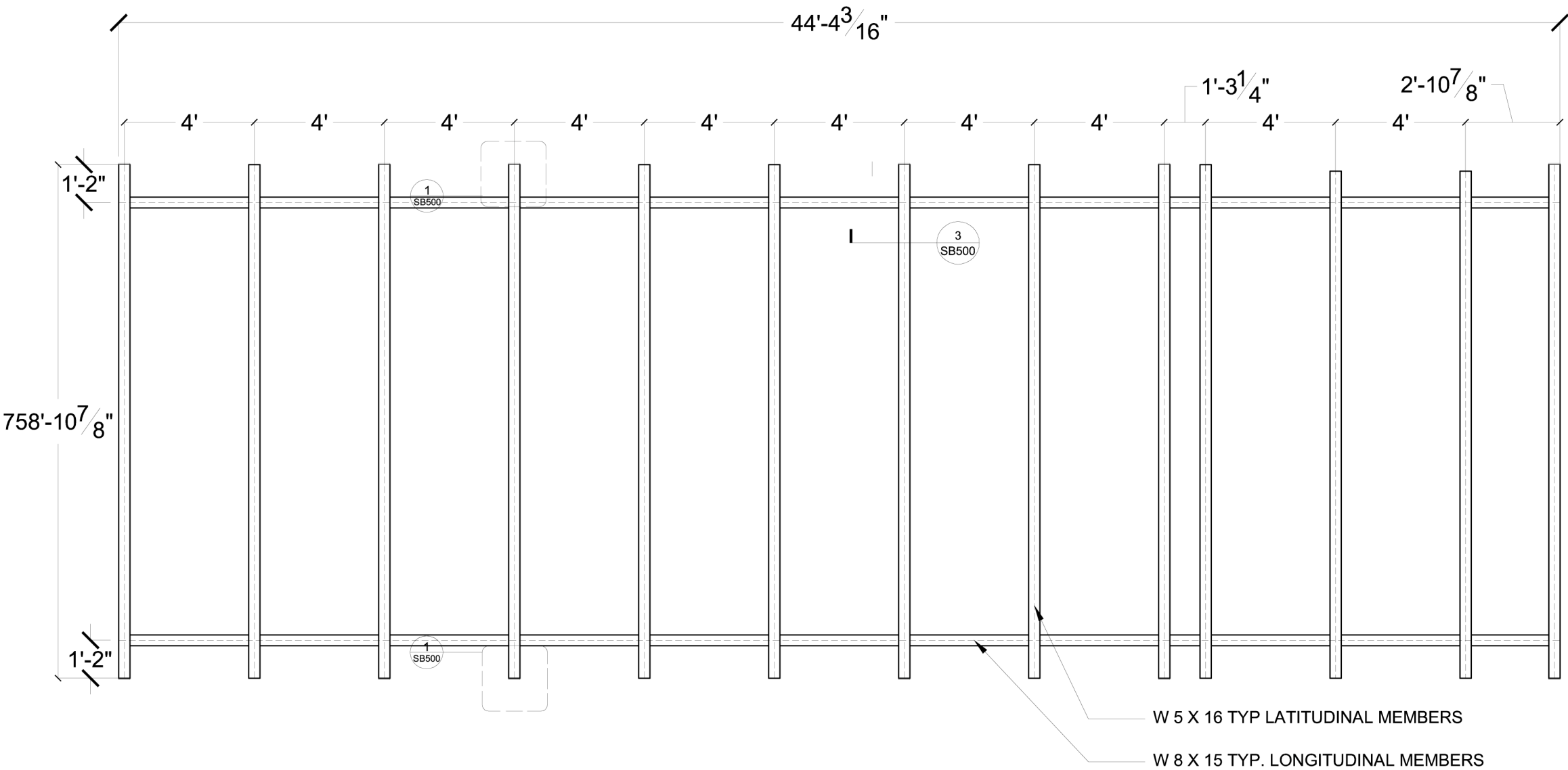
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Project: 2007 Solar Decathlon

File Name: GI-001.dwg

Drawn By: ARA

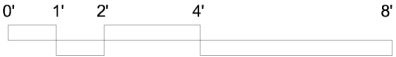
Reviewed By: SFR



1
SB100

STRUCTURAL
SUBSTRUCTURE PLAN

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



SB-100

STRUCTURAL
SUBSTRUCTURE
PLAN

Issue:

- 06/13/06 - DD Submission
- 07/28/06 - CD Submission
- 03/06/07 - CD Submission II
- 08/07/07 - Final Submission
- 12/09/08 - As Built Submission

Seal:

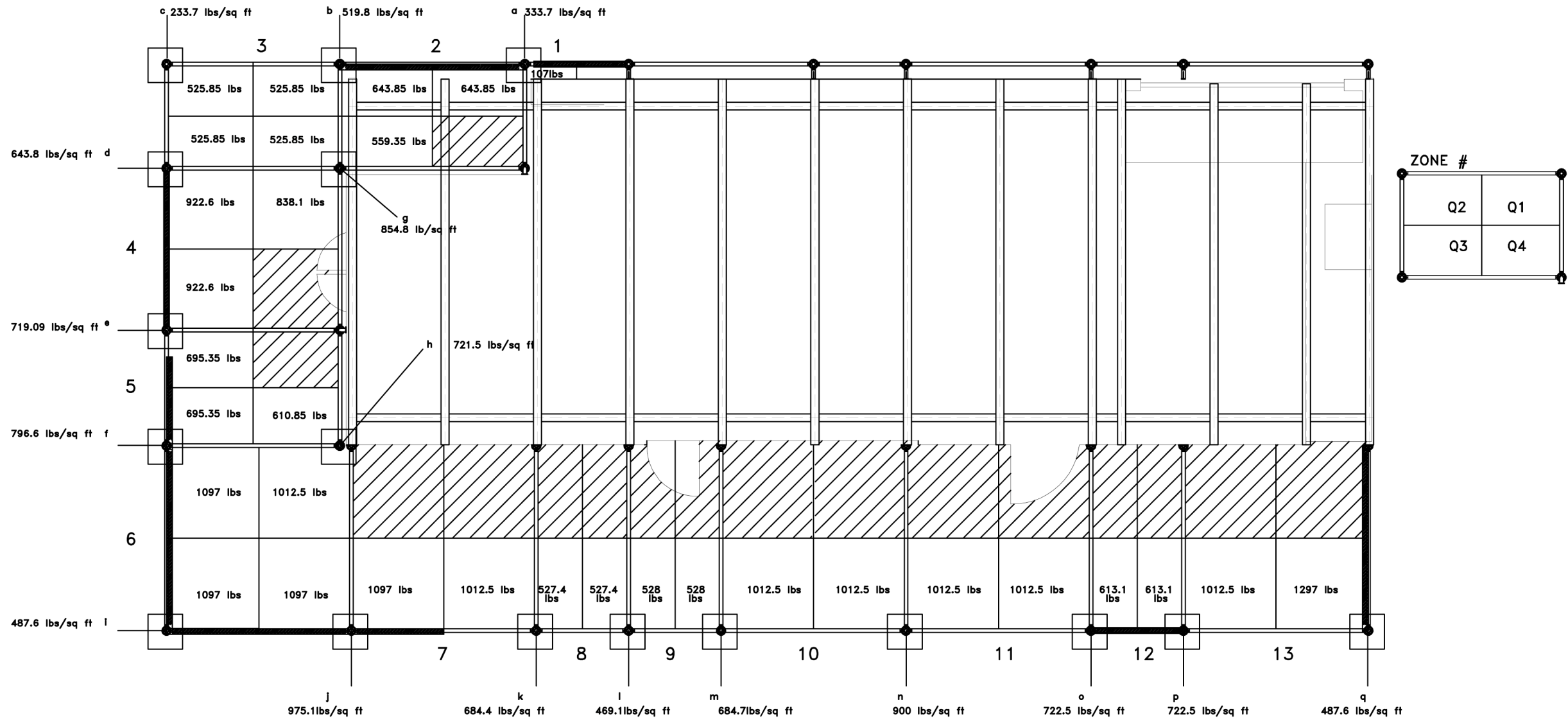
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Project: 2007 Solar Decathlon

File Name: SB-100.dwg

Drawn By: SFR

Reviewed By: SFR



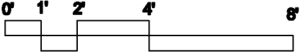
DISTRIBUTIVE WEIGHT CALCULATIONS OF CANOPY:

	BOX 2				BOX 3				BOX 4				BOX 5				
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
weight of canopy	133.25	same		48.75	house	47.65	same	47.65	same	50.3	134.8	same	house	house	132.55	same	48.05
weight of deck	85.1			85.1		79.7		79.7		131.3	131.3				93.8		93.8
weight of people	425.5			425.5		398.5		398.5		666.5	666.5				469		469
total	643.85			559.35		525.85		525.85		838.1	922.6				695.35		610.85

	BOX 6		BOX 7		BOX 8		BOX 9		BOX 10		BOX 11		BOX 12		BOX 13		
	Q1	Q2, Q3, Q4	Q3	Q4	Q3	Q4	Q3	Q4	Q3	Q4	Q3	Q4	Q3	Q4	Q3	Q4	
weight of canopy	52.5	137	137	137	52.5	48	same	48	same	52.5	same	52.5	same	132.5	same	52.5	137
weight of deck	160	160	160	160	160	79.9		80		160		160		80.1		160	160
weight of people	800	800	800	800	800	399.5		400		800		800		400.5		800	800
total	1012.5	1097	1097	1012.5	527.4			528		1012.5		1012.5		613.1		1012.5	1097

POUNDS PER SQUARE FOOT ON EACH CANOPY FOOTER:

	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q
sum of weights	750.85	1169.7	525.85	1448.45	1617.95	1792.35	1923.3	1623.35	1097	2194	1539.9	1055.4	1540.5	2025	1625.6	1625.6	1097
lbs/sq ft w. 18" sq base	333.7111111	519.8667	233.7111	643.7556	719.0889	796.6	854.8	721.4889	487.5556	975.1111	684.4	469.0667	684.6667	900	722.4889	722.4889	487.5556



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Project: 2007 Solar Decathlon

File Name: SB-101.dwg

Drawn By: JCN

Reviewed By: DEB

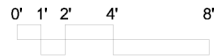
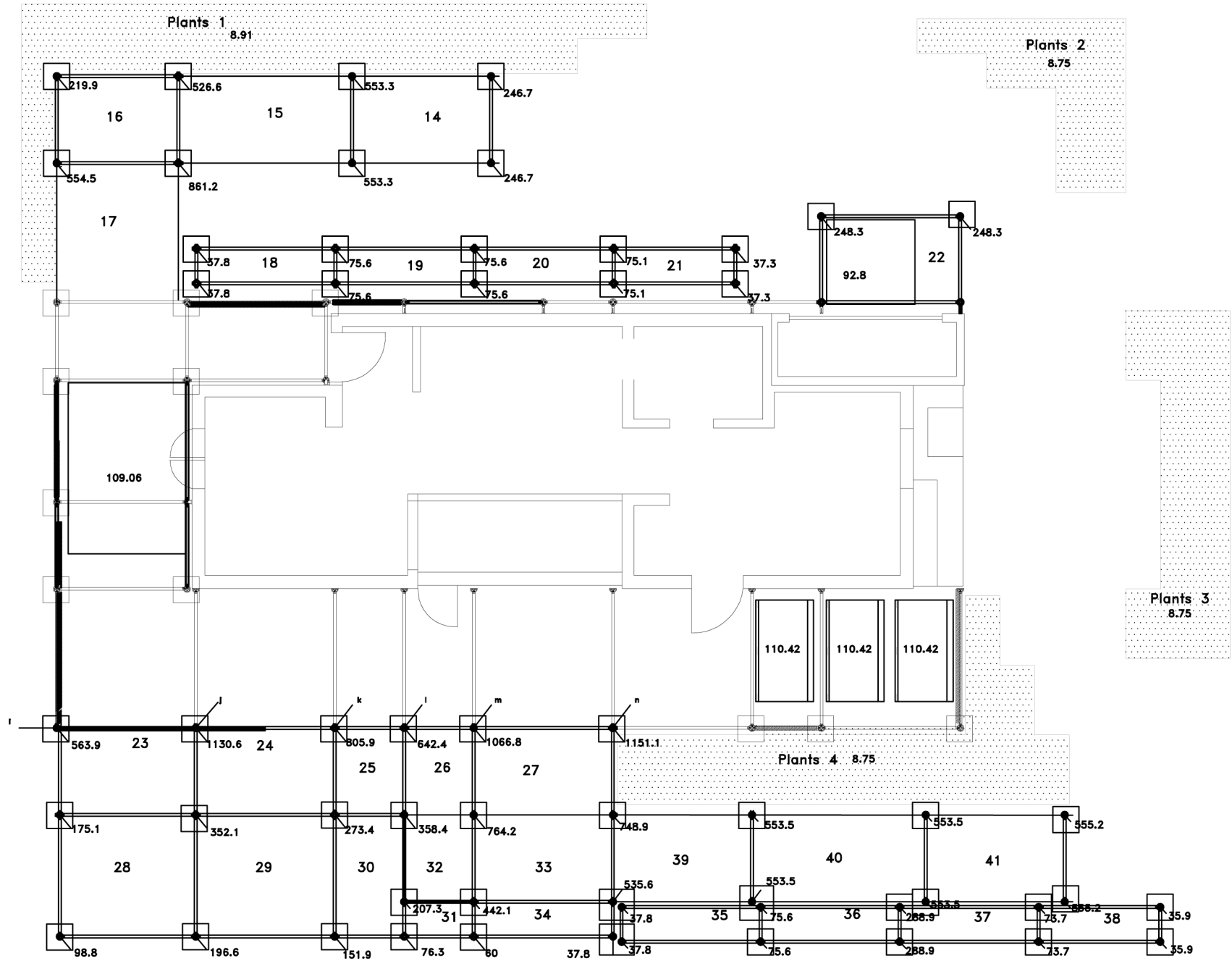
Seal:

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As-Built Submission

SB-101

CANOPY
SOIL
BEARING
CAPACITY



SB-102

LANDSCAPE SOIL BEARING CAPACITY

Issue:
06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As-Built Submission

Seal:

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Project: 2007 Solar Decathlon

File Name: SB-102.dwg

Drawn By: JCN

Reviewed By: DEB

DISTRIBUTIVE WEIGHT CALCULATIONS FOR ALL LANDSCAPE SCAFFOLDING:

Landscape Scaffold	Box 14	Box 15	Box 16	Box 17	Box 18	Box 19	Box 20	Box 21	Box 22	Box 23	Box 24	Box 25	Box 26	Box 27
weight of scaffold	220.8	260.8	230.4	264.8	200.2	200.2	200.2	195.8	259.8	266.8	257.8	170.8	179	259.8
weight of people	1999.5	2499	1749	2746.5	0	0	0	0	1975	0	0	0	1000	2000
weight of plants	0	0	0	0	140	140	140	140	0	420	455	210	0	0
total weight (lbs)	2220.3	2759.8	1979.4	3011.3	340.2	340.2	340.2	335.8	2234.8	686.8	712.8	380.8	1179	2259.8
divide by 4 equal footers	555.075	689.95	494.85	752.825	85.05	85.05	85.05	83.95	558.7	171.7	178.2	95.2	294.75	564.95

	Box 28	Box 29	Box 30	Box 31	Box 32	Box 33	Box 34	Box 35	Box 36	Box 37	Box 38	Box 39	Box 40	Box 41
weight of scaffold	329.2	320.2	206.5	130.2	179	259.8	200.2	200.2	200.2	200.2	182.8	220.8	260.8	220.8
weight of people	0	0	0	0	1000	2000	0	0	0	0	0	2000	2500	2000
weight of plants	560	560	280	70	0	0	140	140	140	140	140	0	0	0
total weight (lbs)	889.2	880.2	486.5	200.2	1179	2259.8	340.2	340.2	340.2	340.2	322.8	2220.8	2760.8	2220.8
divide by 4 equal footers	222.3	220.05	121.625	50.05	294.75	564.95	85.05	85.05	85.05	85.05	80.7	555.2	690.2	555.2

POUNDS PER SQUARE FOOT ON EACH CANOPY FOOTER:

	footer 14	footer 14/15	footer 15/16	footer 16	footer 15/16/17	footer 16/17	footer 18	footer 18/19	footer 19/20	footer 20/21	footer 21	footer 22	footer 23/1	footer 23/24/1
total weight lbs	555.075	1245.025	1184.8	494.85	1937.625	1247.675	85.05	170.1	170.1	169	83.95	558.7	1268.7	2543.9
lbs/sq foot with 18" base	246.7	553.3444444	526.5777778	219.9333	861.1666667	554.5222222	37.8	75.6	75.6	75.11111111	37.31111111	248.311111	563.866667	1130.62222

	footer 24/25/1	footer 25/26/1	footer 26/27/1	footer 27/1	footer 27/33/39	footer 27/33/32/26	footer 25/26/30/32	footer 25/24/29/30	footer 28/29/23/24	footer 28/23	footer 28	footer 28/29	footer 29/30	footer 30/32/1
total weight lbs	1813.3	1445.35	2400.2	2589.95	1685.1	1719.4	806.325	615.075	792.25	394	222.3	442.35	341.675	466.425
lbs/sq foot with 18" base	805.9111111	642.3777778	1066.755556	1151.088889	748.9333333	764.1777778	358.3666667	273.3666667	352.1111111	175.1111111	98.8	196.6	151.855556	207.3

	footer 30/31	footer 32/33/31/34	footer 31/34	footer 34	footer 33/34/39	footer 35	footer 35/36	footer 36/27	footer 37/38	footer 38	footer 39/40	footer 40/41	footer 41
total weight lbs	171.675	994.8	135.1	85.05	1205.2	85.05	170.1	650	165.75	80.7	1245.4	1245.4	555.2
lbs/sq foot with 18" base	76.3	442.1333333	60.04444444	37.8	535.6444444	37.8	75.6	288.8888889	73.66666667	35.86666667	553.511111	553.511111	246.755556

DISTRIBUTIVE WEIGHT CALCULATION FOR LANDSCAPE PLANTERS:

	Plants 1	Plants 2	Plants 3	Plants 4
total weight of plants	1400	560	840	1120
square footage	157.08	64	96	128
lbs/ sq foot	8.912655971	8.75	8.75	8.75

FOR WATER TANKS:

	west tank	north tank
tank volume cubic feet	116.16	36.76
cubic feet to lbs	7238.71	2290.75
square footage of tank	66.375	24.68
lbs/sq foot	109.0577778	92.81807131

FOR BATTERIES:

	south batteries
weight of batteries and box	2140
square footage	19.38
lbs/sq foot	110.4231166

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File Name: SB-102.1dwg

Drawn By: JCN

Reviewed By: DEB

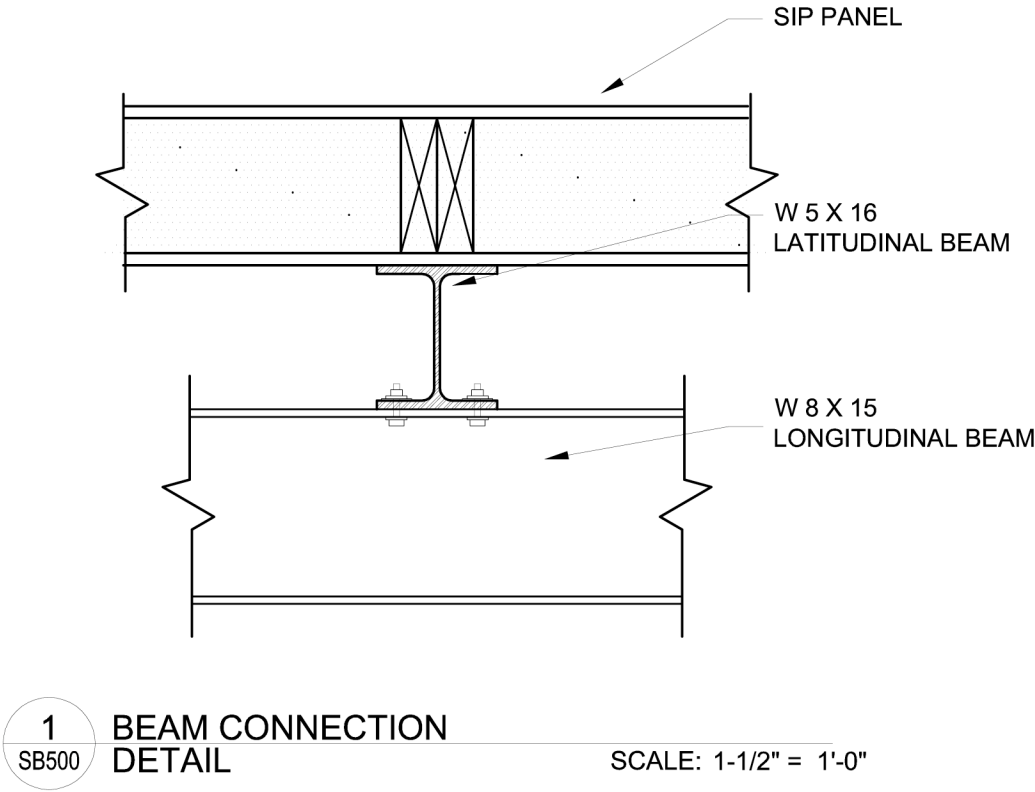
Seal:

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As-Built Submission

SB-102.1

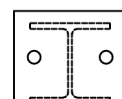
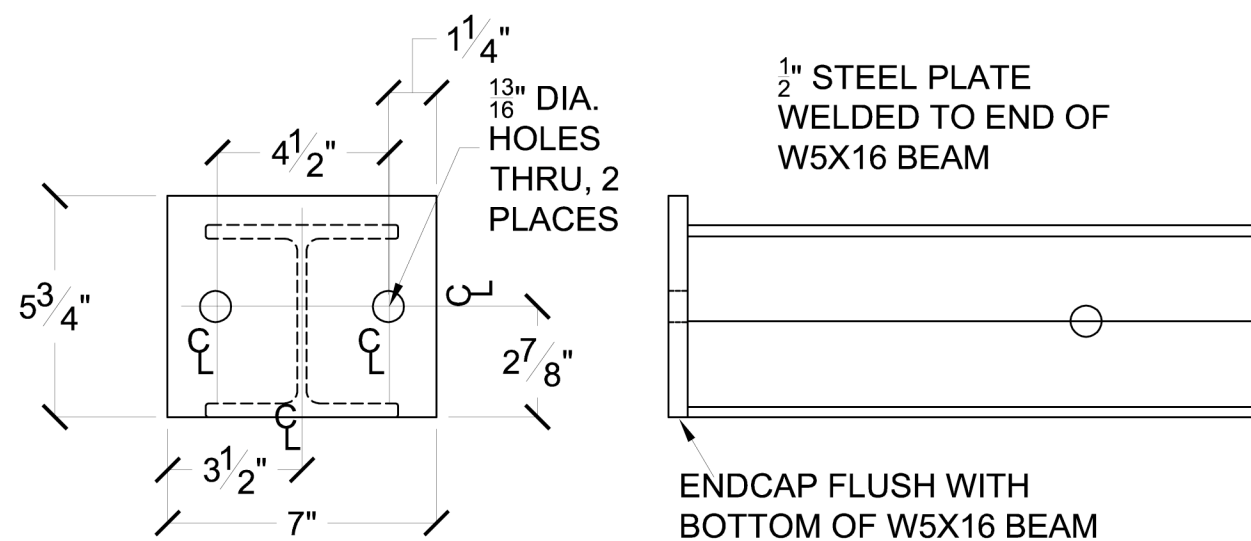
LANDSCAPE
SOIL
BEARING
CAPACITY
CALCULATIONS



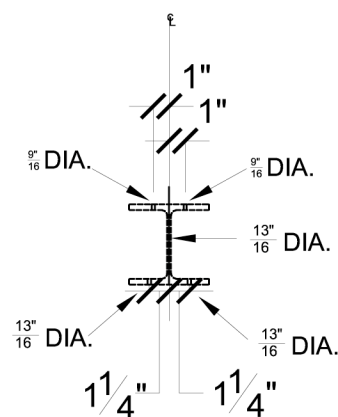
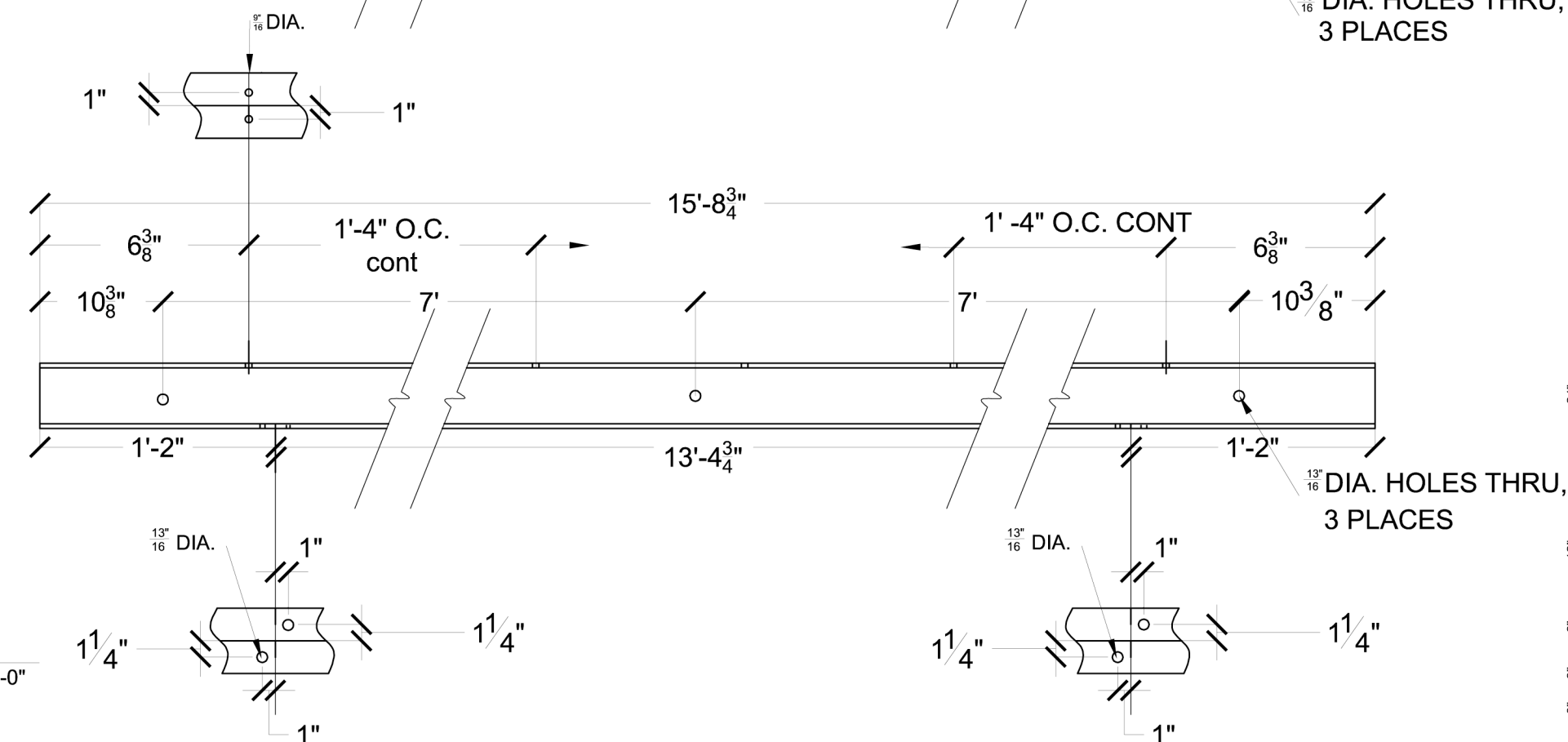
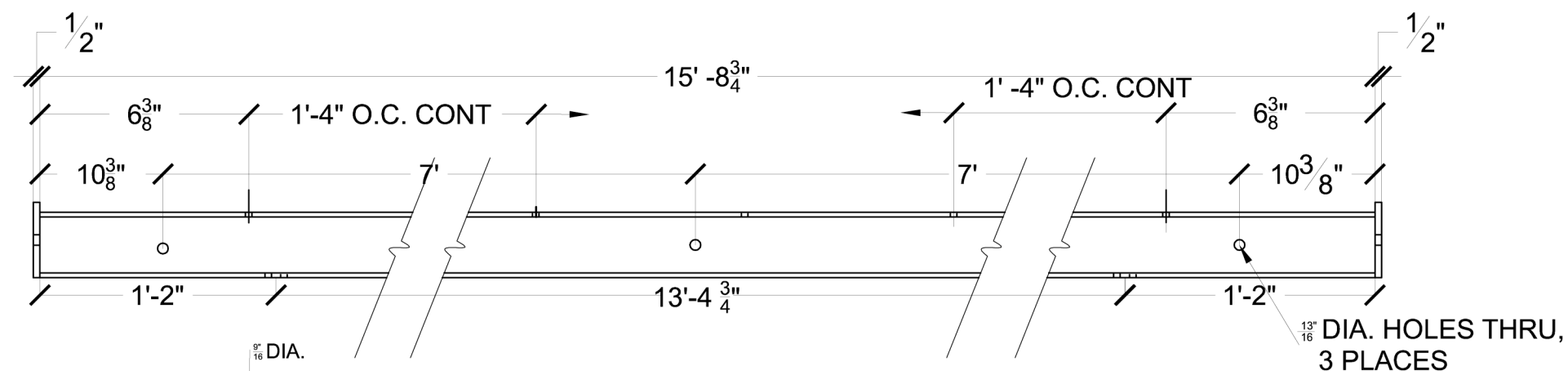
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				Project: 2007 Solar Decathlon
				File Name: SB-500.dwg
				Drawn By: ARA
				Reviewed By: SFR

1 BEAM ENCAP SB-501 DETAIL

SCALE: 1" = 5"



See Beam Endcap
Detail



2 BEAM LAYOUT
SB-501 DETAIL SC

SCALE: 1" = 1'-0"

Seal:

Issue:

Issue:
06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As Built Submission

S B-501

STRUCTURAL SUBSTRUCTURE DETAILS

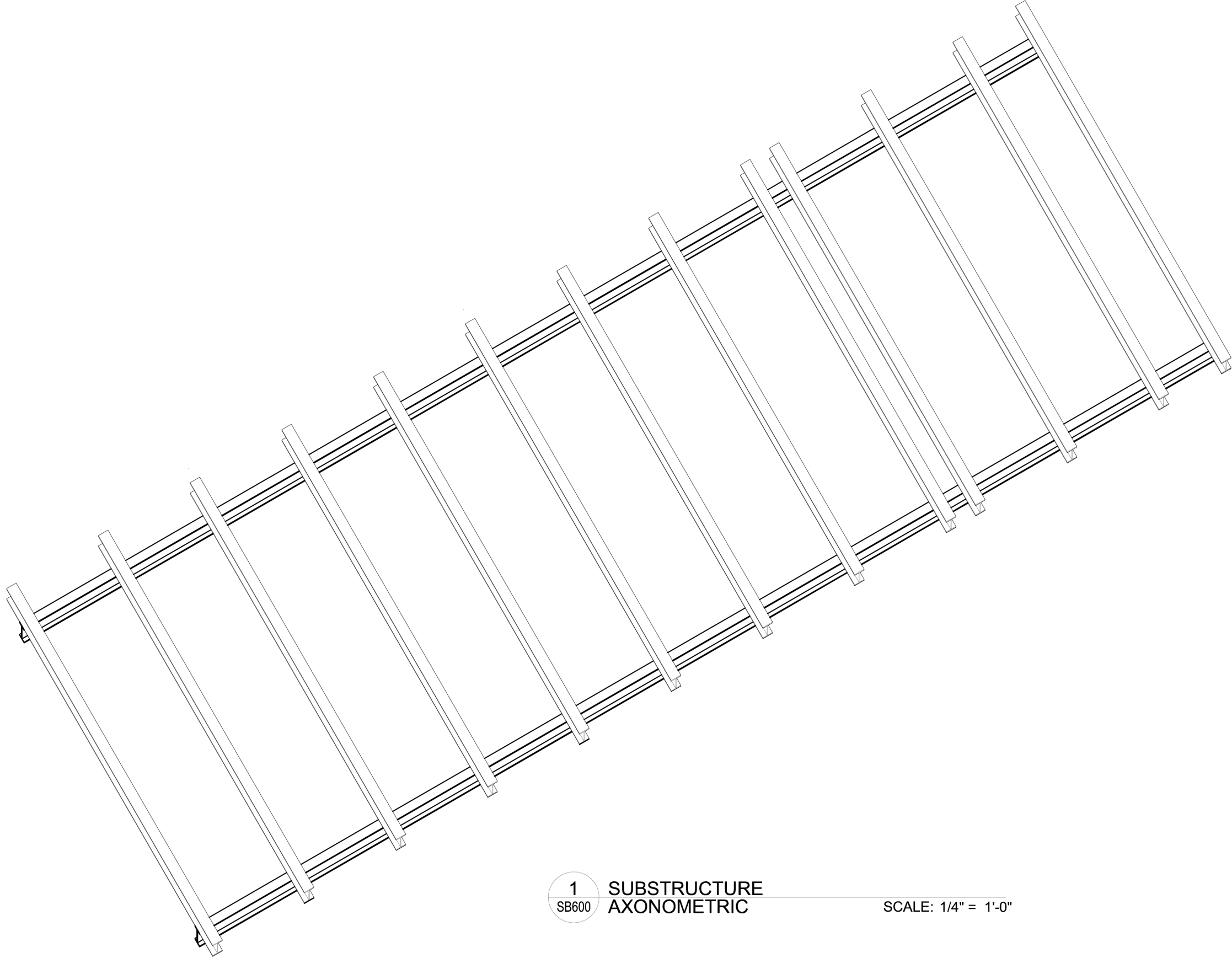
Cornell University Solar Decathlon
909 Mitchell Street
Ithaca, New York 14850
(607) 277 - 7475

Project: 2007 Solar Decathlon

File Name: SB-501.dwg

Drawn By: DEB

Reviewed By: DEB



1
SB600

SUBSTRUCTURE
AXONOMETRIC

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

SB-600

STRUCTURAL
SUBSTRUCTURE
DETAILS

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As-Built Submission

Seal:

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Project: 2007 Solar Decathlon

File Name: GI-602.dwg

Drawn By: JCN

Reviewed By: DEB



1
SB601

SIP FLOOR
AXONOMETRIC

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

SB-601

SIP FLOOR
AXONOMETRIC

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/08 - As-Built Submission

Seal:

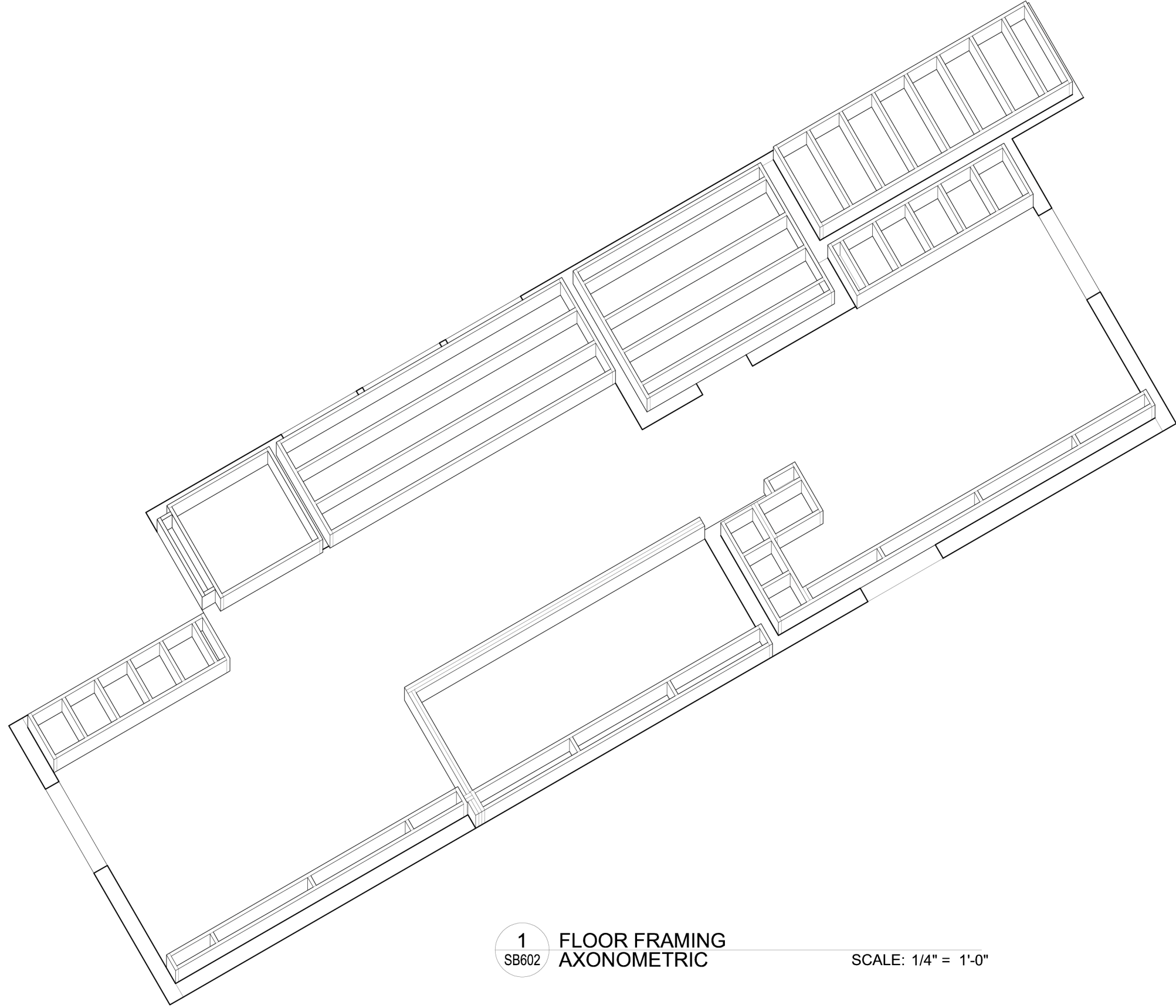
Cornell University Solar Decathlon
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(607) 277 - 7475

Project: 2007 Solar Decathlon

File Name: GI-602.dwg

Drawn By: JCN

Reviewed By: DEB



1
SB602

FLOOR FRAMING
AXONOMETRIC

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

SB-602

FLOOR FRAMING
AXONOMETRIC

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/07 - As-Built Submission

Seal:

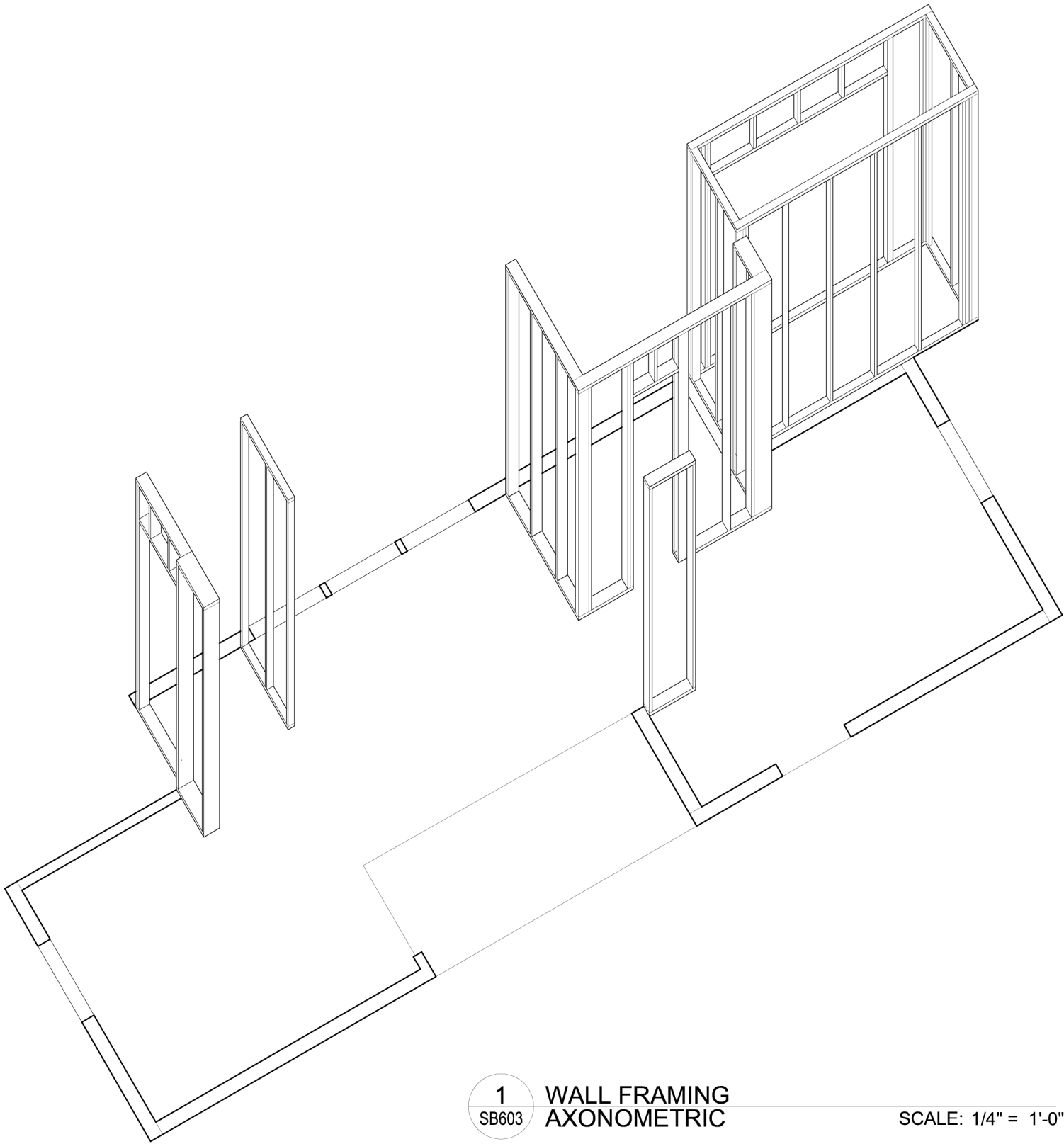
Cornell University Solar Decathlon
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Project: 2007 Solar Decathlon

File Name: GI-602.dwg

Drawn By: JCN

Reviewed By: DEB



1
SB603

WALL FRAMING
AXONOMETRIC

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

SB-603

WALL FRAMING
AXONOMETRIC

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/07 - As-Built Submission

Seal:

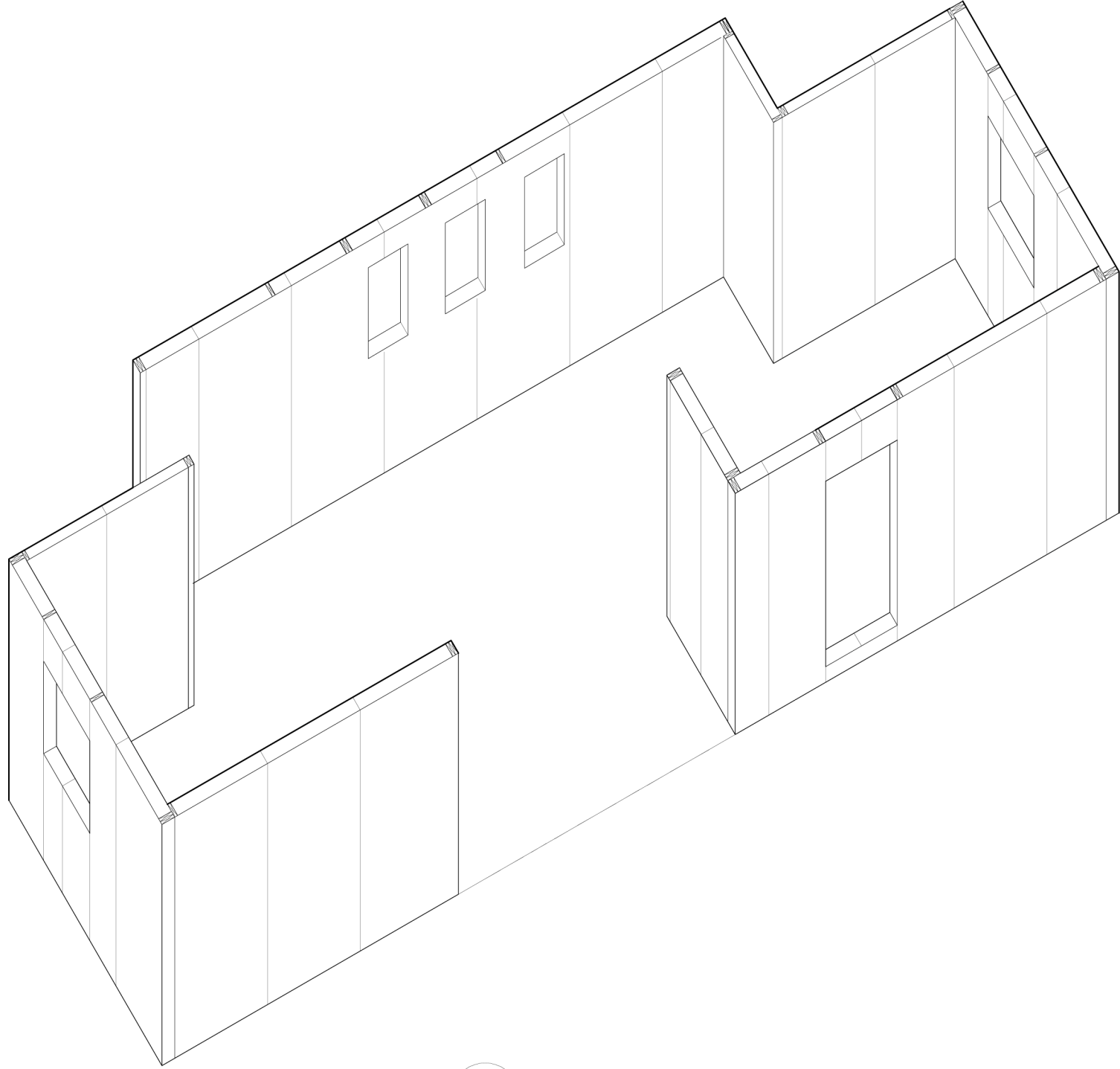
Cornell University Solar Decathlon
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Project: 2007 Solar Decathlon

File Name: GI-602.dwg

Drawn By: JCN

Reviewed By: DEB



1
SB502

SIP WALL
AXONOMETRIC

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

SB-604

SIP WALL
AXONOMETRIC

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/07 - As-Built Submission

Seal:

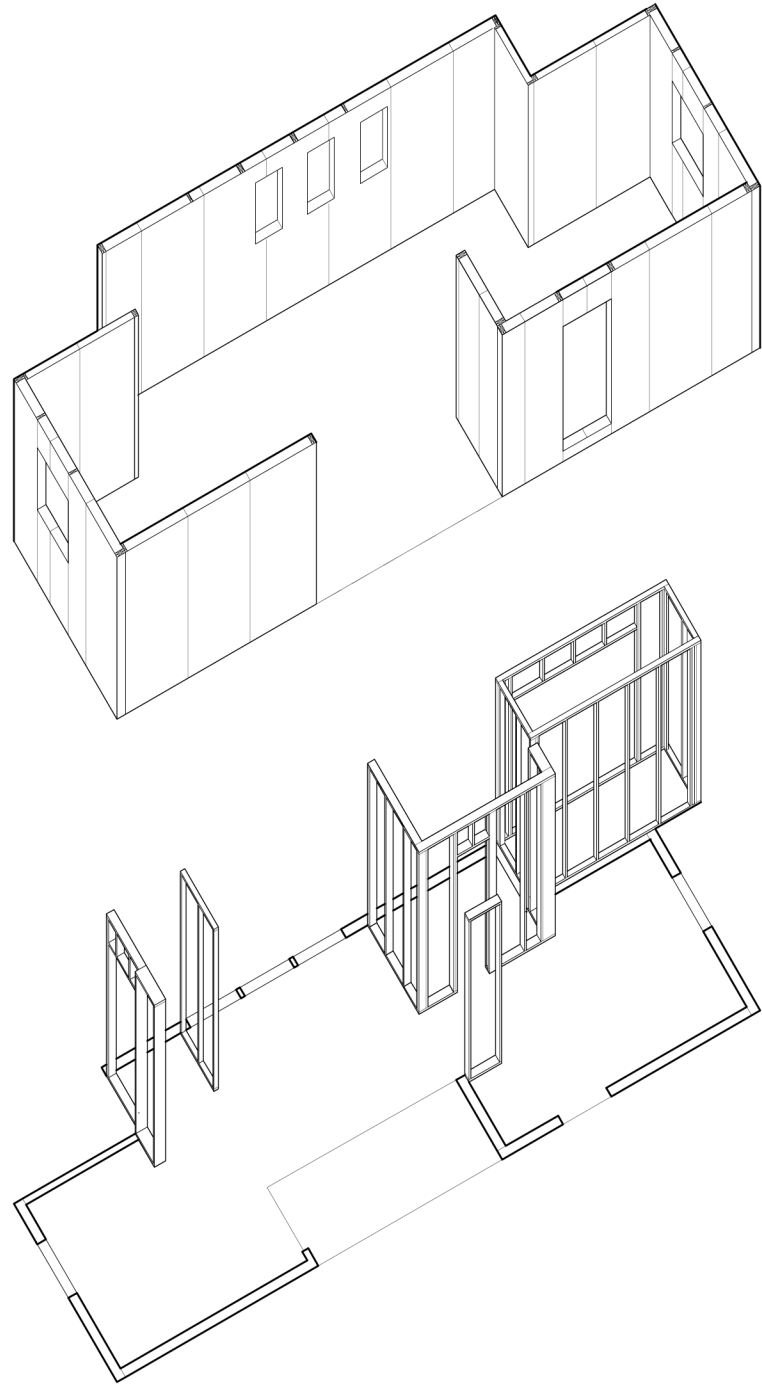
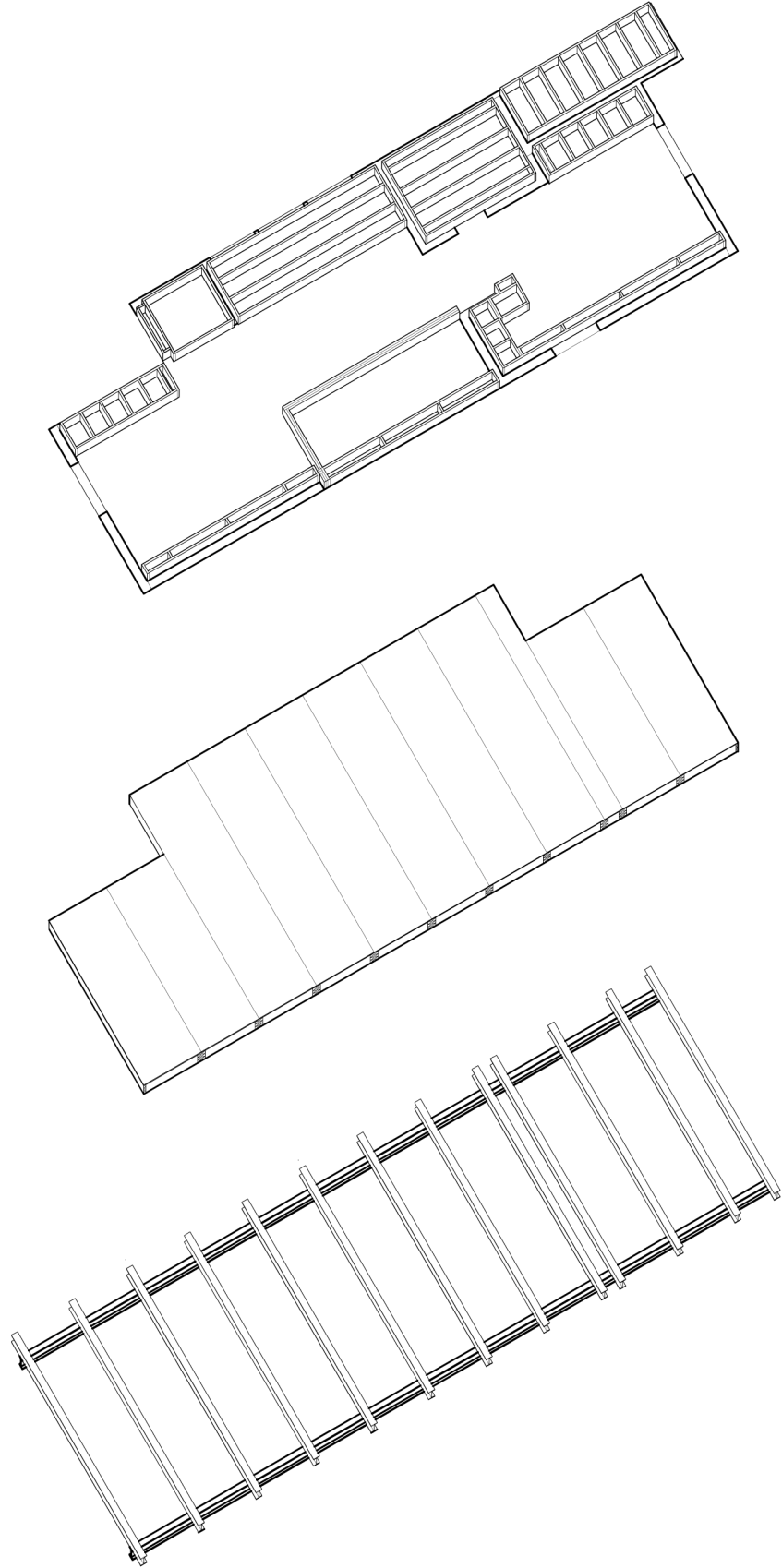
Cornell University Solar Decathlon
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Project: 2007 Solar Decathlon

File Name: GI-602.dwg

Drawn By: JCN

Reviewed By: DEB



1
SB605

STRUCTURAL AXONOMETRICS

SCALE: NTS

SB-605

STRUCTURAL
AXONOMETRICS

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/07 - As-Built Submission

Seal:

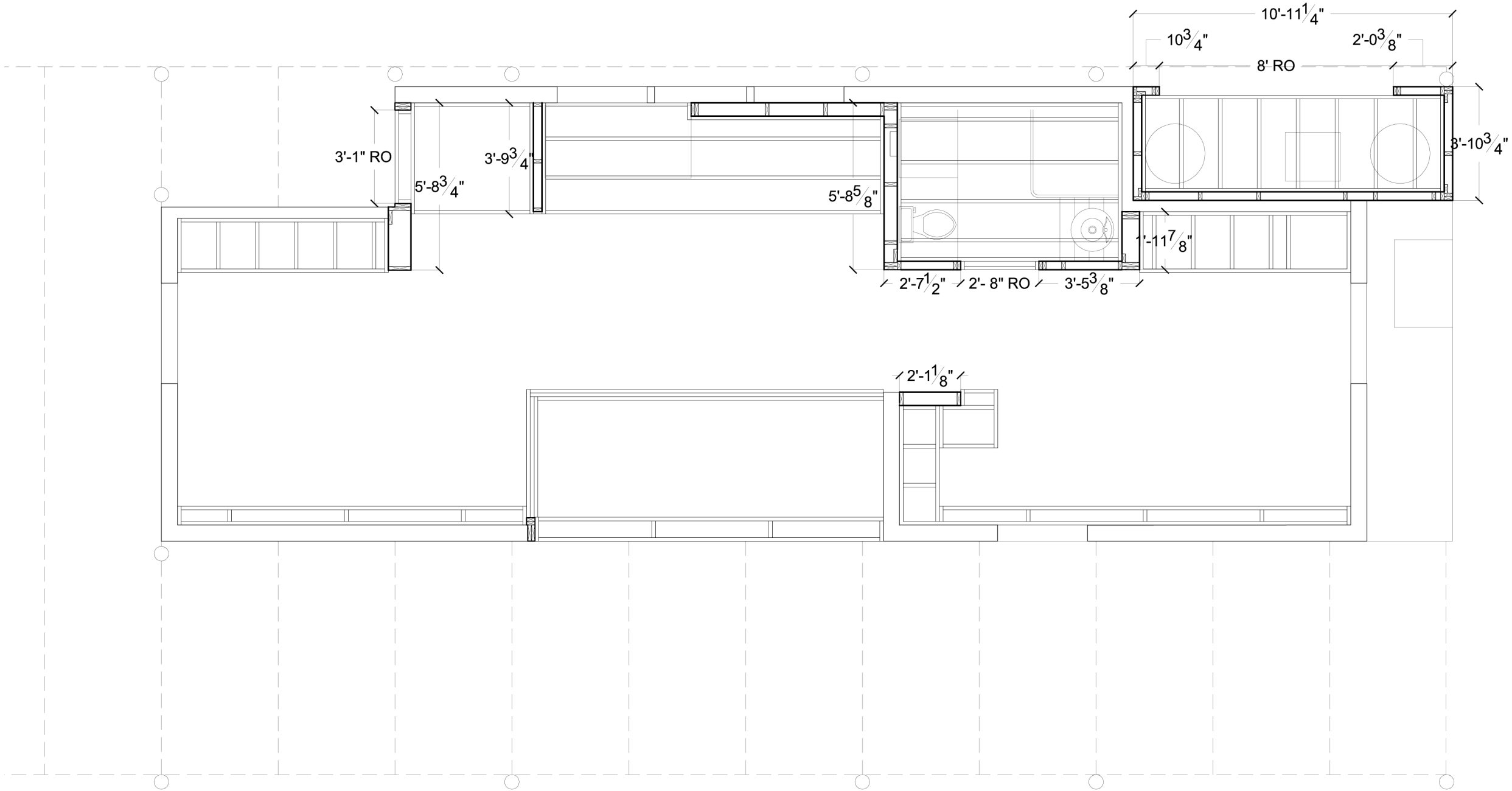
Cornell University Solar Decathlon
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Project: 2007 Solar Decathlon

File Name: GI-602.dwg

Drawn By: JCN

Reviewed By: DEB



1
SF100

STRUCTURAL FRAMING
FLOOR PLAN

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

SF-100

FLOOR
FRAMING
PLAN

Issue:

- 06/13/06 - DD Submission
- 07/28/06 - CD Submission
- 03/06/07- CD Submission II
- 08/07/07 - Final Submission
- 12/09/08 - As Built Submission

Seal:

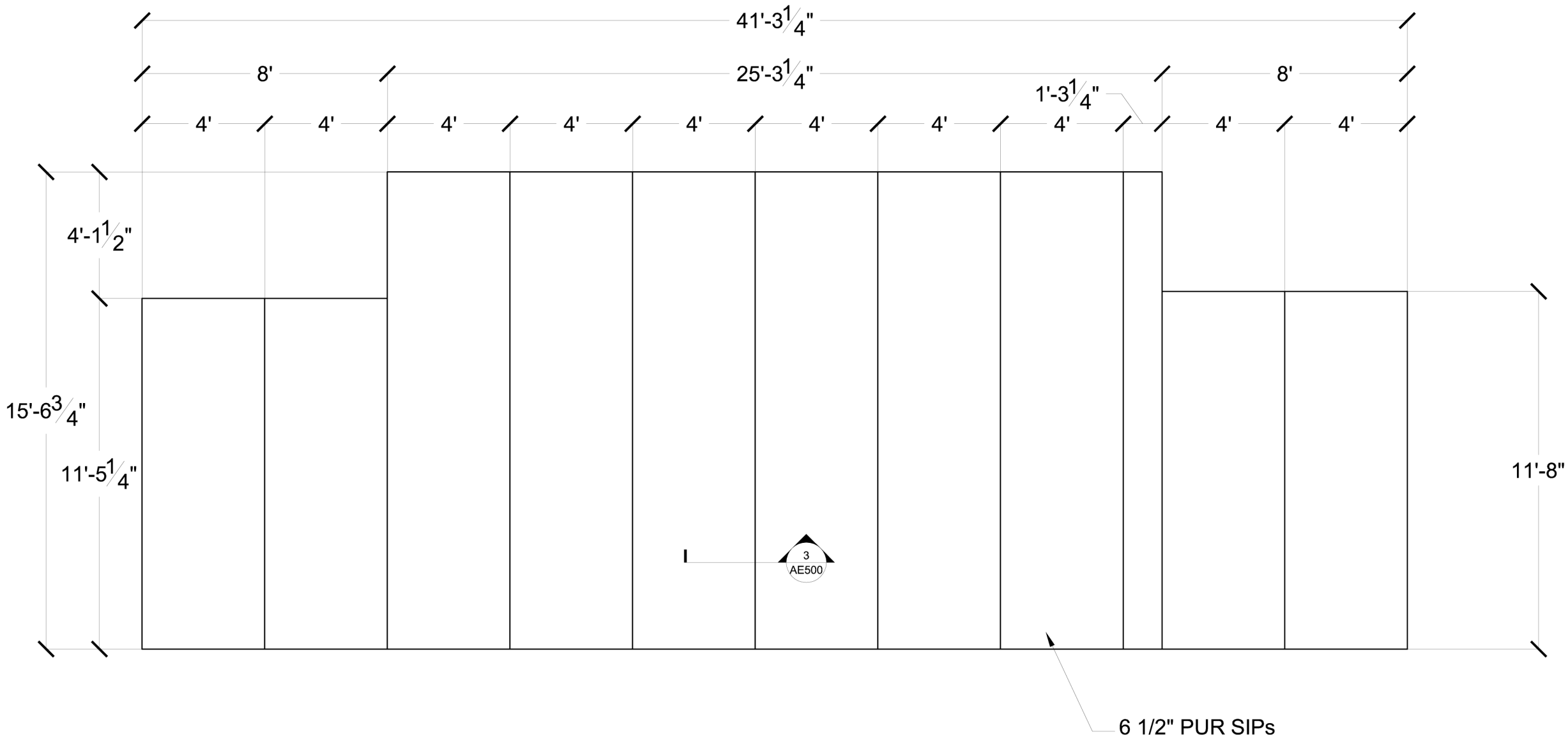
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Project: 2007 Solar Decathlon

File Name: SF-100.dwg

Drawn By: DEB

Reviewed By: DEB



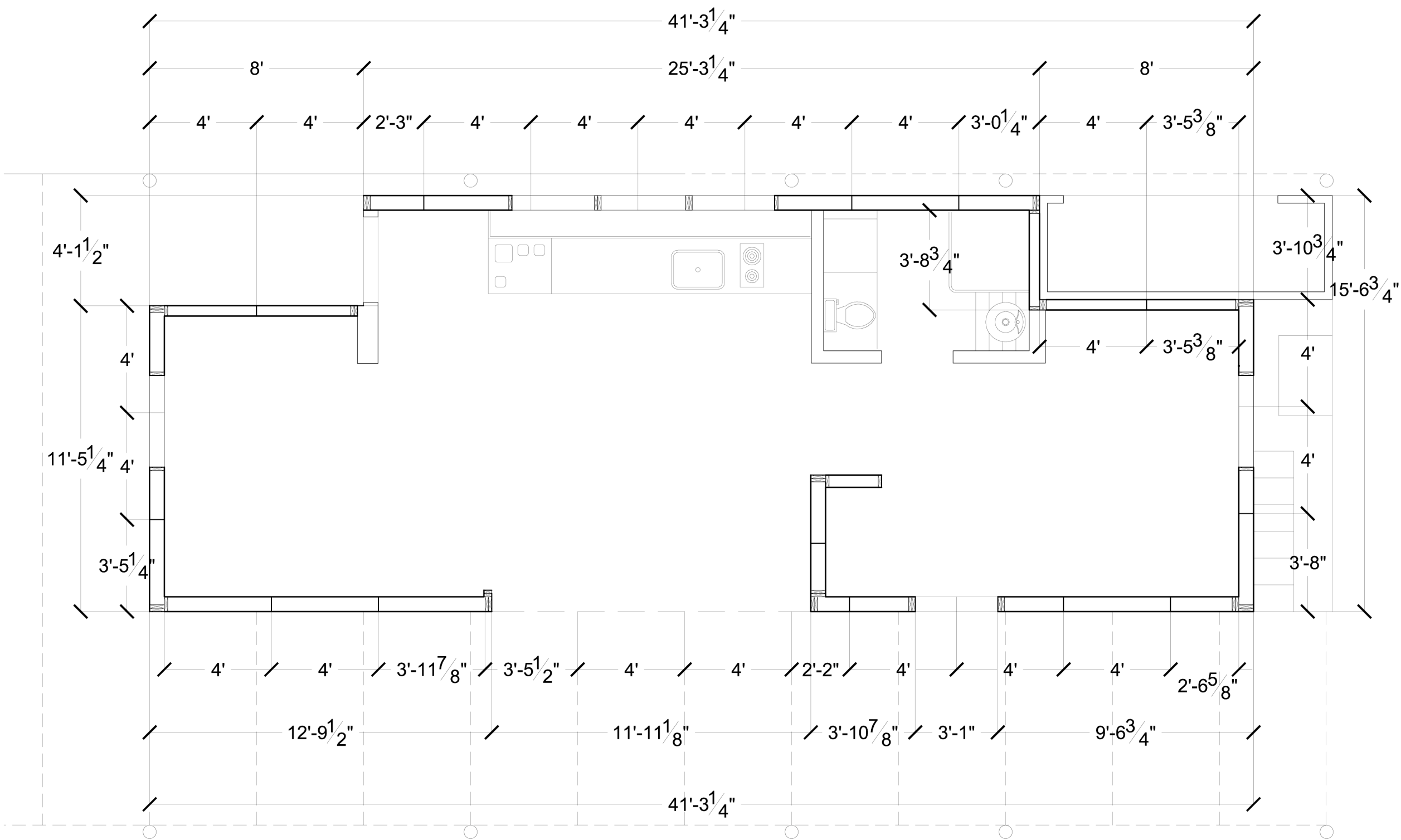
1
SF101

SIP FLOOR
PLAN

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



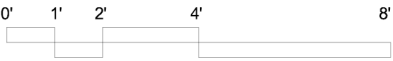
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			909 Mitchell Street
			Ithaca, New York 14850
			(607) 277 - 7475
			Project: 2007 Solar Decathlon
SIP FLOOR PLAN			File Name: SF-101.dwg
			Drawn By: DEB
			Reviewed By: DEB



1
SF102

SIP FRAMING
FLOOR PLAN

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



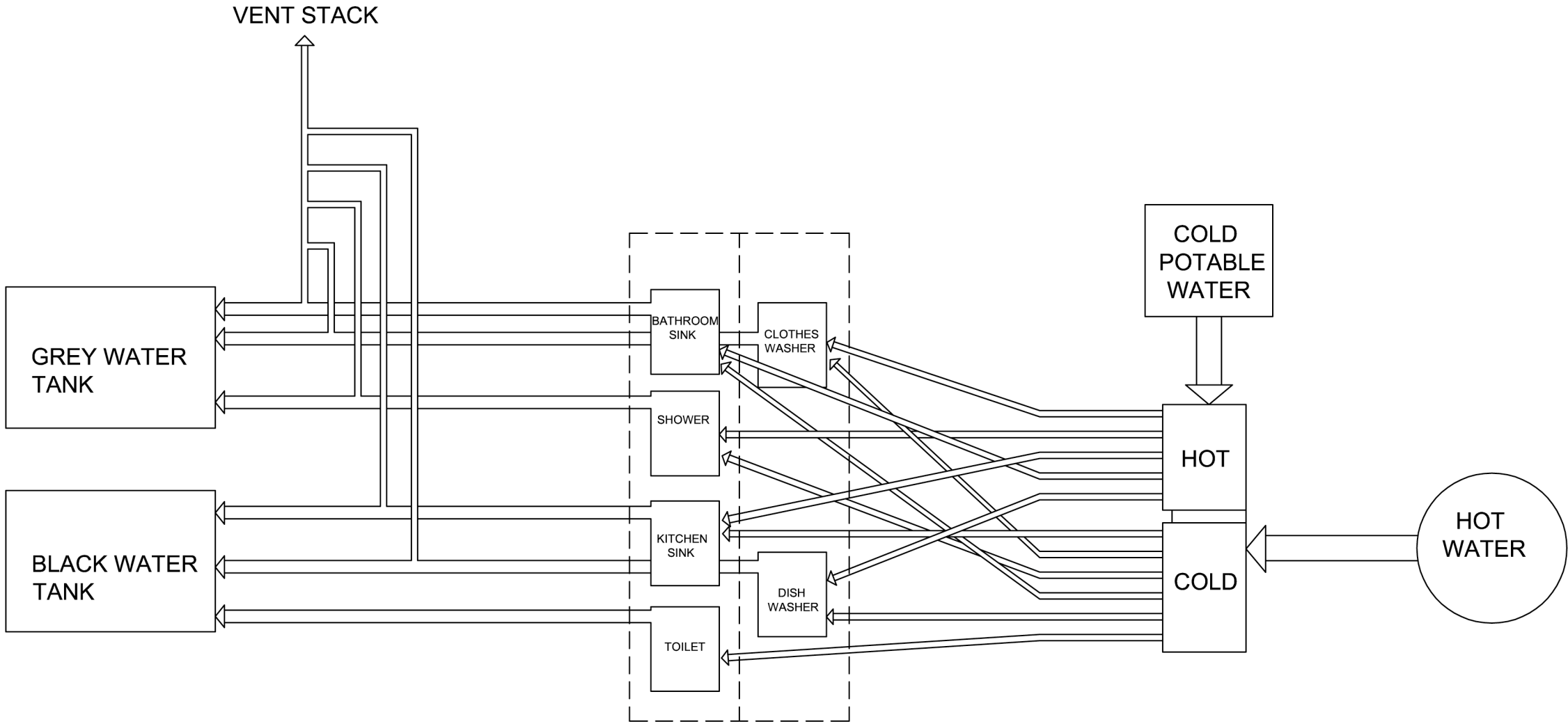
SF-102

SIP WALL
FRAMING
PLAN

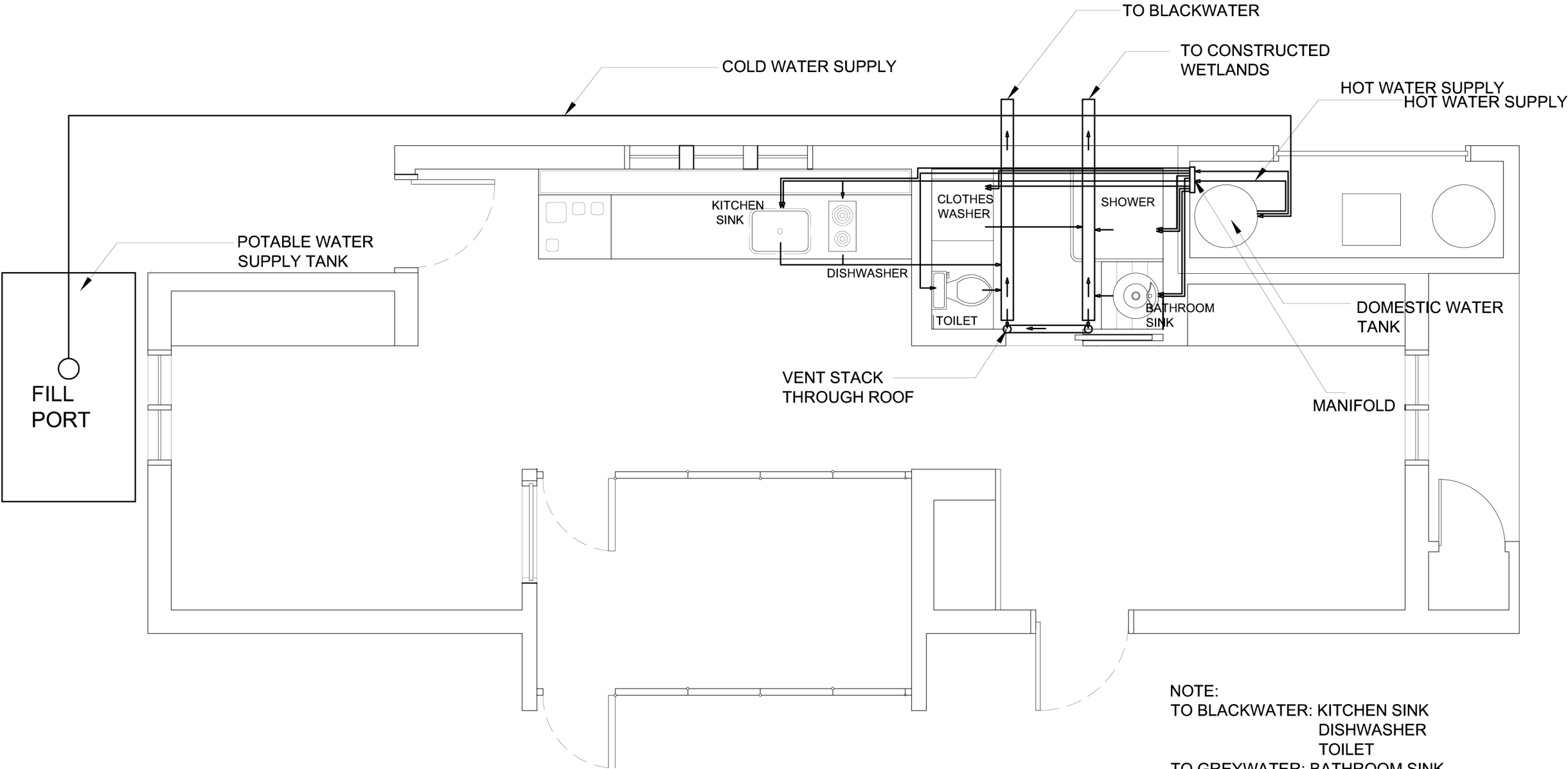
Issue:	06/13/06 - DD Submission
	07/28/06 - CD Submission
	03/06/07 - CD Submission II
	08/07/07 - Final Submission
12/09/08 - As Built Submission	

Seal:

Cornell University Solar Decathlon 909 Mitchell Street Ithaca, New York 14850 (607) 277 - 7475	Project: 2007 Solar Decathlon
	File Name: SF-102.dwg
	Drawn By: DEB
	Reviewed By: DEB



PP-100	Issue:		Seal:	Cornell University Solar Decathlon 909 Mitchell Street Ithaca, New York 14850 (607) 277 - 7475
	06/13/06 - DD Submission			
	07/28/06 - CD Submission			
	03/06/07 - CD Submission II			
	08/07/07 - Final Submission			
PLUMBING SCHEMATIC	12/09/08 - As Built Submission		Project: 2007 Solar Decathlon	
			File Name: PP-100.dwg	
			Drawn By: SFR	
			Reviewed By: DEB	

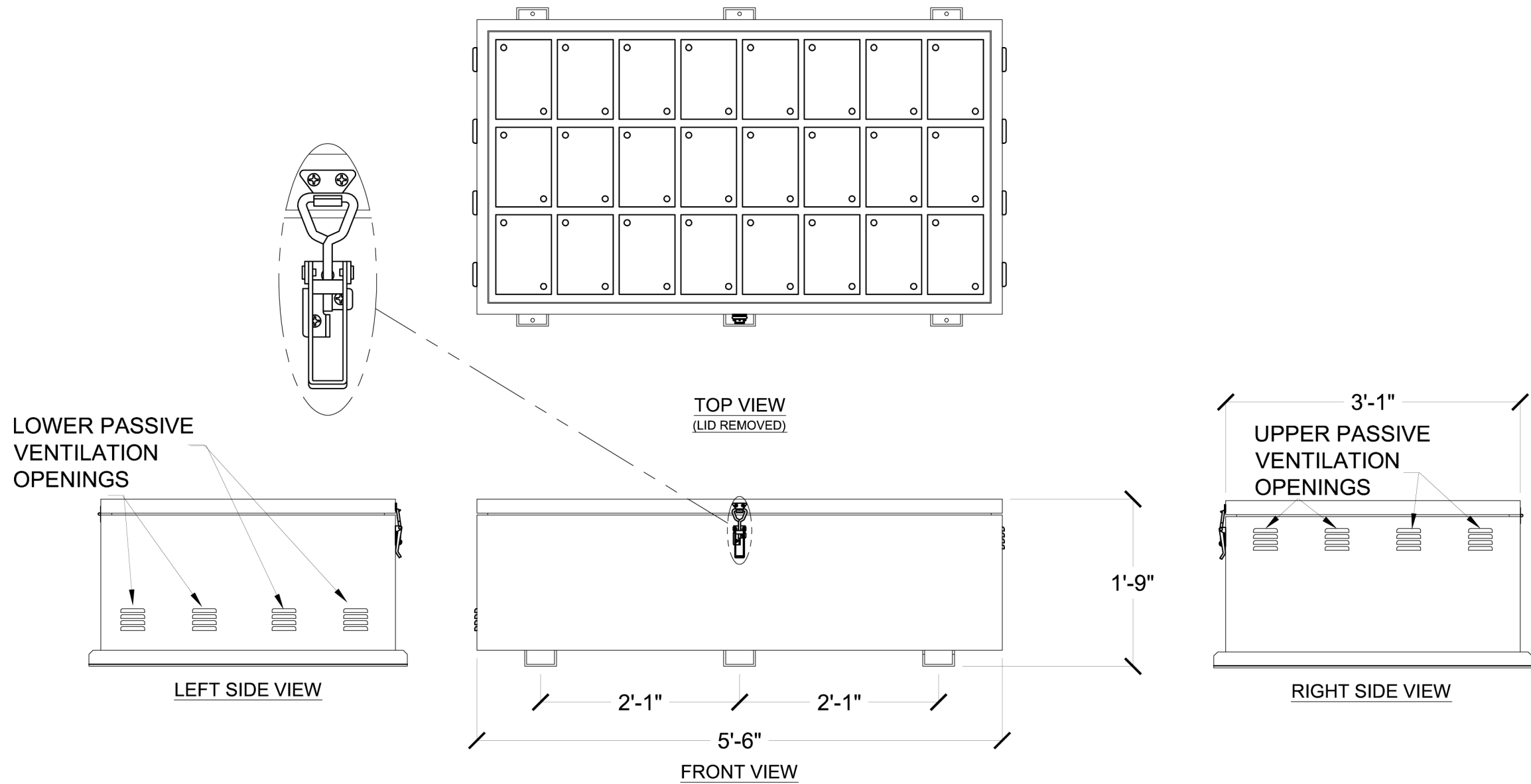


1 PLUMBING SUPPLY/WASTE PLAN
PP-101 SCALE: 1/4" = 1'-0"

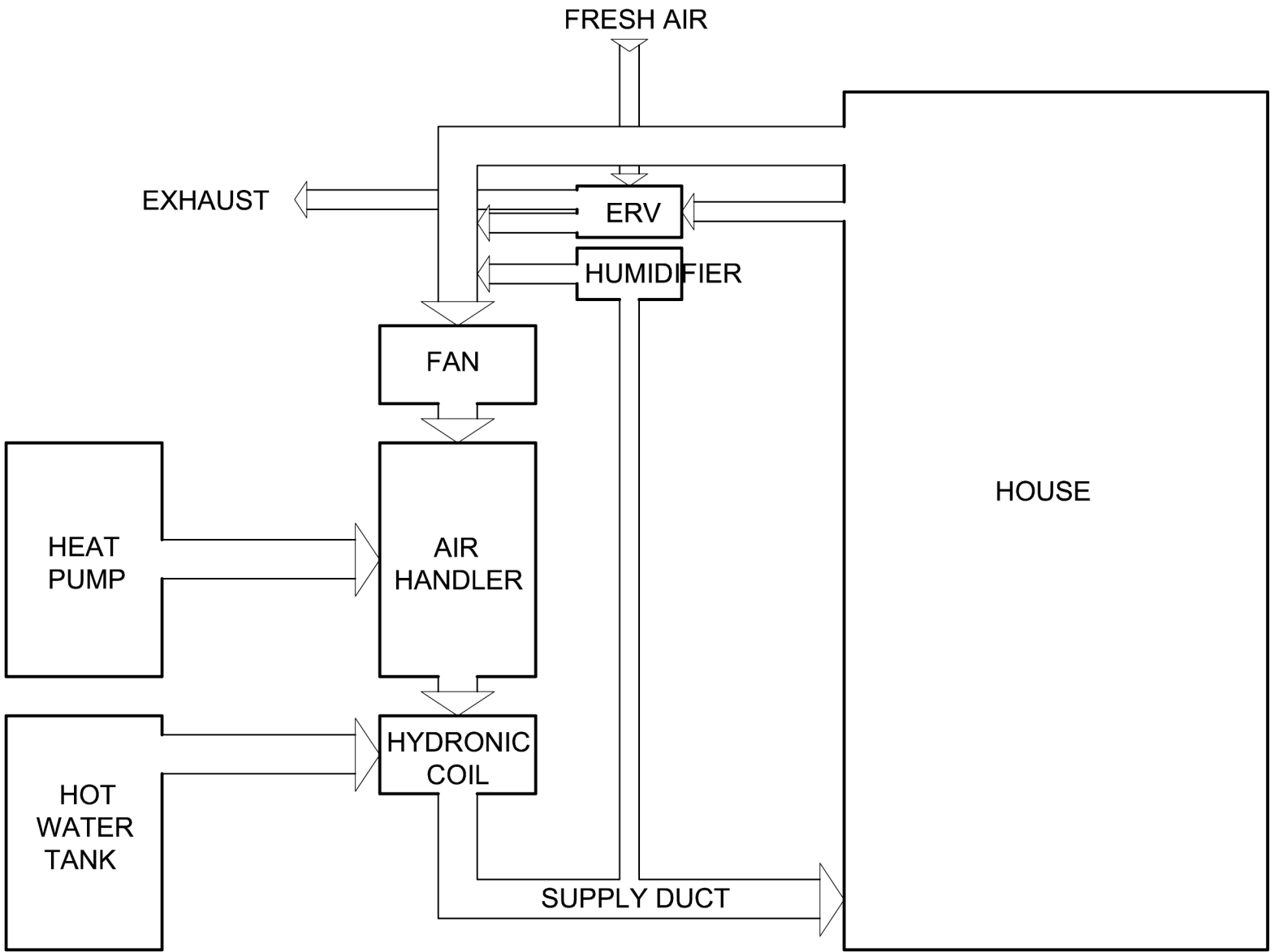
NOTE:
TO BLACKWATER: KITCHEN SINK
DISHWASHER
TOILET
TO GREYWATER: BATHROOM SINK
SHOWER
CLOTHES WASHER
*POTABLE WATER SUPPLY TANK FILLED FROM ABOVE WITH 12" CLEARANCE TO UNDERSIDE OF DECK.
*BLACK WATER TANK LOCATED UNDER HOUSE BELOW MECHANICAL CLOSET.
GREY WATER GOES INTO WETLANDS.



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		File Name: PP-101.dwg	
		Drawn By: WWK	
		Reviewed By: DEB	
Seal:			
Issue:		06/13/06 - DD Submission 07/28/06 - CD Submission 03/06/07 - CD Submission II 08/07/07 - Final Submission 09/07/07 - As Built Submission	
PP-101		PLUMBING SUPPLY AND WASTE PLAN	



PP-103 BATTERY BOX DETAILS	Issue: 06/13/06 - DD Submission 07/28/06 - CD Submission 03/06/07 - CD Submission II 08/07/07 - Final Submission 12/09/07 - As-Built Submission	Seal:	Cornell University Solar Decathlon 909 Mitchell Street Ithaca, New York 14850 (607) 277 - 7475
			Project: 2007 Solar Decathlon
			File Name: PP-103.dwg
			Drawn By: KBD
			Reviewed By: DEB



MH-100

**MECHANICAL
HVAC
SCHEMATIC**

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/07 - As-Built Submission

Seal:

Cornell University Solar Decathlon

909 Mitchell Street

Ithaca, New York 14850

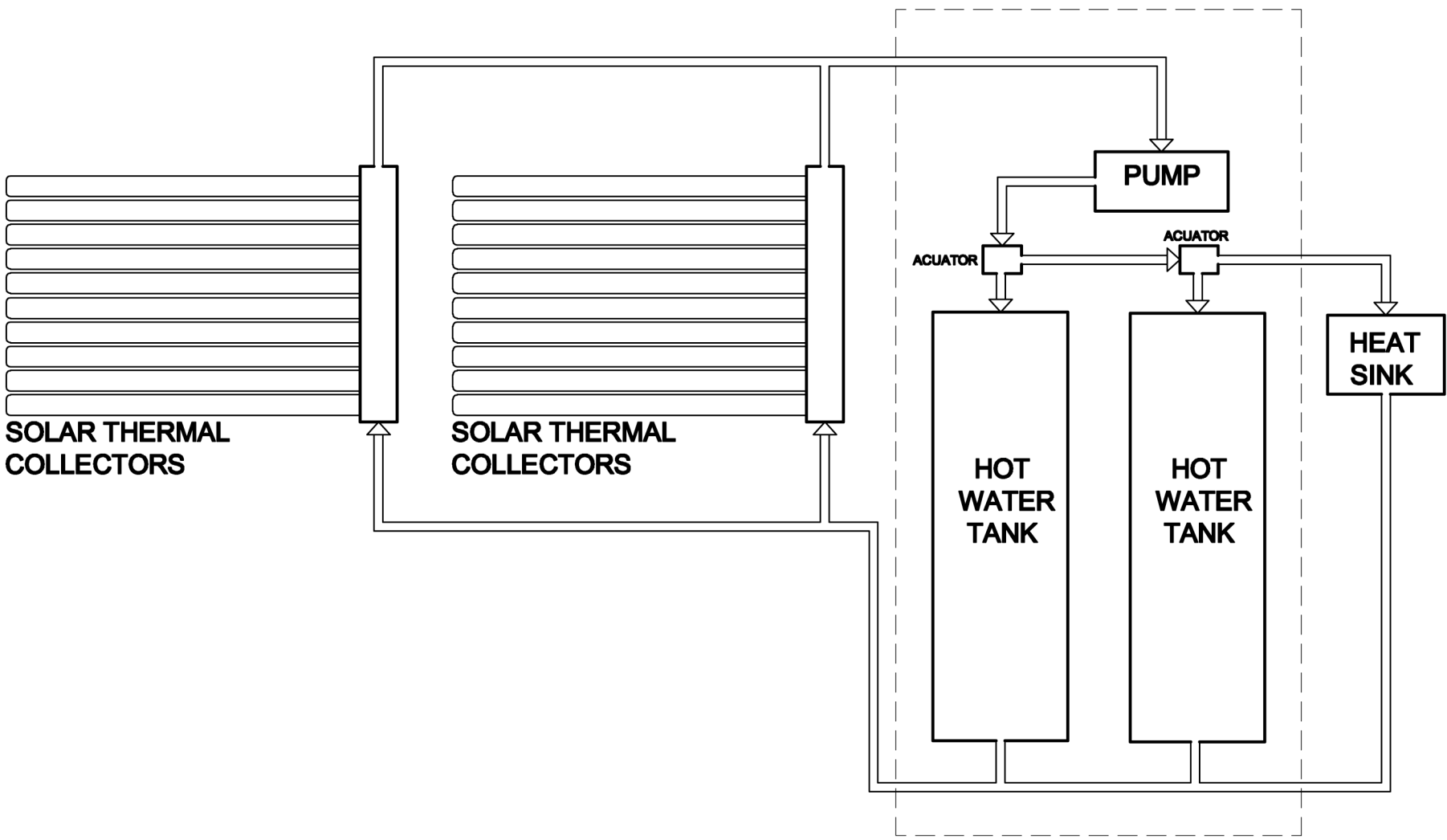
(607) 277 - 7475

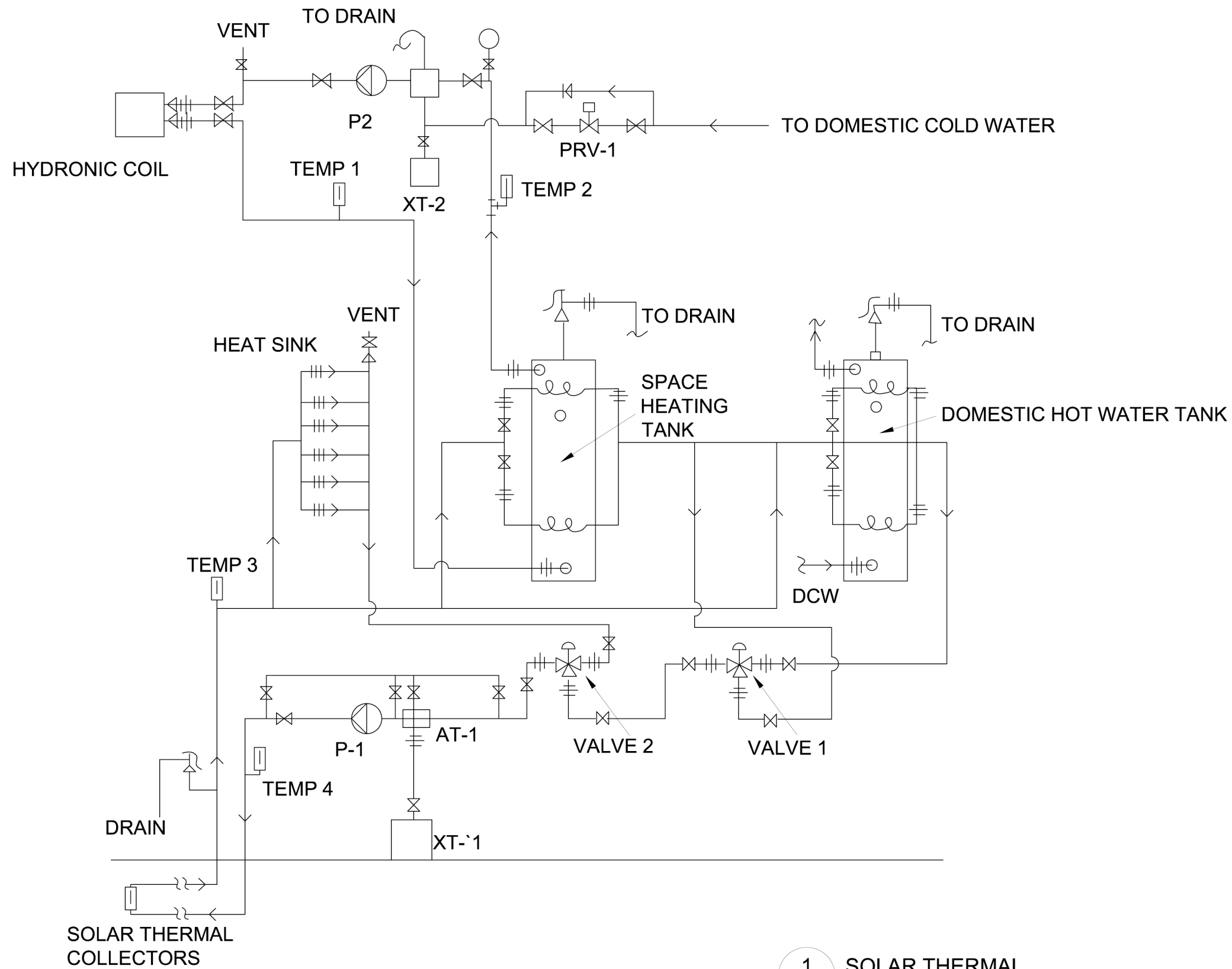
Project: 2007 Solar Decathlon

File Name: MH-100.dwg

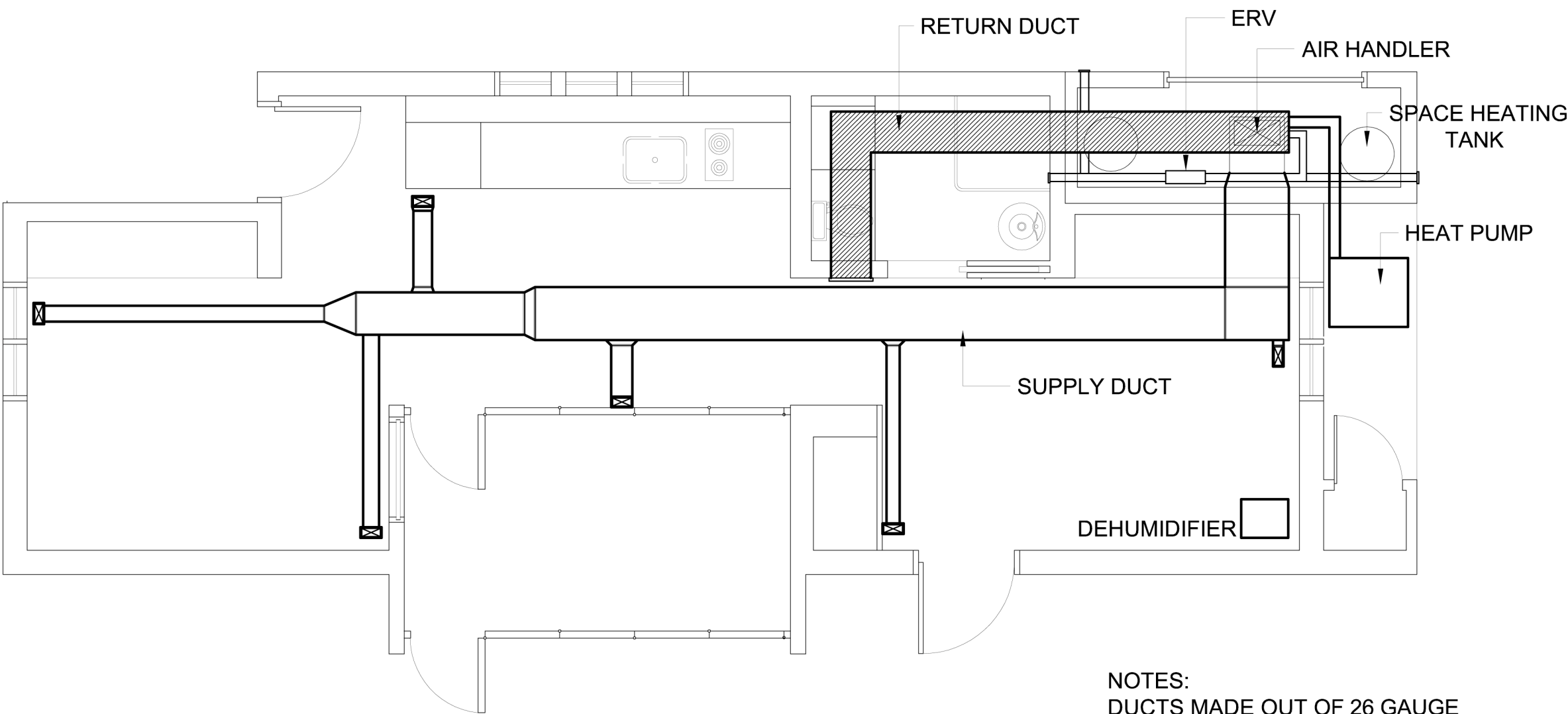
Drawn By: SFR

Reviewed By: DEB





<div>MH-101.1</div> <div>SOLAR THERMAL SCHEMATIC</div>	Issue:		Seal:	<div>Cornell University Solar Decathlon</div> <div>909 Mitchell Street</div> <div>Ithaca, New York 14850</div> <div>(607) 277 - 7475</div>
	06/13/06 - DD Submission			
	07/28/06 - CD Submission			
	03/06/07 - CD Submission II			
	08/07/07 - Final Submission			
12/09/07 - As-Built Submission				
		Project: 2007 Solar Decathlon		
		File Name: MH101.1.dwg		
		Drawn By: KBD		
		Reviewed By: DEB		



NOTES:
DUCTS MADE OUT OF 26 GAUGE
GALVANIZED STEEL IN ACC. W/
TABLE M1601.1.1(2) IN ASTM A 653

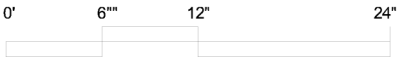
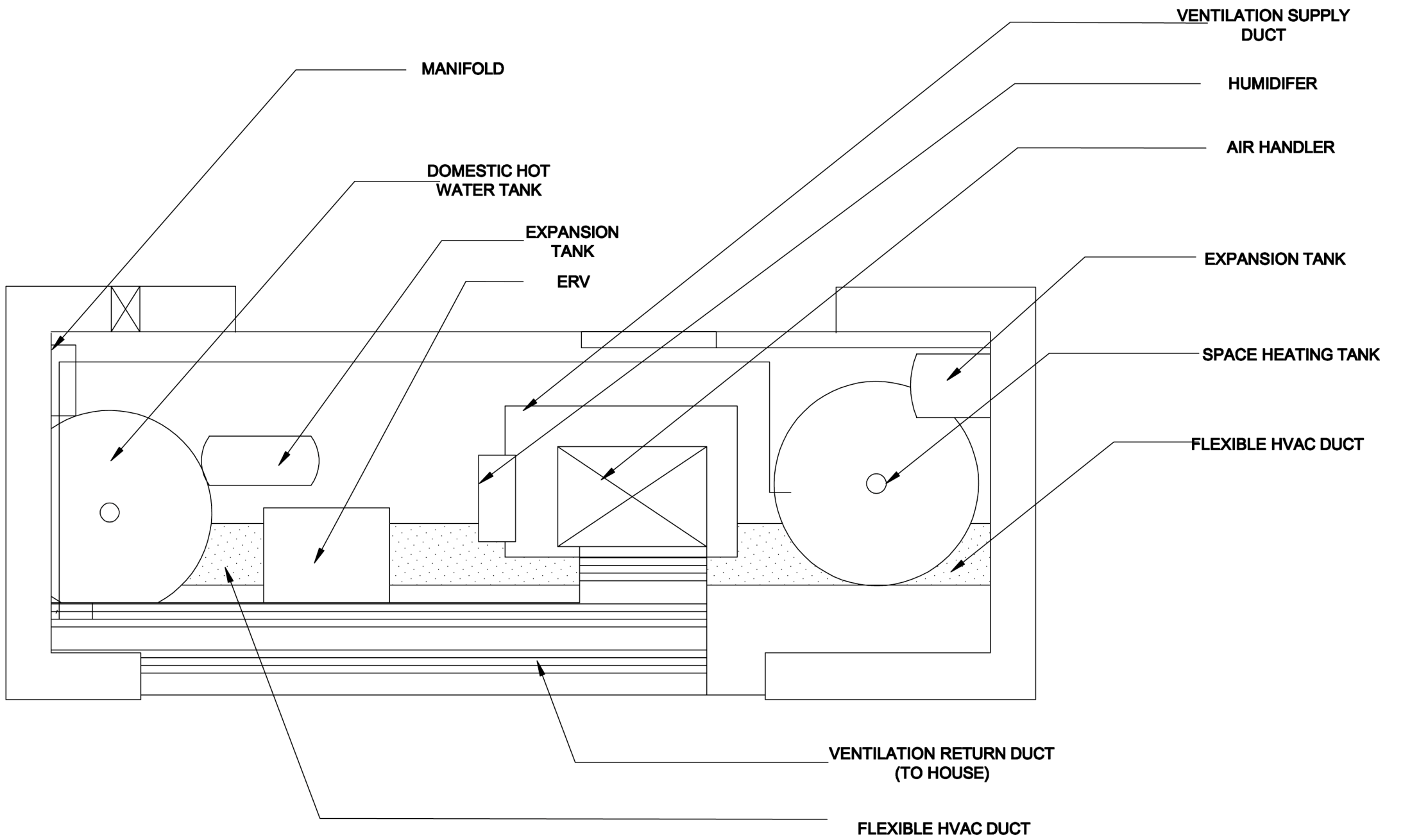
MH-102

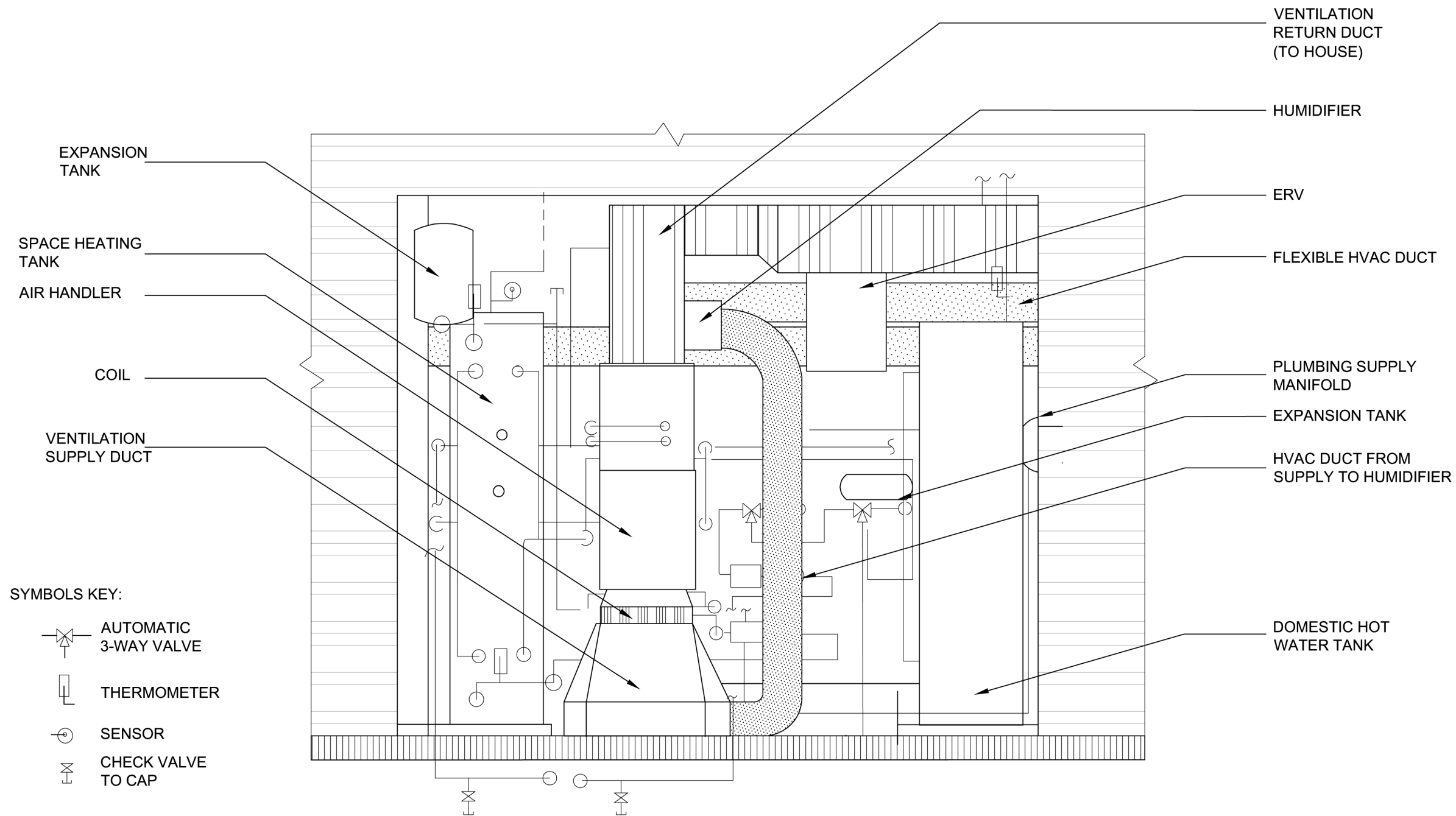
MECHANICAL
HVAC PLAN

Issue:	06/13/06 - DD Submission 07/28/06 - CD Submission 03/06/07 - CD Submission II 08/07/07 - Final Submission 12/09/07 - As-Built Submission
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Seal:

Cornell University Solar Decathlon 909 Mitchell Street Ithaca, New York 14850 (607) 277 - 7475	Project: 2007 Solar Decathlon	File Name: GI-600.dwg	Drawn By: SFR	Reviewed By: DEB
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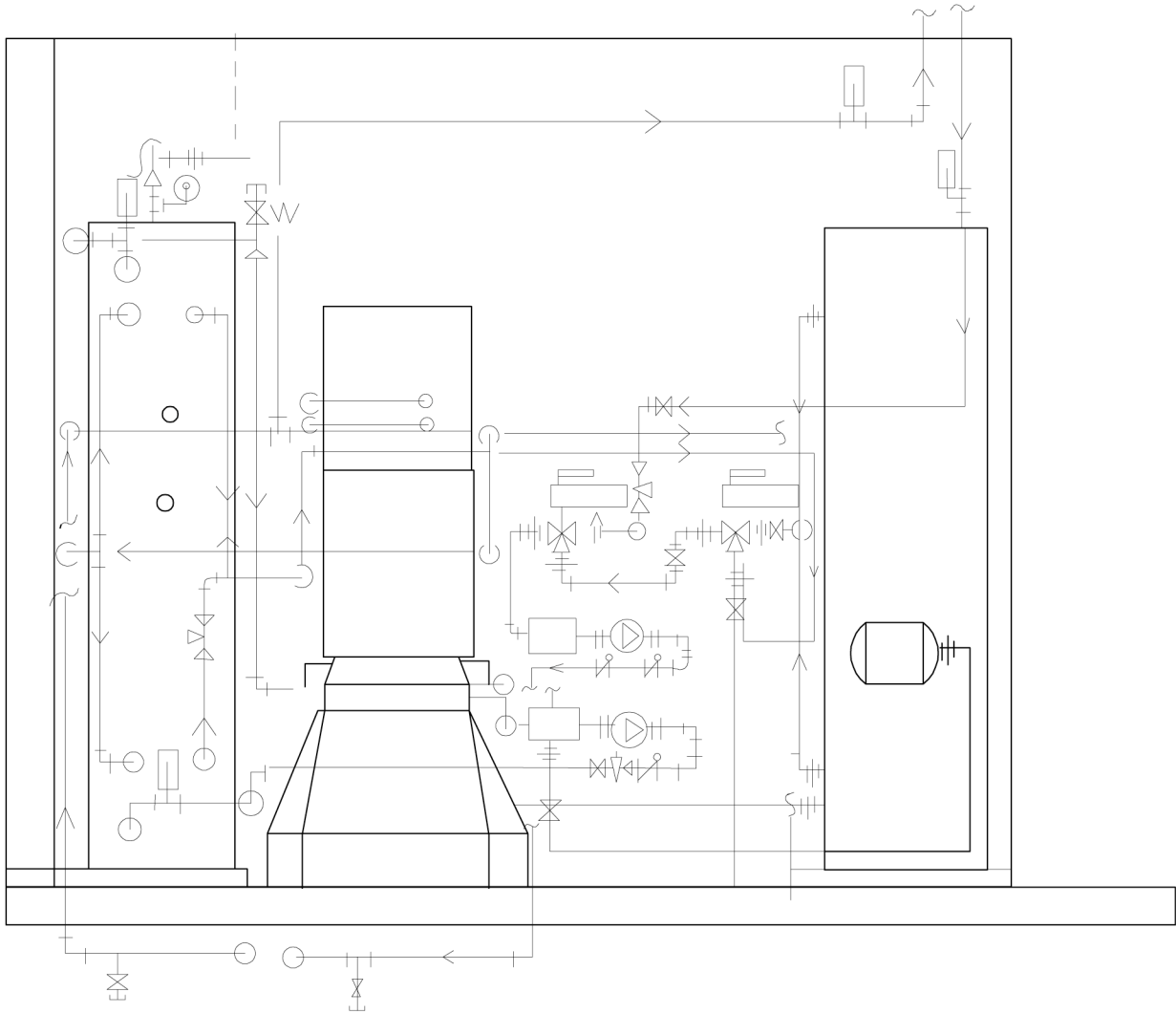


1 MECAHNICAL CLOSET
MH-200 ELEVATION









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



<p>Cornell University Solar Decathlon 909 Mitchell Street Ithaca, New York 14850 (607) 277 - 7475</p>		<p>Project: 2007 Solar Decathlon</p>	<p>File Name: MH-200.dwg</p>	<p>Drawn By: JCN</p>	<p>Reviewed By: DEB</p>
<p>Seal:</p>		<p>Issue:</p> <p>06/13/06 - DD Submission</p> <p>07/28/06 - CD Submission</p> <p>03/06/07 - CD Submission II</p> <p>08/07/07 - Final Submission</p> <p>12/09/08 - As Built Submission</p>			
<p>MH-200</p>		<p>MECHANICAL CLOSET ELEVATION</p>			



SYMBOLS KEY:

- AUTOMATIC
3-WAY VALVE
- THERMOMETER
- SENSOR
- CHECK VALVE
TO CAP
- PRESSURE GAUGE AND COCK
- SHUT-OFF VALVE
- AIR ELIMINATOR VALVE
- LOCK SHIELD VALVE



MH-200.1

MECHANICAL CLOSET
SOLAR THERMAL
PLUMBING ELEVATION

Issue:
06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/07 - As-Built Submission

Seal:

Cornell University Solar Decathlon
909 Mitchell Street
Ithaca, New York 14850
(607) 277 - 7475

Project: 2007 Solar Decathlon

File Name: MH-200.1.dwg

Drawn By: JCN

Reviewed By: DEB

Mechanical Schedule				
Quantity	Component	Manufacturer	Model Number	Specs
1	Air Handler	Lennox	CBX32MV	1/2 HP
1	Heat Pump	Lennox	XP13-018-230-01	*2 HP
1	ERV	Renewaire	EV-70	.1 HP
2	Hot Water Tanks	Silicon Solar	-	
2	Evacuated Tube Collectors	Seido	2\16	
2	Evacuated Tube Collectors	Seido	2\8	
1	Solar Thermal Pump	Bell & Gosset	NRF-45	1/2 HP
1	Hot Water Circulatory Pump	Taco	008-BT4-1	1/40 HP
1	Domestic Booster Pump	Shurflo	Extreme Smart Sensor 5.7	1/6 HP



MH-201

MECHANICAL

CLOSET

SCHEDULE

Issue:

06/13/06 - DD Submission

07/28/06 - CD Submission

03/06/07 - CD Submission II

08/07/07 - Final Submission

12/09/07 - As-Built Submission

Seal:

Cornell University Solar Decathlon

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Ithaca, New York 14850

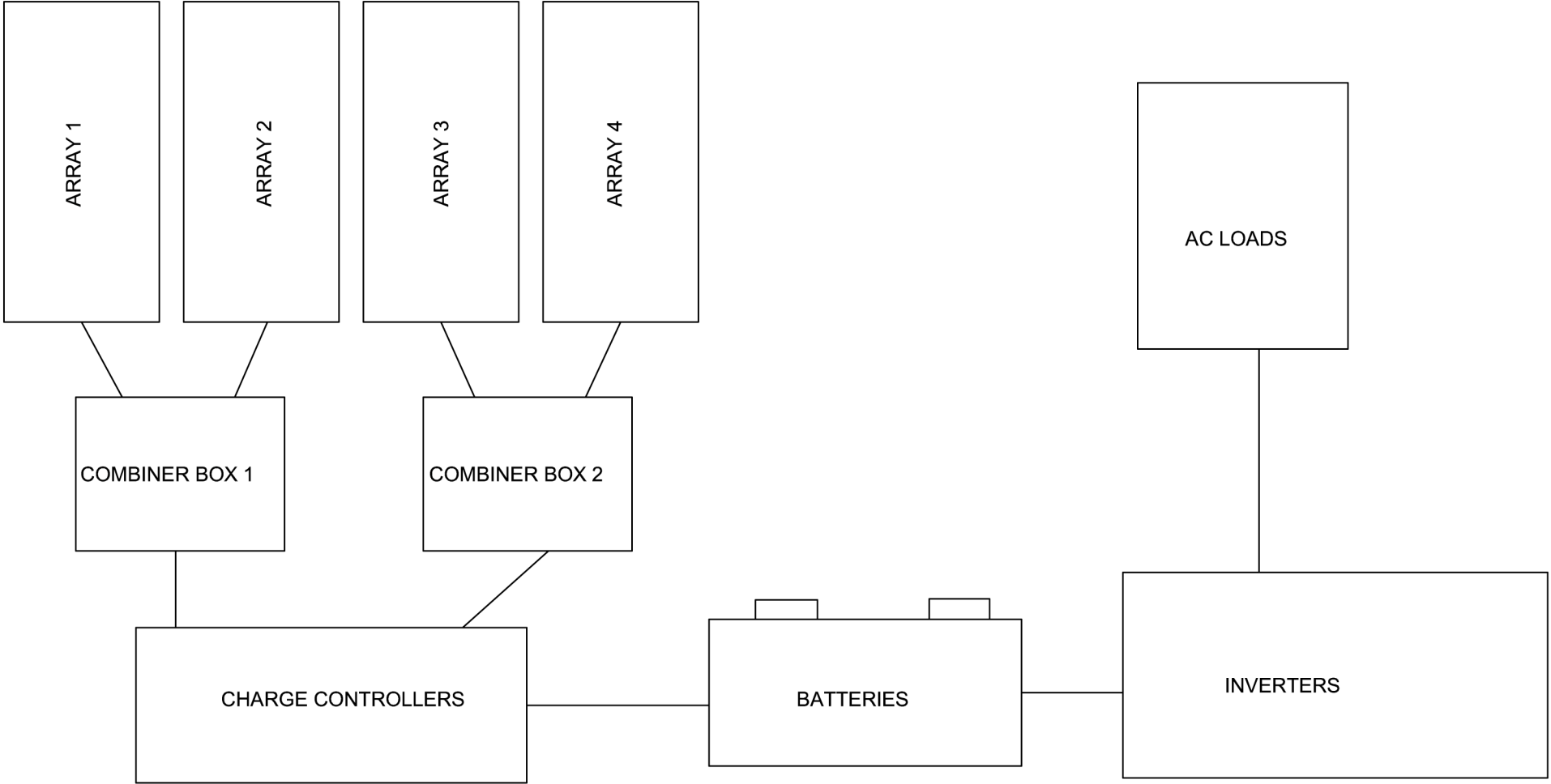
(607) 277 - 7475

Project: 2007 Solar Decathlon

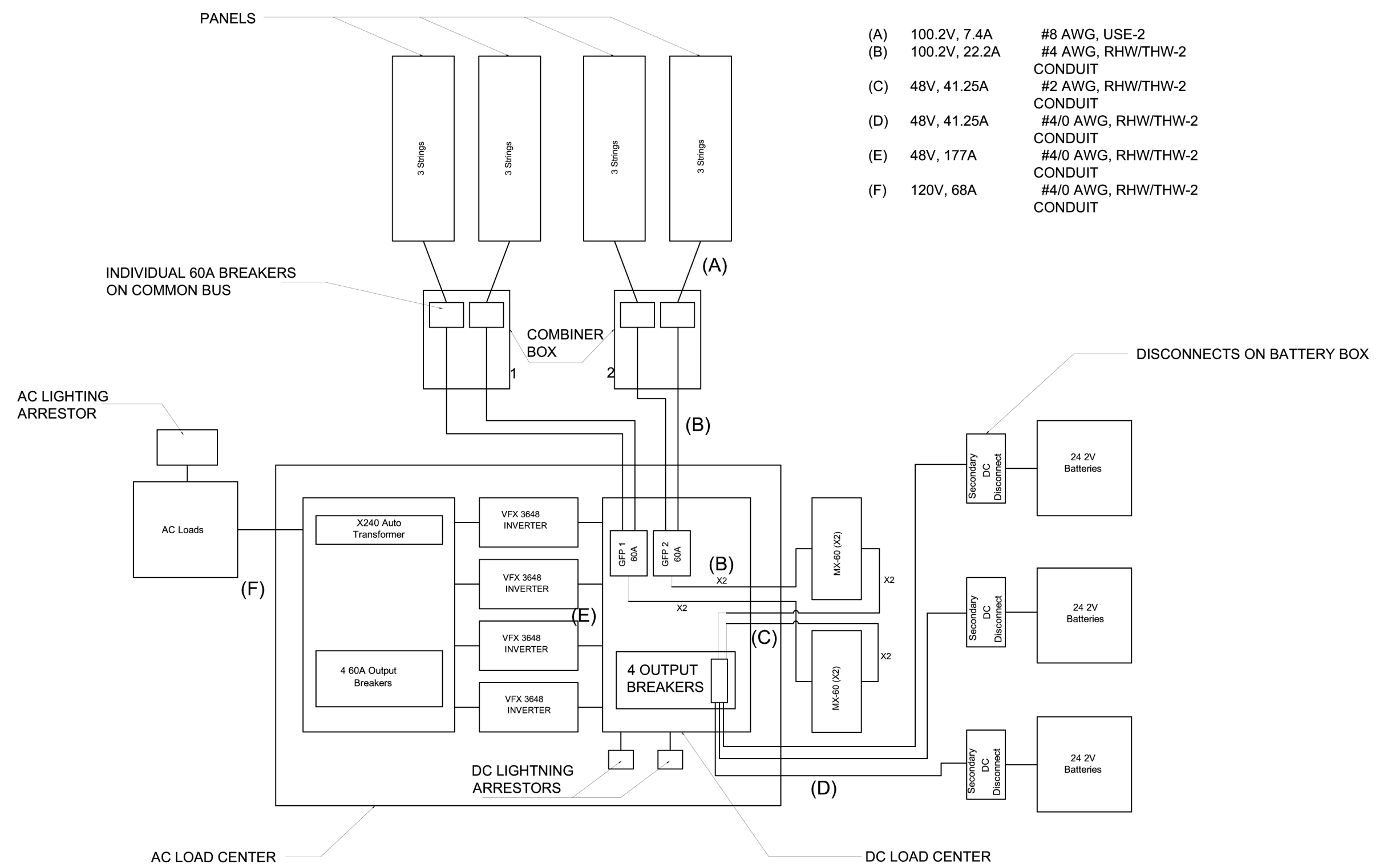
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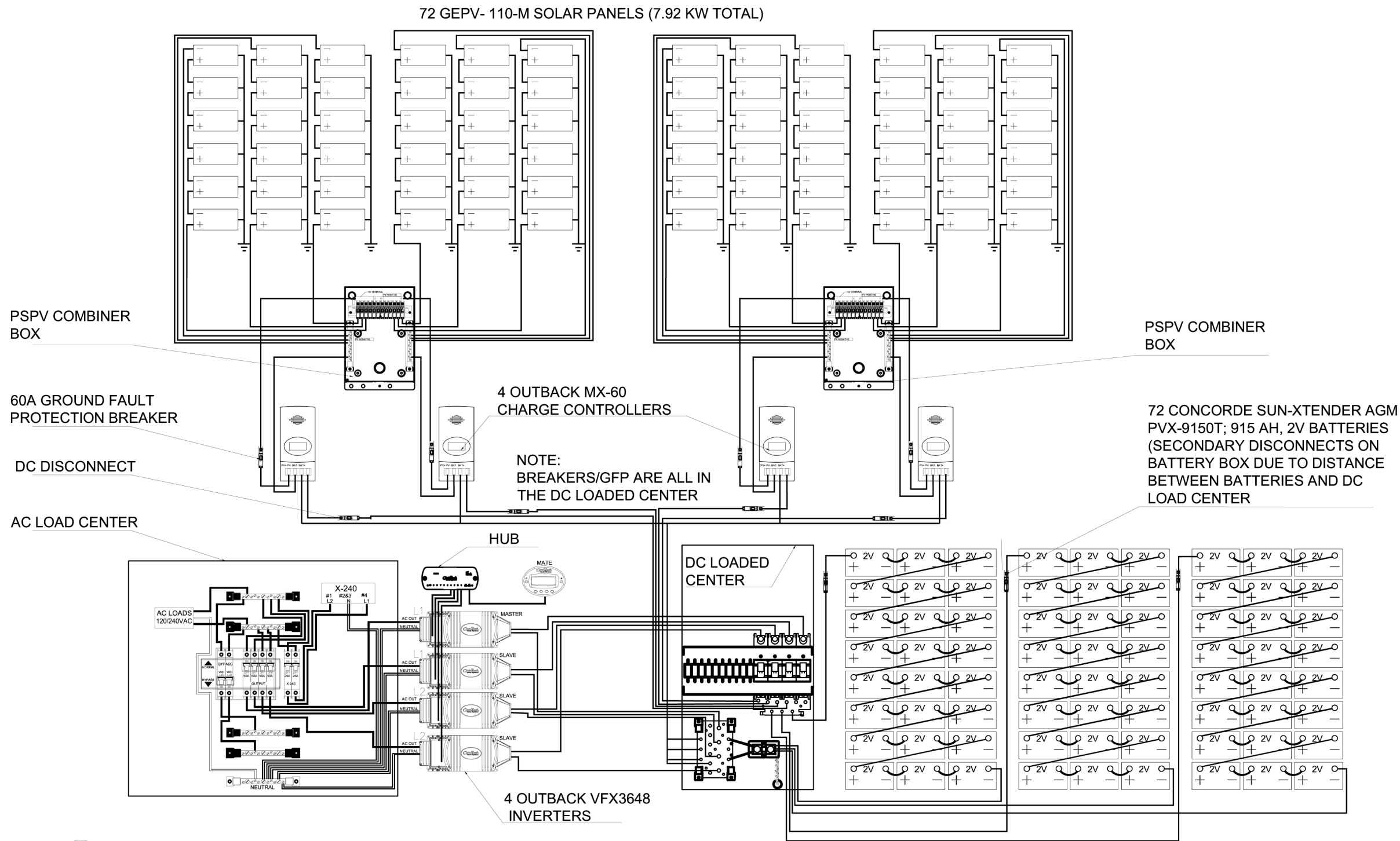
Reviewed By: DEB



NOTE:
DISCONNECTS ON BOTH SIDES
OF THE CHARGE CONTROLLERS
AND THE BATTERIES



EP-101	Cornell University Solar Decathlon 909 Mitchell Street Ithaca, New York 14850 (607) 277 - 7475		
	Project: 2007 Solar Decathlon		
	File Name: EP-101.dwg		
	Drawn By: WWK		
Reviewed By: DEB		Seal:	Issue: 06/13/06 - DD Submission 07/28/06 - CD Submission 03/06/07 - CD Submission II 08/07/07 - Final Submission 12/09/08 - As Built Submission
ONE LINE WIRING PLAN			



1
EP-102

THREE LINE WIRING PLAN

SCALE: N/A

EP-102

THREE LINE WIRING PLAN

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission

12/09/08 - As Built Submission

Seal:

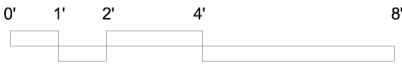
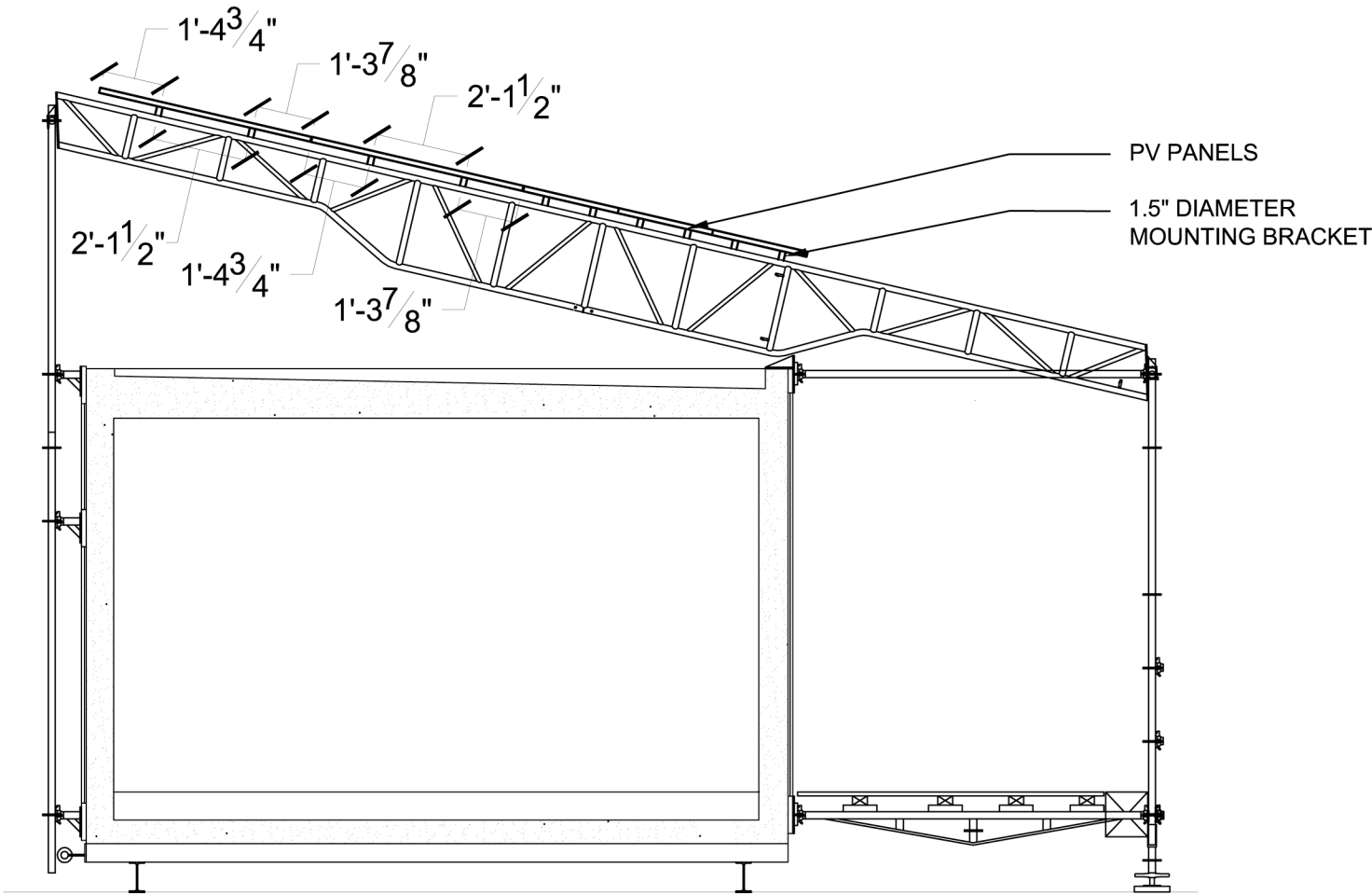
Cornell University Solar Decathlon
909 Mitchell Street
Ithaca, New York 14850
(607) 277 - 7475

Project: 2007 Solar Decathlon

File Name: EP-102.dwg

Drawn By: WWK

Reviewed By: DEB



EP-104

PV ARRAY
SECTION

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission

12/09/08 - As Built Submission

Seal:

Cornell University Solar Decathlon
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Ithaca, New York 14850
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Project: 2007 Solar Decathlon

File Name: EP-104.dwg

Drawn By: JCN

Reviewed By: DEB

ELECTRICAL POWER SCHEDULE						
Symbol	Component	Quantity	Manufacturer	Model	Specs	Comments
A	PV Panel	69	GE	GEPV-110	110V @ 16.7V, 6.6A	Not pre-wired, used MC connectors; mount using clamps, not mounting holes
B	Combiner Box	2	Outback	PSPV	Max Open Circuit 150VDC	Configured for 2 strings of panels
C	Inverter	4	Outback	VFX3648	3600W, 48VDC	Mounted vertically due to space constraints
D	Charge Controller	4	Outback	MX60	150VOC, 60A Max	
E	AC Disconnect Box	1	Outback	FW1000AC	38.5x11.4x12.1"	Drilled own knockout holes due to different configuration from the FLEXware1000 system
F	DC Disconnect Box	1	Outback	FW1000DC	38.5x11.4x12.1"	Drilled own knockout holes due to different configuration from the FLEXware1000 system
G	Batteries	72	Concorde	Sun-Xtender AGM PVX-9150T	2V, 915Ah	
H	Battery Box	3	Direct Power	Custom	37"x66"x17" high (21" high including skid channels and lid)	
I	PV Breakers	12	Circuit Breaker Industries	OBB-15-125VDC-DIN	15A, 125VDC	
J	Inverter Breakers	4	Circuit Breaker Industries	OBB-250-125VDC-PNL	250A	
K	AC Breakers	8	Circuit Breaker Industries	OBB-60-277VAC-DIN	60A	
L	DC Breakers	4	Outback	CA1-XD-10-906-321-V6	60A	
M	Auto Transformer	1	Outback	FWX240	120/240V	

*NOTE: SCHEDULE REFERS TO LETTERS ON EP-102

EP-500

ELECTRICAL
POWER
SCHEDULE

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07- CD Submission II
08/07/07 - Final Submission
12/09/07 - As-Built Submission

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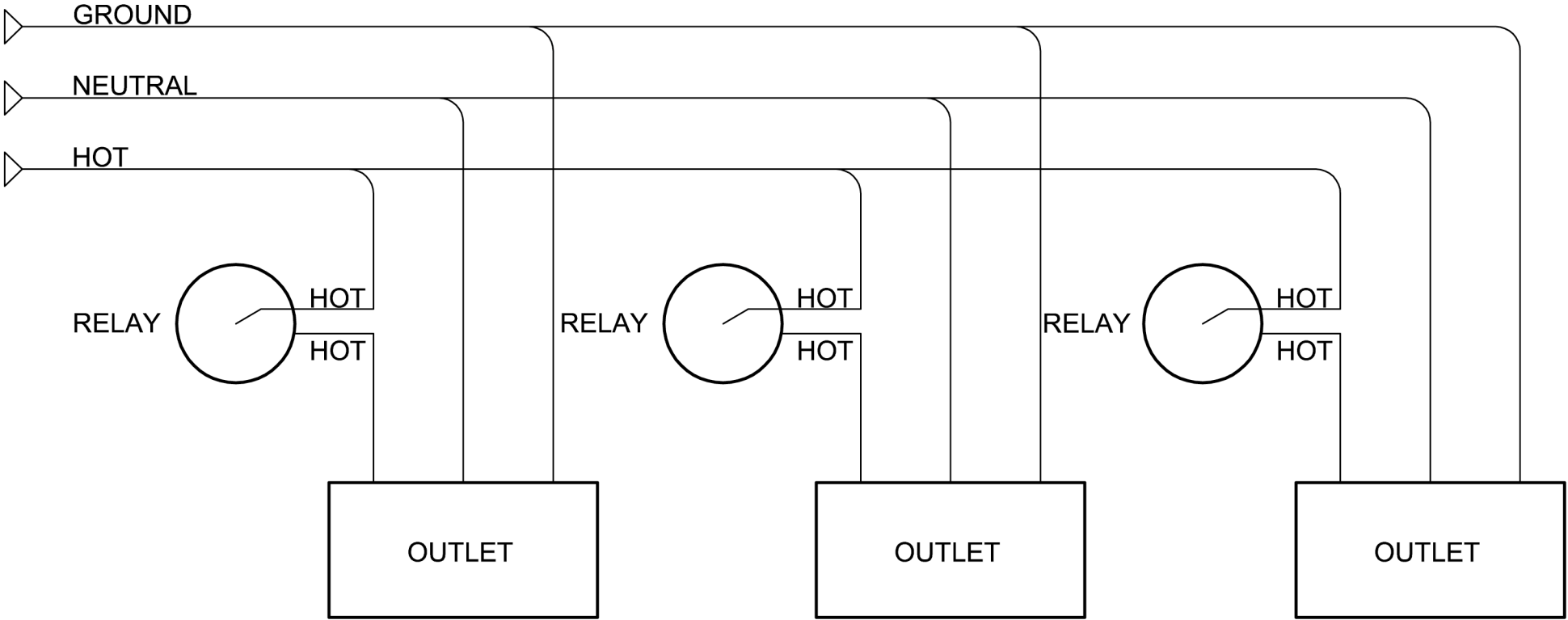
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Project: 2007 Solar Decathlon

File Name: EP-500.dwg

Drawn By: WWK

Reviewed By: DEB



EW-100

ELECTRICAL
WIRING
SCHEMATIC

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission

12/09/08 - As Built Submission

Seal:

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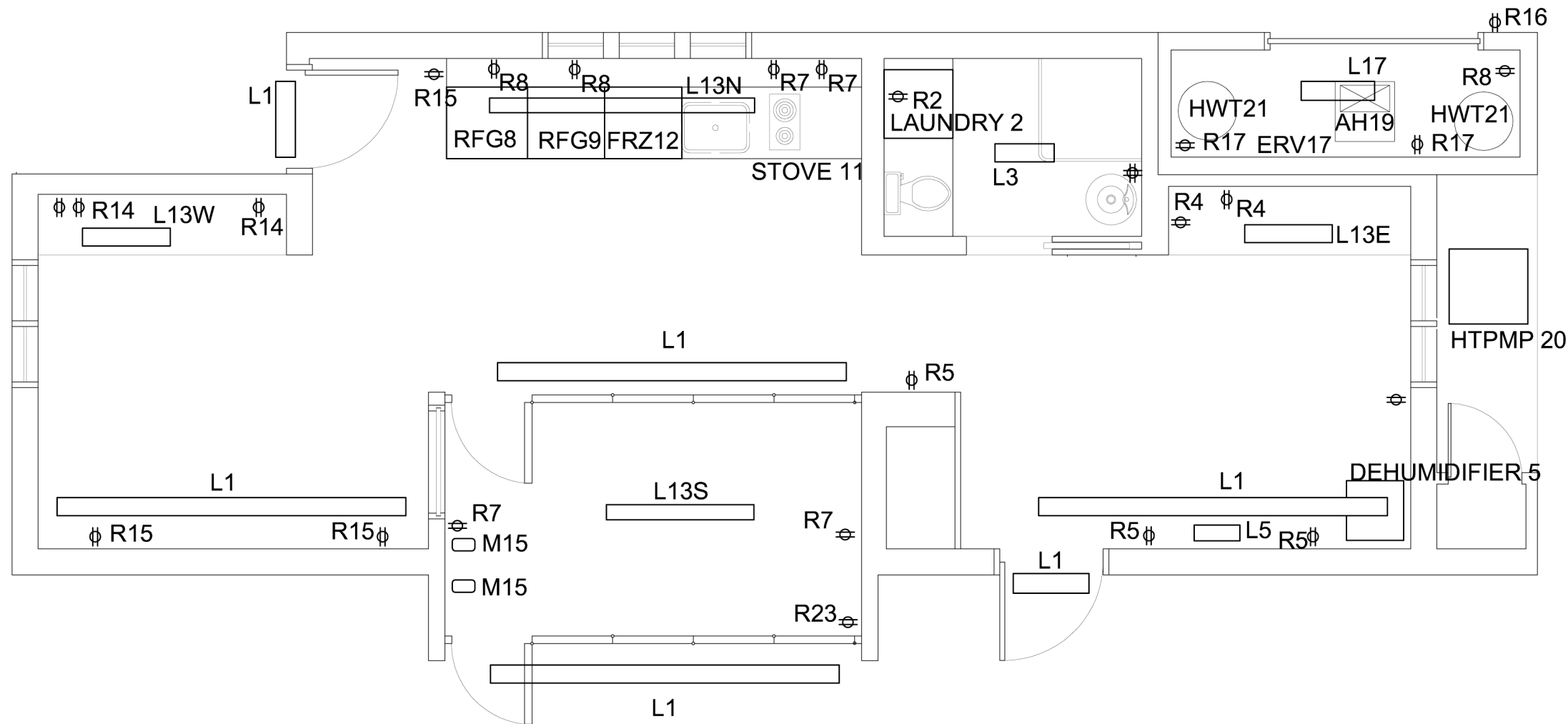
Project: 2007 Solar Decathlon

File Name: EW-100.dwg

Drawn By: SFR

Reviewed By: DEB

CIRCUIT	ROOM	VOLTAGE	AMPERAGE	POS. IN BOX	ITEMS SERVED	RECEPTACLE TYPE
1	DIMMABLE LIGHTS	120V	15A	1 LEFT	ALL NON TASK LIGHTS	JUNCTION BOXES
2	BATHROOM	120V	15A	1 RIGHT	LAUNDRY MACHINE (10A)	(1) 120V 15A SINGLE
3	BATHROOM	120V	20A	2 LEFT	RECEPTACLES (2), HALOGEN MIRROR LAMPS, CEILING FIXTURE	(2) 120V 20A DUPLEX GFCI (1) DOUBLE GANG BOX
4	BEDROOM	120V	20A	3 LEFT	RECEPTACLES NORTH WALL (3)	(3) 120V 20A DUPLEX GFCI (3) SINGLE AFCI
5	BEDROOM	120V	20A	3 RIGHT	RECEPTACLES SOUTH WALL (3), DEHUMIDIFIER	(2) 120V 20A DUPLEX GFCI (2) DOUBLE GANG BOX
6	KITCHEN	120V	20A	5 LEFT	RECEPTACLES ONLY (2)	(2) 120V 20A DUPLEX GFCI (2) SINGLE (COUNTER)
7	KITCHEN	120V	20A	5 RIGHT	RECEPTACLES ONLY (4)	(4) 120V 20A DUPLEX GFCI, (2) SINGLE (COUNTER), (2) SINGLE (SUNROOM)
8	KITCHEN	120V	15A	6 LEFT	REFRIGERATOR 1 (115V, 15A)	(1) 120V 15A SINGLE
9	KITCHEN	120V	15A	6 RIGHT	REFRIGERATOR 2 (115V, 15A)	(1) 120V 15A SINGLE
10	KITCHEN	120V	15A	7 LEFT	MICROWAVE (15A)	(1) 120V 15A SINGLE
11	KITCHEN	240V	20A	10-11 LEFT	INDUCTION STOVE (20A)	REQUIRES 3 WIRE 12 AWG, JUNCTION BOX
12	KITCHEN	120V	20A	8 LEFT	DISHWASHER, FREEZER	(2) 120V 15A DUPLEX (2) SINGLE
					DIMMER KITCHEN TASK LIGHTS	
14	LIVING ROOM	120V	20A	4 RIGHT	RECEPTACLES (3) (FOR ENETERTAINMENT SYSTEMS) (NORTH WALL)	(3) 120V 20A FLOOR DUPLEX (1) SINGLE (1) DOUBLE
15	LIVING ROOM	120V	20A	4 LEFT	RECEPTACLES (3), MECHOSHADE (SOUTH WALL), TOUCHSCREEN	(3) 120V 20A FLOOR DUPLEX (3) SINGLE (1) JUNCTION BOX
16	MECHANICAL CLOSET	120V	15A	7 RIGHT	ELECTRIC CAR	(1) 120V 15A DUPLEX GFCI (1) SINGLE
17	MECHANICAL CLOSET	120V	20A	2 RIGHT	PUMPS, ERV, LIGHT	(4) JUNCTION BOXES
18	MECHANICAL CLOSET	120V	20A	9 LEFT	CONTROLS, HUMIDIFIER	(4) 120 V 15A DUPLEX (2) SINGLE (1) DOUBLE
19	MECHANICAL CLOSET	240V	20A	12-13 RIGHT	HEATING ELEMENT/ AIR HANDLER	REQUIRES 3 WIRE 12AWG JUNCTION BOX
20	MECHANICAL CLOSET	208V	20A	12-13 LEFT	HEAT PUMP	REQUIRES 3 WIRE 12AWG JUNCTION BOX
21	MECHANICAL CLOSET	120V	15A	10 RIGHT	HOT WATER TANK	REQUIRES 3 WIRE 12AWG JUNCTION BOX
22	OUTDOORS	120V	20A	9 RIGHT	PUMP	WETLAND PUMP 9AMP120V
23	OUTDOORS	120V	20A	8 RIGHT	LIGHTS, BUMP OUT	



1
EW101

ELECTRICAL WIRING
PLAN

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

Issue:

06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
12/09/07 - As-Built Submission

EW-101

ELECTRICAL
WIRING
PLAN

Seal:

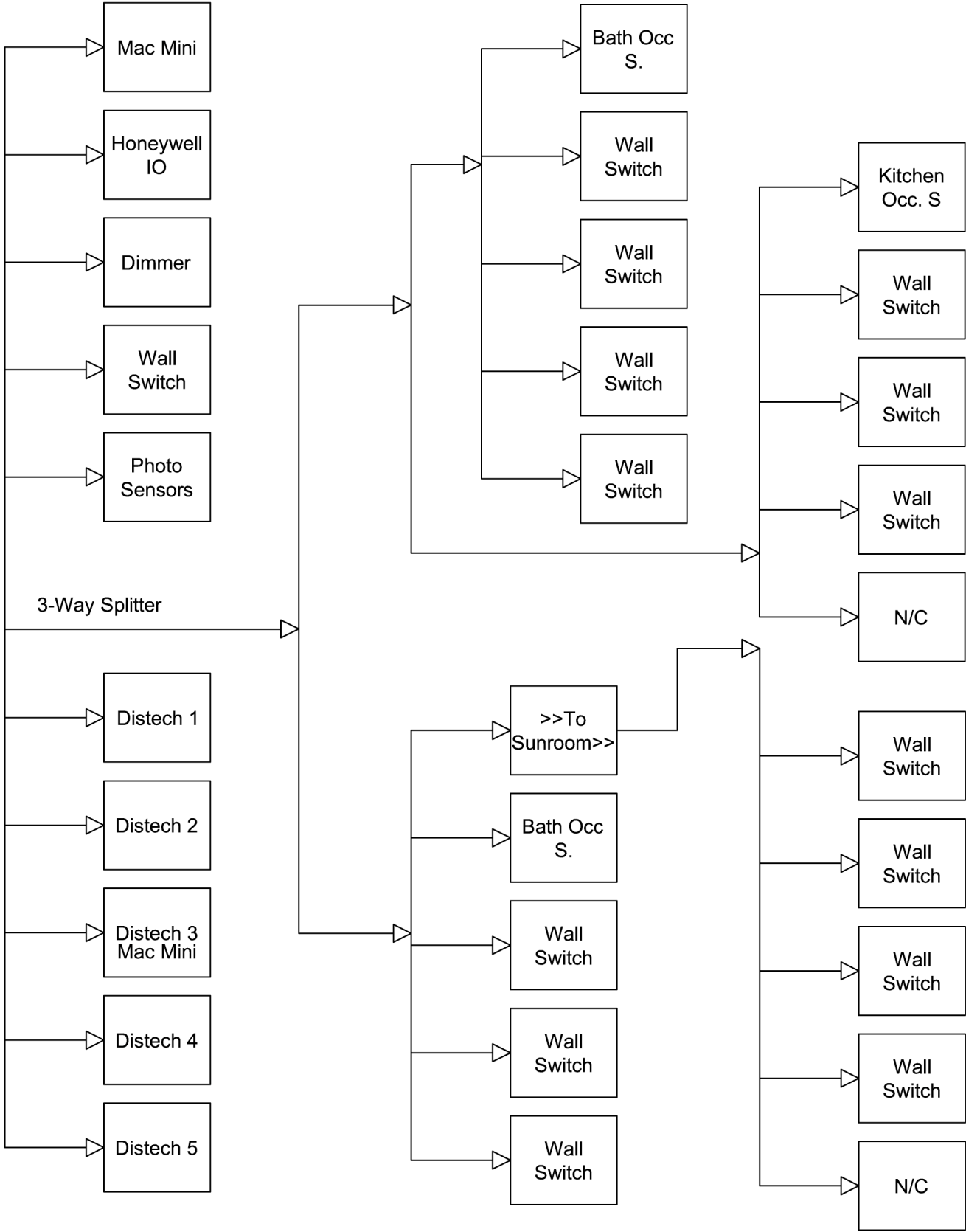
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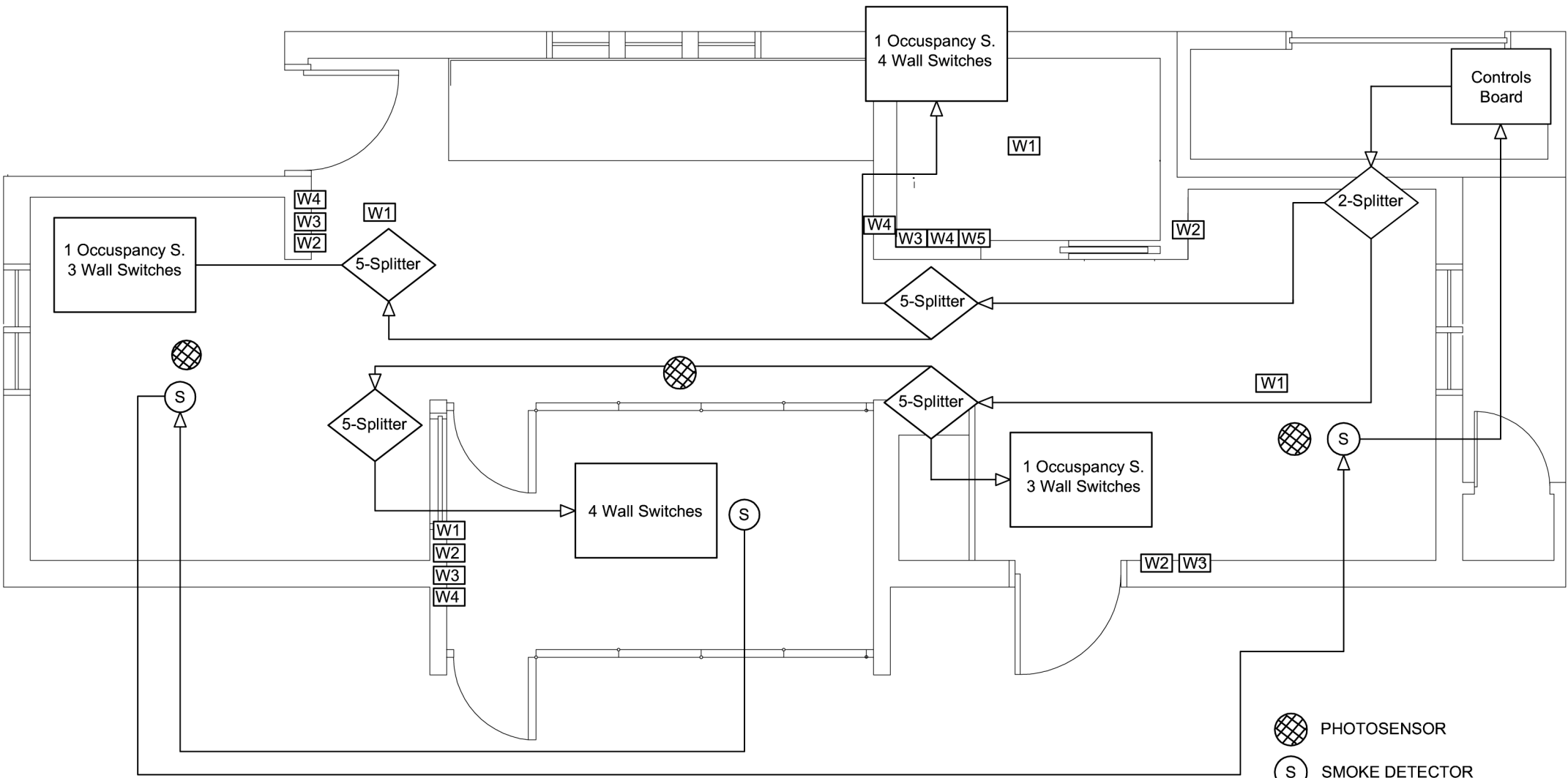
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<div>CN-100</div> <div>MECHANICAL CLOSET CONTROL SCHEMATIC</div>	Issue: 06/13/06 - DD Submission 07/28/06 - CD Submission 03/06/07 - CD Submission II 28/07/07 As Built Submission 28/07/07 Final Submission	Seal:	Cornell University Solar Decathlon 909 Mitchell Street Ithaca, New York 14850 (607) 277 - 7475		
			Project: 2007 Solar Decathlon		
			File Name: CN-100.dwg		
			Drawn By: JCN		
			Reviewed By: DEB		



PHOTOSENSOR
SMOKE DETECTOR
WALL SWITCH



CN-101

CONTROLS
NETWORK
PLAN
SCHEMATIC

Issue:
06/13/06 - DD Submission
07/28/06 - CD Submission
03/06/07 - CD Submission II
08/07/07 - Final Submission
2007/08/07 AS BUILT SUBMISSION

Seal:

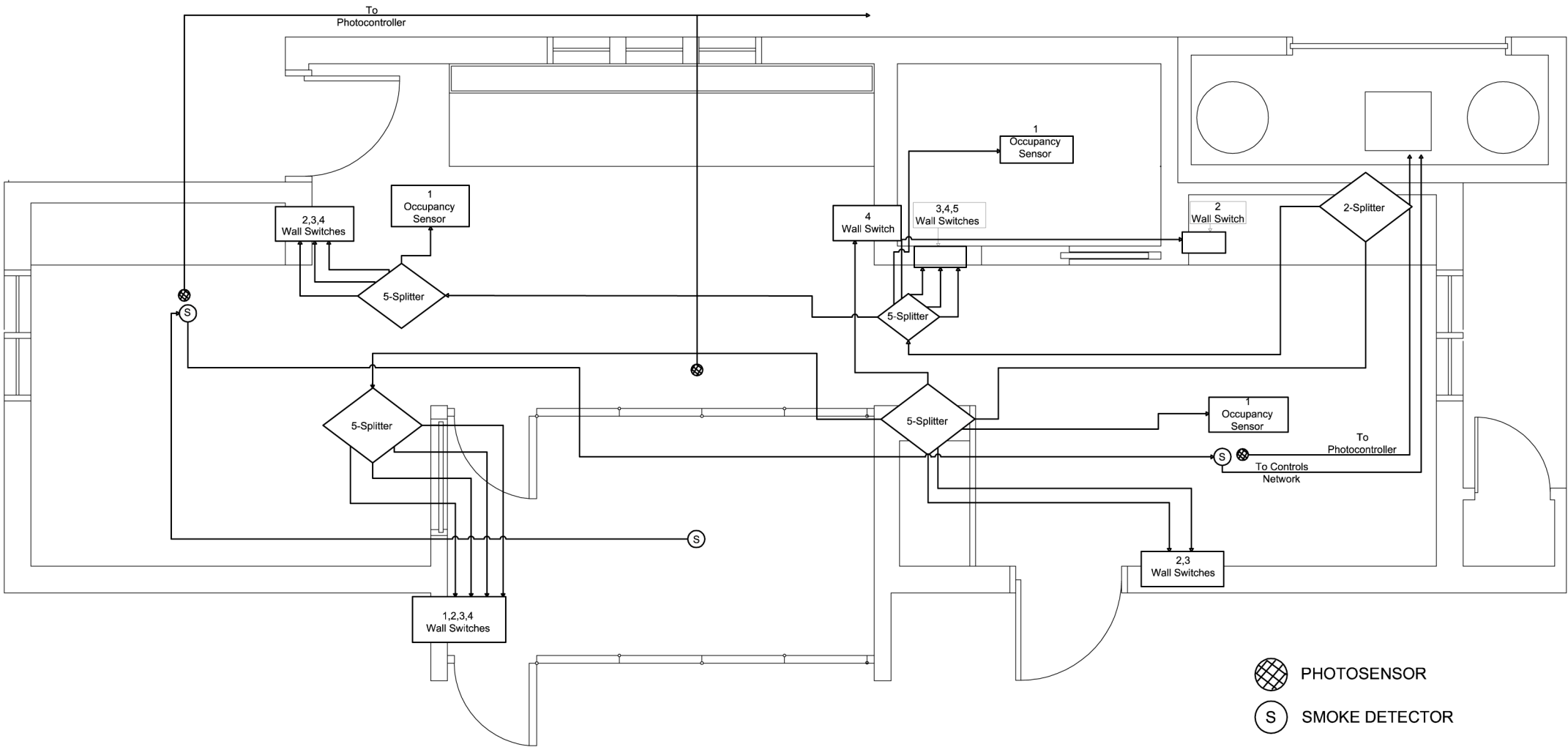
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File Name: CN-102.dwg

Drawn By: JCN

Reviewed By: DEB

CN-102

CONTROLS
NETWORK
PLAN