re ACT
University of Maryland, College Park
U.S. Department of Energy Solar Decathlon 2017 Submission
SITE PLAN NOTES

1. MARYLAND CONTEST SPACE 108'X95'
2. SOLAR ENVELOPE 78'X60'

SITE PLAN

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

SITE PLAN & VICINITY PLAN

G-001
Visitors in front of house will exit through exit door.

Path of Travel A: 109'

Path of Travel B: 108'

Path of Travel C: 105'

Path of Travel D: 94'

Path of Travel E: 80'

Visitors in rear of house will exit through entry door.

Visitors in living room can exit either way: 79' through courtyard or 84' through living room door.

Common Path: 13'

Egress Path A: 13' + 16' = 29'

Egress Path B: 13' + 14' = 27'

Egress Path C: 13' + 16' = 29'

Egress Path D: 13' + 18' = 31'

Egress Path E: 13' + 18' = 31'

Egress Path F: 18'

90% CD SET

EGRESS & EVACUATION PLAN

Scale: 1/4"=1'-0"
GENERAL SHEET NOTES

1. SLEEPERS FOR PLANTERS, TYPICAL.
2. THRESHOLD PLATE
3. SEE SPEC NO.093040 FOR WALKING & DRIVING SURFACE (PERMEABLE PAVERS)
4. SLEEPERS FOR FILTERED WASTE TANK, TYPICAL.
5. SLEEPERS FOR GREYWATER TANK, TYPICAL.
6. ALL FOUNDATION AND AUXILIARY ELEMENTS RESIDING ON GRADE SHALL NOT EXCEED THE MAXIMUM ALLOWABLE SOIL LOAD OF 2500 PSF AND SHALL COMPLY WITH RULE 5-5 FOUNDATION.
7. FOR FOOTING DETAIL REFER TO S-400
8. FOR ADJUSTABLE JACK REFER TO SPEC NO.109000

LEGEND

- 20" 12x12" FOUNDATION PAD
- 10x10" 12x12" FOUNDATION PAD
- 10x10" CIP CNG FOUNDATION PAD
- 11" C15# PRECAST CONCRETE DECK FOOTING
- 2 CM WOOD RISERS

NORTH ARROW SCALE

GROUND CONTACT PLAN

1. SCALE: 1/4"=1'-0"
GENERAL NOTES

1. PROGRESSIVE COUNTER

NORTH-SOUTH SECTION THROUGH COURTYARD LOOKING EAST

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

NORTH-SOUTH SECTION LOOKING EAST

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

BUILDING SECTIONS

A-302
1. Refer to specification for details.
2. See detail sheet and specification for material dimensions.
3. See building sections for overall height dimensions.
GENERAL NOTES

1. REFER TO SPECIFICATION FOR DETAILS.
2. SEE DETAIL SHEET AND SPECIFICATION FOR MATERIAL DIMENSIONS.
3. SEE BUILDING SECTIONS FOR OVERALL HEIGHT DIMENSIONS.

TYPICAL SECTION AT ATTIC THROUGH CORRIDOR
TYPICAL COURTYARD WALL SECTION
TYPICAL EXTERIOR WALL SECTION AT GREENHOUSE
GENERAL NOTES

1. REFER TO SPECIFICATION FOR DETAILS.
2. SEE DETAIL SHEET AND SPECIFICATION FOR MATERIAL DIMENSIONS.
3. SEE BUILDING SECTIONS FOR OVERALL HEIGHT DIMENSIONS.
1. MOVEABLE COUNTER

GENERAL NOTES

NORTH ELEVATION

EAST ELEVATION

WEST ELEVATION

DETAILED BATHROOM PLAN

Scale: 3/4"=1'-0"
GENERAL NOTES

5. SOLAR OVEN ABOVE

7. ADJUSTABLE FURNITURE

ENLARGED KITCHEN PLAN

Scale: 3/4" = 1'-0"
GENERAL NOTES

1. REMOVABLE COUNTER

WEST ELEVATION

Scale: 1"=1'-0"
SUPPLY DUCT FOR ERV HARVESTING HEAT STORED IN GREENHOUSE

EXHAUST DUCT SPEC NO.084000

FOLDING DOOR SYSTEM
SPEC NO.083100

PITCH OF CORE

HANGAR DOOR SPEC NO.083200

VENT SPEC NO.084000

OPAQUE PANEL

ALSO ATTACHMENT POINT FOR
ROOF OPERATOR

GLASS HANGAR DOOR IN
CLOSED POSITION
SPEC NO.083200

SOUTH COURTYARD ELEVATION

NORTH COURTYARD ELEVATION

WEST COURTYARD ELEVATION

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

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A-422
AWNING WINDOW DETAIL

CASEMENT WINDOW DETAIL

STANDARD PUSH OUT HINGE

RH UNIT SHOWN

PIANO HINGE

RH UNIT SHOWN

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11/17/2016

Scale: 6"=1'-0"

Scale: 6"=1'-0"

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GENERAL NOTES

Andersen Windows
Ref Drawing A-500
Ref Drawing A-400

NORTH ARROW & SCALE

WINDOW DETAILS
A-500
### INTERIOR MATERIALS

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<thead>
<tr>
<th>ROOM NO.</th>
<th>ROOM NAME</th>
<th>FLOOR</th>
<th>BASE</th>
<th>WALLS</th>
<th>CEILING</th>
<th>COMMENTS</th>
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<td>HW-1</td>
<td>HW-1</td>
<td>PL-1</td>
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<td>DINING ROOM</td>
<td>WD-1</td>
<td>WB-1</td>
<td>PT-1</td>
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<td>KITCHEN</td>
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<td>WB-1</td>
<td>PT-1</td>
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<td>CP-1</td>
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<td>GYP-1</td>
<td>GYP-1</td>
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<td>RESTROOM</td>
<td>T-1</td>
<td>P-1</td>
<td>GYP-1 &amp; T-2</td>
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<td>PL-1</td>
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<td>PL-1</td>
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<td>107</td>
<td>COURTYARD</td>
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<td>GLZ-1</td>
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<td>CORRIDOR</td>
<td>T-1</td>
<td>T-1</td>
<td>GYP-1</td>
<td>GYP-1</td>
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### EXTERIOR MATERIALS

#### MATERIALS SCHEDULE

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<tr>
<th>MATERIAL</th>
<th>DESCRIPTION</th>
<th>MANUFACTURER</th>
<th>COLOR/FINISH</th>
<th>SIZE</th>
<th>COMMENTS</th>
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</thead>
</table>

**Interior Materials:**

- **HW-1:** Hardwood flooring
  - **Manufacturer:** Stone & Source
  - **Color/Finish:** Reclaimed Barn Siding - Naturally Weathered
  - **Size:** T-1
  - **Comments:** Material is produced to order. Typically sold as a random grey-brown mixture of species, but can also come as an all oak mixture upon request.

- **T-1:** Limestone flooring
  - **Manufacturer:** Stone & Source
  - **Color/Finish:** Courtaud Beige-Taupe/Honed
  - **Size:** 2' x 2'
  - **Ability of Material to Resist Surface Wear**

- **T-2:** Concrete pavers
  - **Manufacturer:** Stone & Source
  - **Color/Finish:** Baycliff Caulfeild Beige-Taupe
  - **Size:** 1' x 2'
  - **Availability:** Items available for shipping within 7 days or less. Available in smaller quantities.

- **B-1:** Hardwood base
  - **Manufacturer:** Stone & Source
  - **Color/Finish:** Reclaimed Barn Siding - Naturally Weathered
  - **Size:** T-1
  - **Comments:** Material is produced to order. Typically sold as a random grey-brown mixture of species, but can also come as an all oak mixture upon request.

- **FT-1:** Flooring transition
  - **Manufacturer:** Stone & Source
  - **Color/Finish:** Reclaimed Barn Siding - Naturally Weathered
  - **Size:** T-1
  - **Comments:** Material is produced to order. Typically sold as a random grey-brown mixture of species, but can also come as an all oak mixture upon request.

- **GYP-1:** Gypsum board
  - **Manufacturer:** American Gypsum
  - **Color/Finish:** FireBloc Type X - 1/2" thick
  - **Rating:** 1-hour fire rating

- **PL-1:** Plywood
  - **Manufacturer:** GCI - Gorilla Composite, Inc.
  - **Color/Finish:** Composite panel stained 3/8"
  - **Included in structural insulated panels**

- **C-1:** Countertop
  - **Manufacturer:** LG Hausys Hi-Macs Eden Plus
  - **Color/Finish:** 1/2" thick, 12% recycled content

- **CS-1:** Corrugated steel wall panel
  - **Manufacturer:** Pacific Cladding
  - **Color/Finish:** 7/8" corrugated metal panels

- **WC-1:** Wood cladding
  - **Manufacturer:** Kebony Scots Pine Cladding
  - **Color/Finish:** Stain coating with sealant
  - **Certifications:** FSC certified & ILFI Redlist compliant

- **D-1:** Wood decking
  - **Manufacturer:**

- **GLZ-1:** Glass and ceramic tile
  - **Manufacturer:** Fire Clay Tile
  - **Color/Finish:** White Gloss
  - **Size:** 3" x 6"
  - **Comments:** Kitchen backsplash & bathroom

- **PAINT - EGG SHELL:**
  - **Manufacturer:** Benjamin Moore Natura
  - **Color/Finish:** White/Egg Shell - Acrylic latex
  - **Zero VOC (Volatile Organic Compounds)**: According to EPA Method 24 & certified asthma & allergy friendly.
1. All foundations and elements residing on
    ground shall not exceed the maximum allowable
    soil loads of 2,500 PSF and shall comply with RULE
    5-5 FOUNDATION
2. For footing details, refer to S-400
3. For adjustable jack, refer to FP-100/109000

Legend:
- 2'-6" x 2'-6" Foundation Pad
- 1'-10" x 1'-10" Foundation Pad
- 1'-6" x 1'-6" Foundation Pad
- Denotes Concrete Bearing Slab Sizing

North Arrow & Scale:
- Scale: 1/4" = 1'-0"

Foundation Plan
DeCAThLETE WAY

General Sheet Notes:
- All foundations and elements residing on
ground shall not exceed the maximum allowable
soil loads of 2,500 PSF and shall comply with RULE
5-5 FOUNDATION
- For footing details, refer to S-400
- For adjustable jack, refer to FP-100/109000

Legend:
- 2'-6" x 2'-6" Foundation Pad
- 1'-10" x 1'-10" Foundation Pad
- 1'-6" x 1'-6" Foundation Pad
- Denotes Concrete Bearing Slab Sizing

North Arrow & Scale:
- Scale: 1/4" = 1'-0"
GENERAL SHEET NOTES

1. All foundation and auxiliary elements residing on grade shall not exceed the maximum allowable soil load of 2500 PSF and shall comply with rule 5-5 Foundation.

2. For adjustable jack refer to Spec No. 109000.

PLY-FOOTING SCHEDULE

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<th>FOOTTING SIZE</th>
<th>E</th>
<th>L</th>
<th>W</th>
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<td>PL1</td>
<td>24&quot; 3/4&quot;</td>
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<tr>
<td>PL2</td>
<td>1 3/4&quot; 3 1/2&quot;</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>PL3</td>
<td>1 1/8&quot; 1 1/8&quot;</td>
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<tr>
<td>PL4</td>
<td>3 3/4&quot; 2 7/8&quot;</td>
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PLANTER DETAIL @ HANGAR DOOR

- Wood Decking: Spec No. 061500
- P.T. 2x8
- Plants: Spec No. 329300
- Continuous Wood Lap Siding: Spec No. 073100
- Hangar Door: Spec No. 083200

ADJUSTABLE FOUNDATION SECTION

- Bearing Slab
- Adjustable Jack: Spec No. 109000
- SIP: Spec No. 061000
- 16d Nails, Typ. 1x6 Kicker
- 16d Nails, Typ. 11"x11" Precase Conc. Pier
- 4x4 Post, Typ. 1/2" Blocking, Typ.
- 1/2" x 2.5" SDS Screws @ 16" O.C. Staggered EA. Side

SOIL

RIVER WASHED GRAVEL

WEEP HOLE

2x4 SLEEPER

P.T. (3) 2x8, Typ.
1. ALL EXTERIOR WOOD JOISTS AND BEAMS TO BE P.T. SO. PINE.
2. ALL EXTERIOR WOOD RAILS AND FINISHES TO BE THERMO-TREATED ASH.
1. **MECHANICAL ROOM EAST ELEVATION**
   - Scale: 3/8"=1'-0"

2. **MECHANICAL NORTH ELEVATION**
   - Scale: 3/8"=1'-0"

3. **MECHANICAL ROOM WEST ELEVATION**
   - Scale: 3/8"=1'-0"

4. **MECHANICAL ROOM ENLARGED PLAN**
   - Scale: 3/8"=1'-0"

**GENERAL NOTES**
1. **MOVEABLE COUNTER**
2. **NORTH ARROW & SCALE**
3. **3/8"=1'-0"**

**MECHANICAL ROOM**
- ERV SPEC # 237200
- HOT WATER TANK SPEC # 223300
- CONDENSING UNIT SPEC # 236300
- CARBON FILTER SPEC # 223200
- WIND VANE SPEC # 958804
- PLATFORM SPEC # 005511
- DRUM HUMIDIFIER SPEC # 238413
- METER SPEC # 206413

**MECHANICAL ELEVATION**
- MECHANICAL ROOM EAST ELEVATION
- MECHANICAL NORTH ELEVATION
- MECHANICAL ROOM WEST ELEVATION
- MECHANICAL ROOM ENLARGED PLAN

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**DATE**
- 11/17/2016

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- Solar Decathlon 2017 Submission
GENERAL NOTES

1. SEE M200 MECHANICAL CLOSET ELEVATIONS FOR CLARIFICATION OF SYSTEMS.

2. THE EXHAUST MUST BE 36" MIN. ABOVE INTAKE PORTION; DOOR PORTION SWINGS FREE AND WALL PORTION IS FIXED.

---

SCALE: 3/8"=1'-0"
The lighting control system will allow for automatic control of the lighting. This will allow for advanced energy saving capabilities and the ability of the occupants to control the lighting in each portion of the house by smartphone or tablet "apps".

Please reference lighting control specification.

SHEET KEYNOTES
1. LED INTERIOR LIGHTING, SPEC # 265119
2. LED EXTERIOR LIGHTING, SPEC # 265619
3. VENT DAMPERS, SPEC # 235113.16

NORTH ARROW & SCALE

LIGHTING PLAN
GENERAL NOTES
1. REFER TO PANEL SCHEDULES ON E-600 FOR MORE INFORMATION

ELEC. DISTRIBUTION NOTES
1. GFCI GROUND FAULT CIRCUIT INTERRUPTER
2. NP NON-CRITICAL PANEL
3. CP CRITICAL PANEL
4. MP MAIN BREAKER

SHEET KEYNOTES
1. PANEL BOARDS, SPEC # 262416
2. ENCLOSED SWITCHES AND CIRCUIT BREAKER, SPEC # 262816

ELECTRICAL DISTRIBUTION PLAN

NORTH ARROW & SCALE

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COLLEGE PARK, MD 20742
11/17/2016

90% CD SET

ELECTRICAL DISTRIBUTION PLAN

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

1. Panel Board (Junction Box), Spec # 262416
2. Water Pump, Spec # 222400
3. Radiant Heating Unit, Spec # 238323
4. Split System Air Conditioners, Spec # 238126

HARDWIRED EQUIPMENT PLAN

Scale: 1/4" = 1'-0"
**CRITICAL LOAD PANEL**

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<tr>
<th>KW</th>
<th>SERVICE</th>
<th># OF PLS</th>
<th>CKT BKR</th>
<th>CKT NO.</th>
<th>KW (AWG)</th>
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<td>1-20</td>
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**NON-CRITICAL LOAD PANEL**

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**MAIN BREAKER PANEL**

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<td>1-20</td>
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**SCHEDULES**

E-600
One Wire Diagram: Micro Inverter Setup

- Microinverter 1
- Microinverter 2
- Microinverter 3
- Microinverter 4
- Microinverter 5
- Microinverter 6
- String 1: Disconnected
- MPPT charge controller
- String 2: Disconnected
- Battery Bank
- GV DCDC Inverter
- 0/1 DCDC Rectifier
- String 3: Disconnected
- 1 12 AWG (4m)
- 2 12 AWG (4m)
- 1 12 AWG (4m)
- 02 Breaker

General Notes:
- Microinverters are designed to shutdown the array when they detect failure of the grid.
- Panel: Max 335W
- Micro-Inverter: Amphenol H4 Connector
- 250 Breaker
- 171 x 173 x 30mm (without backer)
- No Scale

PhotoVoltaic One-Line Wire Diagram

North Arrow & Scale

Diagram Scale: 10' = 1-1/4"
3 Wire Diagram

Panel String 1: 1-16 panels (Each panel has a maximum capacity of 335W)

Panel String 2: 17-32 panels

Panel String 3: 33-48 panels

Microinverter 1
Microinverter 2
Microinverter 3
Microinverter 4
Microinverter 5
Microinverter 6
Microinverter 7
Microinverter 8
Microinverter 9
Microinverter 10
Microinverter 11
Microinverter 12
Microinverter 13
Microinverter 14
Microinverter 15

12 AWG stranded copper, EN-GAGE cable

12 AWG stranded copper, EN-GAGE cable

GENERAL NOTES

MICROINVERTERS ARE DESIGNED TO SHUTDOWN THE ARRAY WHEN THEY DETECT FAILURE OF THE GRID.

MODEL: AMBHENOL H4 CONNECTOR
250 BREAK O/P
171 X 173 X 30MM (WITHOUT BACKER)

PHOTOVOLTAIC THREE LINE DIAGRAM

PHOTOVOLTAIC THREE LINE DIAGRAM

NB SCALE

PV THREE LINE WIRE DIAGRAMS

E-602
TRANSPORTATION ANALYSIS

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<thead>
<tr>
<th>TYPE</th>
<th>SMALL TRUCK</th>
<th>MEDIUM TRUCK</th>
<th>LARGE TRUCK</th>
<th>SELECTED TRUCK</th>
<th>RAILCAR</th>
<th>AIR</th>
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<tr>
<td>LOAD DIMENSIONS</td>
<td>LENGTH x WIDTH x HEIGHT</td>
<td>18' x 8' x 8'</td>
<td>26' x 8' x 8'</td>
<td>33' x 8' x 8'</td>
<td>48' x 8' x 12'</td>
<td>44' x 8' x 10'1&quot;</td>
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<td>MAXIMUM LOAD CAPACITY (LBS)</td>
<td>7,000</td>
<td>10,000</td>
<td>80,000</td>
<td>80,000</td>
<td>200,000</td>
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<tr>
<td>FUEL PER DISTANCE TRAVELED</td>
<td>7.9 mpg</td>
<td>9.1 mpg</td>
<td>3.8 mpg</td>
<td>3.8 mpg</td>
<td>4.1 mpg</td>
<td>1.6 mpg</td>
</tr>
</tbody>
</table>

TRANSPORT ANALYSIS NOTES

1. TRUCK DIMENSIONS BASED ON AVERAGE ESTIMATES.
2. CO2 TRUCK ESTIMATES BASED ON ESTIMATE OF 20LBS OF CO2 PRODUCED PER GALLON OF GASOLINE AND ROUTE OF 1057 MILES.
3. RAILCAR DIMENSIONS BASED ON 40' HIGH INTERMODAL SHIPPPING CONTAINER INTERIOR DIMENSIONS.
4. RAILCAR FUEL PER DISTANCE TRAVELED TAKEN FROM ASSOCIATION OF AMERICAN RAILROADS AVERAGE.
5. TRUCK ESTIMATE BASED ON TRANSPORTATION OF AN ESTIMATED HOUSE WEIGHT OF 9 TONS HANDED BY ONE TRUCK.
6. AIR DIMENSIONS BASED ON BOEING 747 DREAMLINER.
7. CO2 AIR ESTIMATE BASED ON ONE PLANE CARRYING 11 HOUSES AT 9 TONS PER HOME.
8. CUSTOM TRUCK CAN OUTFITTED AS A TANDEM (TWO TRAILERS), LOWBOY TRAILER ABLE TO CARRY ITEMS 12' TALL, AND WITH A BUILT-IN CRANE WITH A BOOM CAPACITY BETWEEN 60-160' AND BOOM CAPACITY BETWEEN 15-40 TONS.
9. OVERSIZED LOADS CAN BE ACCOMMODATED FOR TRUCKS CARRYING LOADS WITH WIDTHS GREATER THAN 8', SPECIAL PERMITS ARE REQUIRED.

TRANSPORT PLAN

O-100
1. TRAILER ONE CONTENTS: FOUNDATIONS, CORE MODULES, FLOOR PANELS, DECKING, RAILINGS, SIPS, ROOF PANELS
2. TRAILER TWO CONTENTS: STRUCTURAL FRAME, PV PANELS, COURTYARD WALLS, COURTYARD ROOF, TRusses, ADDITIONAL ROOF PANELS, TOOLS, FURNITURE, MECHANICAL EQUIPMENT, VEGETATION
3. CUSTOM TRUCK OUTFITTED AS TANDEM LOWBOY WITH 40' OF THE TRAILER ALLOWING CARGO HEIGHT UP TO 12' WITH 4' IN FRONT AND BACK ONLY ALLOWING 10'4" WITH 4' IN FRONT AND BACK ONLY ALLOWING 10'4". LOADING TRAILER IN TOTAL NOT EXCEEDING 95' IN LENGTH
4. TRAILERS TO BE FLATBEDS TO MAXIMIZE DIMENSIONS FOR HOUSE COMPONENTS
5. CRANE EQUIPPED WITH 70' BOOM WITH BOOM CAPACITY OF 15 TONS EXTENSION LENGTH 70' FROM EDGE OF EITHER SIDE OF EXTENDED OUTRIGGERS. CRANE'S WEIGHT AND WEIGHT OF THE OBJECTS PICKED UP ARE DISTRIBUTED TO THE OUTRIGGERS RESTING ON 6'-0" X 6'-0" REINFORCED CRIBBING.

PHASING
1. PHASE ONE: DISASSEMBLE CONSTRUCTED HOUSE IN COLLEGE PARK
2. PHASE TWO: WEATHERPROOF AND PROTECT COMPONENTS FOR TRANSPORT
3. PHASE THREE: PACK COMPONENTS ONTO THEIR DESIGNATED TRAILER
4. PHASE FOUR: SECURE ITEMS FOR TRANSPORT
5. PHASE FIVE: ATTACH TRAILERS AND DEPART
ARRIVAL SEQUENCE PLANS

PHASE ONE:
- SIP panels are put into place and secured. Crane assists where necessary.

TRAILER TWO is temporarily parked west of the house within the Maryland team.
- Team arrives and trailer 1 with crane is situated south of solar envelope.

PHASE TWO:
- Trailers are temporarily parked west of the house within the Maryland team.
- Team directs crane which assists in moving house components.
- Tractor loader is used to lift and secure roof panels. PV panels are installed on finished roof.

PHASE THREE:
- Roof panels are lifted by the crane and secured into place. PV panels are installed on finished roof.

PHASE FOUR:
- Roof panels are lifted by the crane and secured into place. PV panels are installed on finished roof.

PHASE FIVE:
- Roof panels are lifted by the crane and secured into place. PV panels are installed on finished roof.

PHASE SIX:
- Vegetative beds are put in place around the house. Furniture and other accessories are taken in to the house and put in place.

NOTES & SPECS

1.新建设备包括由300人组成的团队，由12名成员组成。团队成员将负责执行任务，以确保房屋的安装顺利进行。团队成员将使用起重机协助安装房屋组件。

2.房屋由构件组成，包括结构框架、面板、基础等。所有组件将按照最新现场条件进行安装。

3.该安装过程涉及的设备包括起重机、发电机、液压千斤顶等。所有设备将按照规定进行安装。

4.团队将根据最新现场条件进行安装，确保不超载。确保安装过程顺利进行。

5.安装过程将按照最新现场条件进行，确保不超载。确保安装过程顺利进行。

ARRIVAL NOTES

1. 序列安装是基于最新现场条件。所有安装将按照规定进行调整。

2. 多个构件、地板、梁等将安装在房屋和甲板上使用起重机。

3. 15英尺的卸车车道、20英尺的一次性车道，周围将安装围栏。

4. 小便池将安装在房屋周围，家具和其他附件将被运送到房屋并在室内安装。

5. 全部安装设备及当地条件变化将根据最新现场条件进行调整。

CONSTRUCTION EQUIPMENT SCHEDULE

ARRIVAL/DEPARTURE EQUIPMENT

- CUSTOM TRUCK W/CRANE
- SKID STEER LOADER
- HYDRAULIC JACK STANDS
- SOLAR GENERATOR
- PORTABLE TOILET
- LULL (BOOM-ARM RUBBER TRACK LOADER)
- 20 YARD RECYCLING CONTAINER
- SITE LIGHTING
- 11/17/2016

SEQUENCING IS BASED ON MOST RECENT SITE INFORMATION PROVIDED BY COMPETITION ORGANIZERS, ALL SEQUENCING IS SUBJECT TO CHANGE PENDING FURTHER REGULATION ADJUSTMENTS AND SITE CONDITIONS.
**ARRIVAL SEQUENCE PLANS**

**SCALE:** 1/32"=1'-0"

**1. ARRIVAL SEQUENCE PLANS**

**Phase One:**
Vegetative beds and furniture are picked up and loaded into Trailer 2.

**Phase Two:**
Roof panels and PV panels are detached and lifted by crane into the Trailer 2 bed.

**Phase Three:**
SIP panels are detached and removed from structural frame using the cranes assistance where necessary.

**Phase Four:**
Structural frame elements are detached and loaded into truck.

**Phase Five:**
Floor, deck, and railing components are disassembled and loaded onto the trailer bed using crane assistance where necessary.

**Phase Six:**
Foundations are removed and loaded into trailer bed.

**DEPARTURE SEQUENCE**

**Phase One:**
Vegetative beds and furniture are packed up and loaded into trailer 2.

**Phase Two:**
Roof panels and PV panels are detached and lifted by crane into the trailer 2 bed.

**Phase Three:**
SIP panels are detached and removed from structural frame using the cranes assistance where necessary.

**Phase Four:**
Structural frame elements are detached and loaded into truck.

**Phase Five:**
Floor, deck, and railing components are disassembled and loaded onto the trailer bed using crane assistance where necessary.

**Phase Six:**
Foundations are removed and loaded into trailer bed.

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**NOTES & SPECS**

1. **CRANE EQUIPMENT DATA:**
   - **CAPACITY:** 15 Tons
   - **BOOM LENGTH:** 80'
   - **EXTENSION LENGTH:** 70' from edge of either side of outriggers

2. **RUBBER TRACK LOADER:**
   - **GROUND CLEARANCE:** 12", 6.4' in height, 10.7' in length X 5' in width, weighing 6200 pounds dispersing weight via wide 15" rubber tracks resulting in ground pressure of 3.5 PSI.