U.S. DEPARTMENT OF ENERGY SOLAR DECATHLON 2013

DRAWINGS
AS-BUILT
DOCUMENTATION
2013/08/22

AIR HOUSE
TEAM CZECH REPUBLIC
FACULTY ADVISOR:
ING. ARCH. DALIBOR HLAVÁČEK, PH.D
CTU IN PRAGUE, FACULTY OF ARCHITECTURE, DEPT. OF ARCHITECTURAL DESIGN II
THÁKUROVA 9,
166 34 PRAGUE
CZECH REPUBLIC
+420 224 356 369
+420 777 165 450
DHLAVACEK@FA.CVUT.CZ
WWW.FA.CVUT.CZ
MISSION STATEMENT

THE AIR HOUSE CONCEPT PRESENTS A SMALL HOUSE WITH AN INTENSIVELY USED OUTDOOR LIVING AREA, INTENDED FOR A COUPLE AT THE AGE OF OUR PARENTS GENERATION. OUR DESIGN IS BASED ON THE PRINCIPLE OF THE AIR HOUSE AFFORDABILITY IS AN ELABORATE CONCEPT OF A FLEXIBLE SINGLE OCCUPANT DEMOGRAPHY: SENIOR COUPLE, NO KIDS LIVING AT HOME.

PROJECT TITLE:

AIR HOUSE

THE AIR HOUSE CONCEPT PRESENTS A SMALL HOUSE WITH A N INTENSIVELY USED OUTDOOR LIVING AREA, INTENDED FOR A COUPLE AT THE AGE OF OUR PARENTS GENERATION. OUR DESIGN IS BASED ON THE PRINCIPLE OF THE AIR HOUSE AFFORDABILITY IS AN ELABORATE CONCEPT OF A FLEXIBLE SINGLE OCCUPANT DEMOGRAPHY: SENIOR COUPLE, NO KIDS LIVING AT HOME.

MISSION STATEMENT

THE AIR HOUSE CONCEPT PRESENTS A SMALL HOUSE WITH AN INTENSIVELY USED OUTDOOR LIVING AREA, INTENDED FOR A COUPLE AT THE AGE OF OUR PARENTS GENERATION. OUR DESIGN IS BASED ON THE PRINCIPLE OF THE AIR HOUSE AFFORDABILITY IS AN ELABORATE CONCEPT OF A FLEXIBLE SINGLE OCCUPANT DEMOGRAPHY: SENIOR COUPLE, NO KIDS LIVING AT HOME.

MISSION STATEMENT

THE AIR HOUSE CONCEPT PRESENTS A SMALL HOUSE WITH AN INTENSIVELY USED OUTDOOR LIVING AREA, INTENDED FOR A COUPLE AT THE AGE OF OUR PARENTS GENERATION. OUR DESIGN IS BASED ON THE PRINCIPLE OF THE AIR HOUSE AFFORDABILITY IS AN ELABORATE CONCEPT OF A FLEXIBLE SINGLE OCCUPANT DEMOGRAPHY: SENIOR COUPLE, NO KIDS LIVING AT HOME.

MISSION STATEMENT

THE AIR HOUSE CONCEPT PRESENTS A SMALL HOUSE WITH AN INTENSIVELY USED OUTDOOR LIVING AREA, INTENDED FOR A COUPLE AT THE AGE OF OUR PARENTS GENERATION. OUR DESIGN IS BASED ON THE PRINCIPLE OF THE AIR HOUSE AFFORDABILITY IS AN ELABORATE CONCEPT OF A FLEXIBLE SINGLE OCCUPANT DEMOGRAPHY: SENIOR COUPLE, NO KIDS LIVING AT HOME.

MISSION STATEMENT

THE AIR HOUSE CONCEPT PRESENTS A SMALL HOUSE WITH AN INTENSIVELY USED OUTDOOR LIVING AREA, INTENDED FOR A COUPLE AT THE AGE OF OUR PARENTS GENERATION. OUR DESIGN IS BASED ON THE PRINCIPLE OF THE AIR HOUSE AFFORDABILITY IS AN ELABORATE CONCEPT OF A FLEXIBLE SINGLE OCCUPANT DEMOGRAPHY: SENIOR COUPLE, NO KIDS LIVING AT HOME.

MISSION STATEMENT

THE AIR HOUSE CONCEPT PRESENTS A SMALL HOUSE WITH AN INTENSIVELY USED OUTDOOR LIVING AREA, INTENDED FOR A COUPLE AT THE AGE OF OUR PARENTS GENERATION. OUR DESIGN IS BASED ON THE PRINCIPLE OF THE AIR HOUSE AFFORDABILITY IS AN ELABORATE CONCEPT OF A FLEXIBLE SINGLE OCCUPANT DEMOGRAPHY: SENIOR COUPLE, NO KIDS LIVING AT HOME.

MISSION STATEMENT

THE AIR HOUSE CONCEPT PRESENTS A SMALL HOUSE WITH AN INTENSIVELY USED OUTDOOR LIVING AREA, INTENDED FOR A COUPLE AT THE AGE OF OUR PARENTS GENERATION. OUR DESIGN IS BASED ON THE PRINCIPLE OF THE AIR HOUSE AFFORDABILITY IS AN ELABORATE CONCEPT OF A FLEXIBLE SINGLE OCCUPANT DEMOGRAPHY: SENIOR COUPLE, NO KIDS LIVING AT HOME.

MISSION STATEMENT

THE AIR HOUSE CONCEPT PRESENTS A SMALL HOUSE WITH AN INTENSIVELY USED OUTDOOR LIVING AREA, INTENDED FOR A COUPLE AT THE AGE OF OUR PARENTS GENERATION. OUR DESIGN IS BASED ON THE PRINCIPLE OF THE AIR HOUSE AFFORDABILITY IS AN ELABORATE CONCEPT OF A FLEXIBLE SINGLE OCCUPANT DEMOGRAPHY: SENIOR COUPLE, NO KIDS LIVING AT HOME.

MISSION STATEMENT

THE AIR HOUSE CONCEPT PRESENTS A SMALL HOUSE WITH AN INTENSIVELY USED OUTDOOR LIVING AREA, INTENDED FOR A COUPLE AT THE AGE OF OUR PARENTS GENERATION. OUR DESIGN IS BASED ON THE PRINCIPLE OF THE AIR HOUSE AFFORDABILITY IS AN ELABORATE CONCEPT OF A FLEXIBLE SINGLE OCCUPANT DEMOGRAPHY: SENIOR COUPLE, NO KIDS LIVING AT HOME.
1. FINISHED AREA MEASURED TO THE EXTERIOR FINISHED SURFACE OF OUTSIDE WALLS.
2. TOTAL AREA CALCULATED ACCORDING TO ANSI Z765-2003 IS 876 SQUARE FEET WHICH DEMONSTRATES COMPLIANCE WITH RULE 6-2: FINISHED SQUARE FOOTAGE.
AERIAL VIEW FROM NORTHEAST

PERSPECTIVE VIEW FROM NORTHEAST

PERSPECTIVE VIEW FROM NORTHWEST

PERSPECTIVE VIEW FROM SOUTHEAST
ADJUSTABLE STEEL FOOT 05 50 00 A
ADJUSTABLE STEEL FOOT 05 50 00 B
ADJUSTABLE STEEL FOOT 05 50 00 C
WASTE WATER STORAGE
SUPPLY WATER STORAGE
FIRE WATER STORAGE
SEPTIC TANK

SHEET LIST CIVIL

SHEET NO | SHEET NAME
---------|------------
C-001    | CIVIL SYMBOLS AND NOTES
C-101    | SITE UTILITY PLAN
C-102    | SOLAR VILLAGE PLANS
C-103    | ORANGE COUNTY GREAT PARK LOCATION

SYMBOLS

MAIN | DESCRIPTION
---- | -----------
05 50 00 A | ADJUSTABLE STEEL FOOT
05 50 00 B | ADJUSTABLE STEEL FOOT
05 50 00 C | ADJUSTABLE STEEL FOOT

WASTE WATER STORAGE
SUPPLY WATER STORAGE
FIRE WATER STORAGE
SEPTIC TANK

CIVIL SYMBOLS AND NOTES

C-001

CIVIL SYMBOLS

WASTE WATER STORAGE
SUPPLY WATER STORAGE
FIRE WATER STORAGE
SEPTIC TANK

C-001
### PLANTING SCHEDULE - HABITAT GARDEN

<table>
<thead>
<tr>
<th>NO.</th>
<th>COMMON NAME</th>
<th>COMMON NAME</th>
<th>COMMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>RED BUCKWHEAT</td>
<td>ERIOGONUM GRANDE RUBESCENS</td>
<td>Ø 8</td>
</tr>
<tr>
<td>12</td>
<td>CALIFORNIA SAGEBRUSH</td>
<td>CALIFORNIA BRITTLEBUSH</td>
<td>Ø 8</td>
</tr>
<tr>
<td>13</td>
<td>CALIFORNIA BUCKWHEAT</td>
<td>ERIOGONUM FASCICULATUM</td>
<td>Ø 8</td>
</tr>
<tr>
<td>14</td>
<td>PURPLE SAGE</td>
<td>SALVIA CELESTIAL BLUE</td>
<td>Ø 8</td>
</tr>
</tbody>
</table>

### PLANTING SCHEDULE - CONSTRUCTED WETLAND

<table>
<thead>
<tr>
<th>NO.</th>
<th>COMMON NAME</th>
<th>COMMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>17</td>
<td>SOUTHERN CAT-TAIL</td>
<td>Ø 6</td>
</tr>
<tr>
<td>18</td>
<td>SPIDER WEB</td>
<td>Ø 6</td>
</tr>
<tr>
<td>19</td>
<td>YERBA MANSA</td>
<td>ANEMOPSIS CALIFORNICA</td>
</tr>
</tbody>
</table>

### Notes
- High aromatic
- Culinary use: spice, herb tea
- Remedy for headache, diarrhea
- Habitat: garden
- Leaves were utilized medicinally
- Birds and animals use it for shelter
- Constructed wetland

### Project Information
- Team Name: AIR HOUSE
- Client: U.S. Department of Energy
- Website: www.airhouse.cz
- Contact: Dhlavacek@fa.cvut.cz
- Copyright: None: project is public domain
### PLANTING SCHEDULES - VEGETABLE AND HERB GARDEN

<table>
<thead>
<tr>
<th>COMMON NAME</th>
<th>QUANTITY</th>
<th>POT SIZE</th>
<th>QUANTITY</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>California Strawberry</td>
<td>6</td>
<td>6 x 6</td>
<td>6</td>
<td>Rich in antioxidants and vitamins</td>
</tr>
<tr>
<td>Parsley</td>
<td>6</td>
<td>6 x 6</td>
<td>6</td>
<td>Antiseptic and anti-bacterial</td>
</tr>
<tr>
<td>Basil</td>
<td>6</td>
<td>6 x 6</td>
<td>6</td>
<td>Culinary and medical uses</td>
</tr>
<tr>
<td>Rosemary</td>
<td>6</td>
<td>6 x 6</td>
<td>6</td>
<td>Aromatic and calming impact</td>
</tr>
<tr>
<td>Lavender</td>
<td>6</td>
<td>6 x 6</td>
<td>6</td>
<td>Medicinal and soothing effects</td>
</tr>
<tr>
<td>Mint</td>
<td>6</td>
<td>6 x 6</td>
<td>6</td>
<td>Culinary and medicinal uses</td>
</tr>
<tr>
<td>Tomato</td>
<td>6</td>
<td>6 x 6</td>
<td>6</td>
<td>Rich in beta-carotenes, vitamin A, and lycopene</td>
</tr>
</tbody>
</table>

**Common Names:**
- California Strawberry
- Parsley
- Basil
- Rosemary
- Lavender
- Mint
- Tomato

**Latin Names:**
- *Fragaria californica*
- *Petroselinum crispum*
- *Ocimum basilicum*
- *Rosmarinus officinalis*
- *Lavandula dentata*
- *Satureja douglasii*
- *Lactuca sativa var. longifolia*
- *Capsicum annuum*
- *Lavandula dentata*
- *Mentha arvensis*
- *Solanum lycopersicum*

**Other Information:**
- Culinary and medical uses for Basil, Rosemary, and Lavender.
- Antiseptic and anti-bacterial properties of Parsley.
- Aromatic and calming impact of Rosemary.
- Medicinal and soothing effects of Lavender.
- Culinary and medicinal uses for Mint.
- Rich in beta-carotenes, vitamin A, and lycopene for Tomato.

**Additional Information:**
- Rich in antioxidants and vitamins for California Strawberry.
- Antiseptic and anti-bacterial properties for Parsley.
- Culinary and medical uses for Basil.
- Aromatic and calming impact for Rosemary.
- Medicinal and soothing effects for Lavender.
- Culinary and medicinal uses for Mint.
- Rich in beta-carotenes, vitamin A, and lycopene for Tomato.

**Observations:**
- The planting schedule caters to various culinary and medicinal uses.
- The garden includes a variety of plants, each with unique properties.
- The layout ensures optimal growth conditions for each plant.

**Contact Information:**
- DHLAVACEK@FA.CVUT.CZ
- WWW.AIRHOUSE.CZ

**Copyright:**
- Project is in the public domain.
CANOPY BOTTOM FRAMING PLAN

REFERENCE KEYNOTES
06 17 53 SHOP FABRICATED WOOD TRUSSES

SHEET KEYNOTES

GENERAL SHEET NOTES

TEAM NAME:
CZECH REPUBLIC / CTU
CTU, FACULTY OF ARCHITECTURE
THÁKUROVA 9
166 34 PRAHA 6 – DEJVICE
CZECH REPUBLIC
DHLAVACEK@FA.CVUT.CZ
WWW.AIRHOUSE.CZ

PROJECT TITLE:
AIR HOUSE

COPYRIGHT:
NONE: PROJECT IS PUBLIC DOMAIN

CLIENT
U.S. DEPARTMENT OF ENERGY
SOLAR DECATHLON 2013
WWW.SOLARDECATHLON.GOV

MARK DATE DESCRIPTION
23.8.2013 1:09:45
S-103
CANOPY BOTTOM AND TERRACE FRAMING PLAN

0' - 10" 29' - 0 1/2"
FIRST FLOOR FRAMING PLAN
SHEET TITLE
LOT NUMBER:
DRAWN BY:
CHECKED BY:
COPYRIGHT:
CLIENT
U.S. DEPARTMENT OF ENERGY
SOLAR DECATHLON 2013
WWW.SOLARDECATHLON.GOV
TEAM NAME:
ADDRESS:
CONTACT:
CONSULTANTS
NONE: PROJECT IS PUBLIC DOMAIN
PROJECT TITLE:
AIR HOUSE
FACADE FRAMING PLAN
S-106

D1 FACADE ASSEMBLY EAST
D4 FACADE ASSEMBLY NORTH
B1 FACADE ASSEMBLY WEST
B4 FACADE ASSEMBLY SOUTH

REFERENCE KEYNOTES
06 12 00 STRUCTURAL PANELS

SHEET KEYNOTES
06 12 00 - HINGED FACADE INSULATED PANEL

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

MARK DATE DESCRIPTION
23. 8. 2013 1:10:10

FACADE ASSEMBLY EAST
FACADE ASSEMBLY NORTH
FACADE ASSEMBLY SOUTH
FACADE ASSEMBLY WEST
**B1 - STEEL FEET FOR STEEL FRAME**

**D4 - STEEL FEET FOR CANOPY BEAM**

---

**CLT PANEL 80MM 06 13 00**

**06 05 23.C**

**THREADED ROD M42 05 12 00.D2**

**STEEL PLATE 12MM 05 12 00.C**

**STEEL PLATE 8MM 05 12 00.C**

**NUT M42+WASHER 05 05 23**

**STEEL PLATE 12MM 05 12 00.E**

**U220 05 12 00.B4**

**NUT M42+WASHER 05 05 23**

**STEEL PLATE 8MM 05 12 00.C**

**STEEL SHEET 10MM 05 12 00.C**

**3x ROTHO HBS 8/80 06 05 23.C**

**RC 88,9/10 05 12 00.B6**

**STEEL PLATE 12MM 05 12 00.C**

**STEEL PLATE 8MM 05 12 00.C**

**THREADED ROD M27 +NUT M27+WASHER 05 05 23**

**STEEL PLATE 10MM 05 12 00.C**

**STEEL PLATE 8MM 05 12 00.C**

---

**BOLT 16MM+ NUT M16+WASHER 05 05 23**
GLULAM BEAM 100/400MM

2x BOLT M16 +NUTS+WASHERS 05 05 23

STEEL PLATE 5MM

2x BOLT M20+NUT+WASHERS 05 05 23

STEEL PLATE 20MM

RC 88,9/6

STEEL PLATE 8MM

GLULAM BEAM 100/400MM

STEEL PLATE 10MM

STEEL PLATE 8MM

2x BOLT M16 +NUTS+WASHERS 05 05 23

STEEL PLATE 20MM

GLULAM BEAM 100/400MM

STEEL PLATE 5MM

2x BOLT M16 +NUTS+WASHERS 05 05 23

STEEL PLATE 8MM

GLULAM BEAM 100/400MM

STEEL PLATE 20MM

GLULAM BEAM 100/400MM

STEEL PLATE 5MM

2x BOLT M20+NUT+WASHERS 05 05 23

STEEL PLATE 20MM

GLULAM BEAM 100/400MM

STEEL PLATE 8MM

GLULAM BEAM 100/400MM

STEEL PLATE 10MM

STEEL PLATE 8MM

2x BOLT M16 +NUTS+WASHERS 05 05 23

STEEL PLATE 20MM

GLULAM BEAM 100/400MM

STEEL PLATE 5MM

2x BOLT M20+NUT+WASHERS 05 05 23

STEEL PLATE 20MM

GLULAM BEAM 100/400MM

STEEL PLATE 5MM

2x BOLT M16 +NUTS+WASHERS 05 05 23

STEEL PLATE 8MM

GLULAM BEAM 100/400MM

STEEL PLATE 10MM

STEEL PLATE 8MM

2x BOLT M16 +NUTS+WASHERS 05 05 23

STEEL PLATE 20MM

GLULAM BEAM 100/400MM

STEEL PLATE 5MM

2x BOLT M20+NUT+WASHERS 05 05 23

STEEL PLATE 20MM

GLULAM BEAM 100/400MM

STEEL PLATE 5MM

2x BOLT M16 +NUTS+WASHERS 05 05 23

STEEL PLATE 8MM

GLULAM BEAM 100/400MM

STEEL PLATE 5MM

2x BOLT M20+NUT+WASHERS 05 05 23

STEEL PLATE 20MM

GLULAM BEAM 100/400MM

STEEL PLATE 5MM

2x BOLT M16 +NUTS+WASHERS 05 05 23

STEEL PLATE 8MM
CANOPY X COLUMN BOTTOM CONNECTION WITH TENSION RODS

CANOPY X COLUMN BOTTOM EDGE CONNECTION

CANOPY X COLUMN BOTTOM CORNER CONNECTION

STRUCTURAL DETAILS - CANOPY BOTTOM GRID
1. ARCHITECTURAL NOTES
A. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE INTERNATIONAL RESIDENTIAL CODE AS WELL AS THE SOLAR DECATHLON RULES AND BUILDING CODE. THE DESIGN SHALL CONFORM WITH ALL APPLICABLE MUNICIPAL, STATE AND FEDERAL REGULATIONS HAVING JURISDICTION.
B. DO NOT SCALE DRAWINGS. DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
C. ALL TYPICAL DETAILS AND NOTES SHOWN ON DRAWINGS SHALL APPLY UNLESS NOTED OTHERWISE.
D. WHERE DISCREPANCIES EXIST BETWEEN DRAWINGS AND CONSTRUCTION TRADE PRACTICES, CONSULT ARCHITECT BEFORE PROCEEDING WITH WORK.

2. DIMENSIONING NOTES
A. UNLESS NOTED OTHERWISE, PARTITIONS ARE DIMENSIONED TO THE FACE OF THE STRUCTURE.
B. ALL DIMENSIONS ARE TO BE VERIFIED IN THE FIELD BEFORE PROCEEDING WITH WORK. THE ARCHITECT WILL BE NOTIFIED OF ANY DISCREPANCIES.
C. ALL DIMENSIONS SHALL BE FIELD VERIFIED AND COORDINATED WITH THE WORK OF ALL TRADES.

REFERENCE KEYNOTES
23 56 13.13 HEATING SOLAR FLAT-PLATE COLLECTORS
23 6 31 00 PHOTOVOLTAIC COLLECTORS

SHEET KEYNOTES
1 SITE BOUNDARY

GENERAL SHEET NOTES

A1 SITE PLAN

A-101
1. ARCHITECTURAL NOTES
   A. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE INTERNATIONAL RESIDENTIAL CODE AS WELL AS THE SOLAR DECATHLON RULES AND BUILDING CODE.
   B. ALL DRAWINGS AND ENGINEERING DOCUMENTS SHALL BE IN ACCORDANCE WITH THE SOLAR DECATHLON RULES AND BUILDING CODE.
   C. THE DESIGN SHALL CONFORM WITH ALL APPLICABLE MUNICIPAL, STATE AND FEDERAL REGULATIONS HAVING JURISDICTION.

2. DIMENSIONING NOTES
   A. UNLESS NOTED OTHERWISE, PARTITIONS ARE DIMENSIONED TO THE FACE OF THE STRUCTURE.
   B. ALL DIMENSIONS ARE TO BE VERIFIED IN THE FIELD BEFORE PROCEEDING WITH WORK.
   C. ALL DIMENSIONS SHALL BE FIELD VERIFIED AND COORDINATED WITH THE WORK OF ALL TRADES.

REFERENCE KEYNOTES

A1 HOUSE ROOF
FLOOR LEVEL 2' - 3 1/2"
HOUSE ROOF 13' - 4"
SOLAR ENVELOPE 19' - 1 1/2"
CONSTRUCTION CEILING 11' - 2 1/2"
CONSTRUCTED WETLANDS CANOPY 16' - 1 1/2"

SITE ELEVATION WEST

SITE ELEVATION SOUTH
HOUSE ELEVATION EAST

HOUSE ELEVATION NORTH

GENERAL SHEET NOTES

1. ARCHITECTURAL NOTES
   A. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE INTERNATIONAL RESIDENTIAL CODE AND THE REQUIREMENTS OF THE SOLAR DECATHLON BUILDING CODE. THE DESIGN SHALL CONFORM WITH ALL APPLICABLE MUNICIPAL, STATE AND FEDERAL REGULATIONS HAVING JURISDICTION.
   B. DO NOT SCALE DRAWINGS. DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
   C. ALL TYPICAL DETAILS AND NOTES SHOWN ON DRAWINGS SHALL APPLY UNLESS NOTED OTHERWISE.
   D. WHERE DISCREPANCIES EXIST BETWEEN DRAWINGS AND CONSTRUCTION TRADE PRACTICES, CONSULT ARCHITECT BEFORE PROCEEDING WITH WORK.

2. DIMENSIONING NOTES
   A. UNLESS NOTED OTHERWISE, PARTITIONS ARE DIMENSIONED TO THE FACE OF THE STRUCTURE.
   B. ALL DIMENSIONS ARE TO BE VERIFIED IN THE FIELD BEFORE PROCEEDING WITH WORK. THE ARCHITECT WILL BE NOTIFIED OF ANY DISCREPANCIES.
   C. ALL DIMENSIONS SHALL BE FIELD VERIFIED AND COORDINATED WITH THE WORK OF ALL TRADES.

REFERENCE KEYNOTES

SHEET KEYNOTES

1. ARCHITECTURAL NOTES
   A. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE INTERNATIONAL RESIDENTIAL CODE AND THE REQUIREMENTS OF THE SOLAR DECATHLON BUILDING CODE. THE DESIGN SHALL CONFORM WITH ALL APPLICABLE MUNICIPAL, STATE AND FEDERAL REGULATIONS HAVING JURISDICTION.
   B. DO NOT SCALE DRAWINGS. DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
   C. ALL TYPICAL DETAILS AND NOTES SHOWN ON DRAWINGS SHALL APPLY UNLESS NOTED OTHERWISE.
   D. WHERE DISCREPANCIES EXIST BETWEEN DRAWINGS AND CONSTRUCTION TRADE PRACTICES, CONSULT ARCHITECT BEFORE PROCEEDING WITH WORK.

2. DIMENSIONING NOTES
   A. UNLESS NOTED OTHERWISE, PARTITIONS ARE DIMENSIONED TO THE FACE OF THE STRUCTURE.
   B. ALL DIMENSIONS ARE TO BE VERIFIED IN THE FIELD BEFORE PROCEEDING WITH WORK. THE ARCHITECT WILL BE NOTIFIED OF ANY DISCREPANCIES.
   C. ALL DIMENSIONS SHALL BE FIELD VERIFIED AND COORDINATED WITH THE WORK OF ALL TRADES.

REFERENCE KEYNOTE

SHEET KEYNOTE

1. ARCHITECTURAL NOTES
   A. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE INTERNATIONAL RESIDENTIAL CODE AND THE REQUIREMENTS OF THE SOLAR DECATHLON BUILDING CODE. THE DESIGN SHALL CONFORM WITH ALL APPLICABLE MUNICIPAL, STATE AND FEDERAL REGULATIONS HAVING JURISDICTION.
   B. DO NOT SCALE DRAWINGS. DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
   C. ALL TYPICAL DETAILS AND NOTES SHOWN ON DRAWINGS SHALL APPLY UNLESS NOTED OTHERWISE.
   D. WHERE DISCREPANCIES EXIST BETWEEN DRAWINGS AND CONSTRUCTION TRADE PRACTICES, CONSULT ARCHITECT BEFORE PROCEEDING WITH WORK.

2. DIMENSIONING NOTES
   A. UNLESS NOTED OTHERWISE, PARTITIONS ARE DIMENSIONED TO THE FACE OF THE STRUCTURE.
   B. ALL DIMENSIONS ARE TO BE VERIFIED IN THE FIELD BEFORE PROCEEDING WITH WORK. THE ARCHITECT WILL BE NOTIFIED OF ANY DISCREPANCIES.
   C. ALL DIMENSIONS SHALL BE FIELD VERIFIED AND COORDINATED WITH THE WORK OF ALL TRADES.

REFERENCE KEYNOTE

SHEET KEYNOTE

1. ARCHITECTURAL NOTES
   A. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE INTERNATIONAL RESIDENTIAL CODE AND THE REQUIREMENTS OF THE SOLAR DECATHLON BUILDING CODE. THE DESIGN SHALL CONFORM WITH ALL APPLICABLE MUNICIPAL, STATE AND FEDERAL REGULATIONS HAVING JURISDICTION.
   B. DO NOT SCALE DRAWINGS. DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
   C. ALL TYPICAL DETAILS AND NOTES SHOWN ON DRAWINGS SHALL APPLY UNLESS NOTED OTHERWISE.
   D. WHERE DISCREPANCIES EXIST BETWEEN DRAWINGS AND CONSTRUCTION TRADE PRACTICES, CONSULT ARCHITECT BEFORE PROCEEDING WITH WORK.

2. DIMENSIONING NOTES
   A. UNLESS NOTED OTHERWISE, PARTITIONS ARE DIMENSIONED TO THE FACE OF THE STRUCTURE.
   B. ALL DIMENSIONS ARE TO BE VERIFIED IN THE FIELD BEFORE PROCEEDING WITH WORK. THE ARCHITECT WILL BE NOTIFIED OF ANY DISCREPANCIES.
   C. ALL DIMENSIONS SHALL BE FIELD VERIFIED AND COORDINATED WITH THE WORK OF ALL TRADES.

REFERENCE KEYNOTE

SHEET KEYNOTE

1. ARCHITECTURAL NOTES
   A. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE INTERNATIONAL RESIDENTIAL CODE AND THE REQUIREMENTS OF THE SOLAR DECATHLON BUILDING CODE. THE DESIGN SHALL CONFORM WITH ALL APPLICABLE MUNICIPAL, STATE AND FEDERAL REGULATIONS HAVING JURISDICTION.
   B. DO NOT SCALE DRAWINGS. DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
   C. ALL TYPICAL DETAILS AND NOTES SHOWN ON DRAWINGS SHALL APPLY UNLESS NOTED OTHERWISE.
   D. WHERE DISCREPANCIES EXIST BETWEEN DRAWINGS AND CONSTRUCTION TRADE PRACTICES, CONSULT ARCHITECT BEFORE PROCEEDING WITH WORK.

2. DIMENSIONING NOTES
   A. UNLESS NOTED OTHERWISE, PARTITIONS ARE DIMENSIONED TO THE FACE OF THE STRUCTURE.
   B. ALL DIMENSIONS ARE TO BE VERIFIED IN THE FIELD BEFORE PROCEEDING WITH WORK. THE ARCHITECT WILL BE NOTIFIED OF ANY DISCREPANCIES.
   C. ALL DIMENSIONS SHALL BE FIELD VERIFIED AND COORDINATED WITH THE WORK OF ALL TRADES.

REFERENCE KEYNOTE

SHEET KEYNOTE

1. ARCHITECTURAL NOTES
   A. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE INTERNATIONAL RESIDENTIAL CODE AND THE REQUIREMENTS OF THE SOLAR DECATHLON BUILDING CODE. THE DESIGN SHALL CONFORM WITH ALL APPLICABLE MUNICIPAL, STATE AND FEDERAL REGULATIONS HAVING JURISDICTION.
   B. DO NOT SCALE DRAWINGS. DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
   C. ALL TYPICAL DETAILS AND NOTES SHOWN ON DRAWINGS SHALL APPLY UNLESS NOTED OTHERWISE.
   D. WHERE DISCREPANCIES EXIST BETWEEN DRAWINGS AND CONSTRUCTION TRADE PRACTICES, CONSULT ARCHITECT BEFORE PROCEEDING WITH WORK.

2. DIMENSIONING NOTES
   A. UNLESS NOTED OTHERWISE, PARTITIONS ARE DIMENSIONED TO THE FACE OF THE STRUCTURE.
   B. ALL DIMENSIONS ARE TO BE VERIFIED IN THE FIELD BEFORE PROCEEDING WITH WORK. THE ARCHITECT WILL BE NOTIFIED OF ANY DISCREPANCIES.
   C. ALL DIMENSIONS SHALL BE FIELD VERIFIED AND COORDINATED WITH THE WORK OF ALL TRADES.
C-1
C-2
C-3
C-4
C-5

7' - 6 1/2"
1' - 4"
8' - 6 1/2"
0' - 4 1/2"
2' - 11 1/2"
1' - 11"
2' - 8"
7' - 6 1/2"
7' - 3 1/2"
1' - 4 1/2"
2' - 11 1/2"

07 21 13
09 64 00
23 56 13.13
26 31 00
06 11 13
08 41 13

23. 8. 2013 0:41:56

FLOOR LEVEL
HOUSE ROOF
SOLAR ENVELOPE
CEILING
CANOPY
FLOOR LEVEL
SHEATH PROTECTION

A1 SECTION B-B
D1 SECTION A-A
WATER PLANTS (15, 16, 17) PLANTED IN PLANTING BAGS
POLYPROPYLENE WELDED PLANTER TH. 13/64"
22 11 16 1"-2" PLASTIC PIPE
01 53 00 TEMPORARY FOUNDATIONS (ADJUSTABLE FEET)
RUNWAY
09 64 00 25/32" FLOORING, LARCH PLANKS
WOOD FRAMING 25/32" × 3 9/64"
STEEL FRAMING 2 3/4" × 2 3/4"
22 13 63 GRAY WATER TANK 396 GAL
07 46 29 PLYWOOD SIDING
05 12 00 STEEL FRAMING 2 3/4" × 2 3/4"
22 11 19 2" DRAIN VALVE
22 13 53 SEPTIC TANK 106 GAL
POLYPROPYLENE WALL TH. 13/64"
01 53 00 TEMPORARY FOUNDATIONS
RUNWAY
09 64 00 25/32" FLOORING, LARCH PLANKS
STEEL FRAMING 2 3/4" × 2 3/4"
22 12 19 WATER TANK 264 GAL
WOOD FRAMING 25/32" × 3 9/64"
WATER PLANTS (15, 16, 17) PLANTED IN PLANTING BAGS
POLYPROPYLENE WELDED TH. 13/64"
22 12 19 WATER TANK 264 GAL
POLYPROPYLENE WALL TH. 13/64"
GENERAL SHEET NOTES

1. ARCHITECTURAL NOTES
   A. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE INTERNATIONAL RESIDENTIAL CODE AS WELL AS THE SOLAR DECATHLON RULES AND BUILDING CODE. THE DESIGN SHALL CONFORM WITH ALL APPLICABLE MUNICIPAL, STATE AND FEDERAL REGULATIONS.
   B. DO NOT SCALE DRAWINGS. DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALINGDIMENSIONS.
   C. ALL TYPICAL DETAILS AND NOTES SHOWN ON DRAWINGS SHALL APPLY UNLESS NOTED OTHERWISE.
   D. WHERE DISCREPANCIES EXIST BETWEEN DRAWINGS AND CONSTRUCTION TRADE PRACTICES, CONSULT ARCHITECT BEFORE PROCEEDING WITH WORK.

2. DIMENSIONING/NOTES
   A. UNLESS NOTED OTHERWISE, PARTITIONS ARE DIMENSIONED TO THE FACE OF THE STRUCTURE.
   B. ALL DIMENSIONS ARE TO BE VERIFIED IN THE FIELD BEFORE PROCEEDING WITH WORK. THE ARCHITECT WILL BE NOTIFIED OF ANY DISCREPANCIES.
   C. ALL DIMENSIONS SHALL BE FIELD VERIFIED AND COORDINATED WITH THE WORK OF ALL TRADES.

REFERENCE KEYNOTES

MARK DATE DESCRIPTION
2 02/14/2013 CD SUBMISSION
1 04/01/2013 CD RE-SUBMISSION
4 10/11/2012 DD SUBMISSION

SHEET KEYNOTES

I-001 INTERIOR SYMBOLS AND NOTES I-101 FURNISHING PLANS I-102 INTERIOR DESIGN PLAN I-201 INTERIOR DESIGN ELEVATIONS I-202 INTERIOR DESIGN ELEVATIONS I-203 INTERIOR DESIGN ELEVATIONS I-301 INTERIOR DESIGN SECTIONS I-701 BATHROOM DETAILING PLAN

SHEET LIST INTERIORS

<table>
<thead>
<tr>
<th>SHEET NO</th>
<th>SHEET NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>I-001</td>
<td>INTERIOR SYMBOLS AND NOTES</td>
</tr>
<tr>
<td>I-101</td>
<td>FURNISHING PLANS</td>
</tr>
<tr>
<td>I-102</td>
<td>INTERIOR DESIGN PLAN</td>
</tr>
<tr>
<td>I-201</td>
<td>INTERIOR DESIGN ELEVATIONS</td>
</tr>
<tr>
<td>I-202</td>
<td>INTERIOR DESIGN ELEVATIONS</td>
</tr>
<tr>
<td>I-203</td>
<td>INTERIOR DESIGN ELEVATIONS</td>
</tr>
<tr>
<td>I-301</td>
<td>INTERIOR DESIGN SECTIONS</td>
</tr>
<tr>
<td>I-701</td>
<td>BATHROOM DETAILING PLAN</td>
</tr>
</tbody>
</table>
REFERENCE KEYNOTES

10 26 23 A WALL PADDING
11 31 13 A REFRIGERATOR/FREEZER
11 31 13 B COOKTOP
11 31 13 C OVEN
11 31 13 E EXHAUST HOOD
11 31 13 F CABINET
12 36 19 A WOOD COUNTERTOP INTERIOR KITCHEN
12 36 19 B WOOD COUNTERTOP EXTERIOR KITCHEN
12 58 29 A DOUBLE BED

SHEET KEYNOTES

GENERAL SHEET NOTES

1. ARCHITECTURAL NOTES
   A. ALL CONSTRUCTION SHALL BE IN
      ACCORDANCE WITH THE REQUIREMENTS OF
      THE APPLICABLE INTERNATIONAL RESIDENTIAL
      CODE AS WELL AS THE SOLAR
      DECATHLON RULES AND BUILDING CODE. THE
      DESIGN SHALL CONFORM WITH ALL
      APPLICABLE MUNICIPAL, STATE AND FEDERAL
      REGULATIONS HAVING JURISDICTION.
   B. DO NOT SCALE DRAWINGS. DIMENSIONS
      SHALL HAVE PRECEDENCE OVER SCALED
      DIMENSIONS.
   C. ALL TYPICAL DETAILS AND NOTES SHOWN ON
      DRAWINGS SHALL APPLY UNLESS NOTED OTHERWISE.
   D. WHERE DISCREPANCIES EXIST BETWEEN
      DRAWINGS AND CONSTRUCTION TRADE PRACTICES,
      CONSULT ARCHITECT BEFORE PROCEEDING WITH WORK.

2. DIMENSIONING NOTES
   A. UNLESS NOTED OTHERWISE, PARTITIONS ARE
      DIMENSIONED TO THE FACE OF THE STRUCTURE
   B. ALL DIMENSIONS ARE TO BE VERIFIED IN THE
      FIELD BEFORE PROCEEDING WITH WORK. THE
      ARCHITECT WILL BE NOTIFIED OF ANY
      DISCREPANCIES.
   C. ALL DIMENSIONS SHALL BE FIELD VERIFIED
      AND COORDINATED WITH THE WORK OF ALL TRADES.

3. SHEET NOTES

INTERIOR FLOOR PLAN
GENERAL SHEET NOTES

1. ARCHITECTURAL NOTES
   A. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPROPRIATE LOCAL, STATE AND FEDERAL BUILDING CODES AS WELL AS THE SOLAR DECATHLON RULES AND BUILDING CODE.
   B. DO NOT SCALE DRAWINGS. DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
   C. ALL TYPICAL DETAILS AND NOTES SHOWN ON DRAWINGS SHALL APPLY UNLESS NOTED OTHERWISE.
   D. WHERE DISCREPANCIES EXIST BETWEEN DRAWINGS AND CONSTRUCTION TRADE PRACTICES, CONSULT ARCHITECT BEFORE PROCEEDING WITH WORK.

2. DIMENSIONING NOTES
   A. UNLESS NOTED OTHERWISE, PARTITIONS ARE DIMENSIONED TO THE FACE OF THE STRUCTURE.
   B. ALL DIMENSIONS ARE TO BE VERIFIED IN THE FIELD BEFORE PROCEEDING WITH WORK. THE ARCHITECT WILL BE NOTIFIED OF ANY DISCREPANCIES.
   C. ALL DIMENSIONS SHALL BE FIELD VERIFIED AND COORDINATED WITH THE WORK OF ALL TRADES.

REFERENCE KEYNOTES

10 26 23 A WALL PADDING
11 31 13 A REFRIGERATOR/FREEZER
11 31 13 C OVEN
11 31 13 D MICROWAVE OVEN
11 31 23 A CLOTHES WASHER
11 31 23 B CLOTHES DRYER
12 35 30 A INTERIOR KITCHEN UNIT
12 35 30 C FURNITURE WALL

SHEET KEYNOTES

GENERAL SHEET NOTES

1. ARCHITECTURAL NOTES
   A. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPROPRIATE LOCAL, STATE AND FEDERAL BUILDING CODES AS WELL AS THE SOLAR DECATHLON RULES AND BUILDING CODE.
   B. DO NOT SCALE DRAWINGS. DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
   C. ALL TYPICAL DETAILS AND NOTES SHOWN ON DRAWINGS SHALL APPLY UNLESS NOTED OTHERWISE.
   D. WHERE DISCREPANCIES EXIST BETWEEN DRAWINGS AND CONSTRUCTION TRADE PRACTICES, CONSULT ARCHITECT BEFORE PROCEEDING WITH WORK.

2. DIMENSIONING NOTES
   A. UNLESS NOTED OTHERWISE, PARTITIONS ARE DIMENSIONED TO THE FACE OF THE STRUCTURE.
   B. ALL DIMENSIONS ARE TO BE VERIFIED IN THE FIELD BEFORE PROCEEDING WITH WORK. THE ARCHITECT WILL BE NOTIFIED OF ANY DISCREPANCIES.
   C. ALL DIMENSIONS SHALL BE FIELD VERIFIED AND COORDINATED WITH THE WORK OF ALL TRADES.

REFERENCE KEYNOTES

10 26 23 A WALL PADDING
11 31 13 A REFRIGERATOR/FREEZER
11 31 13 C OVEN
11 31 13 D MICROWAVE OVEN
11 31 23 A CLOTHES WASHER
11 31 23 B CLOTHES DRYER
12 35 30 A INTERIOR KITCHEN UNIT
12 35 30 C FURNITURE WALL

SHEET KEYNOTES

GENERAL SHEET NOTES

1. ARCHITECTURAL NOTES
   A. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPROPRIATE LOCAL, STATE AND FEDERAL BUILDING CODES AS WELL AS THE SOLAR DECATHLON RULES AND BUILDING CODE.
   B. DO NOT SCALE DRAWINGS. DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
   C. ALL TYPICAL DETAILS AND NOTES SHOWN ON DRAWINGS SHALL APPLY UNLESS NOTED OTHERWISE.
   D. WHERE DISCREPANCIES EXIST BETWEEN DRAWINGS AND CONSTRUCTION TRADE PRACTICES, CONSULT ARCHITECT BEFORE PROCEEDING WITH WORK.

2. DIMENSIONING NOTES
   A. UNLESS NOTED OTHERWISE, PARTITIONS ARE DIMENSIONED TO THE FACE OF THE STRUCTURE.
   B. ALL DIMENSIONS ARE TO BE VERIFIED IN THE FIELD BEFORE PROCEEDING WITH WORK. THE ARCHITECT WILL BE NOTIFIED OF ANY DISCREPANCIES.
   C. ALL DIMENSIONS SHALL BE FIELD VERIFIED AND COORDINATED WITH THE WORK OF ALL TRADES.

REFERENCE KEYNOTES

10 26 23 A WALL PADDING
11 31 13 A REFRIGERATOR/FREEZER
11 31 13 C OVEN
11 31 13 D MICROWAVE OVEN
11 31 23 A CLOTHES WASHER
11 31 23 B CLOTHES DRYER
12 35 30 A INTERIOR KITCHEN UNIT
12 35 30 C FURNITURE WALL

SHEET KEYNOTES

GENERAL SHEET NOTES

1. ARCHITECTURAL NOTES
   A. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPROPRIATE LOCAL, STATE AND FEDERAL BUILDING CODES AS WELL AS THE SOLAR DECATHLON RULES AND BUILDING CODE.
   B. DO NOT SCALE DRAWINGS. DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
   C. ALL TYPICAL DETAILS AND NOTES SHOWN ON DRAWINGS SHALL APPLY UNLESS NOTED OTHERWISE.
   D. WHERE DISCREPANCIES EXIST BETWEEN DRAWINGS AND CONSTRUCTION TRADE PRACTICES, CONSULT ARCHITECT BEFORE PROCEEDING WITH WORK.

2. DIMENSIONING NOTES
   A. UNLESS NOTED OTHERWISE, PARTITIONS ARE DIMENSIONED TO THE FACE OF THE STRUCTURE.
   B. ALL DIMENSIONS ARE TO BE VERIFIED IN THE FIELD BEFORE PROCEEDING WITH WORK. THE ARCHITECT WILL BE NOTIFIED OF ANY DISCREPANCIES.
   C. ALL DIMENSIONS SHALL BE FIELD VERIFIED AND COORDINATED WITH THE WORK OF ALL TRADES.
GENERAL SHEET NOTES

1. ARCHITECTURAL NOTES
   A. ALL CONSTRUCTION SHALL BE IN
      ACCORDANCE WITH THE REQUIREMENTS OF
      THE INTERNATIONAL RESIDENTIAL CODE AS
      WELL AS THE SOLAR DECATHLON RULES AND
      BUILDING CODE.
   B. DO NOT SCALE DRAWINGS. DIMENSIONS
      SHALL HAVE PRECEDENCE OVER SCALED
      DIMENSIONS.
   C. ALL TYPICAL DETAILS AND NOTES SHOWN ON
      DRAWINGS SHALL APPLY UNLESS NOTED
      OTHERWISE.
   D. WHERE DISCREPANCIES EXIST BETWEEN
      DRAWINGS AND CONSTRUCTION TRADE
      PRACTICES, CONSULT ARCHITECT BEFORE
      PROCEEDING WITH WORK.

2. DIMENSIONING NOTES
   A. UNLESS NOTED OTHERWISE, PARTITIONS ARE
      DIMENSIONED TO THE FACE OF THE STRUCTURE.
   B. ALL DIMENSIONS ARE TO BE VERIFIED IN THE
      FIELD BEFORE PROCEEDING WITH WORK. THE
      ARCHITECT WILL BE NOTIFIED OF ANY DISCREPANCIES.
   C. ALL DIMENSIONS SHALL BE FIELD VERIFIED
      AND COORDINATED WITH THE WORK OF ALL TRADES.

REFERENCE KEYNOTES

11 31 13 B COOKTOP
11 31 13 E EXHAUST HOOD
11 31 13 F DISHWASHER
12 36 19 A WOOD COUNTERTOP

SHEET KEYNOTES

1. INTERIOR DESIGN
   A. ALL CONSTRUCTION SHALL BE IN
      ACCORDANCE WITH THE REQUIREMENTS OF
      THE INTERNATIONAL RESIDENTIAL CODE AS
      WELL AS THE SOLAR DECATHLON RULES AND
      BUILDING CODE.
   B. DO NOT SCALE DRAWINGS. DIMENSIONS
      SHALL HAVE PRECEDENCE OVER SCALED
      DIMENSIONS.
   C. ALL TYPICAL DETAILS AND NOTES SHOWN ON
      DRAWINGS SHALL APPLY UNLESS NOTED
      OTHERWISE.
   D. WHERE DISCREPANCIES EXIST BETWEEN
      DRAWINGS AND CONSTRUCTION TRADE
      PRACTICES, CONSULT ARCHITECT BEFORE
      PROCEEDING WITH WORK.

2. DIMENSIONING NOTES
   A. UNLESS NOTED OTHERWISE, PARTITIONS ARE
      DIMENSIONED TO THE FACE OF THE STRUCTURE.
   B. ALL DIMENSIONS ARE TO BE VERIFIED IN THE
      FIELD BEFORE PROCEEDING WITH WORK. THE
      ARCHITECT WILL BE NOTIFIED OF ANY DISCREPANCIES.
   C. ALL DIMENSIONS SHALL BE FIELD VERIFIED
      AND COORDINATED WITH THE WORK OF ALL TRADES.
GENERAL SHEET NOTES

1. ARCHITECTURAL NOTES
   A. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE INTERNATIONAL RESIDENTIAL CODE AS WELL AS THE SOLAR DECATHLON RULES AND BUILDING CODE. THE DESIGN SHALL CONFORM WITH ALL APPLICABLE MUNICIPAL, STATE AND FEDERAL REGULATIONS HAVING JURISDICTION.
   B. DO NOT SCALE DRAWINGS. DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
   C. ALL TYPICAL DETAILS AND NOTES SHOWN ON DRAWINGS SHALL APPLY UNLESS NOTED OTHERWISE.
   D. WHERE DISCREPANCIES EXIST BETWEEN

DIMENSIONING NOTES
   A. UNLESS NOTED OTHERWISE, PARTITIONS ARE DIMENSIONED TO THE FACE OF THE STRUCTURE BEFORE PROCEEDING WITH WORK. THE ARCHITECT WILL BE NOTIFIED OF ANY DISCREPANCIES.
   B. ALL DIMENSIONS SHALL BE FIELD VERIFIED AND COORDINATED WITH THE WORK OF ALL TRADES.

REFERENCE KEYNOTES

103

SECTIONS

KITCHEN SECTION 1

KITCHEN SECTION 2
DRY CHEMICAL FIRE EXTINGUISHER EQUIPMENT
CEILING MOUNTED SMOKE DETECTOR

SYMBOLS

- DRY CHEMICAL FIRE EXTINGUISHER EQUIPMENT
- CEILING MOUNTED SMOKE DETECTOR
- CEILING MOUNTED FIRE SUPPRESSION
- FIRE PUMP STORAGE TANK
- SANITIZED AIR SHAFT COVER WITH SPRINTER COVER
- wire-trimmed in physical pump
FIRE SUPPRESSION PLAN

Reference Keynotes:
- 21 13 00 FIRE-SUPPRESSION SPRINKLER SYSTEMS
- 21 31 00 A1 FLUSH PENDANT SPRINKLER
- 21 31 13 ELECTRIC-DRIVE, CENTRIFUGAL FIRE PUMPS
- 21 41 00 STORAGE TANKS FOR FIRE-SUPPRESSION WATER
- 26 24 16 F FP-FIRE PROTECTION PANEL BOARD

Sheet Keynotes:
- EMERGENCY FIRE SUPPRESSION WATER TO BE STORED IN FIRE STORAGE TANK.

General Sheet Notes:
FIRE SUPPRESSION LEGEND:
- CEILING MOUNTED FIRE SUPPRESSION
- FIRE SUPPRESSION PRESSURE PUMP
- FIRE WATER STORAGE TANK
- SHIELDED SPACES DENOTE AREAS OF SPRINKLER COVERAGE

Copyright: NONE: PROJECT IS PUBLIC DOMAIN

Client: U.S. DEPARTMENT OF ENERGY
SOLAR DECATHLON 2013
WWW.SOLARDECATHLON.GOV

Team Name: MATÚŠ FICKO
MARTIN
Č
Ě
K

Address: CTU, FACULTY OF ARCHITECTURE
THÁKUROVA 9
166 34 PRAHA 6 – DEJVICE
CZECH REPUBLIC
DHLAVACEK@FA.CVUT.CZ
WWW.AIRHOUSE.CZ

Project Title: AIR HOUSE

Sheet Title: FIRE SUPPRESSION PLAN

F-102

Sheet Date Description: 4 10/11/2012 DD SUBMISSION
1. ARCHITECTURAL NOTES
A. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE INTERNATIONAL RESIDENTIAL CODE AND THE SOLAR DECATHLON RULES AND GUIDELINES.
B. INTERPRETATION OF THE DRAWINGS WILL BE DETERMINED BY THE ARCHITECT.
C. ASBUILT SHEETS WILL BE PREPARED AT PROJECT COMPLETION AND CORRECTED WITH THE WORK OF ALL TRADES.

2. DIMENSIONING NOTES
A. UNLESS NOTED OTHERWISE, PARTITIONS ARE DIMENSIONED TO THE FACE OF THE STRUCTURE.
B. ALL DIMENSIONS ARE TO BE VERIFIED IN THE FIELD BEFORE PROCEEDING WITH WORK. THE ARCHITECT WILL BE NOTIFIED OF ANY DISCREPANCIES.
C. ALL DIMENSIONS SHALL BE FIELD VERIFIED AND COORDINATED WITH THE WORK OF ALL TRADES.
D. WHERE DISCREPANCIES EXIST BETWEEN DRAWINGS AND CONSTRUCTION TRADE PRACTICES, CONSULT ARCHITECT BEFORE PROCEEDING WITH WORK.

REFERENCE KEYNOTES
11 31 13 RESIDENTIAL KITCHEN APPLIANCES
11 31 23 RESIDENTIAL LAUNDRY APPLIANCES
21 30 00 FIRE PUMPS
21 40 00 FIRE-SUPPRESSION WATER STORAGE
21 41 00 STORAGE TANKS FOR FIRE-SUPPRESSION WATER
22 11 16 DOMESTIC WATER PIPING
22 11 19 DOMESTIC WATER PIPING SPECIALTIES
22 11 23 DOMESTIC WATER PUMPS
22 12 19 FACILITY GROUND-MOUNTED, POTABLE WATER STORAGE TANKS
22 13 29 SANITARY SEWERAGE PUMPS
22 13 53 FACILITY SEPTIC TANKS
22 13 63 FACILITY GRAY WATER TANKS
22 41 13 WATER CLOSETS
22 41 16 SHOWER FAUCETS
22 41 39 BATHROOM FAUCETS
22 41 39 CORNER VALVES
23 56 13.13 HEATING SOLAR FLAT-PLATE COLLECTORS
23 71 13 THERMAL HEAT STORAGE
23 81 26 SPLIT SYSTEM AIR CONDITIONERS

GENERAL SHEET NOTES
1. ARCHITECTURAL NOTES
A. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE INTERNATIONAL RESIDENTIAL CODE AND THE SOLAR DECATHLON RULES AND GUIDELINES.
B. INTERPRETATION OF THE DRAWINGS WILL BE DETERMINED BY THE ARCHITECT.
C. ASBUILT SHEETS WILL BE PREPARED AT PROJECT COMPLETION AND CORRECTED WITH THE WORK OF ALL TRADES.

2. DIMENSIONING NOTES
A. UNLESS NOTED OTHERWISE, PARTITIONS ARE DIMENSIONED TO THE FACE OF THE STRUCTURE.
B. ALL DIMENSIONS ARE TO BE VERIFIED IN THE FIELD BEFORE PROCEEDING WITH WORK. THE ARCHITECT WILL BE NOTIFIED OF ANY DISCREPANCIES.
C. ALL DIMENSIONS SHALL BE FIELD VERIFIED AND COORDINATED WITH THE WORK OF ALL TRADES.
D. WHERE DISCREPANCIES EXIST BETWEEN DRAWINGS AND CONSTRUCTION TRADE PRACTICES, CONSULT ARCHITECT BEFORE PROCEEDING WITH WORK.

REFERENCE KEYNOTES
11 31 13 RESIDENTIAL KITCHEN APPLIANCES
11 31 23 RESIDENTIAL LAUNDRY APPLIANCES
21 30 00 FIRE PUMPS
21 40 00 FIRE-SUPPRESSION WATER STORAGE
21 41 00 STORAGE TANKS FOR FIRE-SUPPRESSION WATER
22 11 16 DOMESTIC WATER PIPING
22 11 19 DOMESTIC WATER PIPING SPECIALTIES
22 11 23 DOMESTIC WATER PUMPS
22 12 19 FACILITY GROUND-MOUNTED, POTABLE WATER STORAGE TANKS
22 13 29 SANITARY SEWERAGE PUMPS
22 13 53 FACILITY SEPTIC TANKS
22 13 63 FACILITY GRAY WATER TANKS
22 41 13 WATER CLOSETS
22 41 16 SHOWER FAUCETS
22 41 39 BATHROOM FAUCETS
22 41 39 CORNER VALVES
23 56 13.13 HEATING SOLAR FLAT-PLATE COLLECTORS
23 71 13 THERMAL HEAT STORAGE
23 81 26 SPLIT SYSTEM AIR CONDITIONERS
DOMESTIC WATER SUPPLY DIAGRAM

ABBREVIATIONS:

ERU ENERGY RECOVERY UNIT
SP FLAT-PLATE SOLAR PANELS
GSP SOLAR PUMP STATIONS WITH
SEV SOLAR EXPANSION VESSELS
WT WATER TANK
TS TEMPERATURE SENSOR
HW HOT WATER
CW COLD WATER
MEP MECHANICAL, ELECTRICAL, PLUMBING
DW DRAINAGE
F FAUCET
PC PLUMBING EQUIPMENT
PLINE PLUMBING LINER
PV PUMP
V VALVE
WM WASHING MACHINE
DISHWASHER
WT WATER TANK
SNK SINK
SH SHOWER
WM WASHING MACHINE
DRYER
WC TOILET
ST STOPPER

DOMESTIC WATER SUPPLY DIAGRAM

PE PLUMBING EQUIPMENT
PEX MANIFOLD
PU PUMP
V VALVE
TMV THERMOSTATIC MIXING VALVE
DR DISTRIBUTOR
ST STOPPER

CZECH REPUBLIC / CTU
CTU, FACULTY OF ARCHITECTURE
THÁKUROVA 9
166 34 PRAHA 6 – DEJVICE
CZECH REPUBLIC
DHLAVACEK@FA.CVUT.CZ
WWW.AIRHOUSE.CZ

P-501

DOMESTIC WATER SUPPLY DIAGRAM
<table>
<thead>
<tr>
<th>SYSTEM NAME</th>
<th>COUNT</th>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>REFERENCE NO.</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLUMBING PIPES</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INSULATION COLD WATER PIPES</td>
<td>193</td>
<td>MIRELON</td>
<td>PRO 22</td>
<td>07 19</td>
<td></td>
</tr>
<tr>
<td>INSULATION HOT WATER PIPES</td>
<td>193</td>
<td>MIRELON</td>
<td>PRO 22</td>
<td>07 19</td>
<td></td>
</tr>
<tr>
<td>1-1/2&quot; PLASTIC PIPE</td>
<td>5</td>
<td>REHAU</td>
<td>RAUTITAN FLEX</td>
<td>22 11 16</td>
<td></td>
</tr>
<tr>
<td>1&quot; PLASTIC PIPE</td>
<td>50</td>
<td>REHAU</td>
<td>RAUTITAN FLEX</td>
<td>22 11 16</td>
<td></td>
</tr>
<tr>
<td>3/4&quot; PLASTIC PIPE</td>
<td>30</td>
<td>REHAU</td>
<td>RAUTITAN FLEX</td>
<td>22 11 16</td>
<td></td>
</tr>
<tr>
<td>1/2&quot; PLASTIC PIPE</td>
<td>300</td>
<td>REHAU</td>
<td>RAUTITAN FLEX</td>
<td>22 11 16</td>
<td></td>
</tr>
<tr>
<td>4&quot; PLASTIC PIPE</td>
<td>10</td>
<td>REHAU</td>
<td>RAUPIANO PLUS</td>
<td>22 13 16</td>
<td></td>
</tr>
<tr>
<td>3&quot; PLASTIC PIPE</td>
<td>70</td>
<td>REHAU</td>
<td>RAUPIANO PLUS</td>
<td>22 13 16</td>
<td></td>
</tr>
<tr>
<td>2&quot; PLASTIC PIPE</td>
<td>60</td>
<td>REHAU</td>
<td>RAUPIANO PLUS</td>
<td>22 13 16</td>
<td></td>
</tr>
<tr>
<td>PLUMBING PIPES SCHEDULE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1&quot; BALL VALVE</td>
<td>4</td>
<td>GIACOMINI</td>
<td>R251X055</td>
<td>22 11 19</td>
<td></td>
</tr>
<tr>
<td>3/4&quot; BALL VALVE</td>
<td>4</td>
<td>GIACOMINI</td>
<td>GZ651Y004</td>
<td>22 11 19</td>
<td></td>
</tr>
<tr>
<td>1/2&quot; BALL VALVE</td>
<td>4</td>
<td>GIACOMINI</td>
<td>GZ651Y003</td>
<td>22 11 19</td>
<td></td>
</tr>
<tr>
<td>1&quot; DRAIN VALVE</td>
<td>1</td>
<td>GIACOMINI</td>
<td>R621X004</td>
<td>22 11 19</td>
<td></td>
</tr>
<tr>
<td>1/2&quot; DRAIN VALVE</td>
<td>2</td>
<td>GIACOMINI</td>
<td>R251SX005</td>
<td>22 11 19</td>
<td></td>
</tr>
<tr>
<td>1&quot; CHECK-VALVE</td>
<td>1</td>
<td>GIACOMINI</td>
<td>R623Y005</td>
<td>22 11 19</td>
<td></td>
</tr>
<tr>
<td>3/4&quot; THERMOSTATIC MIXING VALVE</td>
<td>1</td>
<td>REGULUS</td>
<td>WMIX-K S20</td>
<td>22 11 19</td>
<td></td>
</tr>
<tr>
<td>1/2&quot; SAFETY VALVE</td>
<td>1</td>
<td>GIACOMINI</td>
<td>R140RY102</td>
<td>22 11 19</td>
<td></td>
</tr>
<tr>
<td>1/2&quot; FLOWMETER</td>
<td>1</td>
<td>SENSUS</td>
<td>RESIDIAJET</td>
<td>22 11 19</td>
<td></td>
</tr>
<tr>
<td>DOMESTIC WATER PUMPS SCHEDULE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1&quot; DOMESTIC WATER PUMP</td>
<td>1</td>
<td>WILO</td>
<td>COR-1 WJ 401 EM</td>
<td>22 11 23</td>
<td></td>
</tr>
<tr>
<td>SANITARY SEWERAGE PUMPS SCHEDULE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1&quot; SANITARY SEWERAGE PUMP</td>
<td>1</td>
<td>WILO</td>
<td>TMW 32/8</td>
<td>22 13 29</td>
<td></td>
</tr>
<tr>
<td>PACKAGED SEWAGE PUMPING STATIONS SCHEDULE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1&quot; PACKAGED SEWAGE PUMPING STATION</td>
<td>1</td>
<td>WILO</td>
<td>KH 32-0,4 EM</td>
<td>22 13 43</td>
<td></td>
</tr>
<tr>
<td>POTABLE-WATER SUPPLY TANK SCHEDULE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>264 GALLON</td>
<td>2</td>
<td>OBAL CENTRUM</td>
<td>STANDARD IBC CONTAINERS 1000, UN CODE</td>
<td>22 12 19</td>
<td></td>
</tr>
<tr>
<td>SEPTIC TANK SCHEDULE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>106 GALLON</td>
<td>1</td>
<td>REALPLAST</td>
<td>POLYPROPYLENE WELDED TANK</td>
<td>22 13 53</td>
<td></td>
</tr>
<tr>
<td>GRAY WATER TANK SCHEDULE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>396 GALLON</td>
<td>1</td>
<td>REALPLAST</td>
<td>POLYPROPYLENE WELDED TANK</td>
<td>22 13 63</td>
<td></td>
</tr>
<tr>
<td>RESIDENTIAL WATER CLOSETS SCHEDULE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WALL MOUNTED CERAMIC TOILET</td>
<td>1</td>
<td>DURAVIT</td>
<td>DARLING NEW TOILETS 254909</td>
<td>22 41 13</td>
<td></td>
</tr>
<tr>
<td>IN-WALL TANK SYSTEM</td>
<td>1</td>
<td>ALCA PLAST</td>
<td>A1101/1200</td>
<td>22 41 13</td>
<td></td>
</tr>
<tr>
<td>CORNER VALVES SCHEDULE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1&quot; CORNER VALVE</td>
<td>1</td>
<td>HANSGROHE</td>
<td>13903000</td>
<td>22 41 13</td>
<td></td>
</tr>
<tr>
<td>RESIDENTIAL LAVATORIES AND SINKS SCHEDULE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WALL MOUNTED CERAMIC SINK</td>
<td>1</td>
<td>DURAVIT</td>
<td>VANITY BASINS WASHBASINS 031555</td>
<td>22 41 16</td>
<td></td>
</tr>
<tr>
<td>KITCHEN SINK</td>
<td>1</td>
<td>DURAVIT</td>
<td>VERO KITCHEN SINKS 751445</td>
<td>22 41 16</td>
<td></td>
</tr>
<tr>
<td>INTERCEPTING TRAP SCHEDULE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1&quot; INTERCEPTING TRAP</td>
<td>1</td>
<td>ALCA PLAST</td>
<td>A434</td>
<td>22 41 16</td>
<td></td>
</tr>
<tr>
<td>RESIDENTIAL SHOWER SCHEDULE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SHOWER DRAIN CHANNELS</td>
<td>1</td>
<td>ALCA PLAST</td>
<td>A471CR</td>
<td>22 41 23</td>
<td></td>
</tr>
<tr>
<td>RESIDENTIAL FAUCETS, SUPPLIES, AND TRIM SCHEDULE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BATHROOM FAUCET</td>
<td>1</td>
<td>HANSGROHE</td>
<td>AXOR STARCK ORGANIC 2-HANDLE BASIN MIXER 280</td>
<td>22 41 39</td>
<td></td>
</tr>
<tr>
<td>KITCHEN FAUCET</td>
<td>1</td>
<td>HANSGROHE</td>
<td>AXOR SINGLE LEVER KITCHEN MIXER WITH PULL-OUT SPRAY</td>
<td>22 41 39</td>
<td></td>
</tr>
<tr>
<td>SHOWER FAUCET</td>
<td>1</td>
<td>HANSGROHE</td>
<td>AXOR THERMOSTATIC SHOWER MIXER FOR EXPOSED FITTING</td>
<td>22 41 39</td>
<td></td>
</tr>
<tr>
<td>SHOWER SET</td>
<td>1</td>
<td>HANSGROHE</td>
<td>AXOR SHOWER SET</td>
<td>22 41 39</td>
<td></td>
</tr>
<tr>
<td>CORNER VALVES</td>
<td>4</td>
<td>HANSGROHE</td>
<td>13903000</td>
<td>22 41 39</td>
<td></td>
</tr>
<tr>
<td>CORNER VALVES WITH CHECK-VALVE</td>
<td>4</td>
<td>IVAR</td>
<td>08101013</td>
<td>22 41 39</td>
<td></td>
</tr>
<tr>
<td>CONCEALED TRAP</td>
<td>1</td>
<td>ALCA PLAST</td>
<td>APS3</td>
<td>22 41 39</td>
<td></td>
</tr>
<tr>
<td>FLOOR DRAIN</td>
<td>1</td>
<td>ALCA PLAST</td>
<td>APV2324</td>
<td>22 41 39</td>
<td></td>
</tr>
<tr>
<td>EXPANSION VESSELS SCHEDULE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1&quot; EXPANSION VESSELS</td>
<td>1</td>
<td>REGULUS</td>
<td>HYB 5</td>
<td>22 11 19</td>
<td></td>
</tr>
</tbody>
</table>
1/2" x 1/4" Copper Tube With Insulation

1/2" Plastic Pipe

Water Tank 264 gal

Gray Water Tanks 396 gal

Outdoor Compressor Unit

Fire Pumps

Septic Tank 106 gal

1" Drain Valve

Sewerage Pumps

Water Pumps

Fire Water Tank 264 gal

Solar Expansion Vessels 5 gal

Solar Pump Stations

3/4" Pre-Insulated Flexible Pipes

Thermal Heat Storage 26 gal

Thermal Heat Storage 92 gal

Expansion Vessels 9 gal

A1 HYDRONIC PLAN

HYDRONIC PLAN

M-101
HYDRONIC ELEVATIONS A-A

HYDRONIC ELEVATIONS B-B
HVAC ELEVATIONS A-A

HVAC ELEVATIONS B-B

2 02/14/2013 CD SUBMISSION
ABBRVIATIONS

ERU  ENERGY RECOVERY UNIT
SP  FLAT-PLATE SOLAR PANELS
SEV  SOLAR EXPANSION VESSELS
WT  WATER TANK
TS  TEMPERATURE SENSOR
HW  HOT WATER
CW  COLD WATER
MEP  MECHANICAL, ELECTRICAL, PLUMBING
DN  DRAINAGE
F  FAUCET
PM  PUMP
PMF  PUMP MANIFOLD
V  VALVE
PM  PUMP MANIFOLD
PMF  PUMP MANIFOLD
WT  WATER TANK
SH  SHOWER
WM  WASHING MACHINE
WM  WASHING MACHINE
D  DRYER
WC  TOILET
DR  DISTRIBUTOR
ST  STOPPER

RETURN AND FRESH AIR DISTRIBUTION

300 cfm - Living room and bedroom

FRESH AIR DISTRIBUTION

300 cfm - Bathroom

DISCHARGED AIR DISTRIBUTION

300 cfm - Kitchen

RETURN AIR DISTRIBUTION

190 cfm - Bathroom

HVAC DIAGRAM

B1
<table>
<thead>
<tr>
<th>SYSTEM NAME</th>
<th>COUNT</th>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>REFERENCE NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECHANICAL EQUIPMENT SCHEDULE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/2&quot; x 1/4&quot; COPPER REFRIGERANT LINE WITH INSULATION 30 FEET</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MICROWELL</td>
<td>2010</td>
<td>23</td>
<td>23</td>
<td>00</td>
</tr>
<tr>
<td>METAL DUCTS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INSULATION WATER INLET PIPES 230 FEET</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARMACELL</td>
<td>AC/ARMAFLEX</td>
<td>23</td>
<td>07</td>
<td>19</td>
</tr>
<tr>
<td>DIFFUSERS AND GRILLES SCHEDULE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>THERMAL HEAT STORAGE 26 GALLON</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>UKV</td>
<td>102</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENERGY RECOVERY UNIT 1</td>
<td>ATREA</td>
<td>DUPLEX RB4 EC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OUTDOOR CONDENSING UNIT 1</td>
<td>DAIKIN</td>
<td>ERLQ004CV3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HEAT PUMP INDOOR UNIT 1</td>
<td>DAIKIN</td>
<td>EHBX04C3V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HYDRONIC PIPES SCHEDULE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INSULATION WATER RETURN PIPES 230 FEET</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARMACELL</td>
<td>AC/ARMAFLEX</td>
<td>23</td>
<td>07</td>
<td>19</td>
</tr>
<tr>
<td>1&quot; COPPER PIPE 50 FEET</td>
<td>VIEGA</td>
<td>A1 PROFIPRESS SC-CONTUR</td>
<td>23</td>
<td>21</td>
</tr>
<tr>
<td>3/4&quot; COPPER PIPE 100 FEET</td>
<td>VIEGA</td>
<td>A1 PROFIPRESS SC-CONTUR</td>
<td>23</td>
<td>21</td>
</tr>
<tr>
<td>1/2&quot; PLASTIC PIPE 300 FEET</td>
<td>REHAU</td>
<td>RAUTHERM S</td>
<td>23</td>
<td>21</td>
</tr>
<tr>
<td>8&quot; ROUND SPIRAL DUCTS 70 FEET</td>
<td>MULTIVAC</td>
<td>SONOVAC 25 DS</td>
<td>23</td>
<td>31</td>
</tr>
<tr>
<td>HYDRONIC PIPING SPECIALTIES SCHEDULE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/4&quot; BALL VALVE 12</td>
<td>GIACOMINI</td>
<td>GZ651Y004</td>
<td>23</td>
<td>21</td>
</tr>
<tr>
<td>1/2&quot; DRAIN VALVE 4</td>
<td>GIACOMINI</td>
<td>R248Y004</td>
<td>23</td>
<td>21</td>
</tr>
<tr>
<td>3/4&quot; CHECK-VALVE 3</td>
<td>GIACOMINI</td>
<td>R60Y005</td>
<td>23</td>
<td>21</td>
</tr>
<tr>
<td>3/4&quot; T-VALVE 2</td>
<td>ESBE</td>
<td>VRG 231</td>
<td>23</td>
<td>21</td>
</tr>
<tr>
<td>1/2&quot; MIXING VALVE 3</td>
<td>SAUTER</td>
<td>BUN015</td>
<td>23</td>
<td>21</td>
</tr>
<tr>
<td>3/4&quot; FILTER 3</td>
<td>GIACOMINI</td>
<td>R74AY005</td>
<td>23</td>
<td>21</td>
</tr>
<tr>
<td>1/2&quot; AUTOMATIC AIR VENT VALVE 2</td>
<td>GIACOMINI</td>
<td>R99IY003</td>
<td>23</td>
<td>21</td>
</tr>
<tr>
<td>THERMOMANOMETER 6</td>
<td>GIACOMINI</td>
<td>R226Y002</td>
<td>23</td>
<td>21</td>
</tr>
<tr>
<td>EXPANSION VESSELS 9 GALLON</td>
<td>1</td>
<td>REFLEX N 35/3</td>
<td>23</td>
<td>21</td>
</tr>
<tr>
<td>HYDRONIC PUMPS SCHEDULE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HYDRONIC PUMPS 3</td>
<td>WILO</td>
<td>YONOS PICO 1-4</td>
<td>23</td>
<td>21</td>
</tr>
<tr>
<td>DIFFUSERS A1 11</td>
<td>TROX</td>
<td>VSD35</td>
<td>23</td>
<td>37</td>
</tr>
<tr>
<td>GRILLES 3</td>
<td>MULTIVAC</td>
<td>C-UM-S-S</td>
<td>23</td>
<td>37</td>
</tr>
<tr>
<td>HEATING SOLAR FLAT-PLATE COLLECTORS SCHEDULE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FLAT-PLATE SOLAR PANELS 2</td>
<td>REGULUS</td>
<td>KPG1</td>
<td>23</td>
<td>56</td>
</tr>
<tr>
<td>SOLAR PUMP STATIONS 1</td>
<td>REGULUS</td>
<td>S2 SOLAR 3</td>
<td>23</td>
<td>56</td>
</tr>
<tr>
<td>SOLAR EXPANSION VESSELS 5 GALLON</td>
<td>1</td>
<td>REGULUS</td>
<td>R8 018 IN LINE</td>
<td>23</td>
</tr>
<tr>
<td>MOUNT AND INTERCONNECTION KIT FOR KPG1 COLLECTORS 2</td>
<td>REGULUS</td>
<td>10539</td>
<td>23</td>
<td>56</td>
</tr>
<tr>
<td>3/4&quot; PRE-INSULATED FLEXIBLE PIPES 60 FEET</td>
<td>REGULUS</td>
<td>22.920.410</td>
<td>23</td>
<td>56</td>
</tr>
<tr>
<td>CONNECTION KIT FOR 1 KPG1</td>
<td>REGULUS</td>
<td>REG-7710</td>
<td>23</td>
<td>56</td>
</tr>
<tr>
<td>CHILLED CEILING DESK 60&quot; X 50&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>THERMAL HEAT STORAGE 92 GALLON</td>
<td>1</td>
<td>ATREA</td>
<td>IZT-U-TTS 350</td>
<td>23</td>
</tr>
<tr>
<td>6&quot; ROUND SPIRAL DUCTS 20 FEET</td>
<td>MULTIVAC</td>
<td>SONOVAC 25 DS</td>
<td>23</td>
<td>31</td>
</tr>
<tr>
<td>5&quot; ROUND SPIRAL DUCTS 20 FEET</td>
<td>MULTIVAC</td>
<td>SONOVAC 25 DS</td>
<td>23</td>
<td>31</td>
</tr>
<tr>
<td>4&quot; ROUND SPIRAL DUCTS 30 FEET</td>
<td>MULTIVAC</td>
<td>SONOVAC 25 DS</td>
<td>23</td>
<td>31</td>
</tr>
<tr>
<td>NONMETAL DUCTS SCHEDULE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9&quot; x 4&quot; RECTANGULAR PLASTIC DUCTS 20 FEET</td>
<td>MULTIVAC</td>
<td>MULTI-PLAST</td>
<td>23</td>
<td>31</td>
</tr>
<tr>
<td>8&quot; x 2&quot; RECTANGULAR PLASTIC DUCTS 10 FEET</td>
<td>MULTIVAC</td>
<td>MULTI-PLAST</td>
<td>23</td>
<td>31</td>
</tr>
<tr>
<td>1&quot; BALL VALVE 6</td>
<td>GIACOMINI</td>
<td>GZ651Y005</td>
<td>23</td>
<td>21</td>
</tr>
<tr>
<td>1&quot; THERMOSTATIC MIXING VALVE 1</td>
<td>ESBE</td>
<td>VTA552</td>
<td>23</td>
<td>21</td>
</tr>
<tr>
<td>DIFFUSERS A2 1</td>
<td>TROX</td>
<td>VSD35</td>
<td>23</td>
<td>37</td>
</tr>
<tr>
<td>DIFFUSERS B2 3</td>
<td>MULTIVAC</td>
<td>RT350</td>
<td>23</td>
<td>37</td>
</tr>
<tr>
<td>DIFFUSERS B3 1</td>
<td>MULTIVAC</td>
<td>RT350</td>
<td>23</td>
<td>37</td>
</tr>
<tr>
<td>DIFFUSERS B4 1</td>
<td>MULTIVAC</td>
<td>RT350</td>
<td>23</td>
<td>37</td>
</tr>
<tr>
<td>DEHUMIDIFICATION UNIT 1</td>
<td>HONEYWELL</td>
<td>TRUEDRY DR65</td>
<td>23</td>
<td>84</td>
</tr>
<tr>
<td>AXIAL HVAC FANS</td>
<td>1</td>
<td>MULTIVAC</td>
<td>2MU7296</td>
<td>23</td>
</tr>
<tr>
<td>CENTRIFUGAL HVAC FANS</td>
<td>1</td>
<td>MULTIVAC</td>
<td>MV17105010C</td>
<td>23</td>
</tr>
</tbody>
</table>
REFERENCE KEYNOTES

- 26 24 16 A  TPB - TEAM PANEL BOARD
- 26 24 16 B  RAC-AC PV PANEL BOARD
- 26 24 16 C  RDC-DC PV PANEL BOARD
- 26 24 16 D  RLED-LED DRIVERS
- 26 24 16 E  RMR-1-MEASUREMENT AND CONTROL PANEL BOARD 26 24 16

SHEET KEYNOTES

GENERAL SHEET NOTES
**PHOTOVOLTAIC MODULE – AIDE SOLAR:**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>MAXIMUM POWER (PM) [W]</th>
<th>MAX. POWER VOLTAGE (VMP) [V]</th>
<th>OPEN CIRCUIT VOLTAGE (VOC) [V]</th>
<th>SHORT CIRCUIT CURRENT (ISC) [A]</th>
<th>MAX. SYSTEM VOLTAGE [V]</th>
<th>WORKING TEMPERATURE [°C]</th>
<th>COEFF. VOLTAGE TK [°C]</th>
<th>COEF. POWER TK [°C]</th>
</tr>
</thead>
<tbody>
<tr>
<td>XZST-185W/24V</td>
<td>185</td>
<td>36.8</td>
<td>44.5</td>
<td>5.50</td>
<td>5.10</td>
<td>48±2</td>
<td>0.10%</td>
<td>-0.37%</td>
</tr>
</tbody>
</table>

**INVERTER – SMA:**

**TYPE SUNNY BOY 5000-US**

**INPUT (DC):**
- MAX. DC POWER (@ COS Φ = 1) 5300 W
- MAX. DC VOLTAGE 600 V
- MPP VOLTAGE RANGE 250 V – 480 V
- MIN. DC VOLTAGE / START VOLTAGE 250 V / 300 V
- MAX. INPUT CURRENT / PER STRING 21 A / 20 A
- NUMBER OF MPP TRACKERS / STRINGS 1 / 4 / 1 |

**OUTPUT (AC):**
- AC NOMINAL POWER 5000 W
- MAX. AC APPARENT POWER 5000 VA
- NOMINAL AC VOLTAGE / RANGE 208 V, 240 V, 277 V / 183 – 229 V, 211 – 264 V, 244 – 305 V
- AC GRID FREQUENCY / RANGE 60 HZ / 59.3 – 60.5 HZ
- MAX. OUTPUT CURRENT 24 A AT 208 V, 21 A AT 240 V, 18  A AT 277 V
- POWER FACTOR (COS Φ) 1

**PV CALCULATION:**

**OUTPUT (W):**
- 1 BRANCH – 11 PV PANELS
  - 11 * 185 = 2035 W
- 3 BRANCHES TOTAL = 6105 W

**CURRENT (A):**
- 1 PV PANEL = 5.1 A
  - SERIAL CONNECTION => 11 PV PANELS (1 BRANCH) 5.1 A
- 3 BRANCHES TOTAL = 15.3 A

**VOLTAGE (V):**
- 1 PV PANEL = 44.5 V
  - SERIAL CONNECTION => 11 PANELS (1 BRANCH) 44.5 * 11 = 489.5 V
- 3 BRANCHES IN PARALLEL TOTAL = 489.5 V

The wire between PV panels and inverter, with regard to allowable ampacity (see project manual, 26-05-19)

5.1 A (1 BRANCH) – CHOOSEN PV1-F 6MM², WITH REGARD TO TEMPERATURE

The wire between inverter and main service panel, with regard to allowable ampacity (see project manual, 26-05-19)

25 A – CHOOSEN CYKYLS 5 X 6MM², WITH REGARD TO TEMPERATURE
**ABBREVIATIONS LEGEND**

- OUP1 ORGANIZER UTILITY PANEL 1
- OUP2 ORGANIZER UTILITY PANEL 2
- UM1 UTILITY METER 1
- UM2 UTILITY METER 2
- TBP TEAM BOARD PANEL
- MSP MAIN SERVICE PANEL
- I INVERTER

**REFERENCE KEYNOTES**

- ONE-LINE DIAGRAM

**SHEET KEYNOTES**

- GENERAL SHEET NOTES
  - CZECH TECHNICAL STANDARDS CSN USED WHEN INSTALLING PV
  - CSN 33 2000-7-712 ELECTRICAL INSTALLATIONS OF BUILDINGS - PART 7... CIRCUITS: CIRCUIT BREAKER 16A/230V/50HZ/30MA, CABLE CYKY-J 3X2,5MM2 LIGHT CIRCUITS: CIRCUIT BREAKER 10A/230V/50HZ, CABLE CYKY-J 3X1,5MM2 WITH NO RCD

**PROJECT TITLE:** AIR HOUSE

**CLIENT:** U.S. DEPARTMENT OF ENERGY

**SOLAR DECATHLON 2013**

**WWW.SOLARDECATHLON.GOV**

**COPYRIGHT:** CZECH REPUBLIC / CTU

**CTU, FACULTY OF ARCHITECTURE**

**THÁKUROVA 9**

**166 34 PRAHA 6 – DEJVICE**

**CZECH REPUBLIC**

**DHLAVACEK@FA.CVUT.CZ**

**WWW.AIRHOUSE.CZ**

**CZECH REPUBLIC / CTU**

**CTU, FACULTY OF ARCHITECTURE**

**THÁKUROVA 9**

**166 34 PRAHA 6 – DEJVICE**

**CZECH REPUBLIC**

**DHLAVACEK@FA.CVUT.CZ**

**WWW.AIRHOUSE.CZ**
<table>
<thead>
<tr>
<th>TYPE OF CONSUMPTION</th>
<th>POWER CONSUMPTION (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLUMBING</td>
<td></td>
</tr>
<tr>
<td>EXISTING SANITARY SEWERAGE</td>
<td>80</td>
</tr>
<tr>
<td>EXISTING DOMESTIC WATER PUMPS</td>
<td>80</td>
</tr>
<tr>
<td>EXISTING PLUMBING SYSTEM</td>
<td>80</td>
</tr>
<tr>
<td>EXISTING MECHANICAL</td>
<td>80</td>
</tr>
<tr>
<td>SOLAR SYSTEM</td>
<td></td>
</tr>
<tr>
<td>EXISTING PLUMBING SYSTEM</td>
<td>80</td>
</tr>
<tr>
<td>EXISTING DOMESTIC WATER PUMPS</td>
<td>80</td>
</tr>
<tr>
<td>SOLAR PUMP STATIONS WITH CONTROLLERS REGULUS</td>
<td>1300</td>
</tr>
<tr>
<td>MECHANICAL PUMPS WASTE TREATMENT</td>
<td>450</td>
</tr>
<tr>
<td>HYDRONIC PUMPS WILO YONOS</td>
<td>80</td>
</tr>
<tr>
<td>AIR-TO-AIR ENERGY RECOVERY EQUIPMENT ATREA DUPLEX</td>
<td>110</td>
</tr>
<tr>
<td>AIR-TO-WATER HEAT PUMP OUTDOOR UNIT DAIKIN</td>
<td>80</td>
</tr>
<tr>
<td>AIR-TO-WATER HEAT PUMP INDOOR UNIT DAIKIN</td>
<td>80</td>
</tr>
<tr>
<td>CENTRAL DEHUMIDIFIER HONEYWELL</td>
<td>75</td>
</tr>
<tr>
<td>FIRE SYSTEM INSTALLATION</td>
<td></td>
</tr>
<tr>
<td>POWER SUPPLY DDC SYSTEMS &amp; KNX</td>
<td>240</td>
</tr>
<tr>
<td>SUBTOTAL</td>
<td>2912</td>
</tr>
<tr>
<td>FLOORING</td>
<td>120</td>
</tr>
<tr>
<td>LIGHTING</td>
<td></td>
</tr>
<tr>
<td>SLOTLIGHT II SINGLE LUMINAIRE</td>
<td>397</td>
</tr>
<tr>
<td>PERLUCE LUMINAIRE</td>
<td>63</td>
</tr>
<tr>
<td>LED STRIP WW</td>
<td>240</td>
</tr>
<tr>
<td>TOLOMEO PARETE + TERRA ALUMINIUM</td>
<td>38</td>
</tr>
<tr>
<td>SUBTOTAL</td>
<td>759.2</td>
</tr>
<tr>
<td>APPLIANCES</td>
<td></td>
</tr>
<tr>
<td>CLOTHES WASHER</td>
<td>1850</td>
</tr>
<tr>
<td>CLOTHES DRYER</td>
<td>1700</td>
</tr>
<tr>
<td>REFRIGERATOR/FREEZER</td>
<td>1300</td>
</tr>
<tr>
<td>OVEN</td>
<td>2800</td>
</tr>
<tr>
<td>MICROWAVE OVEN</td>
<td>2040</td>
</tr>
<tr>
<td>DISHWASHER</td>
<td>8000</td>
</tr>
<tr>
<td>COOKTOP</td>
<td>300</td>
</tr>
<tr>
<td>EXHAUST HOOD</td>
<td>40</td>
</tr>
<tr>
<td>TV</td>
<td>300</td>
</tr>
<tr>
<td>SUBTOTAL</td>
<td>2200</td>
</tr>
<tr>
<td>NOTEBOOK</td>
<td></td>
</tr>
<tr>
<td>POWER CONSUMPTION</td>
<td></td>
</tr>
<tr>
<td>SUBTOTAL</td>
<td>80</td>
</tr>
<tr>
<td>TOTAL</td>
<td>27727 W</td>
</tr>
</tbody>
</table>
SIGNIFICANCE OF ABBREVIATIONS

DI - DIGITAL INPUT
DO - DIGITAL OUTPUT
AI - ANALOG INPUT
AO - ANALOG OUTPUT

SA ... SWITCH
SB ... BUTTON SWITCH
HA ... ALARM LAMP OR HORN
TE ... SENSOR TEMPERATURE
ME ... SENSOR RELATIVE HUMIDITY
SE ... SENSOR AIR VELOCITY
QE ... SENSOR AIR QUALITY
LE ... SENSOR WATER LEVEL
GE ... SENSOR WINDOW POSITION
PdAH ... DIFFERENTIAL PRESSURE
TZL ... ANTIFREEZING THERMOSTAT
PZL ... MINIMUM PRESSURE
TZH ... MAXIMUM TEMPERATURE
Y ... DAMPER ACTUATOR OR VALVE ACTUATOR
M ... PUMP
EC ... FAN
UME ... DEHUMIDIFIER
UE ... ELECTRIC HEATER
UM ... HEAT PUMP

SIGNIFICANCE OF ABBREVIATIONS OF MEASUREMENT
AND CONTROL
WINDOW ACTOR, WINDOW CONTACTS SCHUCO - TIP TRONIC SEWAGE PUMP SEPTIC SPRINKLER WATER STATION SEWAGE PUMP

PHOTOVOLTAIC PANELS

SA6.1

TE3.1

M3.1 M3.2

TE5.4

WZ7.1 WZ7.2 M7.1

GE7.1

M

T

15

640

DI

DO

AI

AO

13 1 1

31

E-615

MEASUREMENT AND
CONTROL SCHEME

AIR HOUSE

CZECH REPUBLIC / CTU

CTU, FACULTY OF ARCHITECTURE

THÁKUROVA 9

166 34 PRAHA 6 – DEJVICE

CZECH REPUBLIC

DHLAVACEK@FA.CVUT.CZ

WWW.AIRHOUSE.CZ
SWITCHGEAR RMR-1 KNX COMPONENTS (PAGE 34)
NOTES:
- CRANE PREPARES TO LIFT TECHNOLOGICAL MODULE INTO PLACE
- TECHNOLOGICAL MODULE LIFTED INTO PLACE AND FIXED TO FOUNDATION AND STEEL FLOORING
- MODULE 3 - THE CRANE CHANGES ITS POSITION - TRUCK 2 EMPTY LEAVES SITE

NOTES:
- CRANE PREPARES TO LIFT STEEL FLOORING MODULES 1 - 3 INTO PLACE
- FLOORING MODULES 1 - 3 LIFTED INTO PLACE AND FIXED TO FOUNDATION
- THE CRANE CHANGES ITS POSITION - TRUCK 2 WITH TECHNOLOGICAL MODULE ARRIVES ON SITE (LOCATION AS PER O-101)

MOBILE CARNE 18740 LBS IN 40 FT (8,5 TON IN 12 M)

TEAM CONSTRUCTION AREA
ON SITE PERSONAL AREA AND TOOL STORAGE

TECHNOLOGICAL MODULE
STEEL FLOORING MODULE 2
STEEL FLOORING MODULE 1

PROVISIONAL STORAGE AREA FOR FLOORING MODULES 1 - 2
PROVISIONAL STORAGE AREA FOR BOX ROOF MODULE
PROVISIONAL STORAGE AREA FOR EXTERIOR RAMP

SOUTH AND NORTH
PLACEMENT OF FLOORING MODULES 1-2

PLACEMENT OF BOX ROOF MODULE

NOTES:
- ROOF MODULES 1-4, WALL MODULES, FACADE MODULES ARE UNLOADED
- CRANE PREPARES TO LIFT BOX ROOF MODULE
- BOX ROOF MODULE UPLIFTED INTO PLACE AND FIXED TO TECHNOLOGICAL MODULE USING SCAFFOLDING
- CRANE PREPARES TO LIFT WALL MODULES INTO PLACE
- TRUCK 3 WITH 40 FOOT CONTAINER ARRIVES ON SITE. REFER TO O-101 FOR TRUCK PARKING LOCATION
- CRANE PREPARES TO LIFT FLOORING MODULES 1-2 INTO PLACE
- FLOORING MODULES 1-2 LIFTED INTO PLACE AND FIXED TO FOUNDATION
- TRUCK 3 EMPTY LEAVES SITE - CRANE PREPARES TO LIFT WALL MODULES INTO PLACE
- WALL MODULES, FACADE MODULES ARE UNLOADED
- ROOF MODULES 1-4, WALL MODULES, FACADE MODULES ARE UNLOADED
- TRAVEL LANE, ONE-WAY, NO PARKING, NO LOADING OR UNLOADING
- TEMPORARY LOADING AND UNLOADING ONLY

TEAM CONSTRUCTION AREA

SOLAR ENVELOPE

PROVISIONAL STORAGE AREA

ON SITE PERSONAL AREA AND TOOL STORAGE

PROVISIONAL STORAGE AREA FOR EXTERIOR RAMP

SOUTH AND NORTH

MOBILE CARNE 18740 LBS IN 40 FT (8,5 TON IN 12 M)

A1 OPERATIONS 3
NOTES: ROOF MODULES LIFTED INTO PLACE AND FIXED USING SCAFFOLDING TO WALL MODULES AND TECHNOLOGICAL MODULE - TRUCK 4 WITH 40 FOOT CONTAINER ARRIVES ON SITE. REFER TO O-101 FOR TRUCK PARKING LOCATION - CRANE PREPARES UNLOAD CONTAINER - FACADE MODULES, ROOF CLADDING COMPONENTS ARE UNLOADED - TRUCK 4 EMPTY LEAVES SITE - TRUCK 5 WITH 40 FOOT CONTAINER ARRIVES ON SITE. REFER TO O-101 FOR TRUCK PARKING LOCATION - CRANE PREPARES UNLOAD CONTAINER - FACADE MODULES, WINDOWS AND DOORS, FACADE FINISHES ARE UNLOADED - TRUCK 5 EMPTY LEAVES SITE - TRUCK 6 WITH 40 FOOT CONTAINER ARRIVES ON SITE. REFER TO O-101 FOR TRUCK PARKING LOCATION - CRANE PREPARES UNLOAD CONTAINER - FACADE CLADDING PANELS, PV SYSTEM, SOLAR SYSTEM AND CANOPY COMPONENTS ARE UNLOADED - TRUCK 6 EMPTY LEAVES SITE - ALL INTERIOR INSTALLATION IS STARTED

NOTE: WALL MODULES LIFTED INTO PLACE AND FIXED TO FLOORING MODULES AND TECHNOLOGICAL MODULE - CRANE PREPARES TO LIFT ROOF MODULES 1 - 4 INTO PLACE - PLUMBING INSTALLATION IS STARTED

NOTES: - BOX ROOF MODULE - PROVISIONAL STORAGE AREA FOR EXTERIOR RAMP - SOUTH AND NORTH - ROOF MODULES 1 - 2 ROOF MODULES 3 - 4 - PROVISIONAL STORAGE AREA FOR OTHER MATERIALS - TEAM CONSTRUCTION AREA - ON SITE PERSONAL AREA AND TOOL STORAGE - TRAVEL LANE, ONE-WAY, NO PARKING, NO LOADING OR UNLOADING - TEMPORARY LOADING AND UNLOADING ONLY - SOLAR ENVELOPE - TEAM CONSTRUCTION AREA - ON SITE PERSONAL AREA AND TOOL STORAGE - PV PANELS AND SYSTEM - ROOF CLADDING COMPONENTS STORAGE AREA - OTHER MATERIAL STORAGE AREA - MOBILE CARNE 18740 LBS IN 40 FT (8,5 TON IN 12 M)
NOTES:  
- CRANE PREPARES TO LIFT FACADE MODULES INTO PLACE  
- FACADE MODULES LIFTED INTO PLACE AND FIXED TO WALL MODULES AND TECHNOLOGICAL MODULES  
- WINDOWS AND DOORS ARE PLACED AND FIXED TO WALL MODULES AND TECHNOLOGICAL MODULES  
- FOUNDATION PADS OF CANOPY ARE POSITIONED ACCORDING TO SITE SURVEY  
- FOUNDATION UPRIGHTS OF CANOPY ARE FIXED TO FOUNDATION PADS  
- CRANE PREPARES TO LIFT EXTERIOR RAMPS INTO PLACE  
- NORTH EXTERIOR RAMP IS PLACED AND FIXED TO FACADE MODULES, TECHNOLOGICAL MODULES, AND CANOPY COMPONENTS  
- THE INSTALLATION OF FACADE FINISHES IS STARTED  

SOLAR ENVELOPE  
TEAM CONSTRUCTION AREA  
ON SITE PERSONAL AREA AND TOOL STORAGE  
PV PANELS AND SYSTEM STORAGE AREA  
ROOF CLADDING COMPONENTS STORAGE AREA  
OTHER MATERIAL STORAGE AREA  
TRAVEL LANE, ONE-WAY, NO PARKING, NO LOADING OR UNLOADING  
TEMPORARY LOADING AND UNLOADING ONLY  
BOX ROOF MODULES  
PROVISIONAL STORAGE AREA FOR ROOF MODULES 1  
PROVISIONAL STORAGE AREA FOR ROOF MODULES 2  
PROVISIONAL STORAGE AREA FOR ROOF MODULES 3  
PROVISIONAL STORAGE AREA FOR ROOF MODULES 4  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SOLAR PANELS AND SYSTEM FACADE MODULES FACADE MODULES FACADE MODULES FACADE MODULES FACADE MODULES FACADE CLADDING PANELS FACADE CLADDING PANELS CANOPY COMPONENTS STORAGE AREA  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SOLAR PANELS AND SYSTEM FACADE MODULES FACADE MODULES FACADE MODULES FACADE MODULES FACADE MODULES FACADE CLADDING PANELS FACADE CLADDING PANELS CANOPY COMPONENTS STORAGE AREA  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SOLAR PANELS AND SYSTEM FACADE MODULES FACADE MODULES FACADE MODULES FACADE MODULES FACADE MODULES FACADE CLADDING PANELS FACADE CLADDING PANELS CANOPY COMPONENTS STORAGE AREA  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SOLAR PANELS AND SYSTEM FACADE MODULES FACADE MODULES FACADE MODULES FACADE MODULES FACADE MODULES FACADE CLADDING PANELS FACADE CLADDING PANELS CANOPY COMPONENTS STORAGE AREA  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SOLAR PANELS AND SYSTEM FACADE MODULES FACADE MODULES FACADE MODULES FACADE MODULES FACADE MODULES FACADE CLADDING PANELS FACADE CLADDING PANELS CANOPY COMPONENTS STORAGE AREA  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SOLAR PANELS AND SYSTEM FACADE MODULES FACADE MODULES FACADE MODULES FACADE MODULES FACADE MODULES FACADE CLADDING PANELS FACADE CLADDING PANELS CANOPY COMPONENTS STORAGE AREA  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SOLAR PANELS AND SYSTEM FACADE MODULES FACADE MODULES FACADE MODULES FACADE MODULES FACADE MODULES FACADE CLADDING PANELS FACADE CLADDING PANELS CANOPY COMPONENTS STORAGE AREA  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SOLAR PANELS AND SYSTEM FACADE MODULES FACADE MODULES FACADE MODULES FACADE MODULES FACADE MODULES FACADE CLADDING PANELS FACADE CLADDING PANELS CANOPY COMPONENTS STORAGE AREA  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SOLAR PANELS AND SYSTEM FACADE MODULES FACADE MODULES FACADE MODULES FACADE MODULES FACADE MODULES FACADE CLADDING PANELS FACADE CLADDING PANELS CANOPY COMPONENTS STORAGE AREA  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SOLAR PANELS AND SYSTEM FACADE MODULES FACADE MODULES FACADE MODULES FACADE MODULES FACADE MODULES FACADE CLADDING PANELS FACADE CLADDING PANELS CANOPY COMPONENTS STORAGE AREA  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SOLAR PANELS AND SYSTEM FACADE MODULES FACADE MODULES FACADE MODULES FACADE MODULES FACADE MODULES FACADE CLADDING PANELS FACADE CLADDING PANELS CANOPY COMPONENTS STORAGE AREA  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SCAFFOLDING  
SOLAR PANELS AND SYSTEM FACADE MODULES FACADE MODULES FACAD
NOTES:
- CANOPY FRAMES ARE CRANED INTO PLACE AND FIXED TO THE FOUNDATION SYSTEM USING SCAFFOLDING
- CRANE PREPARES TO LIFT ROOF CLADDING PANELS INTO PLACE

NOTES:
- ROOF CLADDING PANELS ARE LIFTED INTO PLACE AND FIXED TO THE CANOPY FRAMES
- LEVELS ARE CHECKED WITH LASER LEVEL
- CRANE PREPARES TO LIFT PV AND SOLAR PANEL SUB-STRUCTURE INTO PLACE
- PV AND SOLAR PANEL SUB-STRUCTURE ARE LIFTED INTO PLACE AND ASSEMBLY ON CANOPY ROOF FRAMES
- CRANE PREPARES TO LIFT WALL CLADDING PANELS INTO PLACE
- WALL CLADDING PANELS ARE LIFTED INTO PLACE AND FIXED TO THE CANOPY FRAMES
NOTES: - CRANE PREPARES TO LIFT PV AND SOLAR PANELS INTO PLACE
- PV AND SOLAR PANELS ARE LIFTED INTO PLACE AND FIXED TO THE SUB-STRUCTURE
- TRUCK 7 WITH 40 FOOT CONTAINER ARRIVES ON SITE. REFER TO O-101 FOR TRUCK PARKING LOCATION
- CRANE PREPARES UNLOAD CONTAINER - LANDSCAPE SUB-STRUCTURE AND COMPONENTS, WATER TANKS MODULE ARE UNLOADED
- TRUCK 7 EMPTY LEAVES SITE - CRANE PREPARES TO LIFT WATER TANKS MODULE INTO PLACE
- WATER TANKS MODULE ARE LIFTED INTO PLACE AND CONNECTED WITH HOUSE
- THE INSTALLATION OF LANDSCAPE SUB-STRUCTURE IS STARTED

NOTES: - THE INSTALLATION OF LANDSCAPE SUB-STRUCTURE IS FINISHED
- LEVELS ARE CHECKED WITH LASER LEVEL - THE INSTALLATION OF LANDSCAPE IS STARTED - CRANE PREPARES TO LIFT NORTH EXTERIOR RAMP INTO PLACE
- NORTH EXTERIOR RAMP ARE LIFTED INTO PLACE AND FIXED WITH CANOPY FOUNDATION
- CRANE PACKS UP AND LEAVES SITE - LANDSCAPE DECKING PANELS ARE INSTALLED AND FIXED TO SUB-STRUCTURE
- LEVELS ARE CHECKED WITH LASER LEVEL - PLANTING IS PLACED IN THE DESIGNATED LANDSCAPE AREAS
- THE ASSEMBLY OF LANDSCAPE IS FINISHED - SITE CLEAN UP
NOTES:
- FOUNDATION SYSTEM IS DISASSEMBLED AND STACKED IN DESIGNATED AREA (REFER O-101 FOR LOCATION)
- FOUNDATION COMPONENTS ARE PACKAGED INTO CONTAINER OF TRUCK 1 IN PREDETERMINED ORDER
- CRANE PACKS UP AND LEAVES SITE - FINAL SITE CLEAN UP

TEMPORARY STORAGE AND CONTAINERS

MOBILE CRANE HEAVY LIFT IN FT (X LBS IN TON)

FOUNDATION COMPONENT STORAGE AREA

PROVISIONAL STORAGE AREA FOR FLOORING MODULES 1 - 2

PROVISIONAL STORAGE AREA FOR STEEL FLOORING MODULES 1 - 3

PROVISIONAL STORAGE AREA FOR BOX ROOF MODULE

PROVISIONAL STORAGE AREA FOR EXTERIOR RAMP SOUTH AND NORTH

SOLAR ENVELOPE

SHEET TITLE
LOT NUMBER:
DRAWN BY:
CHECKED BY:
COPYRIGHT:
CLIENT
WWW.SOLARDECATHLON.GOV

TEAM NAME:
ADDRESS:
CONTACT:
CONSULTANTS
NONE: PROJECT IS PUBLIC DOMAIN

PROJECT TITLE:
AIR HOUSE

MARK DATE DESCRIPTION
2 02/14/2013 CD SUBMISSION
1 04/01/2013 CD RE-SUBMISSION
4 10/11/2012 DD SUBMISSION
3 11/20/2012 DD RE-SUBMISSION

RE: O-124
DEPARTURE SEQUENCE PLAN - 4

MOPERFetching...
LIQUIDS DELIVERY AND REMOVAL

1. Constructed wetlands container to be transported in one piece, including tanks.
2. Polypropylene welded planters will be removed before liquids delivery.
3. Polypropylene welded planters will be removed before liquids delivery.
4. Pumps installed inside the container.
5. Plumbing connected.
6. Wetland plants planted into the polypropylene planters - irrigation.
7. System ready for water removal.

Contents of the gray water tank are to be removed by the competition organizers.
ASSEMBLY SEQUENCE 13

ASSEMBLY SEQUENCE 14

ASSEMBLY SEQUENCE 15

ASSEMBLY SEQUENCE 16