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<td>E-603</td>
<td>SOLAR PANEL DIAGRAM</td>
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<tr>
<td>E-604</td>
<td>THREE LINE DIAGRAM</td>
</tr>
</tbody>
</table>

PRODUCED BY AN AUTODESK STUDENT PRODUCT
GENERAL SHEET NOTES

1. 90 TON CRANE TO BE USED TO POSITION HOUSE MODULES
2. HONDA EU 3000S GENERATOR TO BE USED TO POWER SITE OPERATIONS. NOISE LEVEL = 58 DB AT RATED LOAD

TEAM TIDEWATER VIRGINIA

100 PERCENT COMPLETE

SHEET TITLE: ASSEMBLY PLAN

G-004
1. SINGLE FAMILY HOME WITH 971 ABOVE-GRADE FINISHED SQUARE FEET.

2. THE FINISHED SQUARE FOOTAGE CALCULATIONS FOR THIS HOUSE WERE MADE BASED ON PLAN DIMENSIONS ONLY AND MAY VARY FROM THE FINISHED SQUARE FOOTAGE OF THE HOUSE AS BUILT.

3. FINISHED SQUARE FOOTAGE CALCULATIONS FOR THIS HOUSE WERE MADE BASED ON PLAN DIMENSIONS ONLY AND MAY VARY FROM THE FINISHED SQUARE FOOTAGE OF THE HOUSE AS BUILT.

FINISHED SQUARE FOOTAGE CALCULATIONS FOR THIS HOUSE WERE MADE BASED ON PLAN DIMENSIONS ONLY AND MAY VARY FROM THE FINISHED SQUARE FOOTAGE OF THE HOUSE AS BUILT.
ORGANIZER SUPPLIED PAVING PLAN

5'-0''
VEGETATION SCHEDULE

<table>
<thead>
<tr>
<th>No.</th>
<th>Scientific Name</th>
<th>Common Name</th>
<th>Qty.</th>
<th>Notes</th>
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<tbody>
<tr>
<td>01</td>
<td>Taxodium distichum</td>
<td>Bald Cypress</td>
<td>3</td>
<td>3 1/2' Gal.</td>
</tr>
<tr>
<td>02</td>
<td>Taxodium distichum</td>
<td>Weeping Bald Cypress</td>
<td>2</td>
<td>3 1/2' Gal.</td>
</tr>
<tr>
<td>03</td>
<td>Morella cerifera</td>
<td>Wax Myrtle</td>
<td>4</td>
<td>Shear Wax Myrtle 3 O.C. 15' Height</td>
</tr>
<tr>
<td>04</td>
<td>Farfugium japonicum</td>
<td>Leopard Plant</td>
<td>4</td>
<td>Underplant used for seasonal color</td>
</tr>
<tr>
<td>05</td>
<td>Ilex vomitoria nana</td>
<td>Yaupon Holly</td>
<td>20</td>
<td>Shear Dry Topi Holly at 18' O.C. 15' Height</td>
</tr>
<tr>
<td>06</td>
<td>Scirpus americanus officinalis</td>
<td>Presetate Rosemary</td>
<td>2 Gall.</td>
<td></td>
</tr>
<tr>
<td>07</td>
<td>Ipomoea batatas</td>
<td>Sweet Potato Vine</td>
<td>30</td>
<td>10' O.C.</td>
</tr>
<tr>
<td>08</td>
<td>Panicum virgatum</td>
<td>Heavy Metal</td>
<td>2</td>
<td>Gal.</td>
</tr>
</tbody>
</table>

QTY.

Notes:

SHEAR DWF YAUPON HOLLY at 15" O.C.; 13" Height
SHEAR WAX MYRTLE 3 O.C. 15' HEIGHT
UNDERPLANT USED FOR SEASONAL COLOR
SHEAR DRY TOPI HOLLY AT 18 O.C. 15' HEIGHT

PRODUCED BY AN AUTODESK STUDENT PRODUCT

SHEET INDEX

Revisions

SECOND ISSUE

100 PERCENT COMPLETE

MARK DATE DESCRIPTION

SHEET TITLE

VEGETATION PLAN

L-102
GENERAL SHEET NOTES

1. ALL DIMENSION LUMBER IS PRESSURE TREATED NO 2 SOUTHERN PINE

2. UTILITY CORE IS BUILT IN TWO MODULES TO ALLOW FOR SHIPPING. BOLTING DETAIL SHOWS CONNECTION ON SITE. BOLTS ARE INSTALLED FROM REMOVABLE PANEL ON INTERIOR OF UTILITY CORE WALL.

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<tr>
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<tbody>
<tr>
<td>06 11 00.D5</td>
<td>2X4 FRAMING @ 16&quot; O.C.</td>
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<tr>
<td>06 11 00.D6</td>
<td>2X4 FRAMING @ 24&quot; O.C.</td>
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<tr>
<td>06 11 00.F</td>
<td>2X6 SILL &amp; JAMB FRAMING</td>
<td></td>
</tr>
<tr>
<td>06 11 00.G3</td>
<td>2X8 FRAMING @ 24&quot; O.C.</td>
<td></td>
</tr>
<tr>
<td>06 11 00.H11</td>
<td>DBL 2X10 RIM JOIST</td>
<td></td>
</tr>
<tr>
<td>06 16 00.D6</td>
<td>1/2&quot; PLYWOOD</td>
<td></td>
</tr>
<tr>
<td>31 66 16.A5</td>
<td>8&quot;X16&quot; PRECAST CONCRETE</td>
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- HOUSE (BY OTHERS)

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KEY PLAN

- HOUSE (BY OTHERS)
GENERAL SHEET NOTES

1. INTERIOR AND EXTERIOR WALLS DIMENSIONED TO FACE OF STUD.
2. WINDOWS AND DOORS DIMENSIONED TO CENTERLINE.

FLOOR PLAN MODULE B

FLOOR PLAN

DIMENSIONS IN FEET AND INCHES

PRODUCED BY AN AUTODESK STUDENT PRODUCT
12 WOOD PERGOLA WITH OVERHEAD PLANTERS
SEE LANDSCAPE DRAWINGS

13 WOOD CONSTRUCTED SUN SHADING SYSTEM
SEE SHEET LANDSCAPE DRAWINGS

07 41 13 METAL ROOF PANELS
07 54 23 THERMOPLASTIC-POLYOLEFIN ROOFING
07 71 00.A1 GUTTER
23 56 13.13 HEATING SOLAR FLAT-PLATE COLLECTORS
48 14 13 SOLAR ENERGY COLLECTORS

CLIENT
U.S. DEPARTMENT OF ENERGY
WWW.SOLARDECATHLON.GOV

ADDRESS:
Sustainable Development Institute
Department of Civil and Environmental Engineering
Old Dominion University
Kaufman Hall, Room 135
Norfolk, VA 23529-0241

MARK
DATE
DESCRIPTION

SECOND ISSUE
100 PERCENT COMPLETE

PRODUCED BY AN AUTODESK STUDENT PRODUCT
GENERAL SHEET NOTES

1. INTERIOR AND EXTERIOR WALLS DIMENSIONED TO FACE OF STUD.
2. WINDOWS AND DOORS DIMENSIONED TO CENTERLINE.
3. PAINTED WOOD BATTEN 1'-0" O.C., TYP.

PAINTED WOOD BATTEN 1'-0" O.C., TYP.

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<tr>
<td>06 20 13</td>
<td>EXTERIOR FINISH CARPENTRY</td>
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<td>06 22 00.A3</td>
<td>1X3 WOOD TRIM</td>
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<td>06 22 00.A8</td>
<td>1X10 WOOD TRIM</td>
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<tr>
<td>07 41 13</td>
<td>METAL ROOF PANELS</td>
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<tr>
<td>07 46 00</td>
<td>1/2&quot; MDO PLYWOOD SIDING</td>
<td></td>
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PAINTED WOOD BATTEN 1'-0" O.C., TYP.

FINISHED FLOOR

GRADE LEVEL

SECOND FLOOR

WALL FRAMING 1'-0" O.C., TYP.

FIRST FLOOR

GRADE LEVEL

SECOND FLOOR

WALL FRAMING 1'-0" O.C., TYP.

PAINTED WOOD BATTEN 1'-0" O.C., TYP.

SOLAR ENVELOPE

GRADE LEVEL

FIRST FLOOR

SECOND FLOOR

WALL FRAMING 1'-0" O.C., TYP.

PAINTED WOOD BATTEN 1'-0" O.C., TYP.

SOLAR ENVELOPE

GRADE LEVEL

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WALL FRAMING 1'-0" O.C., TYP.

PAINTED WOOD BATTEN 1'-0" O.C., TYP.
GENERAL SHEET NOTES

ALL KITCHEN INTERIOR WALL FINISHES AND TRIM ARE TYPICAL TO KITCHEN-SOUTH ELEVATION UNLESS OTHERWISE NOTED.

REFERENCE KEYNOTES

06 22 00 A3 1X3 WOOD TRIM
06 22 00 A6 1X6 WOOD TRIM
09 21 16 GYPSUM BOARD ASSEMBLIES
11 31 00 RESIDENTIAL APPLIANCES
11 31 00 A1 REFRIGERATOR CONSERV MODEL CT380Z
11 31 00 A3 DISHWASHER FISHER AND PAYKEL DD24SCTX6V2
11 31 00 A6 MICROWAVE FRIGIDAIRE FPBM189KF
12 35 30 RESIDENTIAL CASEWORK
12 35 30 A8 QUARTZ COUTNERTOPS
23 31 13 C1 10" x 6" TYP

REVISIONS

MARK DATE DESCRIPTION

PRODUCED BY AN AUTODESK STUDENT PRODUCT
GENERAL SHEET NOTES

ALL LIVING ROOM INTERIOR WALL FINISHES AND TRIM MATERIALS ARE TYPICAL TO LIVING ROOM NORTH ELEVATION UNLESS OTHERWISE NOTED.

REFERENCE KEYNOTES

06 20 23.A2 INTERIOR FINISH CARPENTRY
06 22 00.A3 1X3 WOOD TRIM
06 22 00.A6 1X6 WOOD TRIM
09 21 16 GYPSUM BOARD ASSEMBLIES
23 37 13.B1 SUPPLY REGISTER
26 50 00 LIGHTING

SHEET KEYNOTES

78 CENTER SCONCES BETWEEN WINDOWS

INTERIOR ELEVATIONS LIVING ROOM

SUSTAINABLE DEVELOPMENT INSTITUTE
DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING
OLD DOMINION UNIVERSITY
KAUFMAN HALL, ROOM 135
NORFOLK, VA 23529-0241

TEAM TIDEWATER 103

WWW.SOLARDECATHLON.GOV

PRODUCED BY AN AUTODESK STUDENT PRODUCT
A. See structural drawings for confirmation of structural member placement.
B. See structural drawings for confirmation of concrete footing sizes and positions.
C. All exterior walls to have 4 mil plastic vapor retarder on interior side of stud.

Sheet Keynotes:
31. 6" Spray Foam Insulation 07 21 19
47. 1" x 12" Cedar Cornice, Stained
**GENERAL SHEET NOTES**

1. INTERIOR AND EXTERIOR WALLS DIMENSIONED TO FACE OF STUD.
2. WINDOWS AND DOORS DIMENSIONED TO CENTERLINE.

**REFERENCE KEYNOTES**

- 06 11 00.B1 1 X 3 FURRING STRIPS
- 06 11 00.C1 2 X 3
- 06 11 00.D3 2 X 4 FRAMING
- 06 11 00.F2 2 X 6 FRAMING
- 06 16 64 7/16" ZIP PANEL WALL SHEATHING
- 06 20 13 EXTERIOR CLADDING R-19 BATT INSULATION
- 07 21 19 FOAMED-IN PLACE INSULATION
- 07 46 00 1/2" MDO PLYWOOD SIDING
- 09 21 16 GYPSUM BOARD ASSEMBLIES

**PLAN DETAILS**

**OUTSIDE CORNER DETAIL**

- SUNSPACE CORNER
- SUNSPACE CORNER (BASE)
- INSIDE CORNER DETAIL
- MODULE CONNECTION DETAIL

**GENERAL SHEET NOTES**

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- 07 46 00 1/2" MDO PLYWOOD SIDING
- 09 21 16 GYPSUM BOARD ASSEMBLIES
Callout of LIVING ROOM - NORTH

1. MATERIAL IS MDO.
2. ALL 1' 5" WIDE SHELVES ARE ADJUSTABLE.

STATIC TOP A

STATIC BASE A
1. MATERIAL IS MDO.
2. ALL 3' 4" WIDE SHELVES ARE ADJUSTABLE.
1. MATERIAL IS MDO.

STATIC BACKING

x 1

STATIC TOP CAP

x 1

x 2

STATIC BACKING
1. MATERIAL IS MDO.
2. CABINET DOORS ARE MDO WITH POPLAR TRIM.

STATIC CABINET DOORS

x 1

STATIC FACE

x 2 each

x 1

x 1

x 1

x 5

x 4

CONTACT: NONE

ADDRESS: TEAM TIDEWATER

CLIENT: TEAM TIDEWATER

U.S. DEPARTMENT OF ENERGY

WWW.SOLARDECATHLON.ORG

SOLAR DECATHLON 2011

Sustainable Development
Environmental Science
Old Dominion University
Norfolk, VA
1. ALL TRIM MATERIAL IS POPULAR.

CROWN MOLD

x 1 each

BASE & CHAIR MOLD
GENERAL SHEET NOTES

1. ALL TRIM MATERIAL IS POPLAR.
2. CABINET DOORS ARE MDO WITH POPLAR TRIM.

CABINET DOORS

X 2

1. ALL TRIM MATERIAL IS POPLAR.
2. CABINET DOORS ARE MDO WITH POPLAR TRIM.

CROWN MOLD

BASE & CHAIR MOLD

PRODUCED BY AN AUTODESK STUDENT PRODUCT

CASEWORK

A-607
GENERAL SHEET NOTES

1. COLUMN MADE OF PAINTED POPULAR WOOD.
GENERAL SHEET NOTES

1. UTILITY CORE AND MAIN HOUSE STRUCTURE WILL BE LOWERED ONTO A DOUBLE BOTTOM PLATE THAT IS NOT SHOWN.
2. 60 MIL EPDM_membrane at base of utility core must be a continuous sheet. May not be penetrated at any point by fasteners.
3. Base of core must be sloped at a minimum slope of 1/8" per foot.

REFERENCE KEYNOTES

- 2X4 FRAMING @ 12" O.C.
- 2X4 FRAMING @ 16" O.C.
- 2X4 FRAMING @ 24" O.C.
- 2X12
- 4X4
- 4X4 POST
- 3/4" PLYWOOD
- EXTERIOR INSULATION AND FINISH SYSTEMS
- ETHYLENE-PROPYLENE-DIENE-MONOMER
- GRID DISCONNECT
- ELECTRICAL POWER MONITORING AND CONTROL
- ELECTRICAL POWER GENERATION INVERTERS

GENERAL DESCRIPTION

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### Door Schedule Details

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**Address:**
Sustainable Development Institute
Department of Civil and Environmental Engineering
Old Dominion University
Kaufman Hall, Room 135
Norfolk, VA 23529-0241

**Contact:**
ROOM SCHEDULE
WWW.SOLARDECATHLON.GOV

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<td>1/2&quot; GYP, PAINTED CERAMIC TILES</td>
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GENERAL SHEET NOTES

1. WATER SUPPLY FOR FIRE SUPPRESSION IS THE CISTERN

2. THE WATER LEVEL IN THE CISTERN WILL NOT BE ABLE TO FALL BELOW 250 GALLONS

REFERENCE KEYNOTES

21 13 13 WET-PIPE SPRINKLER SYSTEMS
21 13 29 WATER SPRAY FIXED SYSTEMS
21 41 00 STORAGE TANKS FOR FIRE-SUPPRESSION WATER SUPPLY

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1. THE WATER LEVEL IN THE CISTERN WILL NOT BE ABLE TO FALL BELOW 250 GALLONS

FIRE SUPPRESSION LINES IN CEILING
FIRE SUPPRESSION LINES UNDER HOUSE

REFERENCE KEYNOTES

21 13 13 WET-PIPE SPRINKLER SYSTEMS
21 13 29 WATER SPRAY FIXED SYSTEMS
21 41 00 STORAGE TANKS FOR FIRE-SUPPRESSION WATER SUPPLY

LEGEND

SPRINKLER HEAD LOCATIONS RADIUS

A1

1/4" = 1'-0"
1. THE CISTERN WILL DOUBLE AS THE FIRE SUPPRESSION SUPPLY. WATER LEVELS WILL NOT BE ABLE TO DROP BELOW 250 GAL.

2. THERE ARE TWO WATER DELIVERY POINTS: THE SUPPLY TANK AND THE FIRE SUPPRESSION TANK/ CISTERN.

3. THERE ARE TWO WATER REMOVAL POINTS: THE SANITARY RETURN TANK AND THE FIRE SUPPRESSION TANK/ CISTERN.

4. THE CISTERN WILL REQUIRE 250 GAL. TO BE FILLED FIRST AND REMOVED LAST.

5. THE SUPPLY TANK WILL REQUIRE 515 GAL. TO BE FILLED SECOND.

6. THE RETURN TANK WILL BE EMPTIED FIRST OF 515 GALS.

7. EACH TANK WILL HAVE A 5" DIAMETER OPENING AND OVER 12" OF CLEARANCE ABOVE FOR ACCESS.

REFERENCE KEYNOTES

1. 08 31 13 ACCESS DOORS AND FRAMES
2. 21 41 23 GROUND SUCTION STORAGE TANKS FOR FIRE-SUPPRESSION WATER
3. 22 12 16 FACILITY ELEVATED, POTABLE-WATER STORAGE TANKS
4. 22 13 00 FACILITY SANITARY SEWERAGE
5. 33 49 23 STORM DRAINAGE WATER RETENTION STRUCTURES

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LEGEND

- SUPPLY HOSE
- REMOVAL HOSE

SITE PLAN

DELIVERY AND REMOVAL SCHEMATIC

P-101
GENERAL SHEET NOTES

1. ALL WASTEWATER WILL FLOW DIRECTLY TO RETURN TANK FOR COMPETITION

REFERENCE KEYNOTES

08 31 13 ACCESS DOORS AND FRAMES
22 12 00.A1 WATER STORAGE TANK
22 41 13.A1 WATER CLOSET
22 41 16.A3 LAVATORY
22 41 16.A12 S.S. TWO COMPARTMENT SINK
22 41 19.D3 PRE-FABRICATED TUB AND SHOWER

LEGEND

RETURN PIPING
VENT PIPING

P-103
1. ALL RAINWATER FROM FLAT ROOF TO DRAIN TO NORTH WALL OF BUILDING

2. GUTTER ALONG NORTH WALL OF BUILDING FUNNELS WATER TOWARDS RAINWATER LEADER DRAINING TO CISTERN
Greywater Schematic

1. PROPOSED DESIGN FOR FINAL USE NOT TO BE USED FOR COMPETITION

LAVATORY
SHOWER/TUB
SINK
DISH WASHER
CLOTHES WASHER
FLOWER BED
GRYWTR EQ TANK
SANITARY RETURN TANK

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U.S. DEPARTMENT OF ENERGY
SOLAR DECATHLON 2011
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NONE: PROJECT IS PUBLIC DOMAIN

WWW.TEAMTIDEWATERVA.ORG

6" = 1'-0"
TO COMBINER BOX IN UTILITY CORE

PANELS ARE SANYO HIT-220A

SOLAR PANEL DIAGRAM

TEAM TIDEWATER VIRGINIA
Old Dominion University and Norfolk University
Kaufman Hall, Room 135
Norfolk, VA 23529-0241

Sustainable Development Institute
Department of Civil and Environmental Engineering

WWW.TEAMTIDEWATERVA.ORG

3/8" = 1'-0"

PANELS ARE SANYO HIT-220A

1-1 1-2 1-3 1-4

1-5 1-6 2-6 2-5

2-1 2-2 2-3 2-4

Solar Panel Diagram
Solar Decathlon House

Virginia SUBMITTAL

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A0.1 | Structural Details
A2.1 | First Floor Plan
A3.1 | First Floor Entry and Front Elevation
A5.1 | Section A-A and Section B-B
Z1.1 | First Floor Electrical Plan

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- Sheet B
- Sheet C

NOTES

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Sheet Title

A0.0

Cover Sheet

MODULAR KEY PLAN

TEAM TIDEWATER

Z-109

PRODUCED BY AN AUTODESK STUDENT PRODUCT

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PRODUCED BY AN AUTODESK STUDENT PRODUCT

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TEAM TIDEWATER
TEAM TIDEWATER

PRODUCED BY AN AUTODESK STUDENT PRODUCT

SECOND ISSUE
100 PERCENT COMPLETE

SHEET INDEX
Revisions

MARK DATE DESCRIPTION

CONCEPTUAL FOUNDATION PLAN

Solar Decathlon House
Norfolk, Virginia

HAVEN SHOP
DRAWINGS

Z-111