

Permits: 410-313-2455  
 Inspections: 410-313-1810  
 Automated Line: 410-313-3800

Howard County Building/Fire Permit Application  
 Department of Inspections, Licenses & Permits  
 3430 Court House Drive  
 Ellicott City, MD 21043

Permit Number:

B15004867

Building Address: 2834 Hunt Valley Dr.  
Elenwood, MD 21738

Suite/Apt. # \_\_\_\_\_ SDP/WP/BA #: \_\_\_\_\_

Census Tract: \_\_\_\_\_ Subdivision: \_\_\_\_\_

Section: \_\_\_\_\_ Area: \_\_\_\_\_ Lot: \_\_\_\_\_

Tax Map: 0014 Parcel: 0239 Grid: 0021

Zoning: \_\_\_\_\_ Map Coordinates: \_\_\_\_\_ Lot Size: \_\_\_\_\_

Property Owner's Name: Charles Brown II  
 Address: 2834 Hunt Valley Dr.  
 City: Elenwood State: MD Zip Code: 21738  
 Home Phone: 443-742-4280 Work Phone: \_\_\_\_\_

Applicant's Name & Mailing Address, (if other than stated herein):

Existing Use: SFD  
 Proposed Use: SFD  
 Estimated Construction Cost: \$ 60,000  
 Description of Work: Install 60 solar PV panel ground mount 16.5KW

221 Gateway Dr. Bel Air MD 21014  
 Phone: 410-557-0555 Fax: 410-692-5475  
 Email: gwensil-strow@adbuild.com

Contractor Company: American Design & Build  
 Contact Person: Gailan Wensil-Strow  
 Address: 221 Gateway Dr.  
 City: Bel Air State: MD Zip Code: 21014  
 License No.: 40549  
 Phone: 410-557-0555 Fax: 410-692-5475  
 Email: gwensil-strow@adbuild.com

Occupant or Tenant: \_\_\_\_\_

Was tenant space previously occupied?  Yes  No

Contact Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_

Engineer/Architect Company: RECEIVED

Responsible Design Prof.: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: NOV 04 2015 Zip Code: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: LICENSES & PERMITS DIVISION

BUILDING DESCRIPTION - COMMERCIAL	
Building Characteristics	Utilities
Height:	<u>Water Supply</u>
No. of stories:	<input type="checkbox"/> Public
Gross area, sq. ft./floor:	<input type="checkbox"/> Private
Area of construction (sq. ft.):	<u>Sewage Disposal</u>
	<input type="checkbox"/> Public
	<input type="checkbox"/> Private
Use group:	Electric: <input type="checkbox"/> Yes <input type="checkbox"/> No
	Gas: <input type="checkbox"/> Yes <input type="checkbox"/> No
<u>Construction type:</u>	<u>Heating System</u>
<input type="checkbox"/> Reinforced Concrete	<input type="checkbox"/> Electric <input type="checkbox"/> Oil
<input type="checkbox"/> Structural Steel	<input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane Gas
<input type="checkbox"/> Masonry	<u>Sprinkler System:</u>
<input type="checkbox"/> Wood Frame	<input type="checkbox"/> N/A
<input type="checkbox"/> State Certified Modular	<input type="checkbox"/> Full
<input checked="" type="checkbox"/> Roadside Tree Project Permit	<input type="checkbox"/> Partial
<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Other Suppression
Roadside Tree Project Permit #	No. of Heads:

BUILDING DESCRIPTION - RESIDENTIAL	
Building Characteristics	Utilities
<input type="checkbox"/> SF Dwelling <input type="checkbox"/> SF Townhouse	<u>Water Supply</u>
Depth Width	<input type="checkbox"/> Public
1 <sup>st</sup> floor:	<input checked="" type="checkbox"/> Private
2 <sup>nd</sup> floor:	<u>Sewage Disposal</u>
Basement:	<input type="checkbox"/> Public
<input type="checkbox"/> Finished Basement	<input checked="" type="checkbox"/> Private
<input type="checkbox"/> Unfinished Basement	Electric: <input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Crawl Space	Gas: <input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Slab on Grade	<u>Heating System</u>
No. of Bedrooms:	<input type="checkbox"/> Electric
<u>Multi-family Dwelling</u>	<input type="checkbox"/> Oil
No. of efficiency units:	<input type="checkbox"/> Natural Gas
No. of 1 BR units:	<input checked="" type="checkbox"/> Propane Gas
No. of 2 BR units:	
No. of 3 BR units:	
Other Structure:	
Dimensions:	
Footings:	<input checked="" type="checkbox"/> Roadside Tree Project Permit
Roof:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> State Certified Modular	Roadside Tree Project Permit #
<input type="checkbox"/> Manufactured Home	

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Applicant's Signature: Christopher Drewen Print Name: Christopher Drewen  
 Email Address: gwensil-strow@adbuild.com Date: 11/4/15  
 Title/Company: American Design & Build Gailan Wensil-Strow  
cell. 443-867-7541

Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY  
 \*\*PLEASE WRITE NEATLY & LEGIBLY\*\*  
 -FOR OFFICE USE ONLY-

AGENCY	DATE	SIGNATURE OF APPROVAL
State Highways		
Building Officials		
PSZA (Zoning)		
PSZA (Engineering)		
Health	<u>11/23/15</u>	<u>R. [Signature]</u>
Fire Protection		

Is Sediment Control approval required for issuance?  Yes  No  
 CONTINGENCY CONSTRUCTION START  
 ONE STOP SHOP

DPZ SETBACK INFORMATION

Front: \_\_\_\_\_

Rear: \_\_\_\_\_

Side: \_\_\_\_\_

Side St.: \_\_\_\_\_

All minimum setbacks met?  Yes  No

Is Entrance Permit Required?  Yes  No

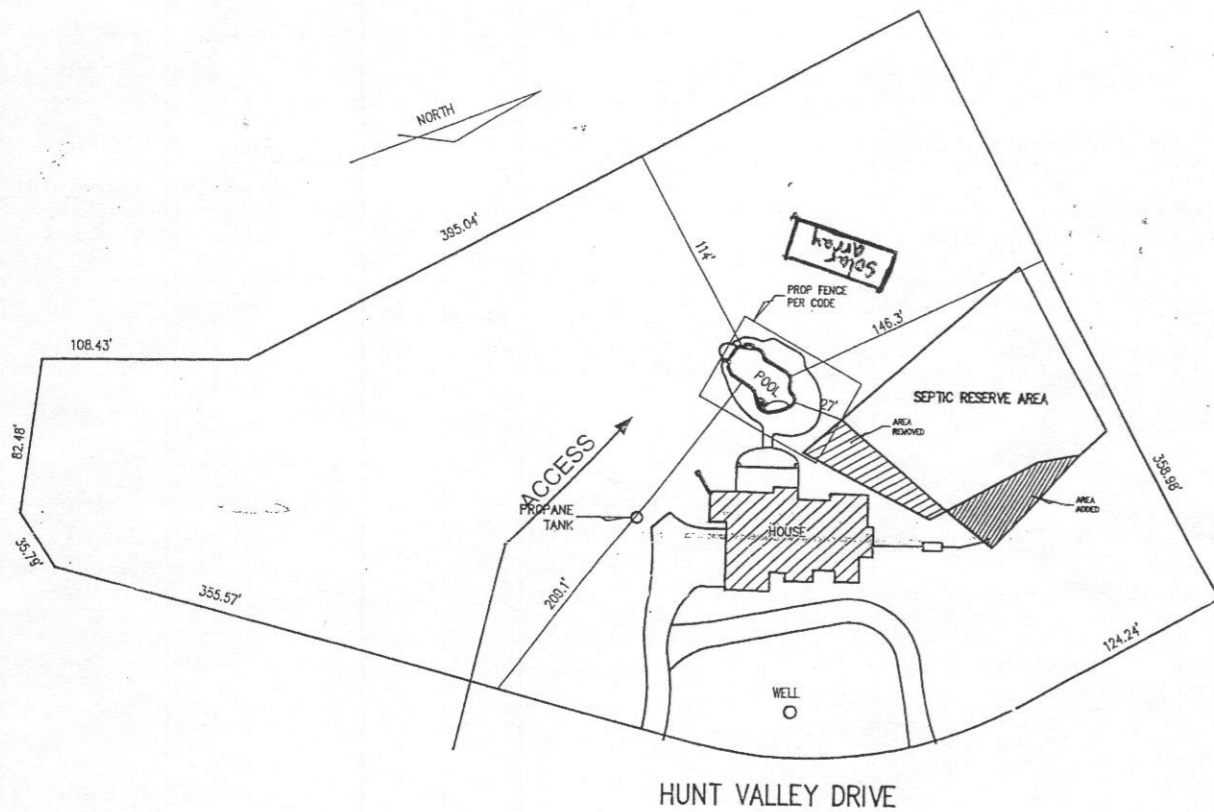
Historic District?  Yes  No

Lot Coverage for New Town Zone: \_\_\_\_\_

SDP/Red-line approval date: \_\_\_\_\_

Filing Fee	\$ <u>55.00</u>
Permit Fee	\$ <u>55.00</u>
Tech Fee	\$
Excise Tax	\$
PSFS	\$
Guaranty Fund	\$
Add'l per Fee	\$
Total Fees	\$
Sub-Total Paid	\$
Balance Due	\$ <u>713.64</u>

COUNTY REGULATIONS MAY REQUIRE SEPARATE AND DISTINCT DOOR ALARMS ON ANY DOOR OPENING INTO THE POOL AREA



ACCESS AROUND PROPANE TANK

**Survey Plan**  
SCALE: 1"=100'

BROWN II		JOB NO: 030-190	
CUSTOMER INFORMATION			
LAST NAME:	BROWN II	HOME PHONE:	443-742-4280
FIRST NAME:	CHARLES	CELL PHONE:	410-447-7700
ADDRESS:	2834 HUNT VALLEY DR	WORK PHONE:	0
CITY:	GLENWOOD	STATE:	MD
ZIP:	21738	COUNTY:	HOWARD
SUBDIVISION:	WELLINGTON	DAY TELE DESCR:	
EMAIL ADDRESS:	CEBROWN2ND@VERIZON.NET		

Map



Directions

DIRECTIONS

HOWARD COUNTY  
MAP PG 9 GRID A-5  
CROSS STREET: SAGEWOOD ROAD

SITE CONDITIONS

ADD'L EXC. GRADING:	STANDARD	HRS WATER SOURCE:	WELL
DIG TYPE:	NO	SEWER or SEPTIC:	SEPTIC
DIRT HAUL:	N/A	DRAIN REQ'D / TYPE:	NO
STUMP REMOVE QTY:	N/A	LAWN SPRINKLERS:	NO
FENCE REMOVAL:	N/A	TEMP FENCE:	YES
SLAB REMOVAL:	OWNER	SILT FENCE:	N/A
ADD'L ISSUES:	N/A	POWER LINES:	NO

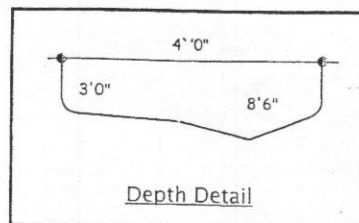
POOL SETBACKS

REAR:	10	FT. EQUIPMENT:	FT
SIDES:	10	FT. FENCE:	4 FT
HOUSE:		FT. OTHER SETBACKS:	

ANTHONY & SYLVAN CONTACT INFORMATION

DESIGNER:	DUFFY, MIKE	CELL PHONE NO:	(443) 994-3169
A&S OFFICE:	SEVERNA PARK	OFFICE PHONE NO:	(301) 490-1919
ADDRESS:	556E. GOV. RITCHIE HWY SEVERNA PARK, MD 21146		
GENERAL MANAGER:	ALAN WALKER	PERMIT OFFICE:	HOWARD

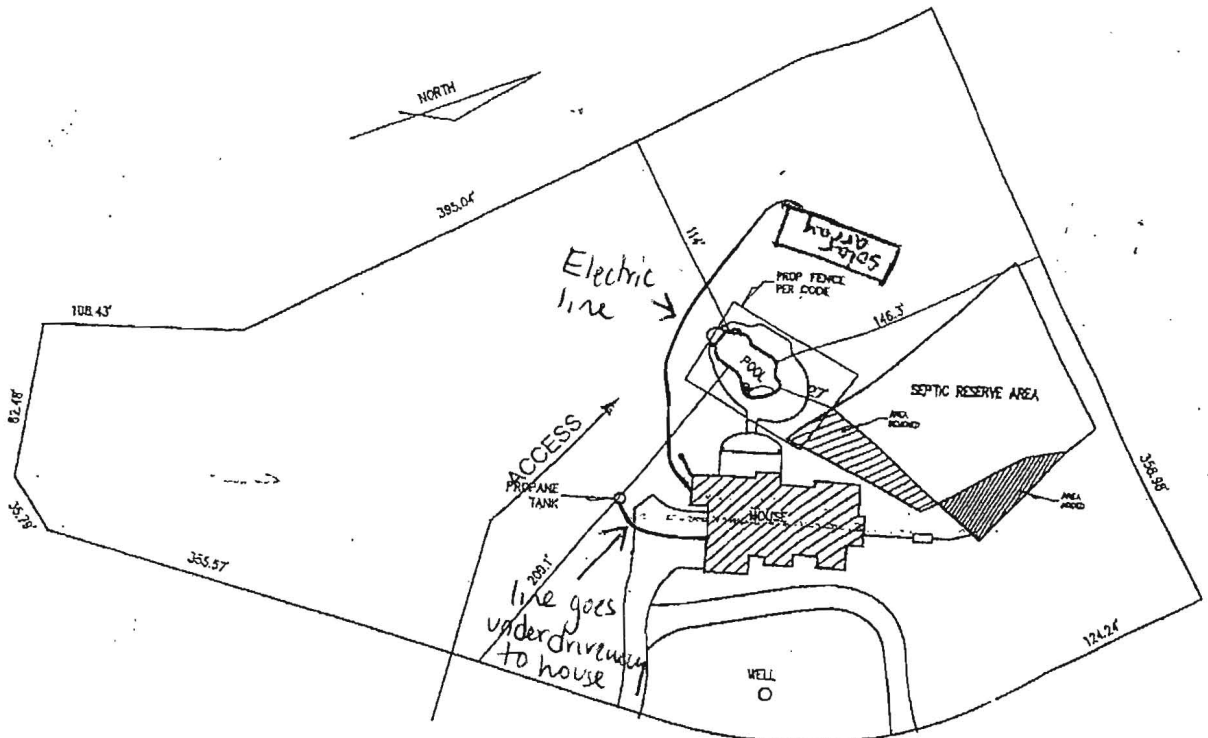
FINAL  
CONSTRUCTION COPY



Depth Detail

\*\*\*NOTE\*\*\*  
Changes from the agreement are by addendum only, signed by both parties and paid in full at time of affixing signature. No changes will occur prior to signing addendum.

NO.	DESCRIPTION	DATE	BY
1	T.O.C. = ?		
2		10-4-11	CONSTRUCTION DRAWING BY CMB
3			
4			



HUNT VALLEY DRIVE

ACCESS AROUND  
PROPANE TANK

Approved for  
Solar panel install  
B15004867  
R/BA 11/23/15

RECEIVED

NOV 23 2015

HOWARD COUNTY HEALTH DEPT.  
COMMUNITY HYGIENE PROGRAM

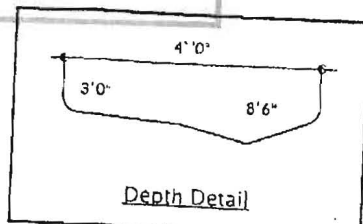
Survey Plan

SCALE: 1"=100'

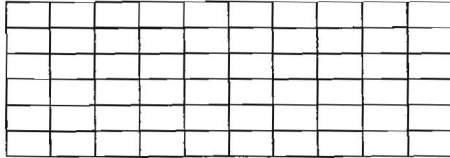
CONST



© 2008 ANTHONY & VAN POOLS CORP.

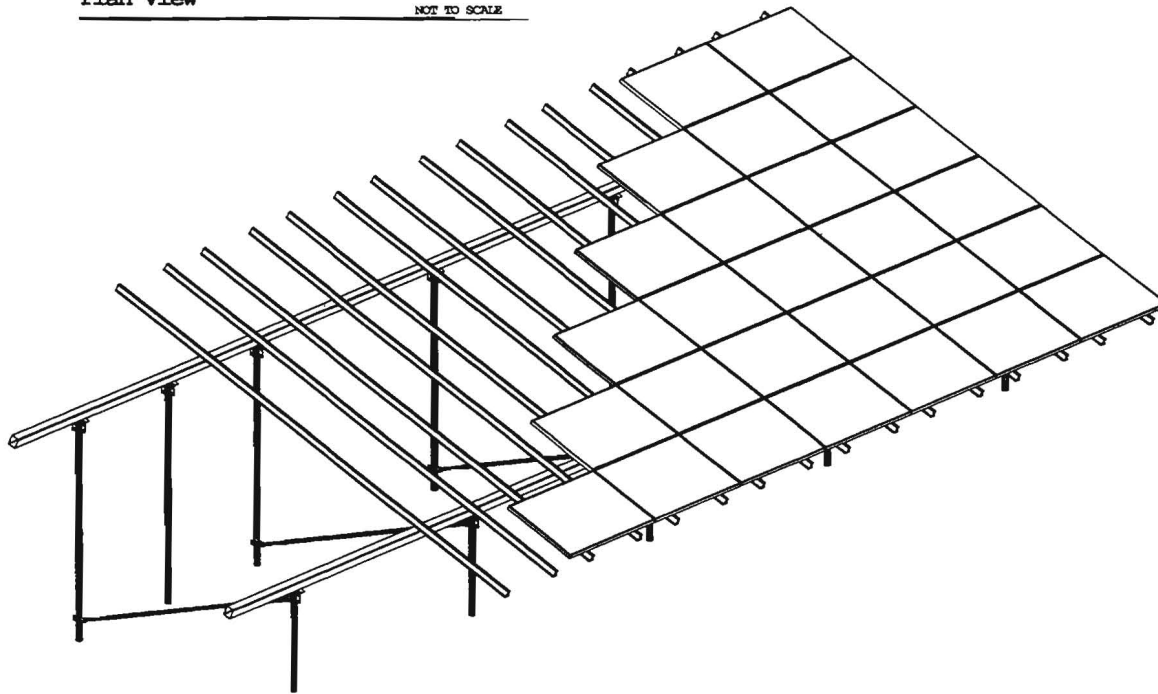


NOTES	NO. OF CHANGES	DATE	BY
Changes from the agreement are by addendum only, signed by both parties and paid in full at time of affixing signature. No changes will occur prior to signing addendum.	⊕	T.O.C. = ?	
	△	---	
	△	---	
	△	---	



Plan View

NOT TO SCALE



**Site Design Conditions**

Basic Wind Speed: 100 MPH (RC1)      Max. Leg Axial Bearing: 3,755 lbs.  
 Ground Snow Load: 30 PSF      Max. Leg Uplift: 2,340 lbs.  
 Exposure Category: C      Max. Lateral Resistance: 1,745 lbs.  
 Site Contour: <3 Degm Slope      Top Rail Max. Loading: 98.4 pf  
 Helical Pile Depth: 66" Min      Lateral Resistance Pile Size: Not Req'd

Net design pressures were calculated in accordance with ASCE 7-10 section 27.4.3, "Open Buildings with Monoslope, Pitched, or Troughed Roofs". All load cases were evaluated in determining the limiting design conditions. The data table above provides the results for the limiting load case. Maximum leg reaction forces represent the highest load condition seen by any leg in the structure. All legs in the structure are designed to meet the maximum load conditions.

**6Lx10C Sub-Array Design Conditions**

Front Leg Height: 40"  
 Rear Leg Height: 97"  
 North-South Leg Spacing: 12 1/2"  
 West Span Leg Spacing: 11'-3"  
 East Span Leg Spacing: 11'-3"  
 Quantity Center Spans: 2  
 Center Span Leg Spacing: 11'-0"  
 East & West Overhang: 4'-3"  
 Overall Beam Length: 53'-0"  
 Front Edge Ground Clearance: 28"  
 Horizontal Rail Material: 5"x4 3/8" HSS  
 Top Rail Material: SF Rails  
 Qty Rails per Panel: 2  
 Top Rail Length: 242"  
 Top Rail Center Span: 134"  
 Top Rail Overhang: 54"

Array Tilt Angle: 25 Degrees  
 Overall Array East-West Dim: 54'-5"  
 Number of Modules/Sub-Array: 60  
 Number of Sub-Arrays: 1  
 Module Columns/Sub-Array: 10  
 Number of Module Rows: 6  
 Module Orientation: Landscape  
 Module Column Spacing: 3"  
 Module Row Spacing: 1"  
 Module Model: OPT-275  
 Module Size: 38.68" x 65.04"  
 Individual Module Rating: 275 watt  
 Sub Array Power Rating: 18.50 kw  
 Total Power Rating: 18.50 kw

1 Additional North Column is to be installed per field direction. The Column is to support equipment mounting needs. It is not required for North beam support.



Sheet 1 of 3

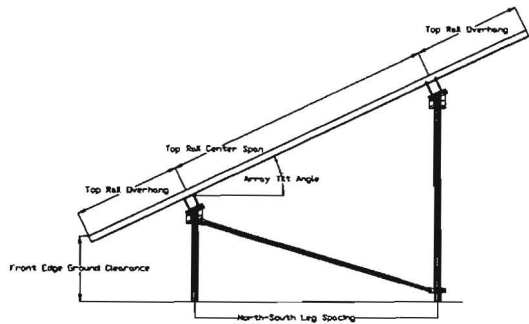
**American Design & Build**

Date	Revision	Drawn By:	Review By:
10/30/2015	Original		MZ

Project:  
**Brown Residence**  
 2834 Hunt Valley Drive  
 Glenwood, MD 21738

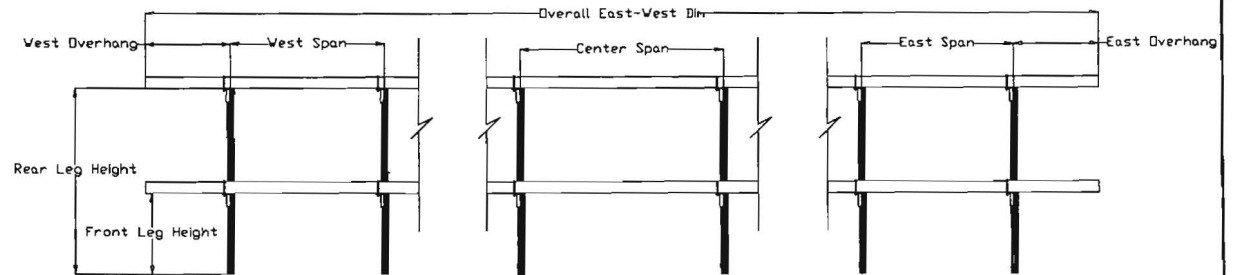
**Solar Foundations USA**

6103 Winterhaven Drive Newark, DE 19702 P: (855) 738-7200 Fax: (866) 644-5665



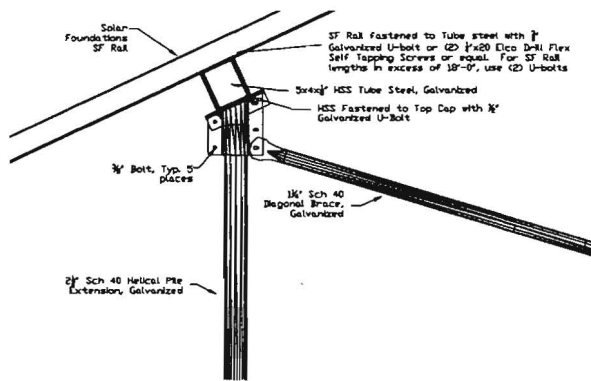
**SIDE ELEVATION DETAIL**

NOT TO SCALE



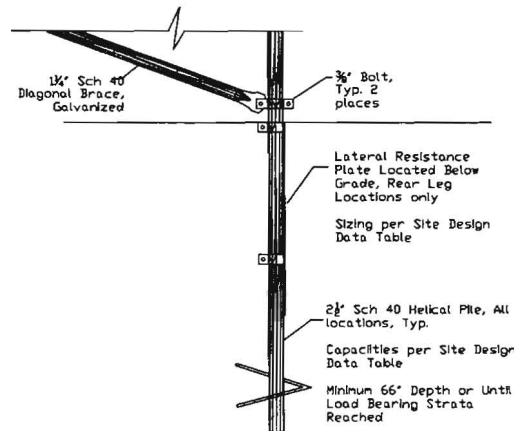
**POST SPACING ELEVATION DETAIL**

NOT TO SCALE



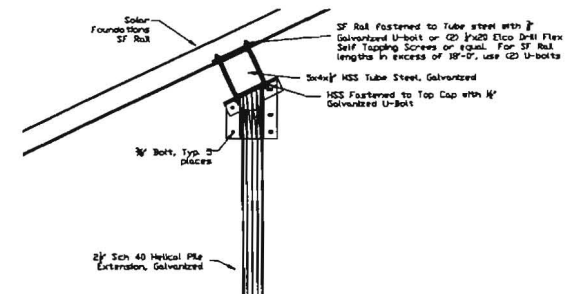
**LOWER CAP DETAIL**

NOT TO SCALE



**HELICAL PILE AND LATERAL RESISTANCE PLATE DETAIL**

NOT TO SCALE



**UPPER CAP DETAIL**

NOT TO SCALE



Sheet 2 of 3

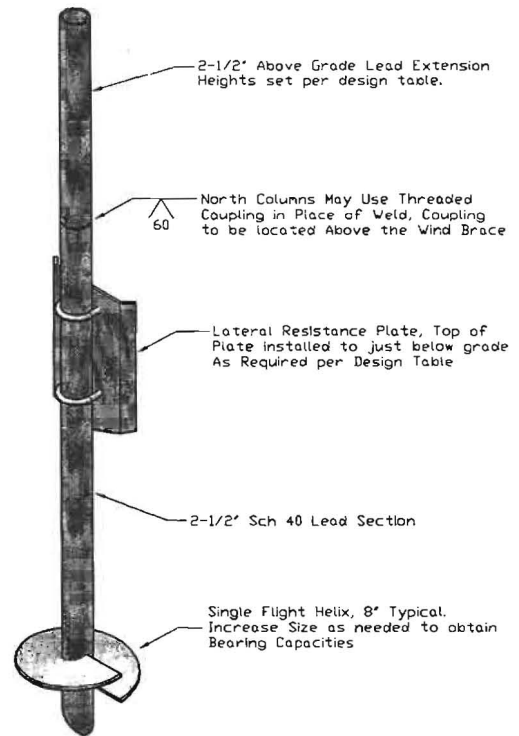
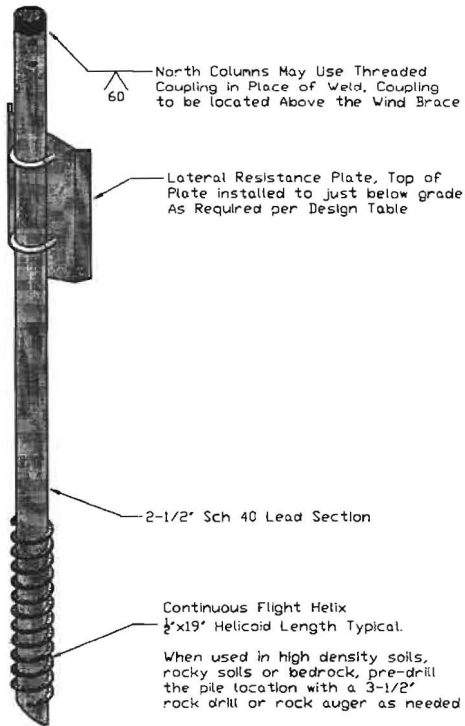
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**Helical Pile Detail**

NOT TO SCALE

**Installation Requirements**

1. The minimum average installation torque required to obtain the required indicated capacities and the minimum installation depth shown on the plans shall be satisfied prior to termination of the installation. The installation torque shall be an average of the installation torques indicated during the last 1 foot of installation.
2. The torsional strength rating of the torque anchor shall not be exceeded during the installation. If the torsional strength limit of the anchor has been reached, but the anchor has not reached the target depth, perform the following:
  - 2.1. If the torsional strength limit is achieved prior to reaching the target depth, the installation may be acceptable if reviewed and approved by the engineer and/or owner.
  - 2.2. The installer may remove the torque anchor and install a new one with smaller diameter helical plate.
  - 2.3. If using a continuous flight pile, pre-drill the pile location with a 3-1/2" rock auger or rock drill as needed.
3. If the target depth is achieved, but the torsional requirement has not been met the installer may do one of the following:
  - 3.1. Install the torque anchor deeper to obtain the required capacity.
  - 3.2. Remove the torque anchor and install a new one with a larger diameter helical plate or one with multiple helical plates.
  - 3.3. Reduce the load capacity on the individual torque anchor by providing additional torque anchors at a reduced spacing.



Sheet 3 of 3

**American Design & Build**

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10/30/2015	Original		MZ

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