



City of Anacortes
 904 6th Street
 P.O.Box 547
 Anacortes, WA 98221-0547
 (360) 293-1901

Permit #: BLD-2012-0418
Issue date: 10/03/2012
Expire date: 04/01/2014

Job Address: 2401 24TH ST
 ANACORTES WA 98221-2495

Permit Type: Single Family Alteration/Repair Permit
Project:

APN: P110584

Remarks: Roof mounted solsr panels.

Owner: DENNY QUIRK

Contractor: WESTERN SOLAR

Address: 2401 24TH ST

Address: 319 E CHAMPION ST

ANACORTES WA 98221-2495

BELLINGHAM WA 98225-4501

Phone:

Phone: (360) 746-0859

License #: WESTES*910J0

General Information:

Building Valuation 9359

Fees:

Building Permit Fee	181.25
Plan Review Fee	117.81
State Building Code Fee	4.50

Total Calculated:	303.56
Deposits/Receipts:	0.00
Total Due:	<u>303.56</u>

THIS PERMIT BECOMES NULL AND VOID IF WORK OR CONSTRUCTION AUTHORIZED IS NOT COMMENCED WITHIN 180 DAYS, OR CONSTRUCTION OR WORK IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AT ANY TIME AFTER WORK IS COMMENCED. I HEREBY CERTIFY THAT I HAVE READ AND EXAMINED THIS APPLICATION AND KNOW THE SAME TO BE TRUE AND CORRECT. ALL PROVISIONS OF LAWS AND ORDINANCES GOVERNING THIS TYPE OF WORK WILL BE COMPLIED WITH WHETHER SPECIFIED HEREIN OR NOT, THE GRANTING OF A PERMIT DOES NOT PRESUME TO GIVE AUTHORITY TO VIOLATE OR CANCEL THE PROVISIONS OF ANY OTHER STATE OR LOCAL LAW REGULATING CONSTRUCTION OR THE PERFORMANCE OF CONSTRUCTION.

1228203-1 0055 10/08/2012 001
 Permit Fees 009516 \$303.56

[Handwritten Signature]

SIGNATURE OF OWNER OR AUTHORIZED AGENT

[Handwritten Initials]

ISSUED BY

Series 100

Structural Report and Calculations

SnapNrack™
PV Mounting Systems

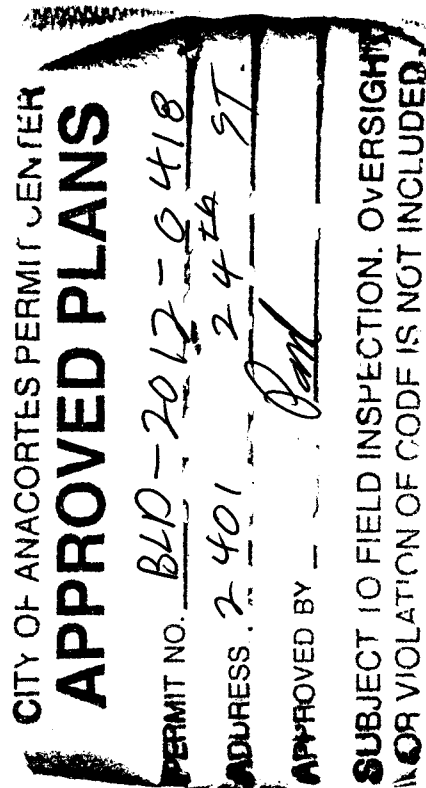
Structural Report and Calculations

Series 100 Roof Mount

For

SnapNrack
775 Fiero Lane, Suite 200
San Luis Obispo, CA 93401

SITE COPY
This drawing is to be kept on
the building site at all times



Prepared By

Norman Scheel Structural Engineer
5022 Sunrise Boulevard
Fair Oaks, CA 95628
(916) 536-9585

April 26, 2012

Norman
Scheel
Structural
Engineer

5022 Sunrise Blvd.
Fair Oaks, CA 95628
(916) 536-9585
(916) 536-0260 (fax)

1989-2012
23 years of excellence

Norman Scheel, S.E.
LEED AP BD+C
LEED AP Homes
Fellow -SEAOC
Fellow-ASCE
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Steven Cooksey
CAD Supervisor
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Office Manager
E-mail: jackie@nsse.com

Friday, June 01, 2012

Snap rack™

SnapNrack
775 Fiero Lane, Suite 200
San Luis Obispo, CA 93401

Series 100 Roof Mount Summary Letter

To Whom It May Concern,

This letter is to clarify that we have performed calculations for the 100 series roof mount PV system based on the information provided by SnapNrack. Included with this letter is the report and calculations. The calculations were done in accordance with the 2009 IBC, ASCE 7-05, 2005 NDS, and guidelines stated in the Solar America Board for Codes and Standards.


For some of the components the SnapNrack test data was used to determine capacity and section properties of materials. The test data was collected using the procedures outlined in the 2009 IBC Chapter 17.

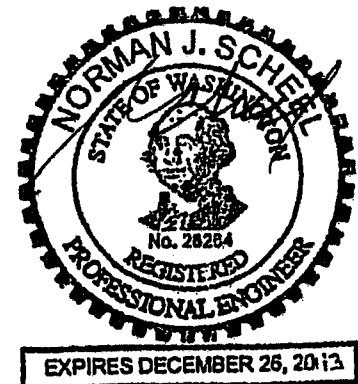
The calculations were performed for the following wind, seismic, and snow load combinations and building parameters.

- ASCE 7-05 wind speeds from 85 mph to 150 for B and C exposure categories
- ASCE 7-05 Seismic Design Category E
- ASCE 7-05 Snow Loads up to 120 psf ground snow
- Buildings with mean roof heights up to 60 foot tilt angles / roof pitches from 0 degrees to 60 degrees.

In our opinion the mounting system as outlined in the SnapNrack Series 100 PV Mounting System Code Compliant Installation Manual 2012 is acceptable and meets the loading requirements as stated above. See report and calculations included with this letter

If there are any further questions, please contact Norm Scheel.


Norman Scheel PE, SE
LEED-AP BD+C, LEED-AP Homes
Fellow SEAOC
Fellow A.S.C.E.





City of Anacortes
 904 6th Street
 P.O.Box 547
 Anacortes, WA 98221-0547
 (360) 293-1901

Permit #: BLD-2012-0344
Issue date: 09/06/2012
Expire date: 03/05/2014

Job Address: 2401 24TH ST
 ANACORTES WA 98221-2495

Permit Type: Mechanical Permit
Project:

APN: P110584

Remarks: New gas water heater.

Owner: BRYAN QUIRK

Contractor: FAST WATER HEATER COMPANY

Address: 2401 24TH ST

Address: 12601 132ND AVE NE

ANACORTES WA 98221-2495

KIRKLAND WA 98034-3306

Phone:

Phone: (425) 636-7054

License #: FASTWWH948BC

General Information:

of Gas Water Heaters 1

Fees:

Mechanical Permit Fees	34.15
Total Calculated:	34.15
Deposits/Receipts:	0.00
Total Due:	34.15

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SIGNATURE OF OWNER OR AUTHORIZED AGENT

ISSUED BY

1225003-1 0065 09/06/2012 001
 Permit Fees 009490 \$34.15



**CITY OF ANACORTES
WASHINGTON
BUILDING DEPARTMENT**

CERTIFICATE OF OCCUPANCY

This is to certify that the (Description of Building or Structure):

Single Family Residence

Located At: 2401 24th Street
STREET & NUMBER

Owner: Homestead NW, Inc.

Constructed By: owner
OWNER OR CONTRACTOR

Bldg. Permit # COM97-0060 Date Of Issue: 3-27-97

Occ. Group: R3 Use Zone: R2

Has Been Inspected And Occupancy Is Hereby Authorized,

This 28th Day Of May 19 97

Robert Osborne
AUTHORIZING OFFICIAL

SEE REVERSE SIDE FOR SPECIAL REQUIREMENTS.

COMBINATION PERMIT

CITY OF ANACORTES
 P.O. BOX 547
 ANACORTES, WA 98221
 (206) 293-1901

PERMIT NO.: COM97-0060
 APPLIED: 03/17/97
 ISSUED: 03/27/97
 EXPIRES: 03/27/98

SITE ADDRESS: 2401 24TH
 ASSESSOR'S PARCEL NO.: 2401 24

PROJECT DESCRIPTION: New single family

OWNER HOMESTEAD NW, INC P.O. BOX 409 LYNDEN WA 98264 354-3366	CONTRACTOR	LENDER
-------------------------------------------------------------------------------	------------	--------

TYPE OF WORK.....:NEW	AREA (sf)-----	VALU...\$: 107000	
TYPE OF USE.....:SF	LOT.....: 7983	REQUIRED SETBACKS----	
CENSUS CATEGORY.....:101	1ST FLR.....: 1340	FRONT.....: 20 ft	
ZONING-----	2ND FLR.....: 512	SIDE(1)...: 5 ft	
:R2 :	BASEMENT.....: 0	SIDE(2)...: 10 ft	
OCCUPANCY GROUP-----	GAR/CARPORT...: 480	REAR.....: 20 ft	
:R3 :? :? :? :	OTHER.....: 0	REQUIRED PARKING--	
TYPE OF CONSTRUCTION----		TOTAL.....: 0	
:5N :? :? :? :	NUMBER OF UNITS.....: 1	ACCESSIBLE..: 0	
OCCUPANT LOAD-----	STORIES.....: 1	COMPACT.....: 0	
: 0: 0: 0: 0:	BUILDING HEIGHT.: 0 ft	IMPRV SURF.: 0 sf	

FEES	Code	Amount----	By-	Date----	Receipt
ESPL \$	-100.00	MD	03/27/97	6733	
PMEC \$	71.00	MD	03/27/97	6733	
PPLM \$	118.00	MD	03/27/97	6733	
STBC \$	4.50	MD	03/27/97	6733	
SEWR \$	3333.00	MD	03/27/97	6733	
IMPT \$	400.00	MD	03/27/97	6733	
INSP \$	50.00	MD	03/27/97	6733	
PLCK \$	292.83	MD	03/27/97	6733	
PRMT \$	450.50	MD	03/27/97	6733	

TOTAL \$ 4619.83

FUEL TYPES-----	BOILERS/COMPRESSORS-	DOMES. INCIN.....:0	
:/GAS/ / /:	0-3 HP.....: 0	COMML. INCIN.....:0	
FURN < 100K BTU: 1	3-15 HP.....: 0	RELOC/REPAIR...: 0	
FURN >=100K BTU: 0	15-30 HP.....: 0	CLOTHES DRYERS.: 1	
FURN - FLOOR...: 0	30-50 HP.....: 0	GAS WTR HEATERS: 1	
UNIT HEATERS...: 0	50+ HP.....: 0	STOVE, APPLI...: 1	
VENT FANS.....: 4	AIR HANDLING UNITS--	FIRE LOG/LITE...: 0	
VENT SYSTEMS...: 0	<= 10000 cfm.: 0	WOODSTOVES.....: 0	
VENT W/O APPLI.: 0	> 10000 cfm.: 0	OTHER UNITS.....: 0	
	EVAP COOLERS...: 0	GAS OUTLETS....: 1	
	HOODS.....: 1		

NOTES

WATER CLOSETS...: 3	WASHING MACHINES: 1	FLOOR DRAINS....: 0	
BATH TUBS.....: 2	ELEC WTR HEATERS: 0	WTR PIPING/TREAT: 1	
SHOWERS.....: 0	LAUNDRY TRAYS...: 0	HOSE BIBBS.....: 2	
DISHWASHERS...: 1	URINALS.....: 0	GREASE TRAPS....: 0	
LAVATORIES.....: 3	WASTE INTERCEPT.: 0	ADD'L FIXTURES...: 0	
KIT SINKS W/DISP: 1	DRINKING FOUNT...: 0		

I hereby acknowledge that I have read this permit and state that the above information is correct, and agree to comply with all ordinances and laws regulating activities covered by this permit.

Issued by _____

Applicant or Owner's Signature _____

24 Hour Notice Required For All Inspections

CITY OF ANACORTES BUILDING PERMIT APPLICATION

SITE ADDRESS: 2401 24th St ASSESSOR NO.: _____
 LOT: #48 BLOCK: 225 DIV: VACATE "B" AVE AND LOT 1 OF 256 ADDITION: _____

OWNER	LENDER	CONTRACTOR
<u>Name:</u> HOMESTEAD NORTHWEST, INC.	<u>Name:</u> 	<u>Name:</u> - SAME AS OWNER -
<u>Mailing Address:</u> P.O. BOX 409	<u>Mailing Address:</u> 	<u>Mailing Address:</u>
<u>City: State: Zip:</u> LYNDEN WA 98264	<u>City: State: Zip:</u> 	<u>City: State: Zip:</u>
<u>Phone No.:</u> (360) 354-3366	<u>Phone No.:</u> 	<u>Phone No.:</u> Contractor License: HOMESNI088CF

Contact Person: DOUG ELLIS Phone No.: 961-8355

OCCUPANT USE					
<i>(Check One)</i>					
Single Family: <input checked="" type="checkbox"/>	Multi-Family: _____	Apartment: _____	Condominium: _____	Senior Housing: _____	
Retail: _____	Office: _____	Restaurant: _____	Manufacturing: _____	Storage: _____	Bank: _____
Assembly: _____	Accessory: _____	Automotive Repair: _____	Other (Specify): _____		

DESCRIBE OF WORK: _____

GENERAL INFORMATION		
Street Setback: <u>20'</u> ft.	2nd Floor: <u>512</u> sf.	<u>(Circle Y or N)</u> Shoreline/Wetlands Y (N) Water on/Adj. to Property Y (N) Soils Report Y (N) Sensitive Area Y (N) Latecomers Agreement Y (N) Fire Hydrant (250 FT) (Y) N Variance Y (N) Covenant Y (N)
1st Side Setback: <u>5'</u> ft.	3rd Floor: <u>0</u> sf.	
2nd Side Setback: <u>37'</u> ft.	Basement: <u>0</u> sf.	
Rear Setback: <u>9'2"</u> ft.	Occ. Group: <u>B-N</u>	
Use Zone: <u>R-3</u>	Carport Area: <u>0</u> sf.	
Type of Construction: <u>B-N</u>	Garage Area: <u>480</u> sf.	
Lot Area: <u>7983</u> sf.	No. of Stories: <u>2</u> sf.	
No. of Dwellings: <u>1</u>	Building Height: <u>24'</u> sf.	
Lot Coverage: <u>28% 1830</u>	Deck Area: <u>170</u> sf.	
1st Floor: <u>1340</u> sf.		

Project Valuation (Labor and Material Cost): 22,000 8,000 Garage
27,000

THIS APPLICATION IS RECEIVED BY THE BUILDING OFFICIAL UNDER THE PROVISIONS OF THE UNIFORM BUILDING CODE, AND SHALL EXPIRE BY LIMITATION AND BECOME NULL AND VOID IF PERMIT IS NOT OBTAINED WITHIN 180 DAYS OF THIS APPLICATION. BY AFFIXING MY SIGNATURE I HEREBY CERTIFY THAT I AM THE LEGAL OWNER OF THE PROPERTY FOR WHICH THIS APPLICATION IS ISSUED OR AM AN AUTHORIZED AGENT OF THE OWNER. ALL PROVISIONS OF LAWS AND ORDINANCES GOVERNING THIS TYPE OF WORK WILL COMPLY WITH WHETHER SPECIFIED HEREIN OR NOT, INCLUDING CALLS FOR INSPECTIONS.

SIGNATURE: _____ DATE: _____

RECEIVED
FEB 19 1997
 BUILDING DEPT.

97-047

CITY OF ANACORTES PLUMBING & MECHANICAL PERMIT APPLICATION

SITE ADDRESS: 2401 24th St ASSESSOR'S NO.: _____

LOT: #48 BLOCK: 225 ADDITION: _____
Vacated portion of B ave by lot 10

OWNER	CONTRACTOR
Name: <u>HOMESTEAD NORTHWEST, INC.</u>	Name: <u>- SAME AS OWNER -</u>
Mailing Address: <u>P.O. BOX 409</u>	Mailing Address: _____
City: <u>LYNDEN</u> State: <u>WA</u> Zip: <u>98264</u>	City: _____ State: _____ Zip: _____
Phone No.: <u>(360)354-3366</u>	Phone No.: _____
	Contractors License No.: <u>HOMESNI088CF</u>

Plumbing			Mechanical		
NO:	Type of Fixture		NO:	Type of Equipment	
<u>3</u>	Water Closet 1.5 GPF		<u>0</u>	Air Cond. Unit	HP
<u>2</u>	Bathtub		<u>0</u>	Refrigeration Unit	HP
<u>0</u>	Shower 2.5 GPM		<u>0</u>	Boiler	BTU/HP
<u>B</u>	Dishwasher 2.5 GPM		<u>1</u>	Forced Air System	BTU
<u>3</u>	Lavatory 2.5 GPM		<u>0</u>	Floor Furnace	
<u>1</u>	Kitchen Sink 2.5 GPM		<u>0</u>	Wall Heater	
<u>1</u>	Clothes Washer		<u>1</u>	Clothes Dryer	
<u>0</u>	Urinal 1.0 GPM		<u>4</u>	Ventilation Fan	
<u>0</u>	Drinking Fountain		<u>1</u>	Range Hood	
<u>0</u>	Floor Sink or Drain		<u>0</u>	Air Handling Unit	CFM
<u>0</u>	Slop Sink		<u>0</u>	Pre-Manf. Stove or Fireplace	
<u>1</u>	Water Piping		<u>0</u>	Gas Fireplace	
<u>1</u>	Hose Bibs		<u>1</u>	Gas Water Heater	
<u>0</u>	Back Flow Prevention Device		<u>1</u>	Gas Piping	
<u>0</u>	Other (Describe)		<u>0</u>	Other (Describe)	
			GAS: ELEC: OTHER:		

THIS APPLICATION IS RECEIVED BY THE BUILDING DEPARTMENT UNDER THE PROVISIONS OF THE UNIFORM PLUMBING AND MECHANICAL CODES AND SHALL EXPIRE BY LIMITATION AND BECOME NULL AND VOID IF PERMIT IS NOT OBTAINED WITHIN 180 DAYS OF THIS APPLICATION. BY AFFIXING MY SIGNATURE I HEREBY CERTIFY THAT I AM THE LEGAL OWNER OF THE PROPERTY FOR WHICH THIS APPLICATION IS ISSUED OR AN AUTHORIZED AGENT OF THE OWNER. ALL PROVISIONS OF LAWS AND ORDINANCE GOVERNING THE TYPE OF WORK WILL BE COMPLETED WITH, WHETHER SPECIFIED HEREIN OR NOT, INCLUDING CALLS FOR INSPECTION.

SIGNATURE: _____ DATE: _____

RECEIVED
FEB 19 1997
BUILDING DEPT.

D. L. Sorenson Construction, Inc.

P.O. Box 388 • Everson, WA 98247 • (206) 966-2628

Employee Name 2401 24th ST

Loads hauled _____

Date 4-1-97

What material _____

MY HOURS	EQUIP. HOURS	JOB ADDRESS AND DETAILS
		<p>45°</p> <p>22°</p> <p>10°</p>
		<p>23'</p> <p>45°</p> <p>sewer stub</p>
		<p>5'</p> <p>PROP CORNER</p> <p>city street</p> <p>24th ST</p>
		<p>TOTAL HOURS FOR DAY</p>



CYPRESS RIDGE

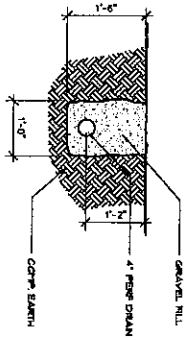
SITE PLAN

SCALE 1"=10'-0"

BLOCKS 126, 211, 228, 233, 234, 235, 256, 261, 4 LOTS 1 THROUGH 235, 11 OF THE CITY OF ANACOSTIA, ACCORDING TO THE PLAN OF THE CITY OF ANACOSTIA, PAGES 4 THROUGH 7, RECORDS OF SEALD COUNTY, WASHINGTON

BLOCK 225 ORIGINAL ANACOSTIA ADD.

VACATED 75' AVENUE ABUTTING LOT 10 OF BLOCK 225, AND LOT 1 OF BLOCK 256.

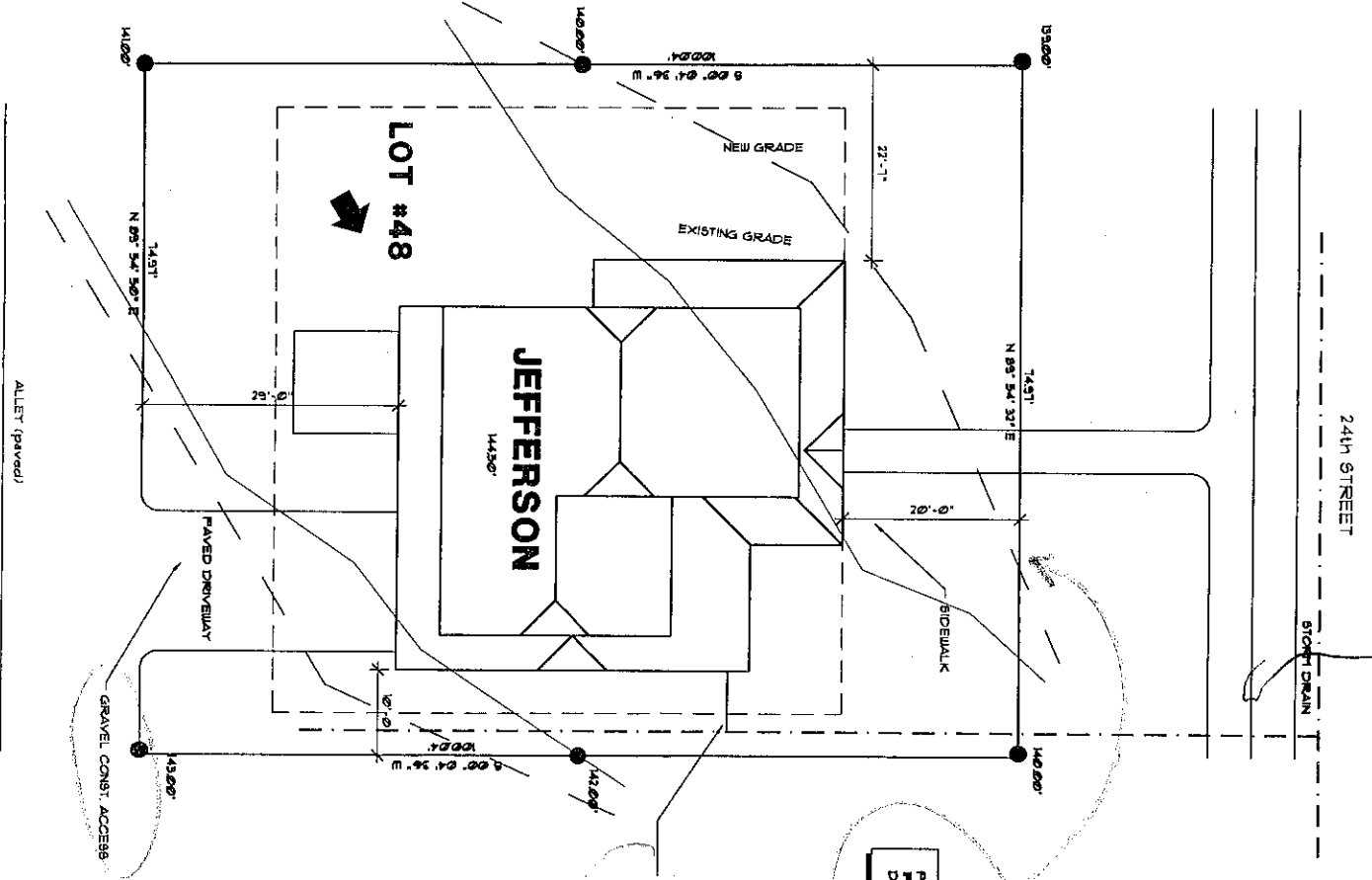


2 TYPICAL DRAIN SECTION
3/4" x 1"

RECEIVED

FEB 05 1997

ENGINEERING



RECEIVED
JAN 22 1997
BUILDING DEPT.

PROVIDE FILTER FENCE
IF REQUIRED (WEATHER
DEPENDENT)

ROOF / FIG. LINE
TO STORM DRAIN

DRAWING 1 OF 1	SHEET	CHECKED	SCALE 1"=10'-0"	DATE DATE	DRAWN DUSTIN L.	REVISIONS	BY	DISCUSSION	LOT - 48	DRAWING

CITY OF ANACORTES BUILDING DEPARTMENT

RESIDENTIAL CHECKLIST

(This form is to be completed prior to issuing the building permit)

Site Address: 2401 24th Date: 3-14-97
 Owner: Homestead
 Assessors No. _____ Lot 48 Block _____ Addition Cypress ridge

OK	NA		OK	NA	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Fire Department Access	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Fire Hydrant Located within 250 feet
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Fire Flow Required	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Covenant Not to Oppose Future LID
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Water Extension	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sewer Extension
<input type="checkbox"/>	<input checked="" type="checkbox"/>	General Road Improvements	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Shoreline or Wetlands
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Drainage Plan Approved	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Site Plan
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Variance Required	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Covenant Approval
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Plat Facts and Findings Compliance	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Regulated Slopes
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Fill on Site	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Survey in File

Further Comments

Approved plat
 Lot sq ft. 7983 sq ft
 coverage . 1820 sq ft ↓ 23%
 Allowed 2194 sq ft

Plans Examiner: *Dm* Date: 3-14-97
 (Signature)



COMPLETE ENGINEERING GEOLOGY □ MATERIALS TESTING & INSPECTION SERVICES

741 MARINE DRIVE - BELLINGHAM, WA 98225 □ (360)733-7318 □ FAX (360) 733-7418

FIELD DENSITY/MOISTURE TEST REPORT ♦ SOILS
ASTM D2922

PROJECT: Cypress Ridge
ADDRESS: Anacortes, WA
CLIENT: Homestead Northwest
CONTRACTOR: Client

JOB #: T6090A
REPORT #: S16
TEST DATE: 3-18-97
PAGE #: 1 of 1
INSPECTOR: JM

2401 24th

COMPACTION OF : Lot 27 and lot 48 building pads.

Field Data:

2319 24th

TEST #	LOCATION	DEPTH/ELEV. (ft.)	FIELD MOISTURE (%)	IN-PLACE DENSITY (pcf)	LAB SAMPLE #	COMPACTION %	
						ATTAINED	REQUIRED
1	Lot 27 Center of Garage	SG	7.9	129.8	735	93	95
2	Lot 27 West End Center	SG	7.2	127.3	735	91	95
3	Lot 27 Center of Living Area	SG	7.1	125.8	735	90	95
4	Lot 27 Northeast Corner	SG	6.8	129.6	735	93	95
5	Lot 48 Center of Garage	SG	8.2	125.6	735	97	95
6	Lot 48 West End Center	SG	6.4	128.1	735	92	95
7	Lot 48 Center of Living Area	SG	6.9	126.7	735	91	95

Lab Moisture-Density Data:

Lab Sample #	Soil Type	Source	Max. Dry Density (pcf)	Optimum Moisture (%)	Retained on #4 (%)	M-D Test Method
735	Gravelly Sand	Associated Pit	140.0	5.0	58	ASTM D1557C

Comments: A sample was taken to determine moisture density analysis.

Copies: Homestead Northwest
City of Anacortes

Submitted By Doug Bender FOR
Grant Richardson
Materials Testing Manager



COMPLETE ENGINEERING GEOLOGY □ MATERIALS TESTING & INSPECTION SERVICES

741 MARINE DRIVE - BELLINGHAM, WA 98225 □ (360)733-7318 □ Fax (360) 733-7418

FIELD DENSITY/MOISTURE TEST REPORT ♦ SOILS
ASTM D2922

PROJECT: Cypress Ridge
ADDRESS: Anacortes, WA
CLIENT: Homestead Northwest
CONTRACTOR: Client

JOB #: T6090A
REPORT #: S17
TEST DATE: 3-21-97
PAGE #: 1 of 1
INSPECTOR: DW

COMPACTION OF : Lot 27 and lot 48 building pads.

Field Data:

TEST #	LOCATION	DEPTH/ELEV (ft.)	FIELD MOISTURE (%)	IN-PLACE DENSITY (pcf)	LAB SAMPLE #	COMPACTION %	
						ATTAINED	REQUIRED
1	Lot #48 Retest of North Footing	GR	5.5	132.5	647	95	95
2	Lot #48 Retest of West Footing	GR	5.9	133.0	647	95	95
3	Lot #48 Retest of East Footing	GR	5.6	133.1	647	95	95
4	Lot #48 Retest of South Footing	GR	6.6	132.4	647	95	95
5	Lot #27 Retest of North Footing	GR	5.6	132.8	647	95	95
6	Lot #27 Retest of West Footing	GR	6.1	134.1	647	96	95
7	Lot #27 Retest of East Footing	GR	5.0	133.4	647	95	95
8	Lot #27 Retest of South Footing	GR	5.2	133.7	647	96	95

Lab Moisture-Density Data:

Lab Sample #	Soil Type	Source	Max. Dry Density (pcf)	Optimum Moisture (%)	Retained on #4 (%)	M-D Test Method
647	Sandy Gravel	Lakeside Pit	140.0	6.0	57	ASTM D1557C

Comments: *test's results today were at or above 95% compaction.*

Copies: Homestead Northwest
City of Anacortes

Submitted By Doug Bender For
Grant Richardson
Materials Testing Manager



COMPLETE ENGINEERING GEOLOGY □ MATERIALS TESTING & INSPECTION SERVICES

741 MARINE DRIVE - BELLINGHAM, WA 98225 □ (360)733-7318 □ FAX (360) 733-7418

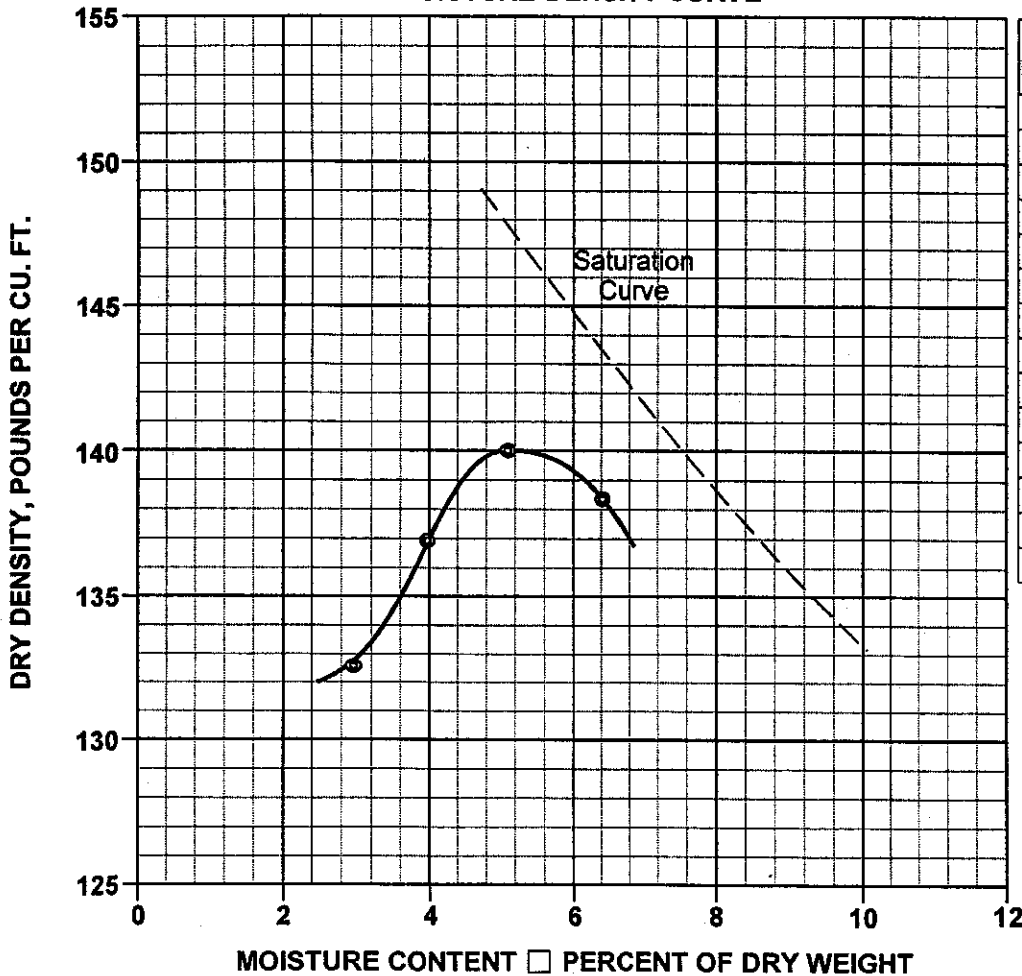
**TEST REPORT
MOISTURE-DENSITY RELATIONS □ SOILS**

PROJECT: Cypress Ridge
 ADDRESS: Anacortes, WA
 CLIENT: Homestead Northwest
 CONTRACTOR: Client
 SAMPLE SOURCE: Associated Sand & Gravel Anacortes
 SAMPLE LOCATION: Site - Lot #27 & #48

JOB NO: T6090A
 REPORT NO: S18
 TEST DATE: 3-18-97
 PAGE NO: 1 of 1
 SAMPLE DATE: 3-17-97
 SAMPLED BY: Client

LAB SAMPLE NO.	SOIL TYPE	USCS SYMBOL	PLUS 3/4" %	PLUS #4 %	TEST METHOD	MAXIMUM DRY DENSITY	OPTIMUM MOISTURE
735	Sandy Gravel	GW	58	7	ASTM D1557C	140.0 pcf	5.0%

MOISTURE-DENSITY CURVE



SIEVE ANALYSIS

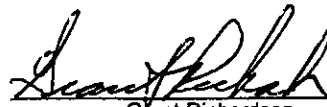
SIEVE SIZE	PASSING %	SPEC. *
2"	100	
1-1/4"	100	
3/4"	93	
5/8"	88	
3/8"	71	
#4	42	

Dry Sieve: ASTM C136
 Wet Sieve: ASTM C117

Specification:

Comments:

Copies: Homestead Northwest

Submitted By: 
 Grant Richardson
 Materials Testing Manager

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 The above test results relate only to the sample (or location) tested.