City of Carlsbad

1635 Faraday Av Carlsbad, CA 92008

03-30-2010

Residential Permit

Permit No: CB100002

Building Inspection Request Line (760) 602-2725

Job Address:	2677 JEFFERSON ST CBAD				
Permit Type:	RESDNTL	Sub Type:	2DU	Status:	ISSUED
Parcel No:	1551702100	Lot #:	0	Applied:	01/04/2010
Valuation:	$117,944.00	Construction Type:	5B	Entered By:	KG
Occupancy Group:		Reference #:		Plan Approved:	03/30/2010
# Dwelling Units:	1	Structure Type:	SFD	Issued:	03/30/2010
Bedrooms:	0	Bathrooms:	0	Inspect Area:	
Project Title:	SECHREST RES-NEW 770 SFGARAGE W/640 SF 2ND DWELLING UNIT ABOVE, 78 SF DECK, ADD 187 SF TO EXIST RESIDENCE			Orig PC#: Plan Check #	

Applicant:
BOYO EUGENE

42186 THORNTON AVE
HEMETCA 92544
951-927-3646

Owner:
SECHREST DENNIS R&KAREN H REVOCABLE TRUST 11-18-

1982 TAMARACK LN
HEMET,CA 92545

Building Permit	$711.45	Meter Size	
Add'l Building Permit Fee	$0.00	Add'l Recl. Water Con. Fee	$0.00
Plan Check	$462.44	Meter Fee	$0.00
Add'l Plan Check Fee	$0.00	SDCWA Fee	$0.00
Plan Check Discount	$0.00	CFD Payoff Fee	$0.00
Strong Motion Fee	$11.79	PFF (3105540)	$1,187.68
Park in Lieu Fee	$0.00	PFF (4305540)	$1,096.32
Park Fee	$0.00	License Tax (3104193)	$0.00
LFM Fee	$0.00	License Tax (4304193)	$0.00
Bridge Fee	$0.00	Traffic Impact Fee (3105541)	$1,590.00
Other Bridge Fee	$0.00	Traffic Impact Fee (4305541)	$0.00
BTD #2 Fee	$0.00	Sidewalk Fee	$0.00
BTD #3 Fee	$0.00	PLUMBING TOTAL	$63.00
Renewal Fee	$0.00	ELECTRICAL TOTAL	$35.00
Add'l Renewal Fee	$0.00	MECHANICAL TOTAL	$37.00
Other Building Fee	$0.00	Housing Impact Fee	$0.00
HMP Fee	$0.00	Housing-InLieu Fee	$0.00
Pot. Water Con. Fee	$0.00	Housing Credit Fee	$0.00
Meter Size		Master Drainage Fee	$1,781.60
Add'l Pot. Water Con. Fee	$0.00	Sewer Fee	$1,096.00
Recl. Water Con. Fee	$0.00	Additional Fees	$0.00
Green Bldg Stands (SB1473) Fee	$4.00		
		TOTAL PERMIT FEES	$8,076.28

Total Fees: $8,076.28 Total Payments To Date: $8,076.28 **Balance Due:** **$0.00**

Inspector: _____ FINAL APPROVAL

Date: 3-8-11 Clearance: _____

NOTICE: Please take NOTICE that approval of your project includes the "Imposition" of fees, dedications, reservations, or other exactions hereafter collectively referred to as "fees/exactions." You have 90 days from the date this permit was issued to protest imposition of these fees/exactions. If you protest them, you must follow the protest procedures set forth in Government Code Section 66020(a), and file the protest and any other required information with the City Manager for processing in accordance with Carlsbad Municipal Code Section 3.32.030. Failure to timely follow that procedure will bar any subsequent legal action to attack, review, set aside, void, or annul their imposition.

You are hereby FURTHER NOTIFIED that your right to protest the specified fees/exactions DOES NOT APPLY to water and sewer connection fees and capacity changes, nor planning, zoning, grading or other similar application processing or service fees in connection with this project. NOR DOES IT APPLY to any fees/exactions of which you have previously been given a NOTICE similar to this, or as to which the statute of limitations has previously otherwise expired.

City of Carlsbad

1635 Faraday Av Carlsbad, CA 92008

Storm Water Pollution Prevention Plan (SWPPP) Permit

03-04-2011 Permit No:SW100291

Job Address:	2677 JEFFERSON ST CBAD				
Permit Type:	SWPPP			Status:	ISSUED
Parcel No:	1551702100	Lot #:	0	Applied:	08/24/2010
Reference #:				Entered By:	JMA
CB#:				Issued:	08/25/2010
				Inspect Area:	PD
Project Title:	SECHREST: NEW 770 SF GARAGE W/ 640 ST 2DU ABOVE/ 187 SF ADDITION TO EXIST. RES			Tier:	1
	Priority: L				

Applicant:
SECHREST DENNIS R&KAREN H REVOCABLE TRUST 11-18-

1982 TAMARACK LN
HEMET CA 92545

Emergency Contact:
ED

760-434-2233

Owner:
SECHREST DENNIS R&KAREN H REVOCABLE TRUST 11-18-
1982 TAMARACK LN
HEMET CA 92545

SWPPP Plan Check	$0.00
SWPPP Inspections	$0.00
Additional Fees	$0.00
TOTAL PERMIT FEES	$0.00

Total Fees: $0.00 Total Payments To Date: $0.00 **Balance Due:** **$0.00**

CITY OF CARLSBAD CALIFORNIA INCORPORATED 1952

FINAL APPROVAL

DATE 3-8-11 CLEARANCE

SIGNATURE

CITY OF
CARLSBAD

Building Permit Application

1635 Faraday Ave., Carlsbad, CA 92008
760-602-2717 / 2718 / 2719
Fax: 760-602-8558
www.carlsbadca.gov

Plan Check No. CB10 0002
Est. Value 117,944
Plan Ck. Deposit 441.15
Date 1-4-10 KG

JOB ADDRESS					SUITE#/SPACE#/UNIT#		APN	
2677 JEFFERSON ST.							155-170-21	
CT/PROJECT #	LOT #	PHASE #	# OF UNITS	# BEDROOMS	# BATHROOMS	TENANT BUSINESS NAME	CONSTR. TYPE	OCC. GROUP
			1				V-N / V-B	R-3 / U-1

DESCRIPTION OF WORK: *Include Square Feet of Affected Area(s)*

NEW 3 CAR GAR. 770 SF

NEW LIVING UNIT ABOVE GAR 640 SF

NEW ADDITION to EXIST. RES. 187 SF

EXISTING USE	PROPOSED USE	GARAGE (SF)	PATIOS (SF)	DECKS (SF)	FIREPLACE	AIR CONDITIONING	FIRE SPRINKLERS
		770		78	YES ☐ #___ NO ☒	YES ☐ NO ☒	YES ☐ NO ☒

CONTACT NAME *(If Different Fom Applicant)*			APPLICANT NAME L. EUGENE BOYD / DESIGNER		
ADDRESS			ADDRESS 42186 THORNTON AVE.		
CITY	STATE	ZIP	CITY HEMET	STATE CA.	ZIP 92544
PHONE	FAX		PHONE 951.927.3646	FAX	
EMAIL			EMAIL		

PROPERTY OWNER NAME DENNIS SECHREST			CONTRACTOR BUS. NAME		
ADDRESS 2677 JEFFERSON ST.			ADDRESS		
CITY CARLSBAD	STATE CA.	ZIP 92008	CITY	STATE	ZIP
PHONE	FAX		PHONE	FAX	
EMAIL			EMAIL		
ARCH/DESIGNER NAME & ADDRESS L. EUGENE BOYD / DESIGNER	STATE LIC. #		STATE LIC.#	CLASS	CITY BUS. LIC.#

(Sec. 7031.5 Business and Professions Code: Any City or County which requires a permit to construct, alter, improve, demolish or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9, commending with Section 7000 of Division 3 of the Business and Professions Code) or that he is exempt therefrom, and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500)).

WORKERS' COMPENSATION

Workers' Compensation Declaration: *I hereby affirm under penalty of perjury one of the following declarations:*

☐ **I have and will maintain a certificate of consent to self-insure** for workers' compensation as provided by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ **I have and will maintain workers' compensation,** as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are: Insurance Co._____ Policy No. _____ Expiration Date _____

This section need not be completed if the permit is for one hundred dollars ($100) or less.

☐ **Certificate of Exemption:** I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws of California. **WARNING: Failure to secure workers' compensation coverage is unlawful, and shall subject an employer to criminal penalties and civil fines up to one hundred thousand dollars (&100,000), in addition to the cost of compensation, damages as provided for in Section 3706 of the Labor code, interest and attorney's fees.**

CONTRACTOR SIGNATURE ☐ AGENT DATE

OWNER-BUILDER DECLARATION

I hereby affirm that I am exempt from Contractor's License Law for the following reason:

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work and the structure is not intended or offered for sale (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).

☒ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and contracts for such projects with contractor(s) licensed pursuant to the Contractor's License Law).

☐ I am exempt under Section _____ Business and Professions Code for this reason:

1. I personally plan to provide the major labor and materials for construction of the proposed property improvement. ☐ Yes ☐ No
2. I (have / have not) signed an application for a building permit for the proposed work.
3. I have contracted with the following person (firm) to provide the proposed construction (include name address / phone / contractors' license number):
4. I plan to provide portions of the work, but I have hired the following person to coordinate, supervise and provide the major work (include name / address / phone / contractors' license number):
5. I will provide some of the work, but I have contracted (hired) the following persons to provide the work indicated (include name / address / phone / type of work):

PROPERTY OWNER SIGNATURE ☐ AGENT DATE

L. EUGENE BOYD 1.4.2010

COMPLETE THIS SECTION FOR NON-RESIDENTIAL BUILDING PERMITS ONLY

Is the applicant or future building occupant required to submit a business plan, acutely hazardous materials registration form or risk management and prevention program under Sections 25505, 25533 or 25534 of the Presley-Tanner Hazardous Substance Account Act? ☐ Yes ☐ No

Is the applicant or future building occupant required to obtain a permit from the air pollution control district or air quality management district? ☐ Yes ☐ No

Is the facility to be constructed within 1,000 feet of the outer boundary of a school site? ☐ Yes ☐ No

IF ANY OF THE ANSWERS ARE YES, A FINAL CERTIFICATE OF OCCUPANCY MAY NOT BE ISSUED UNLESS THE APPLICANT HAS MET OR IS MEETING THE REQUIREMENTS OF THE OFFICE OF EMERGENCY SERVICES AND THE AIR POLLUTION CONTROL DISTRICT.

CONSTRUCTION LENDING AGENCY

I hereby affirm that there is a construction lending agency for the performance of the work this permit is issued (Sec. 3097 (i) Civil Code).

Lender's Name | Lender's Address

APPLICANT CERTIFICATION

I certify that I have read the application and state that the above information is correct and that the information on the plans is accurate. I agree to comply with all City ordinances and State laws relating to building construction.

I hereby authorize representative of the City of Carlsbad to enter upon the above mentioned property for inspection purposes. I ALSO AGREE TO SAVE, INDEMNIFY AND KEEP HARMLESS THE CITY OF CARLSBAD AGAINST ALL LIABILITIES, JUDGMENTS, COSTS AND EXPENSES WHICH MAY IN ANY WAY ACCRUE AGAINST SAID CITY IN CONSEQUENCE OF THE GRANTING OF THIS PERMIT.

OSHA: An OSHA permit is required for excavations over 5'0" deep and demolition or construction of structures over 3 stories in height.

EXPIRATION: Every permit issued by the Building Official under the provisions of this Code shall expire by limitation and become null and void if the building or work authorized by such permit is not commenced within 180 days from the date of such permit or if the building or work authorized by such permit is suspended or abandoned at any time after the work is commenced for a period of 180 days (Section 106.4.4 Uniform Building Code).

☒ APPLICANT'S SIGNATURE L. Eugene Boyce DATE 1.4.2010

City of Carlsbad SWPPP Inspection Request

For: 03/02/2011

Permit# **SW100291** Inspector Assignment: **PD**

Title: **SECHREST: NEW 770 SF GARAGE W/**

Description: **640 ST 2DU ABOVE/ 187 SF ADDITION TO EXIST. RES**

Type: **SWPPP** CB Nr:

Phone: **0000000000**

Job Address: **2677 JEFFERSON ST**

Suite: Lot: **0**

Location:

Inspector:

Emer. Contact: **ED**

Phone: **760-434-2233**

Owner: **SECHREST DENNIS R&KAREN H REVOCABLE TRUST 11-18-**

Remarks:

Total Time: _____

Requested By: **NA**

Entered By: **CHRISTINE**

CD	Description	Act	Comments
602	**Routine Inspection**	AP	~~FEES~~ FINAL

Comments/Notices/Holds

Associated PCRs/CVs/CBs **Original PC#**

PCR10062 ISSUED SECHREST RES- REVISED SITE ; PLAN FOR DRAINAGE & PAVING AREAS AROUND

CB100002 ISSUED SECHREST RES-NEW 770 SFGARAGE; W/640 SF 2ND DWELLING UNIT ABOVE, 78 SF

Inspection History

Date	Description	Act	Insp	Comments
01/31/2011	602 Routine Inspection	AP	PD	RESET FOR 1 MONTH
01/10/2011	602 Routine Inspection	AP	PD	
12/13/2010	602 Routine Inspection	AP	PD	RESET FOR 1 MONTH 1/17/2011
12/09/2010	602 Routine Inspection	AP	PD	RESET FOR 1 MONTH 1/10/11
11/10/2010	602 Routine Inspection	AP	PD	RECHECK IN 1 MONTH (12/9/2010)
11/04/2010	602 Routine Inspection	AP	PS	
11/04/2010	602 Routine Inspection	AP	PD	
10/27/2010	602 Routine Inspection	AP	PD	RESCHEDULE FOR 11-9-10
10/26/2010	602 Routine Inspection	AP	PD	RESET FOR 2 WEEKS 11-9-2010
10/07/2010	602 Routine Inspection	AP	PD	RESET FOR 1 MONTH
09/29/2010	602 Routine Inspection	AP	PD	
09/27/2010	602 Routine Inspection	AP	TP	

City of Carlsbad

Final Building Inspection

Route 7

RECEIVED
FEB 14 2011
CITY OF CARLSBAD
ENGINEERING DEPARTMENT
CM&I DIVISION

Dept: Building Engineering Planning CMWD St Lite Fire

Plan Check #:
Permit #: CB100002
Project Name: SECHREST RES-NEW 770 SFGARAGE W/640 SF 2ND DWELLING UNIT ABOVE, 78 SF DECK, A
Address: 2677 JEFFERSON ST
Lot: 0
Contact Person: ED MULLEN **Phone:** 7608400609
Sewer Dist: CA **Water Dist:** CA

Date: 02/14/2011
Permit Type: RESDNTL
Sub Type: 2DU

Inspected By: BRANDON MILES Date Inspected: 2/17/11 Approved: X Disapproved: ____

Inspected By: ____ Date Inspected: ____ Approved: ____ Disapproved: ____

Inspected By: ____ Date Inspected: ____ Approved: ____ Disapproved: ____

Comments:

NO COMMENTS / CONCRETE ACCEPTABLE AT DRIVEWAY

CDP 10-01
RUIZ

City of Carlsbad

Final Building Inspection

Dept: Building Engineering Planning CMWD St Lite Fire

Plan Check #:		**Date:**	02/14/2011
Permit #:	CB100002	**Permit Type:**	RESDNTL
Project Name:	SECHREST RES-NEW 770 SFGARAGE W/640 SF 2ND DWELLING UNIT ABOVE, 78 SF DECK, A	**Sub Type:**	2DU
Address:	2677 JEFFERSON ST	**Lot:**	0
Contact Person:		**Phone:**	
Sewer Dist:	CA	**Water Dist:**	CA

Inspected By: GINA RUIZ Date Inspected: 2-15-11 Approved: X Disapproved: ____

Inspected By: ____ Date Inspected: ____ Approved: ____ Disapproved: ____

Inspected By: ____ Date Inspected: ____ Approved: ____ Disapproved: ____

Comments: ALL PLANNING CONDITIONS HAVE BEEN MET

City of Carlsbad Bldg Inspection Request

For: 09/29/2010

Permit# **CB100002** Inspector Assignment: **PD**

Title: **SECHREST RES-NEW 770 SFGARAGE**

Description: **W/640 SF 2ND DWELLING UNIT ABOVE, 78 SF DECK, ADD 187 SF TO EXIST RESIDENCE**

Type: **RESDNTL** Sub Type: **2DU**

Phone: **7608400609**

Job Address: **2677 JEFFERSON ST**

Suite: Lot: **0**

Location:

Inspector:

APPLICANT **BOYD EUGENE**

Owner: **SECHREST DENNIS R&KAREN H REVOCABLE TRUST 11-18-**

Remarks:

Total Time: _____

Requested By: **ED**

Entered By: **KATHY**

CD	Description	Act	Comments
17	**Interior Lath/Drywall**	AP	
39	**Final Electrical**		TSPB
602			RESET 1-MO. Pete 9/29/10

Comments/Notices/Holds

Associated PCRs/CVs/SWPPPs **Original PC#**

PCR10062	ISSUED	SECHREST RES- REVISED SITE ; PLAN FOR DRAINAGE & PAVING AREAS AROUND
SW100032	ISSUED	SECHREST RESIDENCE; New 3 car garage/SDU above garage
SW100291	ISSUED	SECHREST: NEW 770 SF GARAGE W/; 640 ST 2DU ABOVE/ 187 SF ADDITION TO EXI

Inspection History

Date	Description	Act	Insp	Comments
09/24/2010	14 Frame/Steel/Bolting/Welding	AP	RB	ON PICK UP
09/24/2010	16 Insulation	AP	RB	
09/24/2010	602 Routine Inspection	AP	RB	
09/21/2010	84 Rough Combo	AP	PD	
09/08/2010	13 Shear Panels/HD's	PA	PD	@ GARAGE/2D.U.
08/23/2010	11 Ftg/Foundation/Piers	WC	PD	
08/23/2010	12 Steel/Bond Beam	WC	PD	
08/23/2010	21 Underground/Under Floor	PA	PD	EJECTOR LINE , 1IN WATER LINE
08/23/2010	23 Gas/Test/Repairs	PA	PD	U.G. GAS
08/23/2010	31 Underground/Conduit-Wiring	WC	PD	
08/20/2010	15 Roof/Reroof	CO	PD	EAVES TOO CLOSE
08/05/2010	14 Frame/Steel/Bolting/Welding	PA	PD	SUB FLOOR
08/05/2010	24 Rough/Topout	PA	PD	
08/04/2010	24 Rough/Topout	CA	PD	BY ED
07/29/2010	11 Ftg/Foundation/Piers	AP	TP	

Independent Inspection

Special Inspection & NDT

Isaiah E. Gruhler
(619) 203-7920
5551 Gala Avenue
San Diego, CA 92120

Inspection Report

Project Name: Sechrest Res.
Project Address: 2677 Jefferson
Engineer:
Sub Contractor:
Contractor: South Ridge Builder

Page: 1 of 1 Report#:
Permit #: CB100002
File #:
DSA #:
Other:

INSPECTION	MATERIAL SAMPLING	QTY	MATERIAL DESCRIPTION	INSPECTION CHECKLIST
___ Structural Steel	___ H.S. Bolts	___	___ H.S. Bolts	X Plans/Specs
___ Masonry	___ Prisms	___	___ Conc. PSI	X Clearances
___ Concrete	___ Mortar/Grout	___	___ Grout PSI	X Positions
X Epoxy	___ Conc. Cylinders	___	___ Mortar PSI	X Sizes
___ H.S. Bolting	___ Fireproof	___	X Steel A307	___ Laps
___ Post Tension		___	___ Elect./Wire	___ Consolidation
___ Ultrasonic		___	___ Fireproof	___
___ Fireproof		___	X Epoxy ESR 2508 (EG)	___
___		___	___	___

(1) observed cleaning & installation procedures of epoxied anchors in concrete w/ Simpson SET-XP- ESR 2508

4 - 7/8Ø HDU8's Holdowns installed w/ 10" minimum embedment in concrete

Epoxy Batch# 4/79241002 Exp 5/30/12

CERTIFICATION OF COMPLIANCE: All reported work, unless otherwise noted, complies with approved plans, specifications and applicable sections of the building codes. This report covers the locations of the work inspected and does not constitute opinion or project control.

Inspector: **Isaiah E. Gruhler** Cert: **SD#869 / ICC# 5099268**

Insp. Date: 9/24/10
Time Start: 8:30
Time Stop: 9:30

Signature: 9/24/10 Date:

X Eduardo Madrid
Owner/Representative: Date:

EsGil Corporation

In Partnership with Government for Building Safety

DATE: **FEB. 08, 2010**

JURISDICTION: **CARLSBAD**

PLAN CHECK NO.: **10-0002** SET: **II**

PROJECT ADDRESS: **2677 JEFFERSON STREET**

PROJECT NAME: **SFR ADDITION & REMODEL SECHREST**

☐ APPLICANT
☑ JURIS.
☐ PLAN REVIEWER
☐ FILE

☐ The plans transmitted herewith have been corrected where necessary and substantially comply with the jurisdiction's building codes.

☒ The plans transmitted herewith will substantially comply with the jurisdiction's building codes when minor deficiencies identified below are resolved and checked by building department staff.

☐ The plans transmitted herewith have significant deficiencies identified on the enclosed check list and should be corrected and resubmitted for a complete recheck.

☐ The check list transmitted herewith is for your information. The plans are being held at Esgil Corporation until corrected plans are submitted for recheck.

☐ The applicant's copy of the check list is enclosed for the jurisdiction to forward to the applicant contact person.

☐ The applicant's copy of the check list has been sent to:

☒ Esgil Corporation staff **did not** advise the applicant that the plan check has been completed.

☐ Esgil Corporation staff **did** advise the applicant that the plan check has been completed.

Person contacted: Telephone #:

Date contacted: (by:) Fax #:

Mail Telephone Fax In Person

☐ REMARKS:

By: **ALI SADRE** Enclosures:
EsGil Corporation
☐ GA ☐ EJ ☐ PC 2/4

9320 Chesapeake Drive, Suite 208 ◆ San Diego, California 92123 ◆ (858) 560-1468 ◆ Fax (858) 560-1576

EsGil Corporation

In Partnership with Government for Building Safety

DATE: **JAN. 07, 2010**

JURISDICTION: **CARLSBAD**

PLAN CHECK NO.: **10-0002** SET: **I**

PROJECT ADDRESS: **2677 JEFFERSON STREET**

PROJECT NAME: **SFR ADDITION & REMODEL SECHREST**

- ☐ APPLICANT
- ☐ JURIS.
- ☐ PLAN REVIEWER
- ☐ FILE

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☐ The applicant's copy of the check list is enclosed for the jurisdiction to forward to the applicant contact person.

☒ The applicant's copy of the check list has been sent to:
L. EUGENE BOYO 42186 THORNTON AVENUE, HEMET, CA 92544

☐ Esgil Corporation staff **did not** advise the applicant that the plan check has been completed.

☒ Esgil Corporation staff **did** advise the applicant that the plan check has been completed.

Person contacted: GENE Telephone #: 951-927-3646

Date contacted: 1/7/10 (by: C) Fax #:

Mail ✓ Telephone ✓ Fax In Person

☐ REMARKS:

By: **ALI SADRE**
EsGil Corporation
☐ GA ☐ EJ ☐ PC 1/05

Enclosures:

CARLSBAD 10-0002
JAN. 07, 2010

PLAN REVIEW CORRECTION LIST
SINGLE FAMILY DWELLINGS AND DUPLEXES

PLAN CHECK NO.: **10-0002**	JURISDICTION: **CARLSBAD**
PROJECT ADDRESS: **2677 JEFFERSON STREET**	
FLOOR AREA: New Living Area Add. = 640 (New Unit Above Garage); Addition = 187; New Garage = 770; New Wood Deck = 78	
	STORIES: Two
	HEIGHT: 21'
REMARKS:	
DATE PLANS RECEIVED BY JURISDICTION: 1/04	DATE PLANS RECEIVED BY ESGIL CORPORATION: 1/05
DATE INITIAL PLAN REVIEW COMPLETED: **JAN. 07, 2010**	PLAN REVIEWER: **ALI SADRE**

FOREWORD (PLEASE READ):

This plan review is limited to the technical requirements contained in the International Building Code, Uniform Plumbing Code, Uniform Mechanical Code, National Electrical Code and state laws regulating energy conservation, noise attenuation and access for the disabled. This plan review is based on regulations enforced by the Building Department. You may have other corrections based on laws and ordinance by the Planning Department, Engineering Department, Fire Department or other departments. Clearance from those departments may be required prior to the issuance of a building permit.

Present California law mandates that construction comply with the 2007 edition of the California Building Code (Title 24), which adopts the following model codes: 2006 IBC, 2006 UPC, 2006 UMC and 2005 NEC.

The above regulations apply, regardless of the code editions adopted by ordinance.

The following items listed need clarification, modification or change. All items must be satisfied before the plans will be in conformance with the cited codes and regulations. Per Sec. 105.4 of the 2006 International Building Code, the approval of the plans does not permit the violation of any state, county or city law.

To speed up the recheck process, please note on this list (or a copy) where each correction item has been addressed, i.e., plan sheet number, specification section, etc. Be sure to enclose the marked up list when you submit the revised plans.

CARLSBAD 10-0002
JAN. 07, 2010

• PLANS

1. The following note should be given with *each* correction list:
Please make all corrections, as requested in the correction list. Submit three new complete sets of plans for commercial/industrial projects (two sets of plans for residential projects). For expeditious processing, corrected sets can be submitted in one of two ways:
1. Deliver all corrected sets of plans and calculations/reports directly to the City of Carlsbad Building Department, 1635 Faraday Ave., Carlsbad, CA 92008, (760) 602-2700. The City will route the plans to EsGil Corporation and the Carlsbad Planning, Engineering and Fire Departments.
2. Bring one corrected set of plans and calculations/reports to EsGil Corporation, 9320 Chesapeake Drive, Suite 208, San Diego, CA 92123, (858) 560-1468. Deliver all remaining sets of plans and calculations/reports directly to the City of Carlsbad Building Department for routing to their Planning, Engineering and Fire Departments.

NOTE: Plans that are submitted directly to EsGil Corporation only will not be reviewed by the City Planning, Engineering and Fire Departments until review by EsGil Corporation is complete.

2. All sheets of plans must be signed by the person responsible for their preparation. (California Business and Professions Code).

3. Plans deviating from conventional wood frame construction shall have the structural portions signed and sealed by the California state licensed engineer or architect responsible for their preparation, along with structural calculations.. (California Business and Professions Code). See structural plans.

• GENERAL RESIDENTIAL REQUIREMENTS

4. Show locations of permanently wired smoke alarms with battery backup as follows (Section 907.2.10.1.2):

   a) Inside the bedroom over the garage on Sheet E-1
   b) On the ceiling or wall outside of each separate sleeping area in the immediate vicinity of bedrooms. See unit above garage on Sheet E-1.

   • NOTE: Where more than one smoke alarm is required to be installed within a unit, the smoke alarms shall be interconnected in such a manner that the activation of one alarm will activate all of the alarms in the unit. Section 907.2.10.3.

• EXITS, STAIRWAYS, AND RAILINGS

5. Provide stairway and landing details. Section 1009.

   a) Maximum rise is **7-3/4"** and minimum run is **10"**.
   b) A nosing not less than .75 inch but not more than 1.25 inches shall be provided on stairways with solid risers where the tread depth is less than 11 inches.
   c) Solid risers are required, or risers shall be sufficiently solid to prevent the passage of a 4" sphere. Section 1009.3.3.
   d) Minimum headroom is 6'-8".
   e) Minimum width is 36".

6. Guards (Section 1013):

   a) Shall be detailed showing adequacy of connections to resist the horizontal force prescribed in Section 1607.7. Show railing connections are adequate for prescribed forces. A safety factor of 4 is required for the glass railing if there is no frame.
   b) Shall have a height of **42"** (may be 34" along the sides of stairs). CBC Section 1013.

7. Handrails (CBC Section 1009.10):

   a) Handrails and extensions shall be 34" to 38" above nosing of treads and be continuous.
   b) The handgrip portion of all handrails shall be not less than 1-1/4 inches nor more than 2 inches in cross-sectional dimension. See Section 1012.3 for alternatives.
   c) Ends of handrails shall be returned or shall have rounded terminations or bends.
   d) Handrails projecting from walls shall have at least 1-1/2 inches between the wall and the handrail.

• ROOFING

8. Show the required attic ventilation on the plans. Show "area required" and "area provided." The net free ventilating area shall not be less that 1/150th of the area of the space ventilated. Further, 50% of the opening area must be provided with ventilators in the upper portion (at least 3' above eave or cornice) with the balance of ventilators provided by eave or cornice vents. Show this for the bedroom/bath addition on plans. Section 1203.2.

9. Show location of attic access with a minimum size of 20"x30", unless the maximum vertical headroom height in the attic is less than 30 inches. Access must be provided to each separated attic area. Section 1209.2.

• GARAGE AND CARPORTS

10. The garage shall be separated from the residence and its attic area by not less than ½" gypsum board applied to the garage side (at walls). Garages beneath habitable rooms shall be separated by not less than 5/8" Type X gypsum board. Section 406.1.4.

• STRUCTURAL

11. Specify on structural specifications sheet the soil classification, the soils expansion index and the design bearing capacity of the foundation. Revise the notes on plans accordingly. Otherwise, the city to approve that a soils report is not required for this project. See the next item as well.

12. Specify on the list who at the city approved not having a soils report. Also provide assumed soils bearing and expansion per Ch. 18 on plans. Section A106.1.1.

13. Note on the foundation plan that "Prior to the contractor requesting a Building Department foundation inspection, the soils engineer shall advise the building official in writing that:

   a) The building pad was prepared in accordance with the soils report,
   b) The utility trenches have been properly backfilled and compacted, and
   c) The foundation excavations, the soils expansive characteristics and bearing capacity conform to the soils report."

14. Provide a copy of the project soil report. The report shall include foundation design recommendations based on the engineer's findings. Alternatively, verify with the city that a soils report is not required for this project.

15. Note on plans that surface water will drain away from building and show drainage pattern. The grade shall fall a min. of 5% within the first 10' (2% for impervious surfaces). Sec. 1803.3.

- **MECHANICAL**

16. Show the location of the FAU on plans. This applies to the new unit above garage and the existing unit with bedroom/ bath addition.

17. Show the minimum 30" deep unobstructed working space in front of the attic installed furnace. Section CMC Section 904.11.4.

18. Note that passageway to mechanical equipment in attic shall be unobstructed, have continuous solid flooring not less than 24" wide, and be not more than 20' in length from the access opening to the appliance. CMC Section 904.11.

19. Show a permanent electrical receptacle outlet and lighting fixture controlled by a switch located at the entrance for furnaces located in an attic. CMC Section 904.11.5.

- **ELECTRICAL**

20. Show the size and location of the electrical panel on plans for both units.

- **PLUMBING**

21. Show water heater size and the one hour rating on plans.

22. Note on the plans that "combustion air for fuel burning water heaters will be provided in accordance with the Plumbing Code".

23. The fuel-fired water heater is shown installed in a bedroom/bathroom. Detail compliance with CPC 505.1: 1) A direct vent style of water heater ***or*** 2) Specify it is to be installed in a sealed enclosure with a listed, gasketed, self-closing, and latchable door with a threshold.

24. Provide a note on the plans: The control valves in bathtubs, whirlpool bathtubs, showers and tub-shower combinations must be pressure balanced or thermostatic mixing valves. CPC Section 414.5 and 418.0.

25. Show the T and P relief valve at the water heater and the discharge pipe size and routing to the exterior. CPC Section 608.3.

26. Specify on plans: Water conserving fixtures: New water closets shall use no more than 1.6 gallons per flush, lavatories and kitchen faucets may not exceed 2.2 GPM, and showers may not exceed 2.5 GPM of flow. CPC Sec. 402.0.

- **CITY POLICY ITEMS**
- **(Some of the following items apply to the new unit)**

27. All flexible metal conduits, Type AC cables, Type MC cables, Mineral insulated metal sheathed cables, and non-metallic conduit systems shall have equipment ground conductors run with the circuit conductors. 18.12.247.

28. The UFER ground may only be a copper conductor for commercial and industrial electrodes. Rebar is allowed for residential use only up to 200 amperes.

29. The use of flexible metal conduit as a grounding means must comply with City Policy 84-36.

30. No wiring is permitted on the roof of a building and wiring on the exterior of a building requires approval by the Building Official. (City Policy).

31. New residential units must be pre-plumbed for future solar water heating. Note "two roof jacks must be installed" where the water heater is in the one story garage and directly below the most south facing roof (City Ordinance No. 8093).

32. Note "two 3/4" copper pipes must be installed to the most convenient future solar panel location when the water heater is not in a one story garage and is not directly below the most south facing roof. (City Ordinance No. 8093).

33. All piping for present or future solar water heating must be insulated when in areas that are not heated or cooled by mechanical means (City Policy).

- **MISCELLANEOUS**

34. To speed up the review process, note on this list (or a copy) where each correction item has been addressed, i.e., plan sheet, note or detail number, calculation page, etc.

35. The jurisdiction has contracted with Esgil Corporation located at 9320 Chesapeake Drive, Suite 208, San Diego, California 92123; telephone number of 858/560-1468, to perform the plan review for your project. If you have any questions regarding these plan review items, please contact **ALI SADRE** at Esgil Corporation. Thank you.

CARLSBAD 10-0002
JAN. 07, 2010

[DO NOT PAY – THIS IS NOT AN INVOICE]

VALUATION AND PLAN CHECK FEE

JURISDICTION: **CARLSBAD** PLAN CHECK NO.: **10-0002**

PREPARED BY: **ALI SADRE** DATE: **JAN. 07, 2010**

BUILDING ADDRESS: **2677 JEFFERSON STREET**

BUILDING OCCUPANCY: **R3/U** TYPE OF CONSTRUCTION: **V-B**

BUILDING PORTION	AREA (Sq. Ft.)	Valuation Multiplier	Reg. Mod.	VALUE ($)	
LIVING RM ADD	187				
DECK ADD	78				
GARAGE ADD	770				
UNIT ABOVE	640				
GARAGE					
Air Conditioning					
Fire Sprinklers					
TOTAL VALUE					117,944

Jurisdiction Code: CB — By Ordinance

Bldg. Permit Fee by Ordinance: **$711.45**

Plan Check Fee by Ordinance: **$462.44**

Type of Review: ☑ **Complete Review** ☐ Structural Only

☐ Repetitive Fee — Repeats

☐ Other

☐ Hourly — Hr. @ *

EsGil Fee: **$398.41**

Comments:

City of Carlsbad

Public Works – Engineering

BUILDING PLANCHECK CHECKLIST

DATE: 1/25/10 PLANCHECK NO.: CB10-02

BUILDING ADDRESS: 2677 JEFFERSON ST

PROJECT DESCRIPTION: RAD/2DU (NEW 3 CAR GARAGE & ADDITION)

ASSESSOR'S PARCEL NUMBER: 155-170-21 EST. VALUE: 117,944

ENGINEERING DEPARTMENT

APPROVAL

The item you have submitted for review has been approved. The approval is based on plans, information and/or specifications provided in your submittal; therefore any changes to these items after this date, including field modifications, must be reviewed by this office to insure continued conformance with applicable codes. Please review carefully all comments attached, as failure to comply with instructions in this report can result in suspension of permit to build.

☑ A Right-of-Way permit is required prior to construction of the following improvements:
CURB- CORE OUT FOR DRAIN @ RIGHT-OF-WAY.

DENIAL

Please see the attached report of deficiencies marked with ☐. Make necessary corrections to plans or specifications for compliance with applicable codes and standards. Submit corrected plans and/or specifications to this office for review.

By: L. Ontiveros Date: 2/12/10

By: _____ Date: _____

By: _____ Date: _____

FOR OFFICIAL USE ONLY

ENGINEERING AUTHORIZATION TO ISSUE BUILDING PERMIT:

By: L. Ontiveros Date: 3/12/10

ATTACHMENTS

- ☐ Dedication Application/Checklist
- ☐ Encina Wastewater Screening Survey
- ☐ Encroachment Application/Checklist
- ☐ Final Map (Reference)
- ☐ Grading Plan Application/Checklist
- ☐ Improvement Application/Checklist
- ☐ Neighborhood Improvement Agreement
- ☐ Right-of-Way Permit Submittal Checklist and Information Sheet
- ☑ Storm Water Compliance Forms: SW 10-32
- ☐ Other _____

ENGINEERING DEPARTMENT CONTACT PERSON

Name: Linda Ontiveros
City of Carlsbad

Address: 1635 Faraday Avenue, Carlsbad, CA 92008

Phone: (760) 602-2773 **Fax:** (760) 602-1052

Email: Linda.Ontiveros@carlsbadca.gov

CFD INFORMATION

Reference No(s): CDP10-01 (DWG 1140-8)

Lot No.: _____

Recordation: _____

Subdivision/
Carlsbad Tract: _____

BUILDING PLANCHECK CHECKLIST

SITE PLAN

1ST ☐ 2ND ☑ 3RD ☐

1. Provide a fully dimensioned site plan drawn to scale. Show:

A. North Arrow ✓
B. Existing & Proposed Structures ✓
C. Existing Street Improvements ✓
D. Property Lines ✓
E. Easements ✓
F. Right-of-Way Width & Adjacent Streets
G. Driveway widths
H. Existing or proposed sewer lateral
I. Existing or proposed water service
X. Existing or proposed irrigation service N/A

☐ ☑ ☐

2. Show on site plan:

- Show on proposed site plan.
- verify size is sufficient.

A. Drainage Patterns
1. Building pad surface drainage must maintain a minimum slope of one percent towards an adjoining street or an approved drainage course.
2. ADD THE FOLLOWING NOTE: "Finish grade will provide a minimum positive drainage of 2% to swale 5' away from building."
B. Existing & Proposed Slopes and Topography
C. Size, type, location, alignment of existing or proposed sewer and water service (s) that serves the project. Each unit requires a separate service, however, second dwelling units and apartment complexes are an exception.
D. Sewer and water laterals should not be located within proposed driveways, per standards. verify

☐ ☑ ☐

3. Include on title sheet:

A. Site address ✓
B. Assessor's Parcel Number ✓
C. Legal Description ← Add short legal to title sheet. SEE title report

For commercial/industrial buildings and tenant improvement projects, include: total building square footage with the square footage for each different use, existing sewer permits showing square footage of different uses (manufacturing, warehouse, office, etc.) previously approved.

EXISTING PERMIT NUMBER	DESCRIPTION

BUILDING PLANCHECK CHECKLIST

1ST 2ND 3RD

DISCRETIONARY APPROVAL COMPLIANCE

☒ ☐ ☐ 4a. Project does not comply with the following Engineering Conditions of approval for Project No. Need approval of CDP10-01

☐ ☐ ☐ 4b. All conditions are in compliance. Date: _____

DEDICATION REQUIREMENTS

☒ ☐ ☐ 5. Dedication for all street Rights-of-Way adjacent to the building site and any storm drain or utility easements on the building site is required for all new buildings and for remodels with a value at or exceeding $ 17,000 , pursuant to Carlsbad Municipal Code Section 18.40.030.

Dedication required as follows: _____

Dedication required. Please have a registered Civil Engineer or Land Surveyor prepare the appropriate legal description together with an 8 ½" x 11" plat map and submit with a title report. All easement documents must be approved and signed by owner(s) prior to issuance of Building Permit. Attached please find an application form and submittal checklist for the dedication process. Submit the completed application form with the required checklist items and fees to the Engineering Department in person. Applications will not be accept by mail or fax.

Dedication completed by: _____ Date: _____

IMPROVEMENT REQUIREMENTS

☒ ☐ ☐ 6a. All needed public improvements upon and adjacent to the building site must be constructed at time of building construction whenever the value of the construction exceeds $ 82,000 , pursuant to Carlsbad Municipal Code Section 18.40.040.

Public improvements required as follows: _____

Attached please find an application form and submittal checklist for the public improvement requirements. A registered Civil Engineer must prepare the appropriate improvement plans and submit them together with the requirements on the attached checklist to the Engineering Department through a separate plan check process. The completed application form and the requirements on the checklist must be submitted in person. Applications by mail or fax are not accepted. Improvement plans must be approved, appropriate securities posted and fees paid prior to issuance of building permit.

Improvement Plans signed by: _____ Date: _____

BUILDING PLANCHECK CHECKLIST

1ST	2ND	3RD	
			IMPROVEMENT REQUIREMENTS *continued*
☒	☐	☐	6b. Construction of the public improvements may be deferred pursuant to Carlsbad Municipal Code Section 18.40. Please submit a recent property title report or current grant deed on the property and processing fee of $441 so we may prepare the necessary Neighborhood Improvement Agreement. This agreement must be signed, notarized and approved by the City prior to issuance of a Building permit. Future public improvements required as follows: _____
☒	☐	☐	6c. Enclosed please find your Neighborhood Improvement Agreement (NIA). Please return agreement signed and notarized to the Engineering Department. Completed by: _____ Date: _____
☒	☐	☐	6d. (No Public Improvements required.) SPECIAL NOTE: Damaged or defective improvements found adjacent to building site must be repaired to the satisfaction of the City Inspector prior to occupancy.

GRADING PERMIT REQUIREMENTS

The conditions that invoke the need for a grading permit are found in Section 15.16.010 of the Municipal Code.

☒	☐	☐	7a. Inadequate information available on Site Plan to make a determination on grading requirements. Include accurate grading quantities in cubic yards (cut, fill import, export). **This information must be included on the plans.**
☒	☐	☐	7b. Grading Permit required. A separate grading plan prepared by a registered Civil Engineer must be submitted together with the completed application form attached. NOTE: The Grading Permit must be issued and rough grading approval obtained prior to issuance of a Building Permit. Grading Inspector sign off by: _____ Date: _____
☒	☐	☐	7c. Graded Pad Certification required. (Note: Pad certification may be required even if a grading permit is not required.)
☒	☐	☐	7d (No Grading Permit required.)
☒	☐	☐	7e. If grading is not required, write "No Grading" on plot plan.

BUILDING PLANCHECK CHECKLIST

MISCELLANEOUS PERMITS

1ST ☐ 2ND ☑ 3RD ☐ **RIGHT-OF-WAY PERMIT**

SUBMIT @ LEAST (2) WEEKS PRIOR TO STARTING WORK

8. A Right-of-Way permit is required to do work in City Right-of-Way and/or private work adjacent to the public Right-of-Way. Types of work include, but are not limited to: street improvements, tree trimming, driveway construction, tying into public storm drain, sewer and water utilities. To see requirements, visit our website: www.carlsbadca.gov/engineering

Right-of-Way permit required for: Proposed sidewalk underdrain in Jefferson R.O.W.

☒ ☐ ☐ **INDUSTRIAL WASTE PERMIT**

9. If your facility is located in the City of Carlsbad sewer service area, you need to contact the Carlsbad of Carlsbad, Development Services Division, located at 1635 Faraday Avenue, Carlsbad, CA 92008. City Staff can provide forms and assistance. You may telephone (760) 602-2750 for assistance

☒ ☐ ☐ **NPDES PERMIT**

10. Complies with the City's requirements of the National Pollutant Discharge Elimination System (NPDES) permit. The applicant shall provide best management practices to reduce surface pollutants to an acceptable level prior to discharge to sensitive areas. Plans for such improvements shall be approved by the City Engineer prior to issuance of grading or building permit, whichever occurs first.

☐ ☑ ☐ **STORM WATER COMPLIANCE**

10a. ■ Requires ~~Project~~ Storm Water Permit: SW 10-32
☒ Tier I/Tier II (Requires SWPPP) – Please complete attached forms
☐ No threat – Please complete attached Storm Water Exemption form

☐ ☐ ☑ **DEVELOPMENT FEES**

11. ☐ Required fees ~~are attached~~ (ENTERED)
☐ More information needed – WILL LID BE INCORPORATED? SEE COMMENT #13 FOR MORE INFORMATION.
☐ No fees required

1ST 2ND 3RD **WATER METER REVIEW**

N/A ☐ ☐ 12a. Domestic (potable) Use

Ensure that the meter proposed by the owner/developer is not oversized. Oversized meters are inaccurate during low-flow conditions. If it is oversized, for the life of the meter, the City will not accurately bill the owner for the water used.

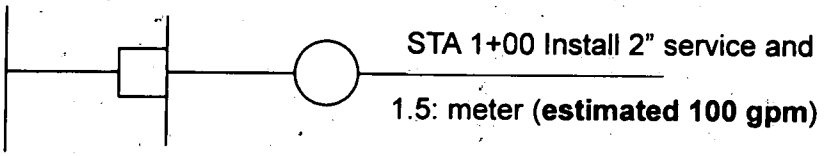
- All single family dwelling units receive "standard" 1" service with 5/8" meter.
- All residential units that need to be fire sprinkled receive a 1" meter. See Carlsbad Municipal Code Section 17.04.230 for Automatic *fire* extinguishing systems criteria.
- If owner/developer proposes a size other than the "standard", then owner/developer must provide **potable water demand calculations,** which include total fixture counts and maximum water demand in gallons per minute (gpm). Once the gpm is provided, check against the "meter sizing schedule" to verify the anticipated meter size for the unit.
- **Maximum** service and meter size is a 2" service with a 2" meter.
- If a developer is proposing a meter greater than 2", suggest the installation of multiple 2" services as needed to provide the anticipated demand. (manifolds are considered on case by case basis to limit multiple trenching into the street).

  NOTE: Upon declaration of Drought Response Level 3 condition, no new potable water service shall be provided and no new temporary meters or permanent meters shall be provided. See Ordinance 44 for more information.

☒ ☐ ☐ 12b. Irrigation Use (where recycled water is **not** available)

All **irrigation meters** must be sized via irrigation calculations (in gpm) prior to approval. The developer must provide these calculations. Please follow these guidelines:

- If the project is a newer development (newer than 1998), check the recent improvement plans and observe if the new irrigation service is reflected on the improvement sheets. If so, at the water meter station, the demand in gpm may be listed there. Irrigation services are listed with a circled "I", and potable water is typically a circled "W". The irrigation service should look like:



- If the improvement plans do **not** list the irrigation meter and the service/meter will be installed via another instrument such as the building plans or grading plans (w/ a right of way permit of course), then the applicant must provide **irrigation calculations** for estimated worst-case irrigation demand (largest zone with the farthest reach). Typically, the landscape consultant has already reviewed this if landscape plans have been prepared, but the applicant must provide the calculations to you for your use.

1ST 2ND 3RD **WATER METER REVIEW *continued***

12b. Irrigation Use (continued)

Once you have received a good example of irrigation calculations, keep a set for your reference. In general the calculations will include:

- Hydraulic grade line
- Elevation at point of connection (POC)
- Pressure at POC in pounds per square inch (PSI)
- Worse case zone (largest, farthest away from valve
- Total Sprinkler heads listed (with gpm use per head)
- Include a 10% residual pressure at point of connection

In general, all major sloped areas of a subdivision/project are to be irrigated via separate irrigation meters (unless the project is only SFD with no HOA). As long as the project is located within the City recycled water service boundary, the City is in the process of switching these irrigation services/meters to a new recycled water line

☒ ☐ ☐ 12c. Irrigation Use (where recycled water **is** available)

Recycled water meters are sized the same as the irrigation meter above.

- If a project fronts a street with recycled water, then they should be connecting to this line to irrigate slopes within the development. For subdivisions, this should have been identified, and implemented on the improvement plans. Installing **recycled water meters** is a benefit for the applicant since they **are exempt** from paying the San Diego County Water Capacity fees. However, if they front a street which the recycled water is there, but is not live (sometimes they are charged with potable water until recycled water is available), then the applicant must pay the San Diego Water Capacity Charge. If within three years, the recycled water line is charged with recycled water by CMWD, then the applicant can apply for a refund to the San Diego County Water Authority (SDCWA) for a refund. However, the City of Carlsbad cannot guarantee the refund. The applicant must deal with the SDCWA for this.

☐ ☑ ☐ 13. **Additional Comments:**

Project appears to pave the entire backyard. Revise plans to incorporate "Low Impact Development" principles to reduce installing impervious surfaces and drain water through planters prior to discharge. See section 2.33.1 of Engineering Standards.

PLANTER 3'x30' AREA

ENGINEERING DEPARTMENT

FEE CALCULATION WORKSHEET

☐ Estimate based on unconfirmed information from applicant.
☑ Calculation based on building plancheck plan submittal.

Address: 2677 JEFFERSON ST Bldg. Permit No. CB10-02

Prepared by: JS Date: 1/25/10 Checked by: _____ Date: _____

EDU CALCULATIONS: List types and square footages for all uses.

Types of Use: 2DU1	Sq. Ft./Units: 1	EDU's: 1
Types of Use: _____	Sq. Ft./Units: _____	EDU's: _____
Types of Use: _____	Sq. Ft./Units: _____	EDU's: _____
Types of Use: _____	Sq. Ft./Units: _____	EDU's: _____

ADT CALCULATIONS: List types and square footages for all uses.

Types of Use: 2DU1	Sq. Ft./Units: 1	ADT's: 6 (APT)
Types of Use: _____	Sq. Ft./Units: _____	ADT's: _____
Types of Use: _____	Sq. Ft./Units: _____	ADT's: _____
Types of Use: _____	Sq. Ft./Units: _____	ADT's: _____

FEES REQUIRED:

WITHIN CFD: ☐ YES (no bridge & thoroughfare fee in District #1, reduced Traffic Impact Fee) ☑ NO

☐ 1. PARK-IN-LIEU FEE: NW QUADRANT NE QUADRANT SE QUADRANT SW QUADRANT

FEE/UNIT: _____ X NO. UNITS: _____ = $ _____

☑ 2. TRAFFIC IMPACT FEE

ADT's/UNITS: 1 X FEE/ADT: 1,590. = $ 1,590.

☐ 3. BRIDGE AND THOROUGHFARE FEE (DIST. #1 ___ DIST. #2 ___ DIST. #3 ___)

ADT's/UNITS: _____ X FEE/ADT: _____ = $ _____

☑ 4. FACILITIES MANAGEMENT FEE ZONE: 1

UNIT/SQ.FT.: — X FEE/SQ.FT./UNIT: 0 = $ 0

☑ 5. SEWER FEE

EDU's: 1 X FEE/EDU: 1,096. = $ 1,096.

BENEFIT AREA: N/A

EDU's: — X FEE/EDU: — = $ —

RH ☑ 6. DRAINAGE FEES PLDA A: HIGH ____ /LOW ____ /MEDIUM ✓

ACRES: .17 X FEE/AC: 10,480 = $ 1,781.60

☐ 7. POTABLE WATER FEES

UNITS	CODE	CONNECTION FEE	METER FEE	SDCWA FEE	IRRIGATION
____	____	_____	_____	_____	_____
____	____	_____	_____	_____	_____
____	____	_____	_____	_____	_____

CITY OF CARLSBAD

STORM WATER COMPLIANCE FORM
TIER 1 CONSTRUCTION SWPPP
E-29

Development Services
Engineering Department
1635 Faraday Avenue
760-602-2750
www.carlsbadca.gov

STORM WATER COMPLIANCE CERTIFICATE

- ✓ My project is not in a category of permit types exempt from the Construction SWPPP requirements
- ✓ My project is not located inside or within 200 feet of an environmentally sensitive area with a significant potential for contributing pollutants to nearby receiving waters by way of storm water runoff or non-storm water discharge(s).
- ✓ My project does not require a grading plan pursuant to the Carlsbad Grading Ordinance (Chapter 15.16 of the Carlsbad Municipal Code)
- ✓ My project will not result in 2,500 square feet or more of soils disturbance including any associated construction staging, stockpiling, pavement removal, equipment storage, refueling and maintenance areas that meets one or more of the additional following criteria:
  - located within 200 feet of an environmentally sensitive area or the Pacific Ocean; and/or,
  - disturbed area is located on a slope with a grade at or exceeding 5 horizontal to 1 vertical; and/or
  - disturbed area is located along or within 30 feet of a storm drain inlet, an open drainage channel or watercourse; and/or
  - construction will be initiated during the rainy season or will extend into the rainy season (Oct. 1 through April 30).

I CERTIFY TO THE BEST OF MY KNOWLEDGE THAT ALL OF THE ABOVE CHECKED STATEMENTS ARE TRUE AND CORRECT. I AM SUBMITTING FOR CITY APPROVAL A TIER 1 CONSTRUCTION SWPPP PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF CITY STANDARDS.

I UNDERSTAND AND ACKNOWLEDGE THAT I MUST: (1) IMPLEMENT BEST MANAGEMENT PRACTICES (BMPS) DURING CONSTRUCTION ACTIVITIES TO THE MAXIMUM EXTENT PRACTICABLE TO MINIMIZE THE MOBILIZATION OF POLLUTANTS SUCH AS SEDIMENT AND TO MINIMIZE THE EXPOSURE OF STORM WATER TO CONSTRUCTION RELATED POLLUTANTS; AND, (2) ADHERE TO, AND AT ALL TIMES, COMPLY WITH THIS CITY APPROVED TIER 1 CONSTRUCTION SWPPP THROUGHOUT THE DURATION OF THE CONSTRUCTION ACTIVITIES UNTIL THE CONSTRUCTION WORK IS COMPLETE AND APPROVED BY THE CITY OF CARLSBAD.

L. EUGENE BOYD
OWNER(S)/OWNER'S AGENT NAME (PRINT)

L. Eugene Boyd — 2.25.10
OWNER(S)/OWNER'S AGENT NAME (SIGNATURE) DATE

STORM WATER POLLUTION PREVENTION NOTES

1. ALL NECESSARY EQUIPMENT AND MATERIALS SHALL BE AVAILABLE ON SITE TO FACILITATE RAPID INSTALLATION OF EROSION AND SEDIMENT CONTROL BMPS WHEN RAIN IS EMINENT.
2. THE OWNER/CONTRACTOR SHALL RESTORE ALL EROSION CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
3. THE OWNER/CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE CITY ENGINEERING OR BUILDING INSPECTOR DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES WHICH MAY ARISE.
4. ALL REMOVABLE PROTECTIVE DEVICES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE FIVE (5) DAY RAIN PROBABILITY FORECAST EXCEEDS FORTY PERCENT (40%). SILT AND OTHER DEBRIS SHALL BE REMOVED AFTER EACH RAINFALL.
5. ALL GRAVEL BAGS SHALL BE BURLAP TYPE WITH 3/4 INCH MINIMUM AGGREGATE.
6. ADEQUATE EROSION AND SEDIMENT CONTROL AND PERIMETER PROTECTION BEST MANAGEMENT PRACTICE MEASURES MUST BE INSTALLED AND MAINTAINED.

SPECIAL NOTES

New 3 car garage/2nd dwelling unit above

PROJECT INFORMATION

Site Address: 2677 Jefferson St

Assessor's Parcel Number: 155-170-21

Project ID: CB 10-02

Construction Permit No.: SW 10-32

Estimated Construction Start Date _____

Project Duration _____ Months

Emergency Contact: ED Mullin

Name: DENNIS SEGHREST

24 hour Phone: 760-434-2233

Perceived Threat to Storm Water Quality

☑ Medium

☐ Low

If medium box is checked, must attach a site plan sheet showing proposed work area and location of proposed structural BMPs

For City Use Only

CITY OF CARLSBAD
STANDARD TIER 1 SWPPP

Approved By: _____

Date: 3/12/10

Page 1 of 2

CITY

	Erosion Control BMPs					Sediment Control BMPs									Tracking Control BMPs			Non-Storm Water Management BMPs					Waste Management and Materials Pollution Control BMPs								
Best Management Practice (BMP) Description →	Geotextiles & Mats	Wood Mulching	Earth Dikes and Drainage Swales	Slope Drains		Silt Fence	Sediment Trap	Check Dam	Fiber Rolls	Gravel Bag Berm	Street Sweeping and Vacuuming	Sandbag Barrier	Storm Drain Inlet Protection		Stabilized Construction Ingress/Egress	Stabilized Construction Roadway		Water Conservation Practices	Paving and Grinding Operations	Potable Water/Irrigation	Vehicle and Equipment Cleaning		Material Delivery and Storage	Material Use	Stockpile Management	Spill Prevention and Control	Solid Waste Management	Hazardous Waste Management	Concrete Waste Management		
CASQA Designation →	EC-7	EC-8	EC-9	EC-11		SE-1	SE-3	SE-4	SE-5	SE-6	SE-7	SE-8	SE-10		TR-1	TR-2		NS-1	NS-3	NS-7	NS-8		WM-1	WM-2	WM-3	WM-4	WM-5	WM-6	WM-8		
Construction Activity																															
Grading/Soil Disturbance																															
Trenching/Excavation																								X							
Stockpiling																								X							
Drilling/Boring																															
Concrete/Asphalt Saw cutting																															
Concrete flatwork																													X		
Paving																															
Conduit/Pipe Installation																						X		X							
Stucco/Mortar Work																															
Waste Disposal																															
Staging/Lay Down Area																															
Equipment Maintenance and Fueling																															
Hazardous Substance Use/Storage																															
Dewatering																															
Site Access Across Dirt																						X									
Other (list):																															

Instructions: Begin by reviewing the list of construction activities and checking the box to the left of any activity that will occur during the proposed construction. Add any other activity descriptions in the blank activity description boxes provided for that purpose and place a check in the box immediately to the left of the added activity description. For each activity described, pick one or more best management practices (BMPs) from the list located along the top of the form. Then place an X in the box at the place where the activity row intersects with the BMP column. Do this for each activity that was checked off and for each of the selected BMPs selected from the list. For Example – If the project includes site access across dirt, then check the box to the left of "Site Access Across Dirt". Then review the list for something that applies such as "Stabilized Construction Ingress/Egress" under Tracking Control. Follow along the "Site Access Across Dirt" row until you get to the "Stabilized Construction Ingress/Egress" column and place an X in the box where the two meet. As another example say the project included a stockpile that you intend to cover with a plastic sheet. Since plastic sheeting is not on the list of BMPs, then write in "Cover with Plastic" in the blank column under the heading Erosion Control BMPs. Then place an X in the box where the "Stockpiling" row intersects the new "Cover with Plastic" column.

To learn more about what each BMP description means, you may wish to review the BMP Reference Handout prepared to assist applicants in the selection of appropriate Best Management Practice measures. The reference also explains the California Stormwater Quality Association (CASQA) designation and how to apply the various selected BMPs to a project.

PLANNING DEPARTMENT
BUILDING PLAN CHECK REVIEW CHECKLIST

Plan Check #1 by GR Date 1/14/10
Plan Check #2 by GR Date 2/4/10
Plan Check #3 by GR Date 3/4/10

☒ ☐ ☐

Plan Check No. CB100002 Address 2677 JEFFERSON ST
Planner GINA RUIZ Phone (760) 602- 4675
APN: 155-170-21-00
Type of Project & Use: SDU above detached garage Net Project Density: DU/AC
Zoning: R-3 General Plan: RH Facilities Management Zone: 1
CFD (in/out) #_Date of participation:_____ Remaining net dev acres:_____

Circle One (For non-residential development: Type of land used created by this permit: _____)

Legend: ☒ Item Complete ☐ **Item Incomplete - Needs your action**

Environmental Review Required: YES ☐ NO ☒ TYPE

DATE OF COMPLETION: _____

Compliance with conditions of approval? If not, state conditions which require action.
Conditions of Approval: _____

☐ ☐ ☒

Discretionary Action Required: YES ☒ NO ☐ TYPE **CDP 10-01 NEEDS TO BE APPROVED BEFORE TIHS BUILDING PERMIT, CB100002, CAN BE APPROVED**

APPROVAL/RESO. NO. 3-3-10 DATE APPROVED BY PLANNING DIRECTOR
PROJECT NO. _____
OTHER RELATED CASES: _____

Compliance with conditions or approval? If not, state conditions which require action.
Conditions of Approval: _____

☐ ☐ ☒

Coastal Zone Assessment/Compliance

Project site located in Coastal Zone? YES ☒ NO ☐
CA Coastal Commission Authority? YES ☐ NO ☒
If California Coastal Commission Authority: Contact them at – 7575 Metropolitan Drive, Suite 103, San Diego, CA 92108-4402; (619) 767-2370
Determine status (Coastal Permit Required or Exempt): CDP REQUIRED – SUBMITTED UNDER CDP 10-01

☒ ☐ ☐

Habitat Management Plan
Data Entry Completed? YES ☐ NO ☒
If property has Habitat Type identified in Table 11 of HMP, complete HMP Permit application and assess fees in Permits Plus
(A/P/Ds, Activity Maintenance, enter CB#, toolbar, Screens, HMP Fees, Enter Acres of Habitat Type impacted/taken, UPDATE!)

☒ ☐ ☐

Inclusionary Housing Fee required: YES ☐ NO ☒
(Effective date of Inclusionary Housing Ordinance - May 21, 1993.)

Data Entry Completed? YES ☐ NO ☐
(A/P/Ds, Activity Maintenance, enter CB#, toolbar, Screens, Housing Fees, Construct Housing Y/N, Enter Fee, UPDATE!)

Site Plan:
☒ ☐ ☐

Policy 44 – Neighborhood Architectural Design Guidelines

☒ ☐ ☐ 1. Applicability: YES ☐ NO ☒

☒ ☐ ☐ 2. Project complies: YES ☐ NO ☐

Zoning:

☐ ☒ ☐ 1. Setbacks:

Front:	Required 20' Shown 20'
Interior Side:	Required 5' Shown 5'
Street Side:	Required N/A Shown N/A
Rear:	Required 10' Shown 10'

☐ ☒ ☐ 2. Accessory structure setbacks: SDU & GARAGE

Front:	Required 20' Shown 20'+
Interior Side:	Required 5' Shown 5'
Street Side:	Required N/A Shown N/A
Rear:	Required 10' Shown 10'
Structure separation:	Required 10' Shown 31'

☒ ☐ ☐ 3. Lot Coverage: Required 60% MAX Shown 33%

☒ ☐ ☐ 4. Height: Required 35' MAX Shown 23'

☒ ☐ ☐ 5. Parking: Spaces Required 2 Shown 3

(breakdown by uses for commercial and industrial projects required)

Residential Guest Spaces Required 1 Shown 1

☐ ☐ ☒ Additional Comments **#1. CDP 10-01 needs to be approved before CB100002 can be approved. #2. Please sign and return the attached Affidavit of Compliance.**

OK TO ISSUE AND ENTERED APPROVAL INTO COMPUTER GR DATE 3/4/10

Carlsbad Fire Department

BLDG. DEPT COPY

Plan Review *Requirements Category:* RESDNTL , 2DU

Date of Report: 02-11-2010 Reviewed by: G Ryan

Name: BOYO EUGENE
Address:
42186 THORNTON AVE
HEMETCA
92544

Permit #: CB100002

Job Name: SECHREST RES-NEW 770 SFGARAGE
Job Address: 2677 JEFFERSON ST CBAD

INCOMPLETE The item you have submitted for review is incomplete. At this time, this office cannot adequately conduct a review to determine compliance with the applicable codes and/or standards. Please review carefully all comments attached. Please resubmit the necessary plans and/or specifications, with changes "clouded", to this office for review and approval.

Conditions:

Cond: CON0003868
[NOT MET] Provide an automatic fire sprinkler system (NFPA 13D). Said system shall be installed as set forth in the California Building Code and the Carlsbad Municipal Code: 17.04.230 Sec.903.2 amended--Automatic fire extinguishing systems.

Note: Residential sprinkler systems designed in accordance with NFPA standards 13R may not be used as the basis for increases to the basic allowable floor area or exemption from any other California Building Code requirement as NFPA 13R does not require sprinklers in all areas of the building.
Entry: 02/10/2010 By: GR Action: CO

3-16

NORTH AMERICAN ENGINEERING, INC.
Consulting Structural Engineering
1301 Beringer Dr., San Jacinto, CA 92583

SECREST RESIDENCE
CARLSBAD, CA.

Date: 11-21-09
Job No.
By: MDF
Page: 1

BUILDING LOADS:

Roof Dead Loads: psf

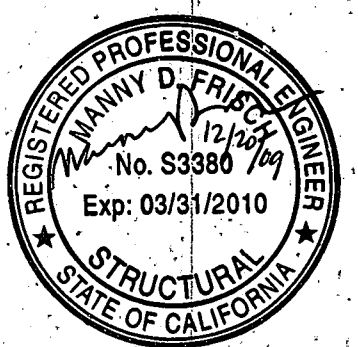
Roofing-	Asphalt Shinges	3.0
Sheathing-	1/2" P.W.	2.0
Trusses-		2.5
Ceiling-		2.0
Insulation-		1.0
Misc.		1.5
Total		12.0

Floor Dead Loads: psf

Flooring-	Carpet	1.0
Sheathing-	3/4" P.W.	2.5
Framing		3.5
Ceiling-		2.0
Insulation-		1.0
Misc.		1.5
Subtotal		11.5
Partitions		10.0
Total		21.5

Wall Dead Loads: psf

Exterior	Stucco	10.0
Sheathing-	1/2" P.W.	1.5
Framing		1.0
Interior	1/2" G.B	1.5
Insulation-		1.0
Total		15.0



CB10-0002

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Date: 11-20-09
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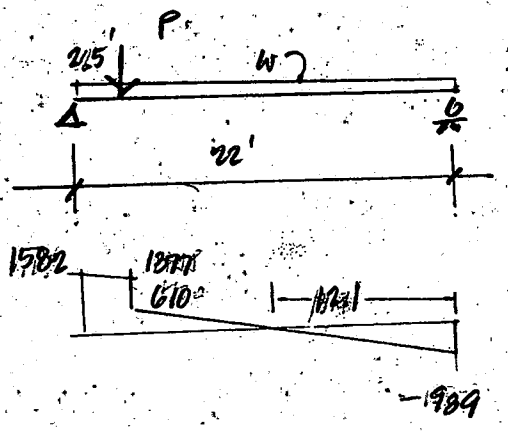
FLOOR FRAMING:

TYPICAL DIST. L = 22'-0"



$w = 100(21.5+40)^{PSF} = 82^{PLF}$

$P = [(10.5+20)^{PSF}14 + 8'(15)^{PSF} + (10.5+20)1']1.33 = 768^{\#}$

$R_L = 82\left(\frac{22}{2}\right) + 768\left(\frac{19.5}{22}\right) = 1582$ $\quad \Sigma F = 2671^{\#}$

$M_{max.} = \frac{988(12.4)}{2} = 5964'$ $\quad w_{equiv.} = \frac{8(5964)}{22^2} = 9$

Try 14" TJI/360

$V_{allow} = 1955 > 1725$

$M_{allow} = 4331 > 5964$ 19

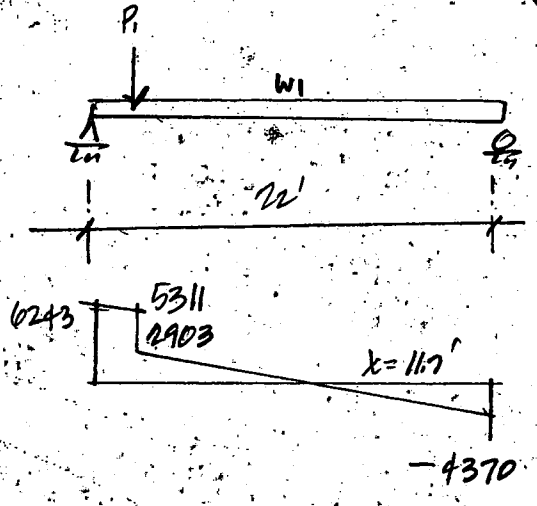
$\Delta = \frac{22.5\,wL^4}{EI} + \frac{2.67\,wL^2}{d\times10^5}$

$= \frac{22.5(988)(22)^4}{612\times10^6} + \frac{2.67(99)22^2}{14\times10^5} = .94 \quad \frac{L}{280}$

$EI_{REQ'D.} = \frac{360}{280}(612) = 786$

USE: 14" TJI/560 @ 16" O/C.
OR 16" TJI/360 @ 16" O/C.

BEAM SUPPORTING BALCONY FRAMING:



$P = \frac{(3.5'+1.67')}{1.33}768^{\#} = 2408^{\#}$

$W = (3.5'+1.67')(21.5+40)^{PSF} + [8'(15)+$ $= 256^{PLF}$

$+ \frac{20'}{7'}\left[9.5'(10.5+20) + 8'(15)^{PSF}\right] = \frac{117}{373^{PLF}}$

$R_L = \frac{373(22)}{2} + 2408\left(\frac{19.5}{22}\right) = 6243$

$\Sigma F_V = 6243 + 4370 = 10614 = 373(22) + 2408 = 10$

$M = \frac{1}{2}(4370)\,11.7 = 25{,}599^{\#}$ $\quad w_{equiv} = 423$

For: (3) 1314 x 14.00 $\quad S = \frac{3(1.75)14^2}{6} = 171$

$f_b = \frac{25{,}600(12)}{171.5} = 1792^{PSI}$

$\Delta = \frac{22.5(423)(22)^4}{3(400)1.55\times10^6} = 1.19$ $\quad I_{REQ'D} = 1961$

" " 1.11 (1.55E6)

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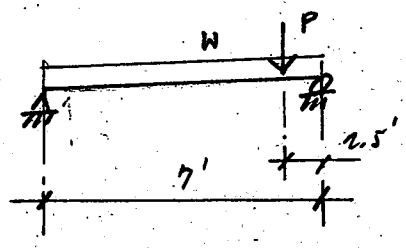
JOIST @ SECTION B-B



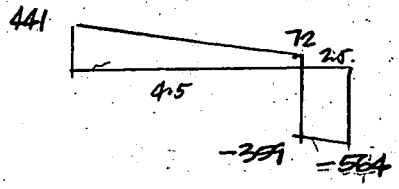
$W = 1.33\,(21.5+40)^{PSF} = 82.0^{PLF}$

$P = ((5'+4.5')(10.5+20) + 8'(15)^{PSF})\,1.33 = 431.3$

$R_L = 82(7/2) + (2.5/7)\,431 = 441^{\#}$ $\quad \Sigma F = 431 + 82(7) = 1005$

$M_{MAX.} = \left[\frac{441+72}{2}\right] 4.5' = 1154^{\#'}$

USE: 14" TJI/110 @ 16" O/C



BEAM UNDER EXTERIOR WALL:

$L = 7'$

$w = (4'+4.5')(10.5+20)^{PSF} + 15^{PSF}(8') = 303^{PLF}$

$M = 1/8\,(303)\,7^2 = 1854^{\#'}$

USE: 3 1/2" x 14" PSL

TYP. JOIST @ BALCONY:

$L = 7'$

$M = 1154$

FOR 2x12 DF #1 $\quad F_b = 1000 \quad S = 31.6\ in^3$

$f_b = \frac{1154(12)}{31.6} = 438^{psi} < 1000^{psi}$

USE: 2x12 @ 16"

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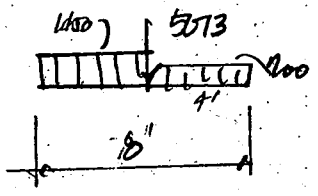
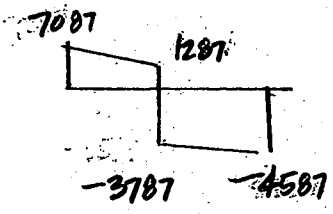
GARAGE DOOR HDR.





$w = (10+4.5')(12+20)^{psf} + (21.5+40)(22/2) = 1141$

$4.5'(12+20+10)^{psf} + 15^{psf}(8') = 309$

1450 PLF.

FOR POINT LOAD $P = 3.5'(1450) = 5073\#$

$M_1 = \frac{1450(8)^2}{8} = 11600$

OR...

$\Sigma R_{@2} = 1450(4)\,6/8' + 5073(1/2) + 200(4)(2/3)$

$= 4350 + 2537 + 200 = 7087$

$M_2 = \left(\frac{7087+1287}{2}\right)4 = 16,748 \leftarrow$ USE.

FOR 4x12 $A = 39.4$ $S = 49.9$

$f_v = \frac{1.5(7087)}{39.4} = 270$

$f_b = \frac{16,748(12)}{49.98} = 4023 < 2900$ ok

USE: 3½ x 12.00 PSL.

HDR. AT TRIMMER.

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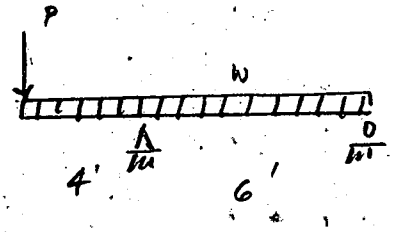
NEW ADDITION

HEADER @ MASTER BATH:

$W = (5.5'+2.5')(12+20)^{psf} + 100 = 356\#$

$P = ((2'+2.5')(12+20) + 100)\ 4'/2 = 488\#$

$M = \frac{356(4)^2}{2} + 488(4') = 4800\ \#'$



$S_{req'd} = \frac{4800(12)}{1.25(1000)} = 46.0\ in^3$

$d = \sqrt{\frac{6(46)}{3.5}} = 8.9$

USE: 4x12 HDR.

FLOOR JOIST: $L = 11'$

$W = 1.33\ (21.5+40) = 81.7^{plf}$

$M = 1/8\ \ 81.7\ (11)^2 = 1237$

For 2x6 DF #1 $S = 7.56$

$F_b' = 1.3(1000) = 1300\ psi$

$f_b = \frac{1237(12)}{7.56} = 1963 > 1300$ n.g.

For 2x8 DF #1 $S = 13.1$ $I = 47.6$

$f_b = \frac{1237(12)}{13.1} = 1133 < 1.2(1000) = 1200$ o.k.

$\Delta = \frac{22.5(81.7)\ 11^4}{1.6\times10^6(47.6)} = .37" = \frac{L}{374} < \frac{L}{360}$ o.k.

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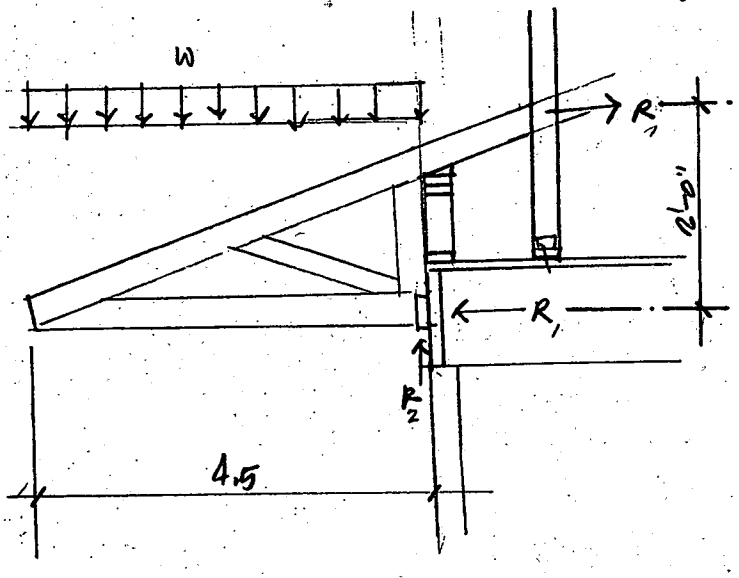
OVER HANG TRUSS



$W = 2'(12 + 10 + 20)^{PSF} = 84^{PLF}$

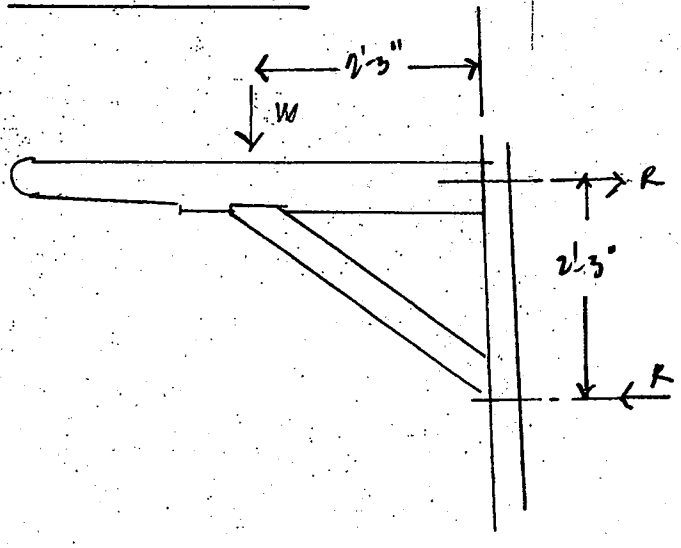
$R_1 = \frac{84^{PLF}(4.5^2)}{2'(12)} = 425^{\#}$

USE: A35

$R_2 = 84^{PLF}(4.5 + 1.0) = 492^{\#}$

USE: U24

CORNER BRACKET



TRIBUTARY WIDTH OF 4'-0" TO EA. BRACKET

$W = 84^{PLF}(4') = 336^{\#}$

$R = \frac{4.25'}{2.25'}(336) = 336^{\#}$

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FOUNDATION : ALLOWABLE SOIL PRESSURE : $Q_a = 1500$ PSF

TYP. GARAGE

ROOF : $W = 14.5'(12+20)^{PSF} = 464^{PLF}$

WALL : $W = 15^{PSF}(8') = 120$

FLOOR : $W = (21.5+40)\ 11' = 677$

WALL : $W = 15^{PSF}(9') = 135$

1396

$b = \frac{1396\ PLF}{1500\ PSF} = .93''$ USE : 1'-3" W. x 18"D FOOTING.

NEW ADDITION :

ROOF : $W = (11'+2')(12+20)^{PSF} = 416^{PLF}$

WALL : $W = 8'(15)^{PSF} = 120$

FLOOR : $W = (21.5+40)\ 11/2 = 338$

STEMWALL : $W = 4'(.5)\ 150 = 300$

1174 PLF

$b = \frac{1174}{1500} = .72'$

USE : 12" W. CONT. FOOTING.

LATERAL ANALYSIS:

SEISMIC LOADS: $S_{MS} = F_a S_S = 1.0(1.50) = 1.50$ NOTE: $S_S = 1.32$ FROM USGS USED 1.50

$S_{DS} = \frac{2}{3} S_{MS} = \frac{2}{3}(1.50) = 1.00$

$R = 6.5 \quad I = 1.00$

$C_S = \frac{S_{DS}}{\left(\frac{R}{I}\right)} = \frac{1.00}{\left(\frac{6.50}{1.00}\right)} = .154$

$V = C_S W = .154\,W$ (STRENGTH LEVEL)

ROOF WEIGHT:

ROOF: $W = 12^{PSF}(42')\,29' = 14,616$

EXT. WALLS $W = 15^{PSF}(4')(33'+20')2 = 6,360$

INT. WALLS $W = 7^{PSF}(4')\,35' = 980$

$\Sigma W_R = 21,956$

FLOOR WEIGHT:

FLOOR: $W = 21.5^{PSF}(35'(22')) = 16,555$

EXT. WALLS: $W = 15^{PSF}(8')(35+22)2 = 13,680$

BALCONY: $W = 12^{PSF}(9.3'(4.5') + 6.5(5.5')) = 931$

MANSARD: $W = (12+10)^{PSF}\,4.5'(37'+24')2 = 12,078$

$\Sigma W_F = 43,244$

STORY FORCE DISTRIBUTION $V = .154(65,200) = 10.04^{K}$

LEVEL	W_x	h_x	$W_x h_x$	%	F_x	F_x/W_x
ROOF	21956	17.3'	379.8 K-f	.49	4920	.22
FLOOR	43244	9.2'	397.8 K-f	.51	5120	.12
	65200		777.7 K-f		10,040	

WIND LOAD: $P_S = \lambda K_{zt} I P_{S30}$ Where: $\lambda = 1.29$ $I = 1.00$

$K_{zt} = 1.0$ $P_{S30} = 14.4$ MAX (ZONE A) 10.6 (ZONE C)

CORNER: $P_S = 1.29(1.00)(1.00)14.4 = 18.6$

INTERIOR: $P_S = 1.29(1.00)(1.00)10.6 = 13.7$

$a = .4(17.3) = 6.9' \sim 7.0'$

$.1(22) = 2.2'$

MAX. WIND LOAD:

EAST/WEST WALLS: $1.3((13.7^{PSF}(17.3')(35/2-7) + 18.6(17.3'(7')) = 6163$

NORTH/SOUTH WALLS: $1.3(13.7(17.3)(22/2-7) + 18.6(17.3)\,7)) = 4161$

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SHEAR WALLS:

2ND FLOOR: NORTH & SOUTH WALLS: $L_{wall} = 21.5'$ (MIN.)

$V_{WIND} = 1/4(4461) = 1040\#$

$V_{SEISMIC} = .7\left(\frac{4920}{2}\right) = 1722\#$ ← governs

$N_{WALL} = \frac{1722}{21.5} = 180^{PLF}$

UPLIFT: $180^{PLF}(8') - .6(14.5'(12)^{PSF} + 8'(15)^{PSF})\ 21.5/2 = -1260$

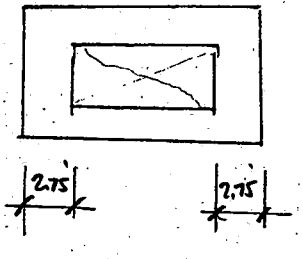
NO NET UPLIFT.

USE: 3½" P.W. W/ 8d E.N. @ 6" O.C.
NO HOLDOWNS REQ'D.

SILL NAILING: FOR 16d $Z = 1.33(118) = 157\#$

SPACING: $\frac{157}{180} = 1.96'$

USE: 16d @ 12" o/c.



WEST WALL: $L_W = 2(2.75') = 5.5'$

$V_W = 1/4(6163) = 1540$

$V_E = 1722$

$N_W = \frac{1722}{5.5} = 313$

UPLIFT: $313(8') - .6(6.5'(12)^{PSF} + 15^{PSF}(8'))\ 2.75/2 = 2341$

USE: 1/2" COX P.W OR O.S.B. $N_{allow} = 380^{PLF}$
8d E.N. @ 4" o.c., F.N. @ 12"

USE: HDU2 @ 2ND FLOOR & GROUND FLOOR.

SILL FASTENING: $V = 1/2(1722) = 861\#$

$Z = 157$

$N = \frac{861}{157} = 5.5$ → Spacing: $\frac{2.75(12)}{5.5} = 6$

USE: 16d @ 6" o/c.

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Date: 11-21-09
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SHEAR WALLS (CONT.)

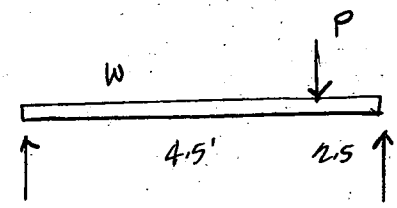
EAST/WALL : $L_W = 5'+5' = 10'$

$W_W = \frac{1040\#}{10'} = 104\#$ $\quad v_E = \frac{1722}{10'} = 172$ PLF

UPLIFT $= 172(8') - .6(6.5'(12)^{PSF} + 15^{PSF}(8'))5'/2 = 1079\#$

USE: 1/2" C.D.X. P.W OR O.S.B.
10d E.N. @ 6" O.C.

BEAM SUPPORTING DISCONTINUOUS WALL.



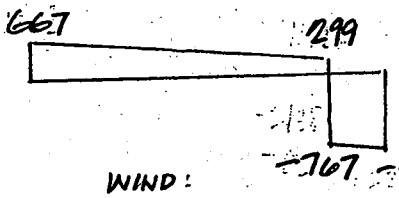
FLOOR LOAD: $W_D = 1.33(21.5) = 28.6$
$W_L = 1.33(40) = 53.2$

ROOF : $P_D = 12^{PSF}(5'+4.5') + 15^{PSF}(8') = 234\#$

WIND : $P_W = 104(8')\frac{5'}{5} = 832\#$ ↓↑

SEISMIC $\Omega_o P_E = 3.0(172)8' = 4128$ ↓

OR $\Omega_o P_E = (3)172(8') - .9(6.5(12)+15(8))5/2 = 3683$

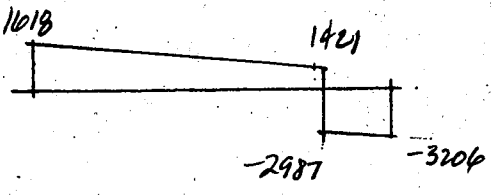


WIND : $R_L = 1/2(28.6+53.2)7 + (234+832)2.5/7$
$= 286 + 381 = 667\#$

$M_{max} = \left(\frac{667+299}{2}\right)4.5' = 2174\#$ OR $R_L = .6\left(28.6\left(\frac{7}{2}\right)\right) - 832(2.5/7) = -197$

$R_R = -474$

SEISMIC $R_L = 1/2(1.2(28.6)+53.2) + (1.2(234)+4128)2.5/7$ -3683
$= 438 + 1575 = 1618$



OR $R_L = .9\left(28.6\left(\frac{7}{2}\right)\right) - 3683(2.5/7) = -1226$

$R_R = -2278$

SEISMIC

$M_{max} = \left(\frac{1618+1421}{2}\right)4.5 = 6838\#$

FOR 3 1/2 x 14.00 PSL $F_b = 1.33(2000) = 2660$

$S_x = 3.5(14)^2/6 = 114.3$

$f_b = \frac{6838(12)}{114.3} = 718$ PSI OK

USE: 3 1/2 x 14.00 PSL.
HU416 HANGER.
HDU2 @ FLT.

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SHEAR WALL

1ST FLOOR: NORTH WALL

WIND: 4161 ← governs

SEISMIC: $.7\left(\frac{10040}{2}\right) = 3514$

$L_w = 35'$

$v_w = \frac{4161}{35} = 119$ PLF

USE: 1/2" or 3/8" P.W. w/ 10d E.N. or 8d EN @ 6"

UPLIFT O.K. BY INSPECTION

SOUTH WALL.

$V = 1/2\,(4161) = 2081$ #.

USE SIMPSON SSW32X9

FOOTING $M = 2081\,(8') = 16,648$

$A_s = \frac{16.6^{kf}(12)}{(1.33)24(.9)\,20"} = .35$ $A_{s\,min} = .003\ 16(20) = .96$

USE (4) #5 TOP & BTM.

EAST & WEST WALLS.

$V = 6163$ $L_w = 22'$

$v_w = \frac{6163}{22} = 280$

USE 1/2" C.D.X P.W. 10d @ 6" o/c.

UPLIFT $= 280\,(9') - .6\,(17'(15)^{psf} + 9.5'(12)^{psf} + 12(21.5))\,\frac{22}{2} = -199$

NO UPLIFT.

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ROOF DIAPHRAGM: V = 1722 #.

$v_d = \frac{1722\#}{22'} = 78.3$ PLF

USE: 1/2" PLYWOOD OR O.S.B.
W/ 10d B.N. & E.N. @ 6" o/c
10d F.N. @ 12" o/c.
NO BLOCKING REQUIRED.

$v_{allow} = 190$ PLF

FLOOR DIAPHRAGM. $V_w = 1/2(6163) = 3082\#$ ←

$V_E = \frac{.70(.164(43,244)\#)}{2} = 2331\#$

$v_d = \frac{3082\#}{22'} = 141$ PLF

USE: 5/8" C.D.X. PLYWOOD OR O.S.B.
W/ 10d B.N. & E.N. @ 6" o/c
10d F.N. @ 10" o.c.
NO BLOCKING - EXCEPT @ EAST WALL.

EAST WALL $v_d = \frac{3082\#}{6+6} = 257$

USE: BLOCKING @ PLYWOOD JOINTS BETWEEN (4) LVL's & EXT. WALL.

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Date: 11-21-09
Job No.
By: MDF
Page: 13

NEW ADDITION:

LATERAL FORCE TO EXISTING WALL:

WIND: $V = 13.7^{PSF}(4'+2')\left(\frac{30+17}{2}\right) = 1932^{\#}$ governs

USE: SIMPSON SW 32x8

EPOXY 7/8"ϕ ANCHORS W/ SIMPSON SET ADHESIVE

EMBED 7 3/8 INTO CONC. ICC ESR-1772

LATERAL FORCE TO OUTSIDE WALL:

WEST WALL. $V = 1/2(17')\ 13.7^{PSF}(4'+2') = 699^{\#}$

$L_W = 4.5'$

$v_w = \frac{699}{4.5} = 155$ USE: 1/2 CDX P.W. OR O.S.B.
W/ 10d E.N. @ 6" o/c.
10d F.N. @ 12" o/c.

UPLIFT: $155(8') - .6(4'(12)^{PSF} + 8'(15)^{PSF})\ 4.5'/2 = 1012$

USE: HPAHD22

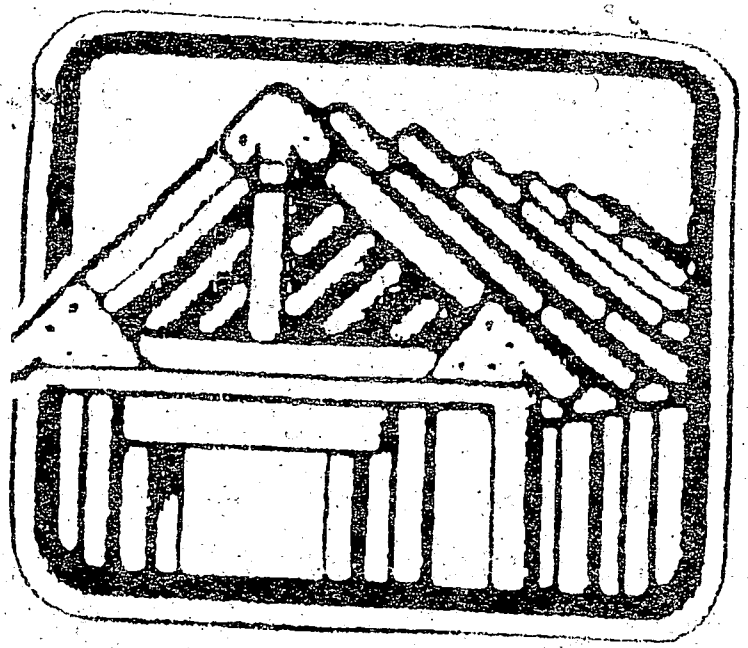
SOUTH WALL. $V = 1/2(11)\ 13.7(4'+2') = 452.1$

$L_W = 3.5'$

$v_w = \frac{452.1}{3.5} = 129$ USE: 1/2" P.W. OR O.S.B.
W/ 10d E.N. @ 6" o/c.

UPLIFT: $129(8') - .6(48+120)\ 3.5'/2 = 856^{\#}$

USE: HPAHD22

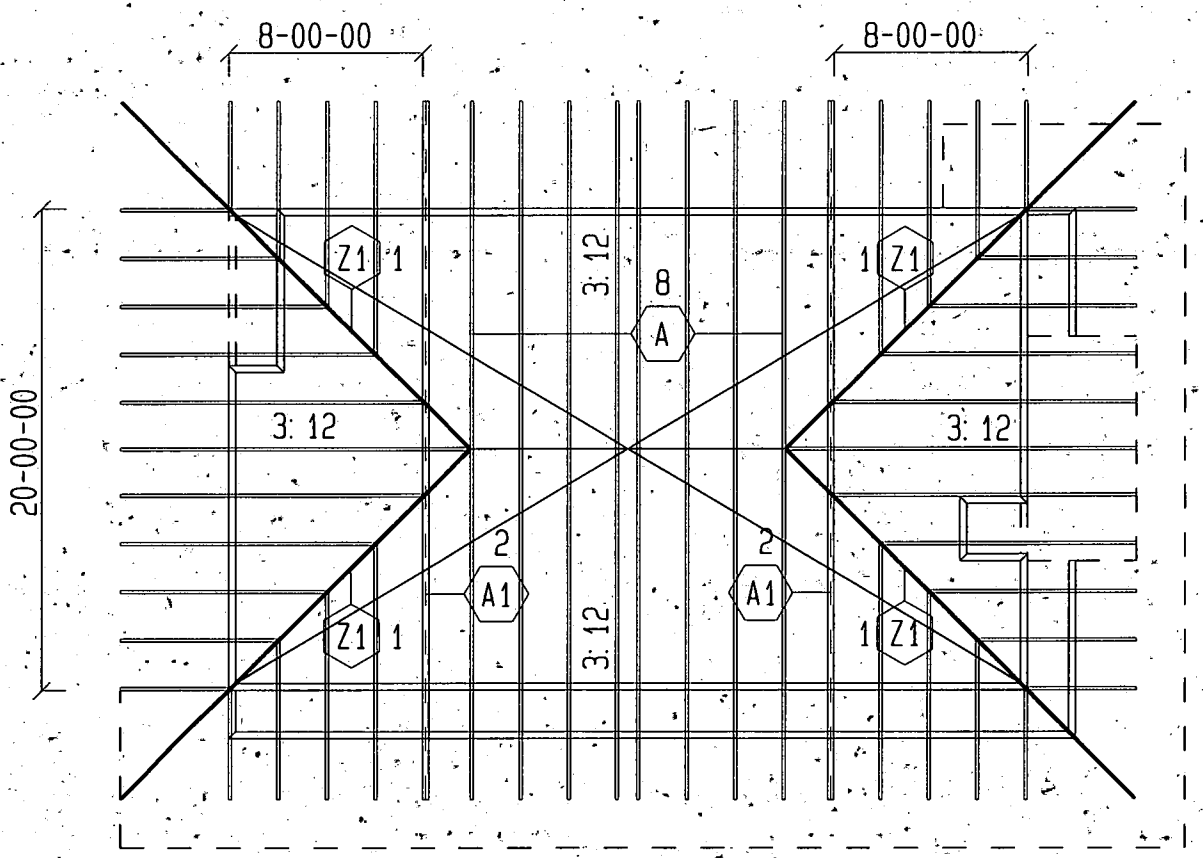


WEST COAST TRUSS CRL0002

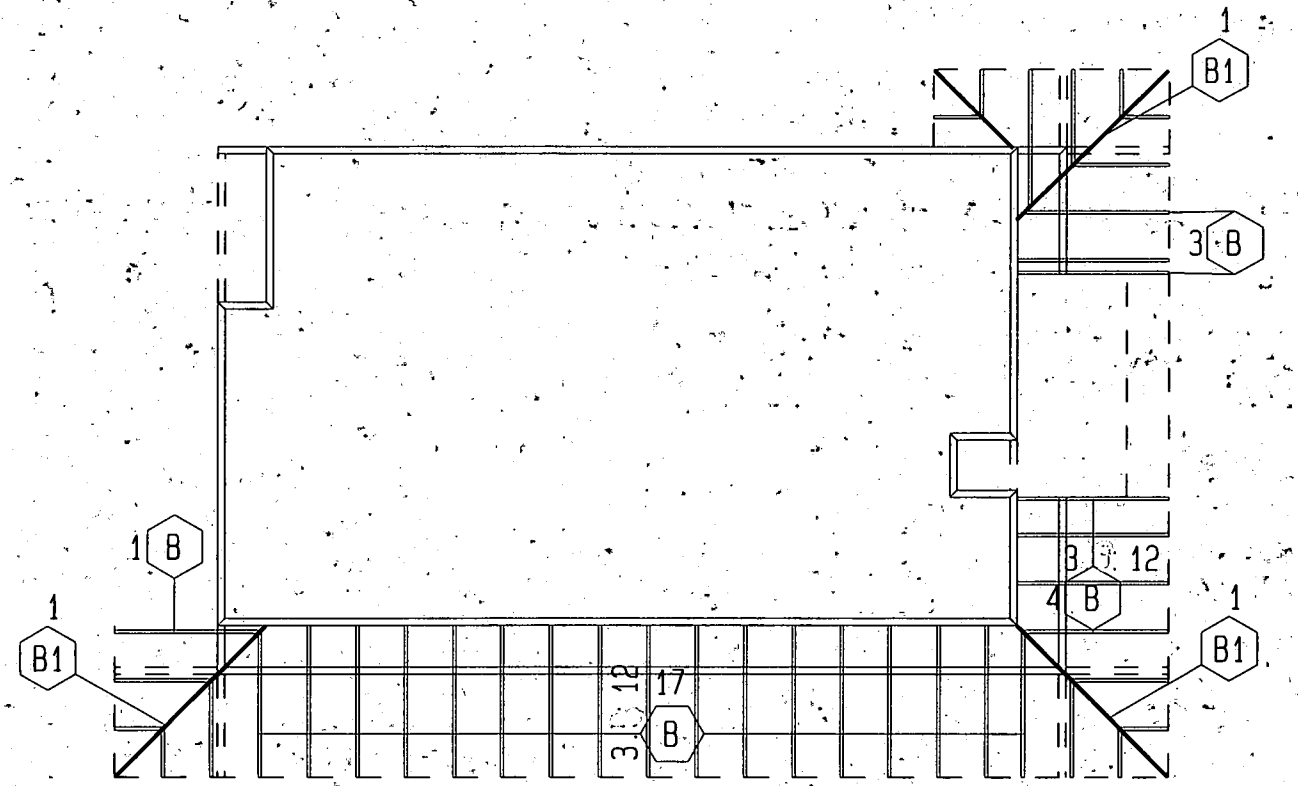
JOB # 05948

JOB NAME: SECHREST RES.

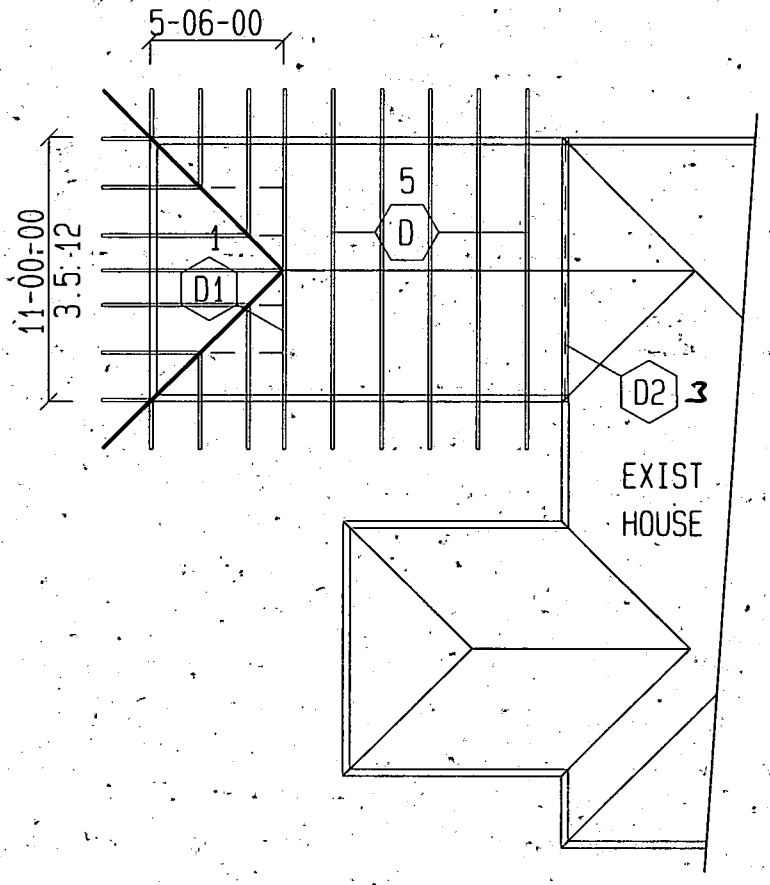
NOTE:
APPROVAL FOR TRUSS LAYOUT ONLY. LAYOUT CONFORMS WITH STRUCTURAL DESIGN OF ROOF. DESIGN OF TRUSS MEMBERS & COMPONENTS ARE BY OTHERS.



JOB:	#05948
LOAD:	TILE
PITCH:	3: 12
D/B:	E.J.L.
DATE:	12/22/09
SCALE:	1/8=1-0
TAILS:	54"



JOB: #05948
LOWER FLOOR
LOAD: TILE
PITCH: 3 : 12
D/B: E.J.L.
DATE: 12/22/09
SCALE: 1/8=1-0
TAILS: 54"



JOB: #05948
ROOM ADD
LOAD: TILE
PITCH: 3.5:12
D/B: E.J.L.
DATE: 12/23/09
SCALE: 1/8=1-0
TAILS: 24"

LUMBER SPECIFICATIONS
TC: 2x4 DF #1&BTR;
2x4 DF #2 T2
BC: 2x4 DF #2
WEBS: 2x4 DF STUD

TC LATERAL SUPPORT <= 12"OC. UON.
BC LATERAL SUPPORT <= 12"OC. UON.

==========
NOTE: 2x4 BRACING AT 24"OC UON. FOR ALL FLAT TOP CHORD AREAS NOT SHEATHED
==========

OVERHANGS: 54.0" 54.0"

Connector plate prefix designators:
C,CN,C18,CN18 (or no prefix) = CompuTrus, Inc
M,M20HS,M18HS,M16 = MiTek MT series

20-00-00 HIP SETBACK 8-00-00 FROM END WALL
LOAD DURATION INCREASE = 1.25 (Non-Rep)

LOADING

TC UNIF LL(	40.0)+DL(	28.0)=	68.0 PLF	0'-	0.0" TO	8'-	0.0" V
TC UNIF LL(	100.0)+DL(	70.0)=	170.0 PLF	8'-	0.0" TO	12'-	0.0" V
TC UNIF LL(	40.0)+DL(	28.0)=	68.0 PLF	12'-	0.0" TO	20'-	0.0" V
BC UNIF LL(	0.0)+DL(	25.0)=	25.0 PLF	0'-	0.0" TO	20'-	0.0" V

TC CONC LL(373.3)+DL(261.3)= 634.7 LBS @ 8'- 0.0"
TC CONC LL(373.3)+DL(261.3)= 634.7 LBS @ 12'- 0.0"

BOTTOM CHORD CHECKED FOR 10PSF LIVE LOAD. TOP
AND BOTTOM CHORD LIVE LOADS ACT NON-CONCURRENTLY.

(2) complete trusses required.
Join together 2 ply with 16d Common nails staggered at
12" oc throughout 2x4 top chords,
12" oc throughout 2x4 bottom chords,
12" oc throughout webs.

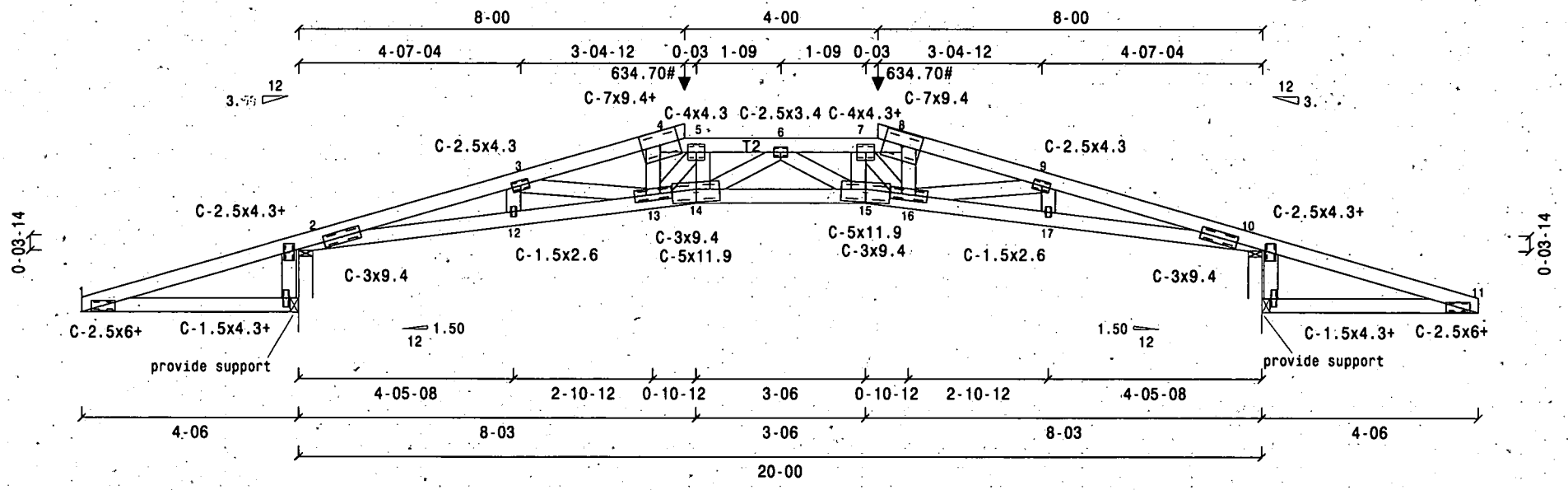
CBC2007/IBC2006 MAX MEMBER FORCES 4WR/GDF/Cq=1.25 TCM

1- 2=	-30)	84	2-12=(-414)	7532	12- 3=	-44)	106	9-17=(-44)	106		
2- 3=(-7900)	444	12-13=(-424)	7550	3-13=	-330)	1606					
3- 4=(-8932)	704	13-14=(-852)	10010	13- 4=	-98)	1482					
4- 5=(-8518)	674	14-15=(-918)	10216	13- 5=(-2356)	284						
5- 6=(-9928)	844	15-16=(-852)	10010	14- 5=	-128)	1500					
6- 7=(-9928)	844	16-17=(-424)	7550	14- 6=	-336)	86					
7- 8=(-8518)	674	17-10=(-414)	7532	6-15=	-338)	86					
8- 9=(-8932)	704			15- 7=	-128)	1500					
9-10=(-7900)	444			7-16=(-2356)	284						
10-11=(-30)	84			8-16=	-98)	1482					
				16- 9=	-330)	1606					

BEARING LOCATIONS	MAX VERT REACTIONS	MAX HORZ REACTIONS	BRG SIZE	REQUIRED BRG AREA SQ.IN.	(SPECIES)
0'- 0.0"	-196/ 2075V	-83/ 83H	3.50"	3.32	DF (625)
20'- 0.0"	-196/ 2075V	-83/ 83H	3.50"	3.32	DF (625)

Wind: 90 mph, h=15ft, TCDL=8.4,BCDL=3.0, ASCE 7-05,
Enclosed, Cat.2, Exp.C, MWFRS,
interior zone, load duration factor=1.6

Max CSI: TC:0.83 BC:0.96 Web:0.25



JOB NAME: 05948-A1

Scale: 0.3062

Truss: A1

DES. BY: EE
DATE: 12/23/2009
SEQ.: 4453875
TRANS ID: 276120

WARNINGS:
1. Builder and erection contractor should be advised of all General Notes and Warnings before construction commences.
2. 2x4 compression web bracing must be installed where shown +.
3. All lateral force resisting elements such as temporary and permanent stability bracing must be designed by designer of complete structure. CompuTrus assumes no responsibility for such bracing.
4. No load should be applied to any component until after all bracing and fasteners are complete and at no time should any loads greater than design loads be applied to any component.
5. CompuTrus has no control over and assumes no responsibility for the fabrication, handling, shipment and installation of components.
6. This design is furnished subject to the limitations set forth by TPI/WTCA in BCSI, copies of which will be furnished upon request.

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GENERAL NOTES, unless otherwise noted:
1. This truss design is adequate for the design parameters shown. Review and approval is the responsibility of the building designer, not the truss designer or truss engineer.
2. Design assumes the top and bottom chords to be laterally braced at 2' o.c. and at 10' o.c. respectively unless braced throughout their length by continuous sheathing such as plywood sheathing(TC) and/or drywall(BC).
3. 2x Impact bridging or lateral bracing required where shown + +
4. Installation of truss is the responsibility of the respective contractor.
5. Design assumes trusses are to be used in a non-corrosive environment, and are for "dry condition" of use.
6. Design assumes full bearing at all supports shown. Shim or wedge if necessary.
7. Design assumes adequate drainage is provided.
8. Plates shall be located on both faces of truss, and placed so their center lines coincide with joint center lines.
9. Digits indicate size of plate in inches.
10. For basic connector plate design values see ESR-2529 (CompuTrus) and/or ESR-1311, ESR-1988 (MiTek).

REGISTERED PROFESSIONAL ENGINEER
SCOTT R. CARROLL
29017
EXP. 3/31/11
12/22/09
CIVIL ENGINEER
STATE OF CALIFORNIA

LUMBER SPECIFICATIONS
TC: 2x4 DF #2
BC: 2x4 DF #2
WEBS: 2x4 DF STUD

TC LATERAL SUPPORT <= 12"OC. UON.
BC LATERAL SUPPORT <= 12"OC. UON.

Connector plate prefix designators:
C,CN,C18,CN18 (or no prefix) = CompuTrus, Inc
M,M20HS,M18HS,M16 = MiTek MT series

TRUSS SPAN 29'- 0.0"
LOAD DURATION INCREASE = 1.25
SPACED 24.0" O.C.

LOADING
LL(20.0)+DL(14.0) ON TOP CHORD = 34.0 PSF
DL ON BOTTOM CHORD = 5.0 PSF
TOTAL LOAD.= 39.0 PSF.

BOTTOM CHORD CHECKED FOR 10PSF LIVE LOAD. TOP AND BOTTOM CHORD LIVE LOADS ACT NON-CONCURRENTLY.

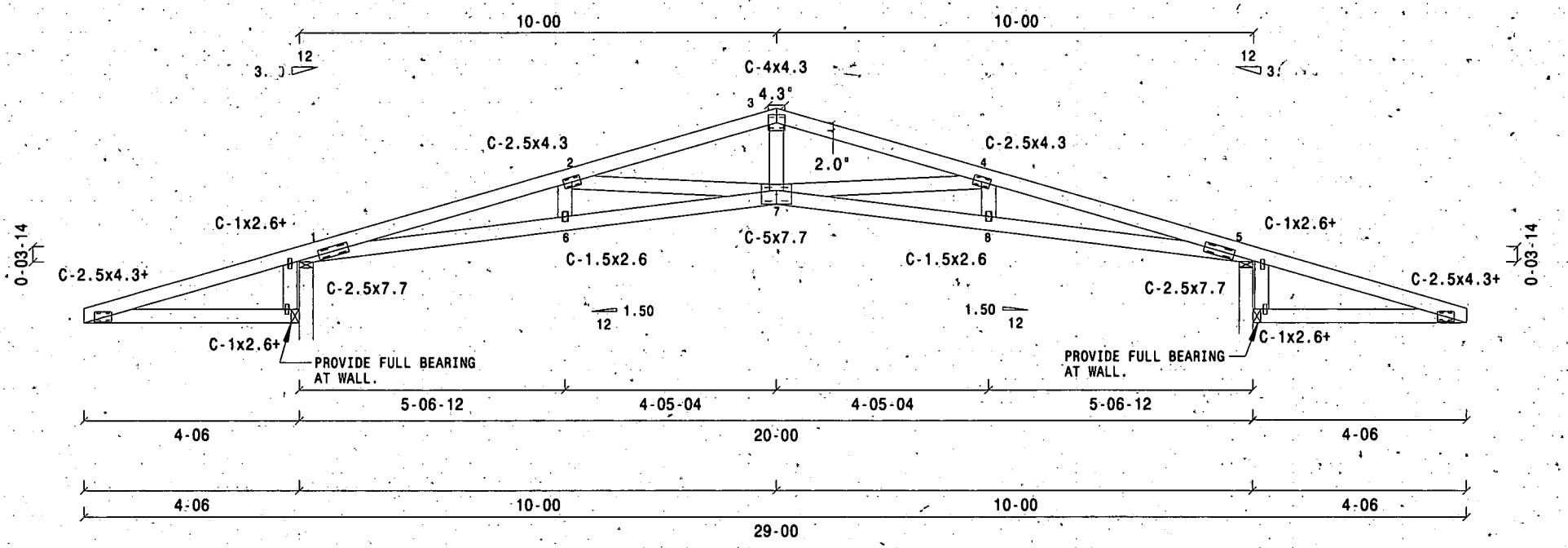
CBC2007/IBC2006 MAX MEMBER FORCES 4WR/GDF/Cq=1.25 TCM

1- 2=(-3131) 19	1- 6=(-16) 2966	6- 2=(0) 150
2- 3=(-2262) 17	6- 7=(-20) 2969	2- 7=(-819) 25
3- 4=(-2262) 17	7- 8=(-20) 2969	7- 3=(0) 991
4- 5=(-3131) 19	8- 5=(-16) 2966	7- 4=(-819) 25
		4- 8=(0) 150

BEARING LOCATIONS	MAX VERT REACTIONS	MAX HORZ REACTIONS	BRG SIZE	REQUIRED BRG AREA SQ.IN.	(SPECIES)
0'- 0.0"	-4/ 780V	-65/ 65H	3.50"	1.25	DF (625)
20'- 0.0"	-4/ 780V	-65/ 65H	3.50"	1.25	DF (625)

Wind: 85 mph, h=15ft, TCDL=8.4,BCDL=3.0, ASCE 7-05, Enclosed, Cat.2, Exp.C, MWFRS, interior zone, load duration factor=1.6

Max CSI: TC:0.59 BC:0.66 Web:0.33



JOB NAME: 05948-A

Scale: 0:3063

Truss: A

DES. BY: BS
DATE: 12/30/2009
SEQ.: 4456689
TRANS ID: 276342

WARNINGS:
1. Builder and erection contractor should be advised of all General Notes and Warnings before construction commences.
2. 2x4 compression web bracing must be installed where shown +.
3. All lateral force resisting elements such as temporary and permanent stability bracing must be designed by designer of complete structure. CompuTrus assumes no responsibility for such bracing.
4. No load should be applied to any component until after all bracing and fasteners are complete and at no time should any loads greater than design loads be applied to any component.
5. CompuTrus has no control over and assumes no responsibility for the fabrication, handling, shipment and installation of components.
6. This design is furnished subject to the limitations set forth by TPI/WTCA in BCSI, copies of which will be furnished upon request.

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GENERAL NOTES, unless otherwise noted:
1. This truss design is adequate for the design parameters shown. Review and approval is the responsibility of the building designer, not the truss designer or truss engineer.
2. Design assumes the top and bottom chords to be laterally braced at 2' o.c. and at 10' o.c. respectively unless braced throughout their length by continuous sheathing such as plywood sheathing(TC) and/or drywall(BC).
3. 2x Impact bridging or lateral bracing required where shown + +
4. Installation of truss is the responsibility of the respective contractor.
5. Design assumes trusses are to be used in a non-corrosive environment, and are for "dry condition" of use.
6. Design assumes full bearing at all supports shown. Shim or wedge if necessary.
7. Design assumes adequate drainage is provided.
8. Plates shall be located on both faces of truss, and placed so their center lines coincide with joint center lines.
9. Digits indicate size of plate in inches.
10. For basic connector plate design values see ESR-2529 (CompuTrus) and/or ESR-1311, ESR-1988 (MiTek).

REGISTERED PROFESSIONAL ENGINEER
SCOTT R. CARROLL
No. 29017
EXP. 3/31/11
12/30/09
CIVIL ENGINEER
STATE OF CALIFORNIA

LUMBER SPECIFICATIONS
TC: 2x4 DF #2
BC: 2x4 DF #2
WEBS: 2x4 DF STUD

TC LATERAL SUPPORT <= 12"OC. UON.
BC LATERAL SUPPORT <= 12"OC. UON.

Connector plate prefix designators:
C,CN,C18,CN18 (or no prefix) = CompuTrus, Inc
M,M20HS,M18HS,M16 = MiTek MT series

11-00-12 CORNER GIRDER BC SETBACK 7-09-14 FROM END WALL
LOAD DURATION INCREASE = 1.25 (Non-Rep)

LOADING
TC UNIF LL(40.0)+DL(28.0)= 68.0 PLF 0'- 0.0" TO 11'- 0.8" I
BC UNIF LL(70.6)+DL(77.1)= 147.7 PLF 0'- 0.0" TO 11'- 0.8" I

BOTTOM CHORD CHECKED FOR 10PSF LIVE LOAD. TOP
AND BOTTOM CHORD LIVE LOADS ACT NON-CONCURRENTLY.

CBC2007/IBC2006 MAX MEMBER FORCES 4WR/GDF/Cq=1.25 TCM

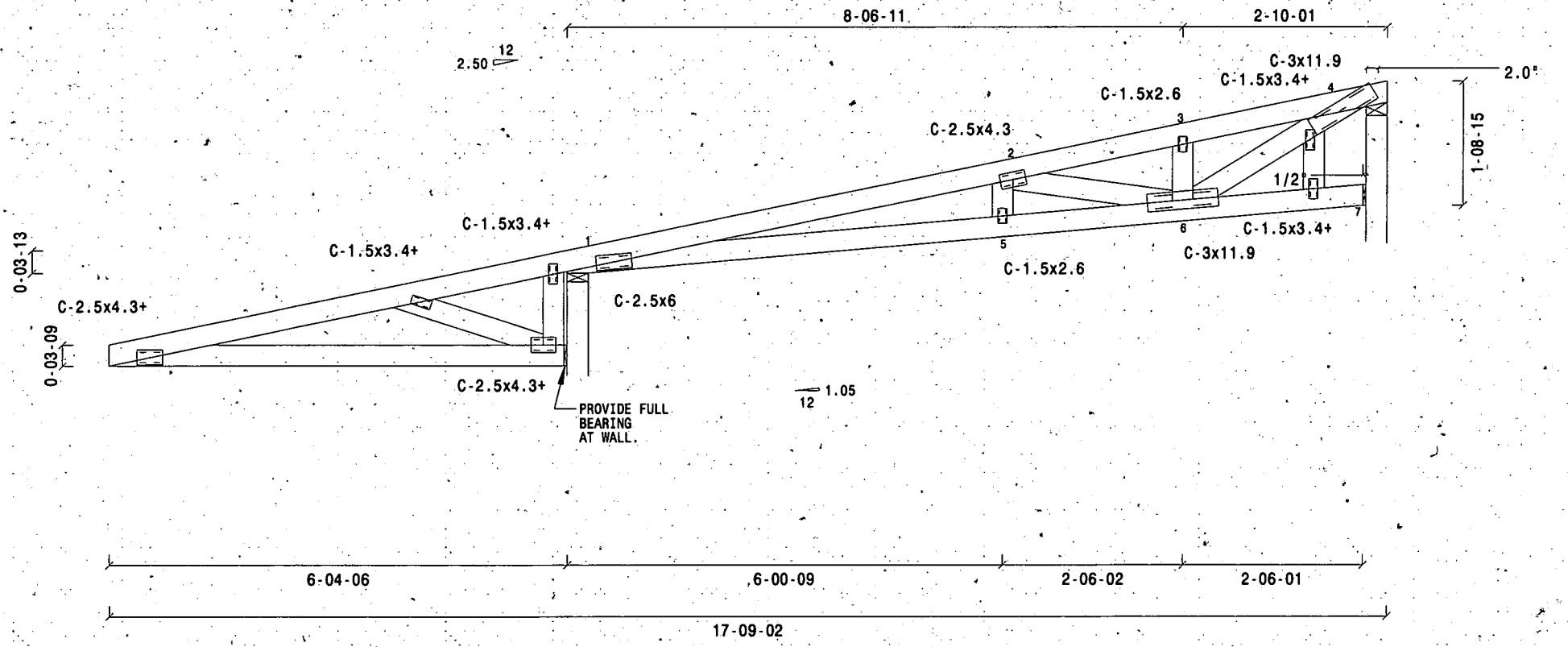
1-2=(-2242)	455	1-5=(-433)	2202	5-2=(0)	304
2-3=(-1344)	207	5-6=(-437)	2158	2-6=(-855)	261
3-4=(-1343)	203	6-7=(0)	0	3-6=(-129)	37
				6-4=(-222)	1618

BEARING LOCATIONS	MAX VERT REACTIONS	MAX HORZ REACTIONS	BRG SIZE	REQUIRED BRG AREA SQ.IN.	(SPECIES)
0'- 0.0"	-130/ 420V	-66/ 24H	3.50"	0.67	DF (625)
11'- 4.7"	-147/ 783V	-66/ 24H	3.50"	1.25	DF (625)

Wind: 85 mph, h=15ft, TCDL=8.4,BCDL=3.0, ASCE 7-05,
Enclosed, Cat.2, Exp.C, MWFRS,
interior zone, load duration factor=1.6

Max CSI: TC:0.33 BC:0.77 Web:0.50

M-2.5x4 or equal at non-structural diagonal inlets.



JOB NAME: 05948-Z1 Scale: 0.4674

Truss: Z1
DES. BY: BS
DATE: 12/30/2009
SEQ.: 4456688
TRANS ID: 276342

WARNINGS:
1. Builder and erection contractor should be advised of all General Notes and Warnings before construction commences.
2. 2x4 compression web bracing must be installed where shown +.
3. All lateral force resisting elements such as temporary and permanent stability bracing must be designed by designer of complete structure. CompuTrus assumes no responsibility for such bracing.
4. No load should be applied to any component until after all bracing and fasteners are complete and at no time should any loads greater than design loads be applied to any component.
5. CompuTrus has no control over and assumes no responsibility for the fabrication, handling, shipment and installation of components.
6. This design is furnished subject to the limitations set forth by TPI/WTCA in BCSI, copies of which will be furnished upon request.

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GENERAL NOTES, unless otherwise noted:
1. This truss design is adequate for the design parameters shown. Review and approval is the responsibility of the building designer, not the truss designer or truss engineer.
2. Design assumes the top and bottom chords to be laterally braced at 2' o.c. and at 10' o.c. respectively unless braced throughout their length by continuous sheathing such as plywood sheathing(TC) and/or drywall(BC).
3. 2x Impact bridging or lateral bracing required where shown + +
4. Installation of truss is the responsibility of the respective contractor.
5. Design assumes trusses are to be used in a non-corrosive environment, and are for "dry condition" of use.
6. Design assumes full bearing at all supports shown. Shim or wedge if necessary.
7. Design assumes adequate drainage is provided.
8. Plates shall be located on both faces of truss, and placed so their center lines coincide with joint center lines.
9. Digits indicate size of plate in inches.
10. For basic connector plate design values see ESR-2529 (CompuTrus) and/or ESR-1311, ESR-1988 (MiTek).

REGISTERED PROFESSIONAL ENGINEER
SCOTT R. CARROLL
No. 29017
EXP. 3/31/11
12/30/09
CIVIL ENGINEER
STATE OF CALIFORNIA

LUMBER SPECIFICATIONS
TC: 2x4 DF #2
BC: 2x4 DF #2
WEBS: 2x4 DF STUD

TC LATERAL SUPPORT <= 12"OC. UON.
BC LATERAL SUPPORT <= 12"OC. UON.

OVERHANGS: 0.0" 24.0"

Connector plate prefix designators:
C,CN,C18,CN18 (or no prefix) = CompuTrus, Inc
M,M20HS,M18HS,M16 = MiTek MT series

5-08-00 CORNER GIRDER BC SETBACK 4-00-01 FROM END WALL
LOAD DURATION INCREASE = 1.25 (Non-Rep)

LOADING
TC UNIF LL(40.0)+DL(28.0)= 68.0 PLF 0'- 0.0" TO 5'- 8.0" I
BC UNIF LL(16.7)+DL(25.8)= 42.5 PLF 0'- 0.0" TO 5'- 8.0" I

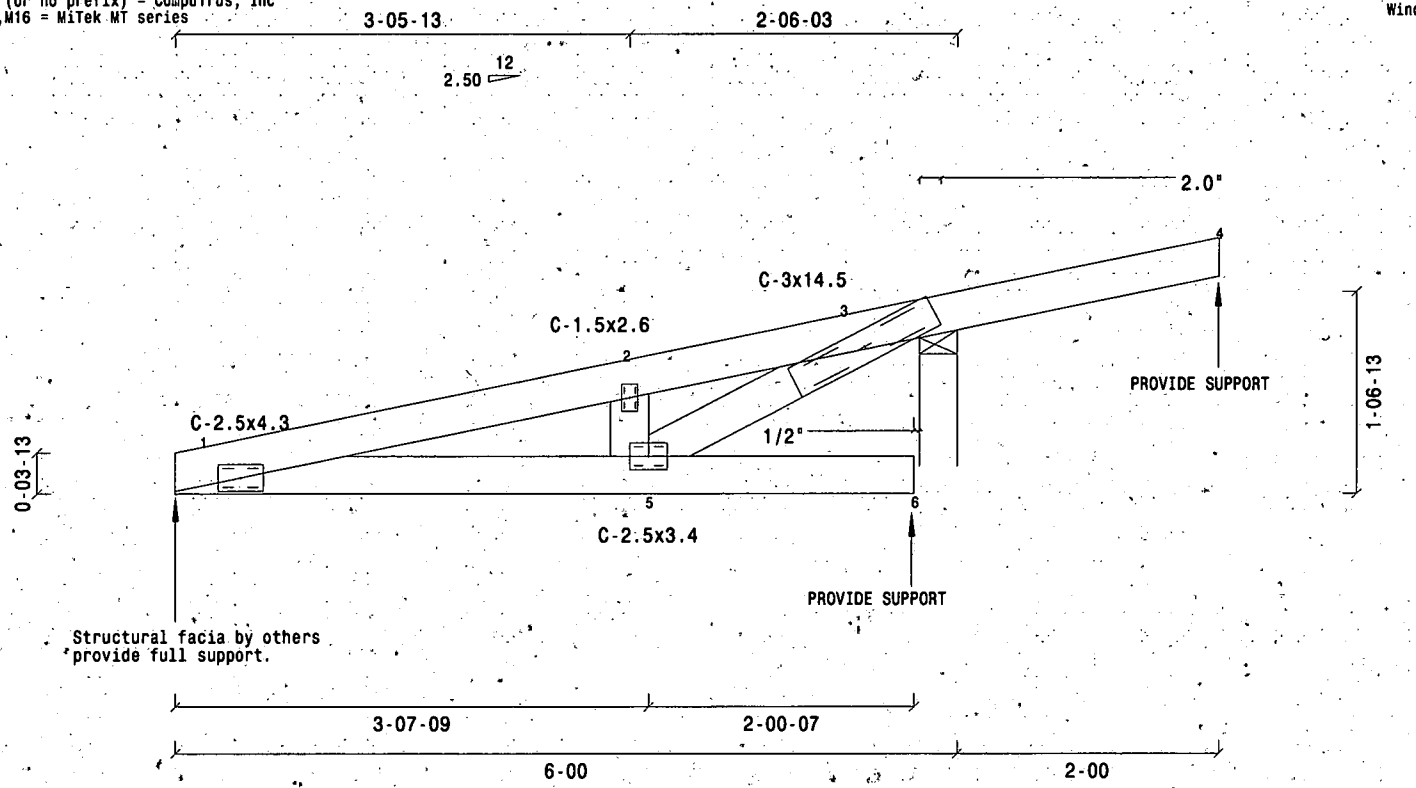
BOTTOM CHORD CHECKED FOR 10PSF LIVE LOAD. TOP
AND BOTTOM CHORD LIVE LOADS ACT NON-CONCURRENTLY.

CBC2007/IBC2006 MAX MEMBER FORCES 4WR/GDF/Cq=1.25 TCM
1-2=(-281) 89 1-5=(-78) 269 2-5=(-82) 79
2-3=(-263) 68 5-6=(0) 0 5-3=(-80) 310
3-4=(-59) 22

BEARING LOCATIONS	MAX VERT REACTIONS	MAX HORZ REACTIONS	BRG SIZE	REQUIRED BRG AREA SQ.IN.	(SPECIES)
0'- 0.0"	-62/ 113V	0/ 33H	2.50"	0.18	DF (625)
6'- 0.0"	-167/ 407V	0/ 33H	3.50"	0.59	DF (625)

Wind: 90 mph, h=15ft, TCDL=8.4,BCDL=3.0, ASCE 7-05,
Enclosed, Cat.2, Exp.C, MWFRS,
interior zone, load duration factor=1.6

Max CSI: TC:0.65 BC:0.14 Web:0.10



JOB NAME: 05948-B1

Scale: 0.6814

Truss: B1
DES. BY: EE
DATE: 12/23/2009
SEQ.: 4453878
TRANS ID: 276120

WARNINGS:
1. Builder and erection contractor should be advised of all General Notes and Warnings before construction commences.
2. 2x4 compression web bracing must be installed where shown +.
3. All lateral force resisting elements such as temporary and permanent stability bracing must be designed by designer of complete structure. CompuTrus assumes no responsibility for such bracing.
4. No load should be applied to any component until after all bracing and fasteners are complete and at no time should any loads greater than design loads be applied to any component.
5. CompuTrus has no control over and assumes no responsibility for the fabrication, handling, shipment and installation of components.
6. This design is furnished subject to the limitations set forth by TPI/WTCA in BCSI, copies of which will be furnished upon request.

CompuTrus, Inc. Software +7.5.2F(1L)-E

GENERAL NOTES, unless otherwise noted:
1. This truss design is adequate for the design parameters shown. Review and approval is the responsibility of the building designer, not the truss designer or truss engineer.
2. Design assumes the top and bottom chords to be laterally braced at 2' o.c. and at 10' o.c. respectively unless braced throughout their length by continuous sheathing such as plywood sheathing(TC) and/or drywall(BC).
3. 2x Impact bridging or lateral bracing required where shown + +
4. Installation of truss is the responsibility of the respective contractor.
5. Design assumes trusses are to be used in a non-corrosive environment, and are for "dry condition" of use.
6. Design assumes full bearing at all supports shown. Shim or wedge if necessary.
7. Design assumes adequate drainage is provided.
8. Plates shall be located on both faces of truss, and placed so their center lines coincide with joint center lines.
9. Digits indicate size of plate in inches.
10. For basic connector plate design values see ESR-2529 (CompuTrus) and/or ESR-1311, ESR-1988 (MiTek).

REGISTERED PROFESSIONAL ENGINEER
SCOTT R. CARROLL
No. 29017
EXP. 3/31/11
12/22/09
CIVIL ENGINEER
STATE OF CALIFORNIA

LUMBER SPECIFICATIONS
TC: 2x4 DF #2
BC: 2x4 DF #2
WEBS: 2x4 DF STUD

TC LATERAL SUPPORT <= 12"OC. UON.
BC LATERAL SUPPORT <= 12"OC. UON.

OVERHANGS: 0.0" 24.0"

Connector plate prefix designators:
C,CN,C18,CN18 (or no prefix) = CompuTrus, Inc
M,M20HS,M18HS,M16 = MiTek MT series

TRUSS SPAN 4'- 2.5"
LOAD DURATION INCREASE = 1.25
SPACED 24.0" O.C.

LOADING
LL(20.0)+DL(14.0) ON TOP CHORD = 34.0 PSF
DL ON BOTTOM CHORD = 5.0 PSF
TOTAL LOAD = 39.0 PSF

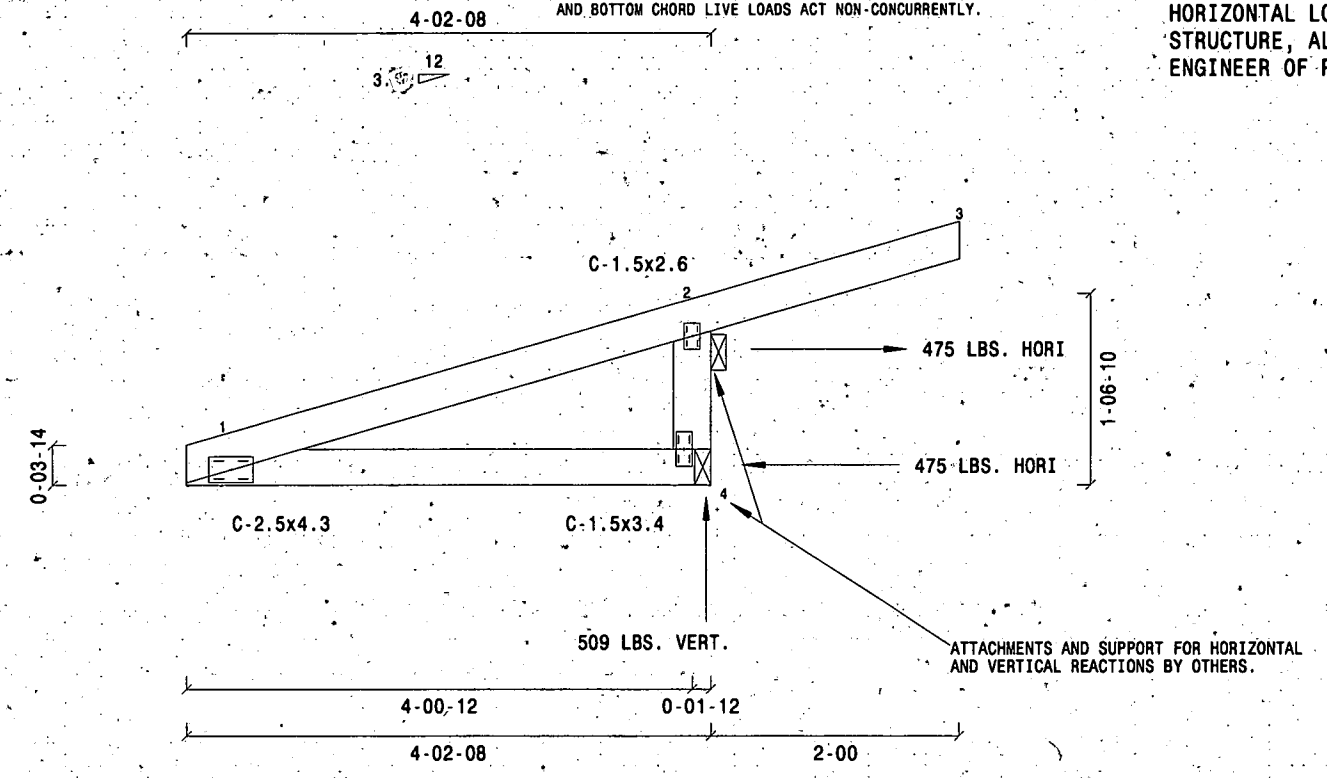
ADDL: TC CONC LL+DL= 475.0 LBS @ 4'- 2.5" H
ADDL: BC CONC LL+DL= -475.0 LBS @ 4'- 2.5" H

BOTTOM CHORD CHECKED FOR 10PSF LIVE LOAD. TOP AND BOTTOM CHORD LIVE LOADS ACT NON-CONCURRENTLY.

Max CSI: TC:0.50 BC:0.11 Web:0.09

Wind: 90 mph, h=15ft, TCDL=8.4,BCDL=3.0, ASCE 7-05, Enclosed, Cat.2, Exp.C, MWFRS, interior zone, load duration factor=1.6

COMPONENT DESIGN FOR VERTICAL GRAVITY LOADS ONLY. COMPUTRUS ASSUMES NO RESPONSIBILITY FOR; LATERAL DESIGN, CONNECTING OF COMPONENTS TO FORM THE STRUCTURAL SYSTEM, ATTACHMENT OF THE SYSTEM TO THE SUPPORT STRUCTURE FOR ALL IMPOSED VERTICAL AND HORIZONTAL LOADS, AND DESIGN OF THE SUPPORTING STRUCTURE, ALL OF WHICH ARE THE RESPONSIBILITY OF THE ENGINEER OF RECORD.



JOB NAME: 05948-B

Scale: 0.6525

Truss: B
DES. BY: EE
DATE: 12/23/2009
SEQ.: 4453877
TRANS ID: 276120

WARNINGS:
1. Builder and erection contractor should be advised of all General Notes and Warnings before construction commences.
2. 2x4 compression web bracing must be installed where shown +.
3. All lateral force resisting elements such as temporary and permanent stability bracing must be designed by designer of complete structure. CompuTrus assumes no responsibility for such bracing.
4. No load should be applied to any component until after all bracing and fasteners are complete and at no time should any loads greater than design loads be applied to any component.
5. CompuTrus has no control over and assumes no responsibility for the fabrication, handling, shipment and installation of components.
6. This design is furnished subject to the limitations set forth by TPI/WTCA in BCSI, copies of which will be furnished upon request.

CompuTrus, Inc. Software +7.5.2F(1L)-E

GENERAL NOTES, unless otherwise noted:
1. This truss design is adequate for the design parameters shown. Review and approval is the responsibility of the building designer, not the truss designer or truss engineer.
2. Design assumes the top and bottom chords to be laterally braced at 2' o.c. and at 10' o.c. respectively unless braced throughout their length by continuous sheathing such as plywood sheathing(TC) and/or drywall(BC).
3. 2x Impact bridging or lateral bracing required where shown + +
4. Installation of truss is the responsibility of the respective contractor.
5. Design assumes trusses are to be used in a non-corrosive environment, and are for "dry condition" of use.
6. Design assumes full bearing at all supports shown. Shim or wedge if necessary.
7. Design assumes adequate drainage is provided.
8. Plates shall be located on both faces of truss, and placed so their center lines coincide with joint center lines.
9. Digits indicate size of plate in inches.
10. For basic connector plate design values see ESR-2529 (CompuTrus) and/or ESR-1311, ESR-1988 (MiTek).

REGISTERED PROFESSIONAL ENGINEER
SCOTT R. CARROLL
No. 29017
EXP. 3/31/11
12/22/09
CIVIL ENGINEER
STATE OF CALIFORNIA

LUMBER SPECIFICATIONS
TC: 2x4 DF #2
BC: 2x4 DF #2
WEBS: 2x4 DF STUD

TC LATERAL SUPPORT <= 12"OC. UON.
BC LATERAL SUPPORT <= 12"OC. UON.

Connector plate prefix designators:
C,CN,C18,CN18 (or no prefix) = CompuTrus, Inc
M,M2OHS,M18HS,M16 = MiTek MT series

11-00-00 TERMINAL HIP SETBACK 5-06-00 FROM END WALL
LOAD DURATION INCREASE = 1.25 (Non-Rep)

LOADING
TC UNIF LL(40.0)+DL(28.0)= 68.0 PLF 0'- 0.0" TO 11'- 0.0" V
BC UNIF LL(0.0)+DL(18.8)= 18.8 PLF 0'- 0.0" TO 11'- 0.0" V

TC CONC LL(330.0)+DL(231.0)= 561.0 LBS @ 5'- 6.0"

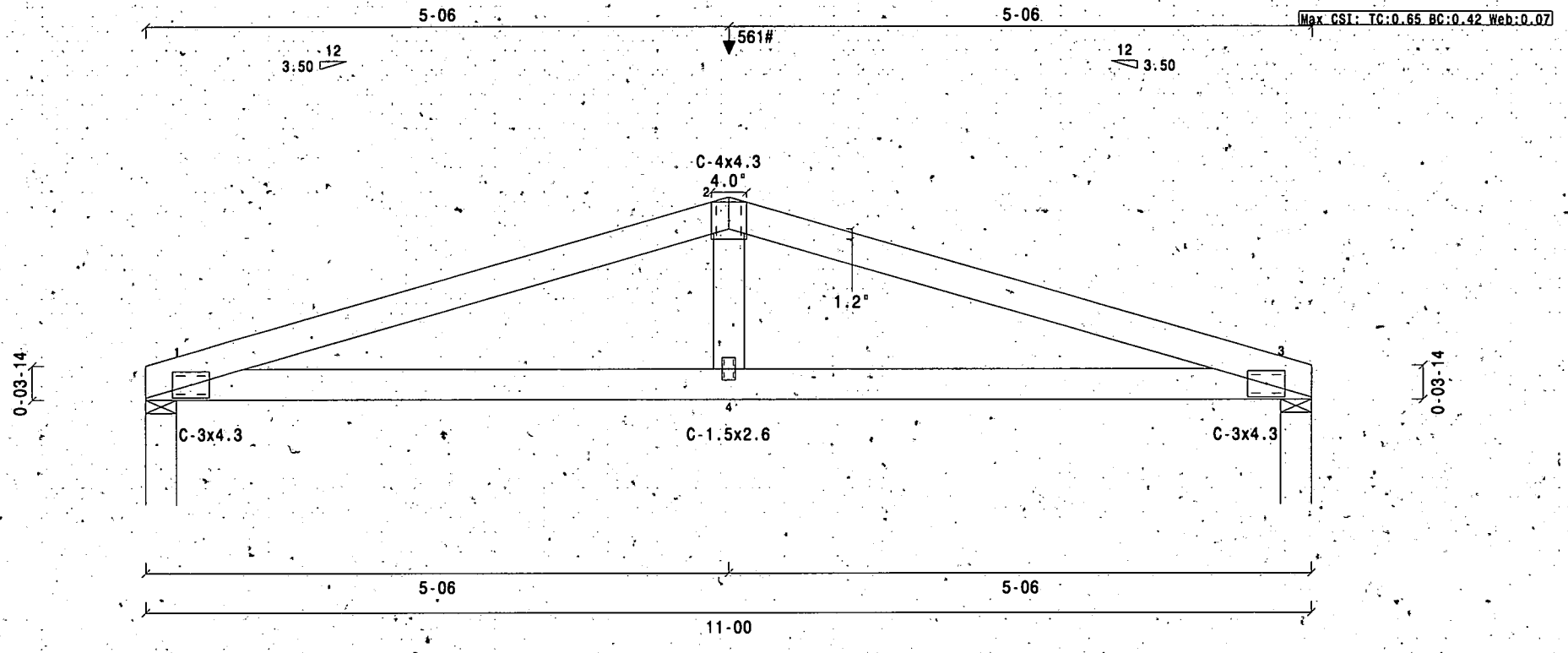
BOTTOM CHORD CHECKED FOR 10PSF LIVE LOAD. TOP
AND BOTTOM CHORD LIVE LOADS ACT NON-CONCURRENTLY.

CBC2007/IBC2006 MAX MEMBER FORCES 4WR/GDF/Cq=1.25 TCM
1-2=(-1758) 88 1-4=(-77) 1627 4-2=(0) 240
2-3=(-1758) 88 4-3=(-77) 1627

BEARING LOCATIONS	MAX VERT REACTIONS	MAX HORZ REACTIONS	BRG SIZE	REQUIRED BRG AREA SQ.IN. (SPECIES)
0'- 0.0"	-26/ 758V	-38/ 38H	3.50"	1.21 DF (625)
11'- 0.0"	-26/ 758V	-38/ 38H	3.50"	1.21 DF (625)

Wind: 90 mph, h=15ft, TCDL=8.4,BCDL=3.0, ASCE 7-05,
Enclosed, Cat.2, Exp.C, MWFRS,
interior zone, load duration factor=1.6

Max CSI: TC:0.65 BC:0.42 Web:0.07



JOB NAME: 05948-D1

Scale: 0.6569

Truss: D1
DES. BY: EE
DATE: 12/23/2009
SEQ.: 4453996
TRANS ID: 276134

WARNINGS:
1. Builder and erection contractor should be advised of all General Notes and Warnings before construction commences.
2. 2x4 compression web bracing must be installed where shown +.
3. All lateral force resisting elements such as temporary and permanent stability bracing must be designed by designer of complete structure. CompuTrus assumes no responsibility for such bracing.
4. No load should be applied to any component until after all bracing and fasteners are complete and at no time should any loads greater than design loads be applied to any component.
5. CompuTrus has no control over and assumes no responsibility for the fabrication, handling, shipment and installation of components.
6. This design is furnished subject to the limitations set forth by TPI/WTCA in BCSI, copies of which will be furnished upon request.

CompuTrus, Inc. Software +7.5.2F(1L)-F

GENERAL NOTES, unless otherwise noted:
1. This truss design is adequate for the design parameters shown. Review and approval is the responsibility of the building designer, not the truss designer or truss engineer.
2. Design assumes the top and bottom chords to be laterally braced at 2' o.c. and at 10' o.c. respectively unless braced throughout their length by continuous sheathing such as plywood sheathing(TC) and/or drywall(BC).
3. 2x Impact bridging or lateral bracing required where shown + +
4. Installation of truss is the responsibility of the respective contractor.
5. Design assumes trusses are to be used in a non-corrosive environment, and are for "dry condition" of use.
6. Design assumes full bearing at all supports shown. Shim or wedge if necessary.
7. Design assumes adequate drainage is provided.
8. Plates shall be located on both faces of truss, and placed so their center lines coincide with joint center lines.
9. Digits indicate size of plate in inches.
10. For basic connector plate design values see ESR-2529 (CompuTrus) and/or ESR-1311, ESR-1988 (MiTek).

REGISTERED PROFESSIONAL ENGINEER
JAMES C. KILTINEN
12/23/09
No. 33783
EXP. 6/30/10
CIVIL
STATE OF CALIFORNIA

LUMBER SPECIFICATIONS
TC: 2x4 DF #2
BC: 2x4 DF #2
WEBS: 2x4 DF STUD

TC LATERAL SUPPORT <= 12"OC. UON.
BC LATERAL SUPPORT <= 12"OC. UON.

Connector plate prefix designators:
C,CN,C18,CN18 (or no prefix) = CompuTrus, Inc
M,M20HS,M18HS,M16 = MiTek MT series

TRUSS SPAN 11'- 0.0"
LOAD DURATION INCREASE = 1.25
SPACED 24.0" O.C.

LOADING
LL(20.0)+DL(14.0) ON TOP CHORD = 34.0 PSF
DL ON BOTTOM CHORD = 5.0 PSF
TOTAL LOAD = 39.0 PSF

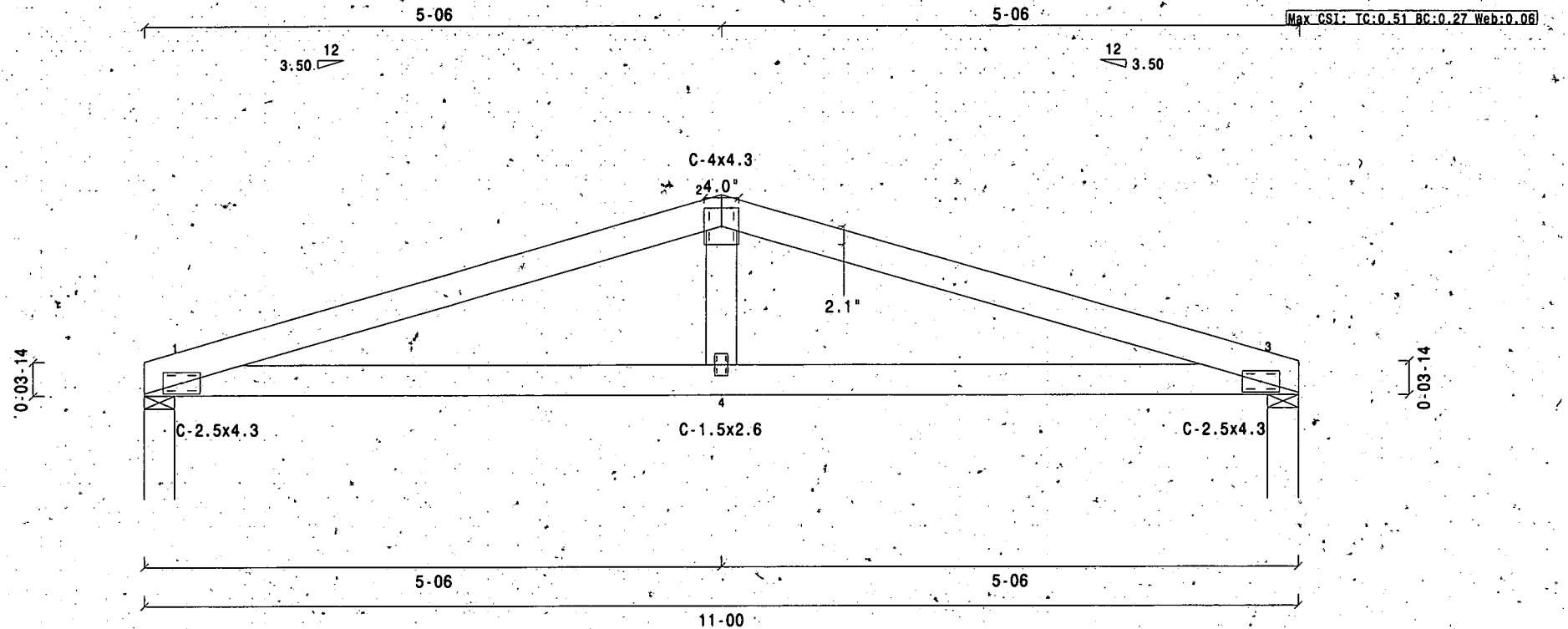
BOTTOM CHORD CHECKED FOR 10PSF LIVE LOAD. TOP AND BOTTOM CHORD LIVE LOADS ACT NON-CONCURRENTLY.

CBC2007/IBC2006 - MAX MEMBER FORCES - 4WR/GDF/Cq=1.25 TCM
1-2=(-742) 20 1-4=(-13) 657 4-2=(0) 188
2-3=(-742) 20 4-3=(-13) 657

BEARING LOCATIONS	MAX VERT REACTIONS	MAX HORZ REACTIONS	BRG SIZE	REQUIRED BRG AREA SQ.IN. , (SPECIES)
0'- 0.0"	-17/ 429V	-38/ 38H	3.50"	0.69 DF (625)
11'- 0.0"	-17/ 429V	-38/ 38H	3.50"	0.69 DF (625)

Wind: 90 mph, h=15ft, TCDL=8.4,BCDL=3.0, ASCE 7-05, Enclosed, Cat.2, Exp.C, MWFRS, interior zone, load duration factor=1.6

Max CSI: TC:0.51 BC:0.27 Web:0.06



JOB NAME: 05948-D

Scale: 0.6569

Truss: D
DES. BY: EE
DATE: 12/23/2009
SEQ.: 4453997
TRANS ID: 276134

WARNINGS:
1. Builder and erection contractor should be advised of all General Notes and Warnings before construction commences.
2. 2x4 compression web bracing must be installed where shown +.
3. All lateral force resisting elements such as temporary and permanent stability bracing must be designed by designer of complete structure. CompuTrus assumes no responsibility for such bracing.
4. No load should be applied to any component until after all bracing and fasteners are complete and at no time should any loads greater than design loads be applied to any component.
5. CompuTrus has no control over and assumes no responsibility for the fabrication, handling, shipment and installation of components.
6. This design is furnished subject to the limitations set forth by TPI/WTCA in BCSI, copies of which will be furnished upon request.

CompuTrus, Inc. Software +7.5.2F(1L)-F

GENERAL NOTES, unless otherwise noted:
1. This truss design is adequate for the design parameters shown. Review and approval is the responsibility of the building designer, not the truss designer or truss engineer.
2. Design assumes the top and bottom chords to be laterally braced at 2' o.c. and at 10' o.c. respectively unless braced throughout their length by continuous sheathing such as plywood sheathing(TC) and/or drywall(BC).
3. 2x Impact bridging or lateral bracing required where shown + +
4. Installation of truss is the responsibility of the respective contractor.
5. Design assumes trusses are to be used in a non-corrosive environment, and are for "dry condition" of use.
6. Design assumes full bearing at all supports shown. Shim or wedge if necessary.
7. Design assumes adequate drainage is provided.
8. Plates shall be located on both faces of truss, and placed so their center lines coincide with joint center lines.
9. Digits indicate size of plate in inches.
10. For basic connector plate design values see ESR-2529 (CompuTrus) and/or ESR-1311, ESR-1988 (MiTek).

REGISTERED PROFESSIONAL ENGINEER
JAMES C. KILTINEN
12/23/09
No. 33783
EXP. 6/30/10
CIVIL
STATE OF CALIFORNIA

LUMBER SPECIFICATIONS
TC: 2x4 DF #2
BC: 2x8 DF #1&BTR
WEBS: 2x4 DF STUD

TC LATERAL SUPPORT <= 12"OC. UON.
BC LATERAL SUPPORT <= 12"OC. UON.

Connector plate prefix designators:
C,CN,C18,CN18 (or no prefix) = CompuTrus, Inc
M,M20HS,M18HS,M16 = MiTek MT series

(3) complete trusses required.
Join together 3 ply with 16d Common nails staggered at
12" oc throughout 2x4 top chords,
3" oc throughout 2x8 bottom chords,
12" oc throughout webs.

11-00-00 GIRDER SUPPORTING 40-00-00 FROM 0-00-00 TO 2-10-08
LOAD DURATION INCREASE = 1.25 (Non-Rep)

LOADING
TC UNIF LL(40.0)+DL(28.0)= 68.0 PLF 0'- 0.0" TO 11'- 0.0" V
BC UNIF LL(361.0)+DL(371.0)= 732.0 PLF 0'- 0.0" TO 2'- 10.5" V
BC UNIF LL(0.0)+DL(10.0)= 10.0 PLF 2'- 10.5" TO 11'- 0.0" V
ADDL: BC UNIF LL+DL= 60.0 PLF 2'- 10.5" TO 11'- 0.0" V

ADDL: BC CONC LL+DL= 4500.0 LBS @ 2'- 10.5"

BOTTOM CHORD CHECKED FOR 10PSF LIVE LOAD. TOP AND BOTTOM CHORD LIVE LOADS ACT NON-CONCURRENTLY.

** HANGER TO APPLY CONC. LOADS AS GIVEN LOAD(S) TO ALL MEMBERS.

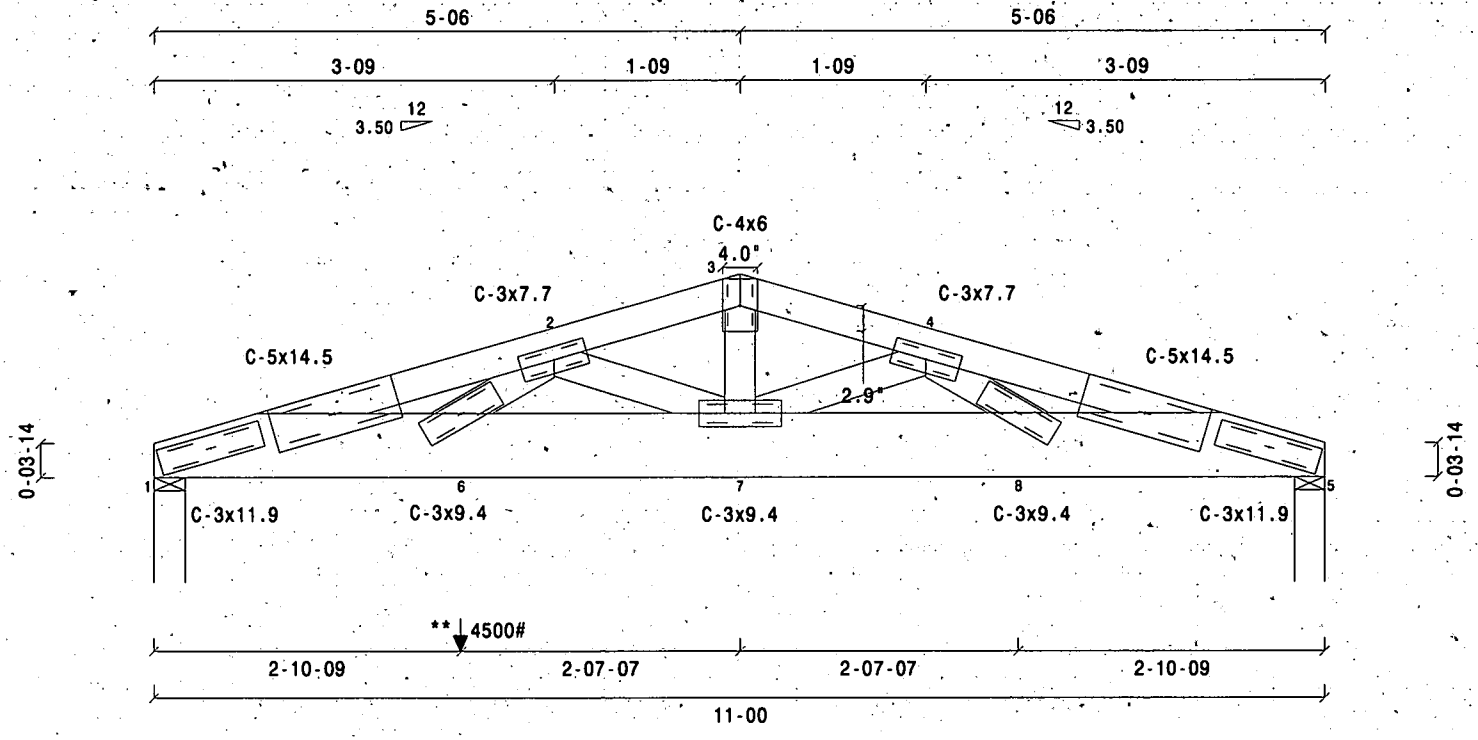
CBC2007/IBC2006 MAX MEMBER FORCES 4WR/GDF/Cq=1.25 TCM

1-	2=(-12501)	456	1-	6=(-435)	11994	6-	2=(-171)	4437
2-	3=(-6123)	246	6-	7=(-345)	9084	2-	7=(-3606)	150
3-	4=(-6150)	246	7-	8=(-294)	5586	7-	3=(-111)	3144
4-	5=(-5298)	279	8-	5=(-258)	5070	7-	4=(-918)	399
						4-	8=(-786)	825

BEARING LOCATIONS	MAX VERT REACTIONS	MAX HORZ REACTIONS	BRG SIZE	REQUIRED BRG AREA SQ.IN.	(SPECIES)
0'- 0.0"	-202/ 5831V	-35/ 35H	3.50"	9.33	DF (625)
11'- 0.0"	-142/ 2450V	-35/ 35H	3.50"	3.92	DF (625)

Wind: 90 mph, h=15ft, TCDL=8.4,BCDL=3.0, ASCE 7-05, Enclosed, Cat.2, Exp.C, MWFRS, interior zone, load duration factor=1.6

Max CSI: TC:0.40 BC:0.99 Web:0.46



JOB NAME: 05948-D2

Scale: 0.5569

Truss: D2
DES. BY: EE
DATE: 12/23/2009
SEQ.: 4453995
TRANS ID: 276134

WARNINGS:
1. Builder and erection contractor should be advised of all General Notes and Warnings before construction commences.
2. 2x4 compression web bracing must be installed where shown +.
3. All lateral force resisting elements such as temporary and permanent stability bracing must be designed by designer of complete structure. CompuTrus assumes no responsibility for such bracing.
4. No load should be applied to any component until after all bracing and fasteners are complete and at no time should any loads greater than design loads be applied to any component.
5. CompuTrus has no control over and assumes no responsibility for the fabrication, handling, shipment and installation of components.
6. This design is furnished subject to the limitations set forth by TPI/WTCA in BCSI, copies of which will be furnished upon request.

CompuTrus, Inc. Software +7.5.2F(1L)-E

GENERAL NOTES, unless otherwise noted:
1. This truss design is adequate for the design parameters shown. Review and approval is the responsibility of the building designer, not the truss designer or truss engineer.
2. Design assumes the top and bottom chords to be laterally braced at 2' o.c. and at 10' o.c. respectively unless braced throughout their length by continuous sheathing such as plywood sheathing(TC) and/or drywall(BC).
3. 2x Impact bridging or lateral bracing required where shown + +
4. Installation of truss is the responsibility of the respective contractor.
5. Design assumes trusses are to be used in a non-corrosive environment, and are for "dry condition" of use.
6. Design assumes full bearing at all supports shown. Shim or wedge if necessary.
7. Design assumes adequate drainage is provided.
8. Plates shall be located on both faces of truss, and placed so their center lines coincide with joint center lines.
9. Digits indicate size of plate in inches.
10. For basic connector plate design values see ESR-2529 (CompuTrus) and/or ESR-1311, ESR-1988 (MiTek).

REGISTERED PROFESSIONAL ENGINEER
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12/23/09
No. 33783
EXP. 6/30/10
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STATE OF CALIFORNIA

LEGACY REPORT

ER-4211

Reissued February 1, 2005

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Regional Office ■ 4051 West Flossmoor Road, Country Club Hills, Illinois 60478 ■ (708) 799-2305

Legacy report on the 1997 *Uniform Building Code*™

DIVISION: 06—WOOD AND PLASTICS
Section: 06175—Truss Plates

COMPUTRUS TRUSS PLATES

COMPUTRUS, INC.
31945 CORYDON ROAD
LAKE ELSINORE, CALIFORNIA 92530

1.0 SUBJECT

CompuTrus Truss Plates for Wood Trusses.

2.0 DESCRIPTION

2.1 General:

The CompuTrus Truss Plates are flat steel plates designed to connect wood truss members. The plates are manufactured from galvanized steel and come in various lengths and widths, and have integral teeth that are designed to laterally transmit load between truss wood members. Plans and calculations must be submitted to the building official for trusses using truss plates described in this report.

2.2 Materials:

The CompuTrus truss plates are punched from No. 18 gage [0.0454 inch (1.15 mm) base metal thickness] and No. 20 gage [0.0375 inch (0.95 mm) base metal thickness] G60-galvanized sheet steel complying with the mechanical requirements established in ASTM A 653 SQ Grade 33 or higher.

Each plate has 9.4 teeth per square inch of plate; each tooth is approximately $^1/_3$ inch (8.5 mm) long and approximately 0.106 inch (2.7 mm) wide. The teeth are punched in pairs, with each pair spaced $^1/_4$ inch (6.4 mm) on center along the width of the plate, and 0.85 inch (21.6 mm) on center along the length. Alternating rows of teeth are staggered 0.10 inch (2.5 mm) from adjacent rows. The "CN" series plates are identical to the "C" series plates, except that every third row of teeth is omitted. Plates are 0.85 inch (21.6 mm) in length, and are available in widths of up to 12 inches (305 mm), in $^1/_2$-inch (12.7 mm) increments, as required by design. The plates are applied to truss members in pairs, with one plate on each face of each joint, using a power press constructed in accordance with the manufacturer's specifications. See Figure 4 for details of plate dimensions.

2.3 Allowable Loads:

Tables 1, 2 and 3 provide allowable lateral loads, tension loads and shear loads, respectively, for the CompuTrus truss plates. These values are based on the National Design Standard for Metal Plate Connected Wood Truss Construction, ANSI/TPI 1-1995. A copy of the ANSI/TPI 1-1995 standard must be supplied to the building department when this is requested by the building official.

2.3.1 Lateral Resistance: Each CompuTrus truss plate must be designed to transfer the required load without exceeding the allowable load per square inch of plate contact area, based on species, on the orientation of the teeth relative to the load, and on the direction of load relative to grain. Design for lateral resistance must be in accordance with Section 11.2.1 of ANSI/TPI 1-1995. Table 1 provides allowable lateral loads for the truss plates.

2.3.2 Tension Resistance: Each CompuTrus truss plate must be designed for tension capacity, based on the orientation of the truss plate relative to the direction of load. Design for tension must be in accordance with Section 11.2.2 of ANSI/TPI 1-1995. Table 2 shows allowable tension loads for the truss plates. Additionally, the net section of the truss plates for tension joints must be designed using the allowable tensile stress of the metal, adjusted by the truss plate tensile effectiveness ratios shown in Table 2.

2.3.3 Shear Resistance: Each CompuTrus truss plate must be designed for shear capacity, based on the orientation of the plate relative to all possible lines of shear. Design for shear must be in accordance with Section 11.2.3 of ANSI/TPI 1-1995. Table 3 shows allowable shear loads for the truss plates. Additionally, the net section of the truss plates for heel joints and other joints involving shear must be designed using the allowable shear values for the truss plates, adjusted by the shear resistance effectiveness ratios shown in Table 3.

2.3.4 Metal Plate Reductions: Several allowable-load reduction factors for the metal plates, when they are applicable, must be considered cumulatively in the design of truss plates used in fabricated wood trusses:

1. Allowable lateral resistance values for the CompuTrus truss plates must be reduced by a strength reduction factor, Q_R, shown in Table 4, when the plates are installed in lumber by means of a single-pass, full-embedment roller system having minimum roller diameters equal to 18 inches (457 mm). This reduction does not apply to embedment hydraulic-platen presses, multiple roller presses that use partial embedment followed by full-embedment rollers, or combinations of partial embedment roller presses and hydraulic-platen presses that feed trusses into a stationary finish roller press. When trusses are fabricated with single-pass roller presses, the calculations for the truss design submitted to the building

department for approval must specify the minimum diameter of the roller press and the appropriate strength reduction factor from this report.

2. Allowable lateral resistance values for the CompuTrus truss plates must be reduced by 15 percent when the plates are installed on the narrow face of truss lumber members.
3. Allowable lateral resistance values must be reduced by 20 percent when the CompuTrus truss plates are installed in lumber having a moisture content greater than 19 percent at the time of truss fabrication.
4. Allowable lateral resistance values for CompuTrus truss plates installed at the heel joint of a fabricated wood truss must be reduced by the heel-joint reduction factor, H_R, as follows:

$$H_R = 0.85 - 0.05(12 \tan \theta - 2.0)$$

where:

$0.65 \le H_R \le 0.85$

θ = Angle between lines of action of the top and bottom chords (shown in Figure 3).

Where the top chord slopes are greater than 12:12 (100% slope), this heel-joint reduction factor is not applied.

2.3.5 Combined Shear and Tension: Each CompuTrus truss plate must be designed for combined shear and tension capacity, based on the orientation of the truss plate relative to the directions of loading. Design for combined shear and tension must be in accordance with Section 11.2.4 of ANSI/TPI 1-1995.

2.3.6 Combined Flexure and Axial Loading: Truss plates designed for axial forces are only permitted as splices in the top and bottom chord when the splices are within 12 inches (305 mm) of the calculated point of zero moment. Design of truss plates at splices in the top and bottom chord that are not placed within 12 inches (305 mm) of the calculated point of zero moment must include combined flexure and axial stresses.

2.4 Truss Design:

Plans and calculations must be submitted to the building official for the trusses using truss plates described in this report. The truss design must show compliance with the code and accepted engineering principles. Allowable loads for the truss plates may be increased for duration of load in accordance with the code. Calculations must specify the deflection ratio or the maximum deflection for live and total load. For each truss design drawing, the following information, at a minimum, should be specified by the design engineer:

1. Truss span, spacing, and slope or depth.
2. Dimensioned location of truss joints.
3. Model, size and dimensioned location of truss plates at each joint.
4. Truss chord and web lumber size, species, and grade.
5. Required bearing widths at truss supports.
6. Top and bottom chord live and dead loads, concentrated loads and their locations, and controlling wind or earthquake loads.
7. Design calculations conforming to ANSI/TPI 1-1995 and any adjustments to lumber and truss plate allowable values for conditions of use.

2.5 Truss Fabrication:

Plate connectors shall be installed by an approved truss fabricator that has an approved quality assurance program covering the wood truss manufacturing and inspection process in accordance with Sections 2304.4.4 and 2321.3 of the code and Section 4 of ANSI/TPI 1-1995. The allowable loads recognized in this report are for plates that are pressed into wood truss members using hydraulic or pneumatic embedment presses; multiple roller presses that use partial embedment followed by full-embedment rollers; or combinations of partial embedment roller presses and hydraulic-platen presses that feed trusses into a stationary finish roller press or, if the adjustment factors given in Table 4 are used, single-pass roller presses.

When truss fabricators use single-pass roller presses, the rollers must have minimum-18-inch (457 mm) diameters. Plates embedded with a single-pass, full-embedment roller press must be preset, before passing through the roller press, by striking at least two opposite corners of each plate with a hammer.

2.6 Identification:

The CompuTrus "C" Series plates are embossed with the designation "C-20" or "C-18," for the No. 20 gage or No. 18 gage plates, respectively. For the "CN" series, the No. 20 gage plate is identified by the designation "CN-20" embossed on the plate, and the No. 18 gage plate is identified by the designation "CN-18."

3.0 EVIDENCE SUBMITTED

Test data in accordance with National Design Standard for Metal Plate Connected Wood Truss Construction, ANSI/TPI 1-1995; and a quality control manual.

4.0 FINDINGS

That the CompuTrus Truss Plates for Wood Trusses described in this report comply with the 1997 *Uniform Building Code*™ (UBC), subject to the following conditions:

4.1 Plans and calculations are submitted to the building official for the trusses using truss plates described in this report.

4.2 The truss plates are designed to transfer the required loads using the design formulae in ANSI/TPI 1-1995. A copy of the ANSI/TPI 1-1995 standard must be supplied to the building department when this is requested by the building official.

4.3 The allowable loads for the truss plates comply with this evaluation report.

4.4 Truss plates are not permitted to be placed where knots occur in connected wood truss members.

4.5 Truss plates are installed in pairs on opposite faces of truss members.

4.6 Trusses using truss plates described in this report must be fabricated by a truss fabricator approved by the building official, in accordance with Sections 2304.4.4 and 2321.3 of the UBC.

4.7 Allowable loads shown in the tables of this report may be increased for duration of load in accordance with the UBC.

4.8 Overpressed truss plates are not permitted. Overpressed plates occur when the truss plate is embedded into the lumber more than one-half the plate metal thickness.

4.9 Allowable loads shown in the tables of this report are not applicable to truss plates embedded in lumber treated with fire-resistive chemicals.

4.10 When a one-hour fire-resistive rating is required for trusses using CompuTrus plates, see evaluation report ESR-1338.

This report is subject to re-examination in two years.

TABLE 1—ALLOWABLE LATERAL RESISTANCE VALUES FOR THE COMPUTRUS TRUSS PLATES[1,2]

PLATE MODEL	LUMBER SPECIES		DIRECTION OF GRAIN AND LOAD WITH RESPECT TO LENGTH OF PLATE			
			AA	EA	AE	EE
	Species	Specific Gravity	Allowable Load Per Plate[3] (pounds per square inch of plate contact area)			
C-20 and C-18	Southern yellow pine	0.55	206	151	113	108
	Douglas fir-larch	0.49	206	151	113	108
	Hem-fir	0.43	161	137	110	104
	Spruce-pine-fir	0.42	161	137	110	104
CN-20 and CN-18	Southern yellow pine	0.55	132	118	102	113
	Douglas fir-larch	0.49	132	118	102	113
	Hem-fir	0.43	106	109	114	114
	Spruce-pine-fir	0.42	106	109	114	114

For **SI:** 1 lb./inch^2 = 6.89 kPa.

[1]See Figure 1 for a description of plate orientation.

[2]Values are determined using the gross area method.

[3]Truss plates are installed in pairs on opposite faces of truss members.

TABLE 2—ALLOWABLE TENSION VALUES AND TENSION EFFICIENCY RATIOS FOR COMPUTRUS TRUSS PLATES[1]

PLATE MODEL	DIRECTION OF LOAD WITH RESPECT TO LENGTH OF PLATE[2]			
	0°	90°	0°	90°
	Allowable Tension Load (pounds per lineal inch per pair of plates)		Tension Load Efficiency Ratio	
C-20	1,310	942	0.63	0.46
CN-20	1,514	937	0.75	0.46
C-18	1,619	1,080	0.62	0.42
CN-18	1,859	1,220	0.73	0.48

For **SI:** 1 lbf/inch = 0.175 N/mm.

[1]See Figure 2 for a description of plate orientation.

[2]The length of plate refers to the dimension of the longitudinal axis of the area of the plate from which the plate teeth were sheared during plate fabrication.

TABLE 3—ALLOWABLE SHEAR VALUES AND SHEAR EFFICIENCY RATIOS FOR COMPUTRUS TRUSS PLATES

PLATE MODEL	DIRECTION OF LOAD WITH RESPECT TO LENGTH OF PLATE											
	0°	30°	60°	90°	120°	150°	0°	30°	60°	90°	120°	150°
	Allowable Shear Load (pounds per lineal inch per pair of plates)						Shear Load Efficiency Ratio					
C-20	609	720	1,106	801	423	506	0.49	0.59	0.91	0.66	0.35	0.42
CN-20	610	696	1,045	738	587	486	0.50	0.57	0.86	0.61	0.48	0.40
C-18	702	732	1,241	1,041	565	578	0.45	0.46	0.79	0.66	0.36	0.37
CN-18	647	787	809	860	703	508	0.42	0.51	0.52	0.55	0.45	0.33

For **SI:** 1 lbf/inch = 0.175 N/mm.

TABLE 4—ALLOWABLE LATERAL LOAD ADJUSTMENT FACTOR, Q_R, FOR COMPUTRUS TRUSS PLATES INSTALLED WITH MINIMUM-18-INCH-DIAMETER SINGLE-PASS ROLLER PRESSES

PLATE MODEL	LUMBER SPECIES SPECIFIC GRAVITY[1]	Q_R
C-20 and C-18	0.49	0.96
	0.50	0.96
CN-20 and CN-18	0.49	0.87
	0.50	0.87

[1]The Q_R values corresponding to the value "0.49," above, apply to all wood species combinations having an average published specific gravity of 0.49 or lower; the Q_R values corresponding to the value "0.50" apply to all wood species combinations having an average published specific gravity of 0.50 or higher. The Q_R values shall be applied to all plate/wood orientations described in Figure 1.

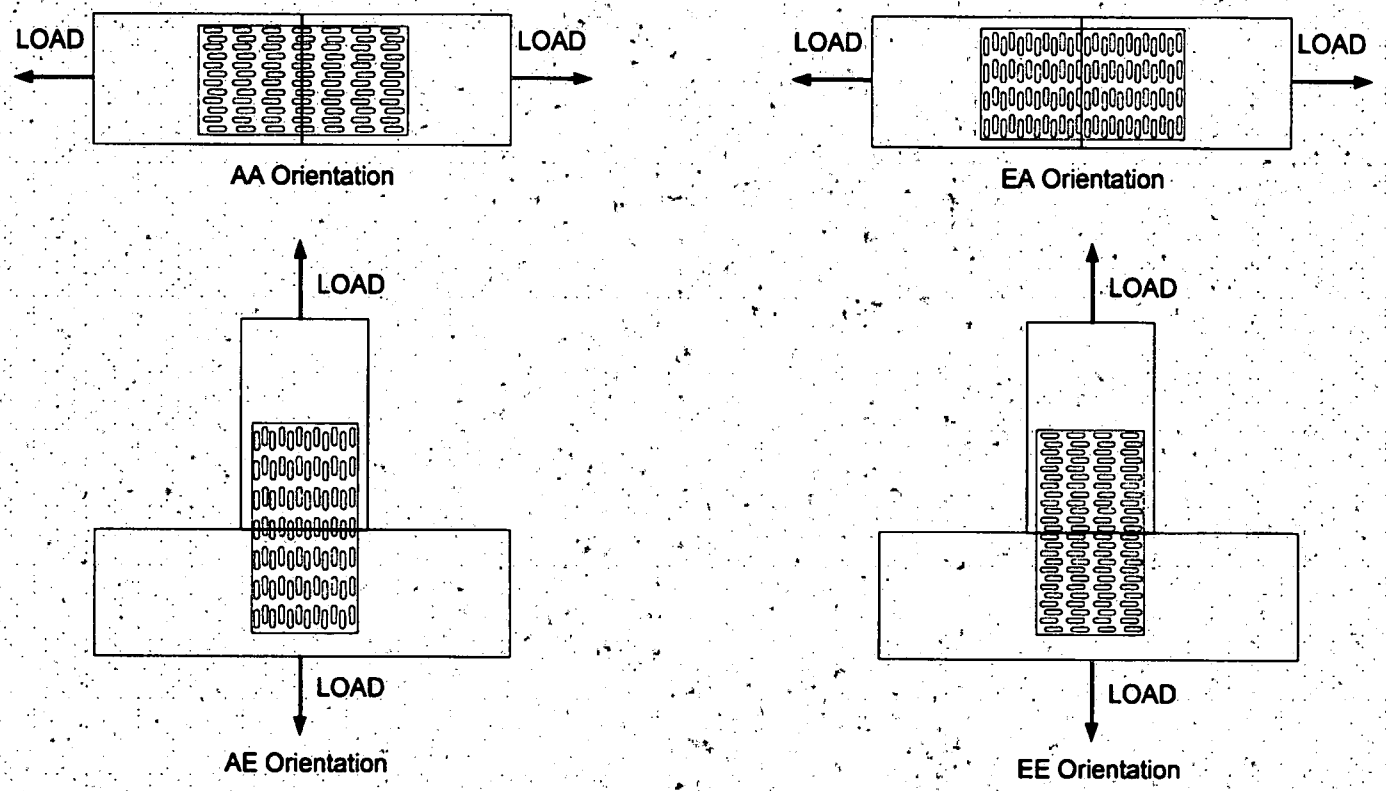


FIGURE 1—PLATE ORIENTATION FOR LATERAL RESISTANCE VALUES

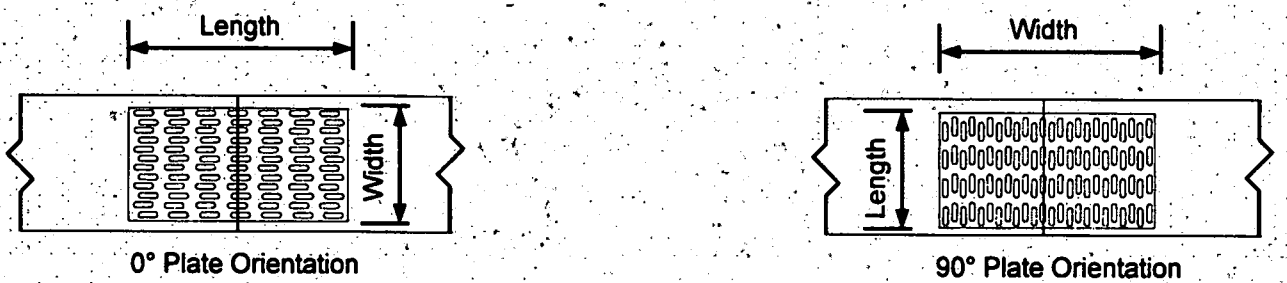


FIGURE 2—PLATE ORIENTATION FOR TENSION VALUES

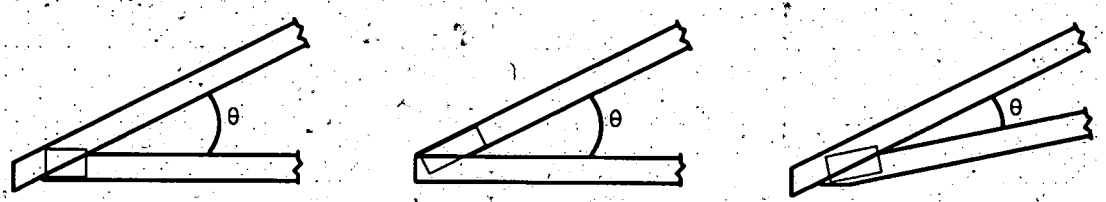
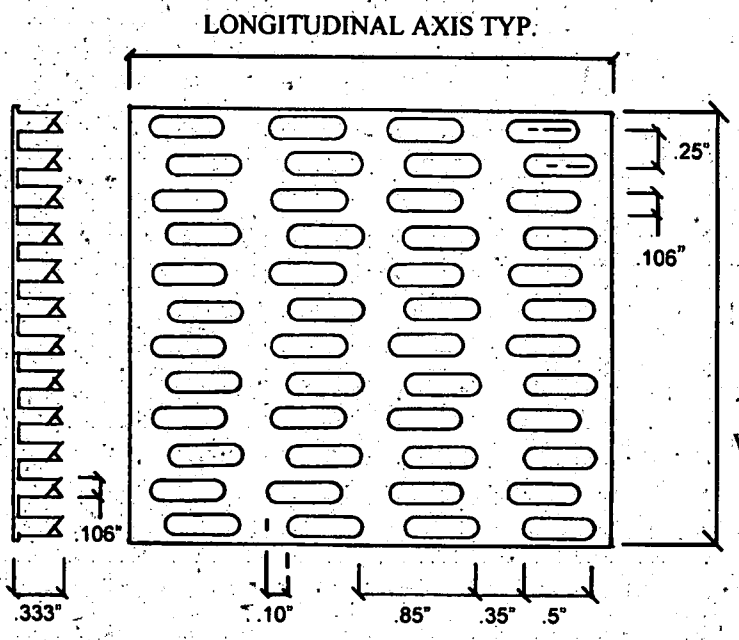
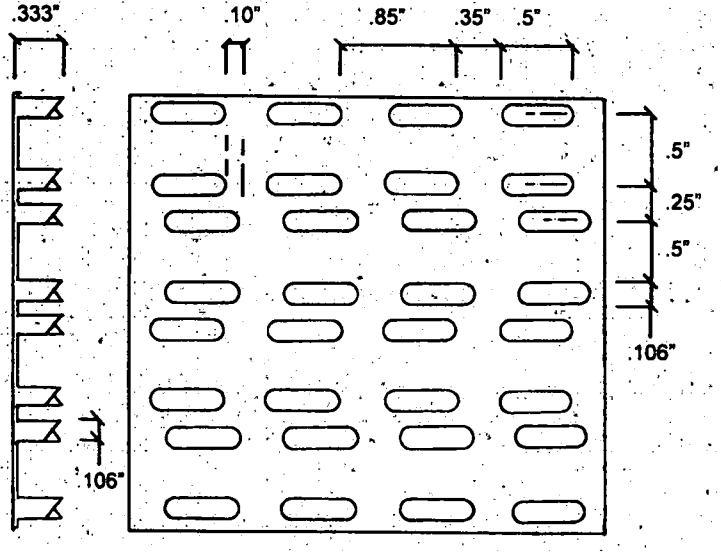


FIGURE 3—HEEL JOINTS TO WHICH THE REDUCTION FACTOR, H_R, APPLIES



MODEL C-20 / C-18



MODEL CN-20 / CN-18

FIGURE 4—COMPUTRUS PLATE DIMENSIONS

West Coast Lumber Inspection Bureau

Portland Office
P. O. Box 23145
Portland, OR 97281-3145
(503) 639-0651

Fountain Valley Office
P. O. Box 9473
Fountain Valley, CA 92708
(714) 813-4161

METAL PLATE CONNECTED WOOD TRUSS QUALITY AUDIT REPORT

Manufacturing Plant: West Coast Truss Date of Inspection: 9/8/2008

Plant Representative: Charlie Sheperd Time of Inspection: 1:00

As per International Building Code Sec. 2303.4 and in accordance with engineered plan specifications.

	In Accordance	Non-Conforming
Lumber Grade & Storage	X	
Connector Plates	X	
Workmanship		
Accuracy of wood cuts	X	
Bearing of wood joints	X	
Knots in plate area	X	
Split limitation	X	
Position of plates	X	
Condition of plate teeth	X	
Plate to Wood Tolerance	X	
In-Plant Handling & Storage	X	
Bundling, Loading & Delivery	X	
Marking Legibility	X	
Jig & Press Adequacy	X	
Number of Trusses Inspected	any	

General Appearance and Condition of Inventoried Trusses:

Excellent ____ Good X Satisfactory ____ Poor ____ Not Acceptable ____

REMARKS: Inspected their in-plant QC documents. They were OK.

WCLIB Quality Auditor: R. Lotta Date: 9/8/2008

WCLIB Technical Director: ____ Date: ____

CITY OF CARLSBAD

CERTIFICATION OF SCHOOL FEES PAID B-34

Development Services
Building Department
1635 Faraday Avenue
760-602-2719
www.carlsbadca.gov

This form must be completed by the City, the applicant, and the appropriate school districts and returned to the City prior to issuing a building permit. The City will not issue any building permit without a completed school fee form.

Project Name: **SECHREST RESIDENCE**

Building Permit Plan Check Number: **CB100002**

Project Address: **2677 JEFFERSON ST**

A.P.N.: **155-170-21-00**

Project Applicant (Owner Name): **DENNIS & KAREN SECHREST**

Project Description: **NEW 2ND DWELLING UNIT**

Building Type: **V-N**

Residential: **1** New Dwelling Unit(s)

Square Feet of Living Area in New Dwelling

Second Dwelling Unit: **640** Square Feet of Living Area in SDU ($1952.00 FEE)

Residential Additions: Net Square Feet New Area

Commercial/Industrial: Net Square Feet New Area

City Certification of Applicant Information: [signature] Date: 3-23-10

$3.05/SF

SCHOOL DISTRICTS WITHIN THE CITY OF CARLSBAD

☒ **Carlsbad Unified School District** 6225 El Camino Real 760 Carlsbad CA 92009 (331-5000)	☐ **Vista Unified School District** 1234 Arcadia Drive Vista CA 92083 (726-2170)	☐ **San Marcos Unified School District** 215 Mata Way San Marcos, CA 92069 (290-2619) Contact: Nancy Dolce (By Appt. Only)
☐ **Encinitas Union School District** 101 South Rancho Santa Fe Rd Encinitas, CA 92024 (944-4300 ext 166)	☐ **San Dieguito Union High School District** 710 Encinitas Blvd. Encinitas, CA 92024 (753-6491)	

Certification of Applicant/Owners. The person executing this declaration ("Owner") certifies under penalty of perjury that (1) the information provided above is correct and true to the best of the Owner's knowledge, and that the Owner will file an amended certification of payment and pay the additional fee if Owner requests an increase in the number of dwelling units or square footage after the building permit is issued or if the initial determination of units or square footage is found to be incorrect, and that (2) the Owner is the owner/developer of the above described project(s), or that the person executing this declaration is authorized to sign on behalf of the Owner.

Signature: [signature] Date: 3/25/10

SCHOOL DISTRICT SCHOOL FEE CERTIFICATION
(To be completed by the school district(s))

****

THIS FORM INDICATES THAT THE SCHOOL DISTRICT REQUIREMENTS FOR THE PROJECT HAVE BEEN OR WILL BE SATISFIED.

SCHOOL DISTRICT:
The undersigned, being duly authorized by the applicable School District, certifies that the developer, builder, or owner has satisfied the obligation for school facilities. This is to certify that the applicant listed on page 1 has paid all amounts or completed other applicable school mitigation determined by the School District. The City may issue building permits for this project.

SIGNATURE OF AUTHORIZED SCHOOL DISTRICT OFFICIAL — Walter Freeman /LMe

TITLE — ~~WALTER FREEMAN~~ ASSISTANT SUPERINTENDENT

NAME OF SCHOOL DISTRICT — ~~CARLSBAD UNIFIED SCHOOL DISTRICT~~

DATE 3.30.10

PHONE NUMBER — 6225 EL CAMINO REAL CARLSBAD, CA 92009 760.331.5000

CITY OF CARLSBAD

PLUMBING, ELECTRICAL, MECHANICAL WORKSHEET B-18

Development Services
Building Department
1635 Faraday Avenue
760-602-2719
www.carlsbadca.gov

Project Address: 2677 JEFFERSON ST. Permit No.: CB10-02

Information provided below refers to work being done on the above mentioned permit only.

This form must be completed and returned to the Building Department before the permit can be issued.

Building Dept. Fax: (760) 602-8558

PLUMBING

Number of new or relocated fixtures, traps, or floor drains ..... ____

New building sewer line? to EXIST. LINE ON PROPERTY ..... Yes X No ____

Number of new roof drains? X

Install/alter water line? X

Number of new water heaters? 1

Number of new, relocated or replaced gas outlets? 1

Number of new hose bibs? 2

ELECTRIC

Upgrade existing panel? ..... Yes ____ No ____

From ____ Amps to ____ Amps

Number of new panels or subpanels? (1) SUBPANEL 100A @ NEW GAR. & 100A @ EXIST. RES. to REPLACE EXIST MAIN SERVICE

Single Phase ..... NEW ELEC MAIN SERVICE ..... Number of new amperes 200A

Three Phase ..... Number of new amperes ____

Three Phase 480 ..... Number of new amperes ____

Remodel (relocate existing outlets/switches or add outlets/switches)?

Yes X No ____

MECHANICAL

GAS WALL FURNACE (25000 BTU) NEW LIVING UNIT

Number of new furnaces, A/C, or heat pumps? 1

New or relocated duct work? ..... Yes ____ No X

Number of new fireplaces? X

Number of new exhaust fans? 1

Relocate/install vent? X

Number of new exhaust hoods? 1

Number of new boilers or compressors? ..... Number of HP ____

CB100002 2677 JEFFERSON ST

SECHREST RES-NEW 770 SFGARAGE
W/640 SF 2ND DWELLING UNIT ABOVE 78 SF DECK.

SW100291

☐ CV

Approved	Date	By
Building	2/8/10	~~Bone~~
Planning	3-4-10	
Engineering	3/12/10	
Fire	3-23-10	
HazMat		
APCD		
Health		

Forms/Fees	Sent	Rec'd	Due?	By
CFD			Y N	
Encina			Y N	
Fire			Y N	
HazHealthAPCD			Y N	
~~PERM~~	2/2/10	3-23-10	Y N	
School CA	3-23-10	3-30-10	Y N	
Sewer CA			Y N	
Stormwater			Y N	
			Y N	
			Y N	
			Y N	
PFF			Y N	

Comments	Date	Date	Date	Date
Building	1-7-10			
Planning	2/5/10	2-12-10		
Engineering	2-12-10			
Fire	2/11/10			

Need?	
Owner/contractor info	☒ Done
~~City~~ Fire approval per notice	☒ Done
pay SW100032	☒ Done
attach ten 1 plans	☒ Done
	☐ Done

Application Complete? (Y) N By:

Fees Complete? (Y) N By:

1-4-10 - Owner to Esgil w/ trusses, structcalcs, T-24 (2 sets)
To City
* When city set returns, route to Fire per client on address for detached garage.

1-7-10 - Esgil CLM

2/2/10 - City II to City / Owner II to Esgil
Prior to recv of City I comments

2/4/10 City II @ Eng w/ Jeremy
City I to FIRE *

2/10/10 owner II @ FC

2-12-10 City II @ FC

3/2/10 - City III to City / Owner II w/ new A-1 - A-2 @ F.C. / slipsheet when approv.

3-16-10 City III @ FC

3-23-10 - RTI N - w/ sch fees & contacts

3-30-10 Issued

City of Carlsbad

1635 Faraday Av Carlsbad, CA 92008

07-02-2010

Plan Check Revision

Permit No:PCR10062

Building Inspection Request Line (760) 602-2725

Job Address:	2677 JEFFERSON ST CBAD				
Permit Type:	PCR			Status:	ISSUED
Parcel No:	1551702100	Lot #:	0	Applied:	05/19/2010
Valuation:	$0.00	Construction Type:	NEW	Entered By:	LSM
Reference #:	CB100002			Plan Approved:	07/02/2010
PC #:				Issued:	07/02/2010
Project Title:	SECHREST RES- REVISED SITE PLAN FOR DRAINAGE & PAVING AREAS AROUND NEW GARAGE			Inspect Area:	

Applicant:
EUGENE BOYD

42186 THORNTON AV
HEMET CA 92544
951 927 3646

Owner:
SECHREST DENNIS R&KAREN H REVOCABLE TRUST 11-18-

1982 TAMARACK LN
HEMET CA 92545

Plan Check Revision Fee	$0.00
Additional Fees	$0.00

Total Fees: $0.00 Total Payments To Date: $0.00 **Balance Due:** **$0.00**

FINAL APPROVAL

Inspector: _____ Date: _____ Clearance: _____

NOTICE: Please take NOTICE that approval of your project includes the "Imposition" of fees, dedications, reservations, or other exactions hereafter collectively referred to as "fees/exactions." You have 90 days from the date this permit was issued to protest imposition of these fees/exactions. If you protest them, you must follow the protest procedures set forth in Government Code Section 66020(a), and file the protest and any other required information with the City Manager for processing in accordance with Carlsbad Municipal Code Section 3.32.030. Failure to timely follow that procedure will bar any subsequent legal action to attack, review, set aside, void, or annul their imposition.

You are hereby FURTHER NOTIFIED that your right to protest the specified fees/exactions DOES NOT APPLY to water and sewer connection fees and capacity changes, nor planning, zoning, grading or other similar application processing or service fees in connection with this project. NOR DOES IT APPLY to any fees/exactions of which you have previously been given a NOTICE similar to this, or as to which the statute of limitations has previously otherwise expired.

CITY OF CARLSBAD

PLAN CHECK REVISION APPLICATION B-15

Development Services
Building Division
1635 Faraday Avenue
760-602-2719
www.carlsbadca.gov

Plan Check Revision No. PCR10 0062 Original Plan Check No. CB10 0002

Project Address 2677 Jefferson St Date 5/19/10

Contact Gene Boyd Ph 951-927-3646 Fax _____ Email _____

Contact Address 42186 Thornton Aj ~~Cherhell~~ City Hemet Zip 92544

General Scope of Work _____

Original plans prepared by an architect or engineer, revisions must be signed & stamped by that person.

1 Elements revised:

☐ Plans ☐ Calculations ☐ Soils ☐ Energy ☐ Other SITE PLAN

2 Describe revisions **in detail**	**3** List page(s) where each revision is shown	**4** List revised sheets that replace existing sheets
Revised SITE PLAN		
Drainage & con PAVING		
Areas around NEW GARAGE		

5 Does this revision, in any way, alter the exterior of the project? ☐ Yes ☐ No

6 Does this revision add ANY new floor area(s)? ☐ Yes ☒ No

7 Does this revision affect any fire related issues? ☐ Yes ☒ No

8 Is this a complete set? ☐ Yes ☒ No

Signature _____

LETTER OF TRANSMITTAL

L. EUGENE BOYD designer
42186 THORNTON AVENUE · HEMET, CALIFORNIA · 92544 · 909.927.3646

DATE 3.16.10 | JOB NO.

ATTENTION GREG RYAN, FIRE DEPT.

RE: CB 10-02

TO
CITY OF CARLSBAD
BUILDING & SAFETY DEPT

GENTLEMEN:

WE ARE SENDING YOU ☐ Attached ☐ Under separate cover via _____ the following items:

☐ Shop drawings ☒ Prints ☐ Plans ☐ Samples ☐ Specifications

☐ Copy of letter ☐ Change order ☐ _____

COPIES	DATE	NO.	DESCRIPTION
2	3-16-10		AUTO FIRE SPRINKLERS ADDED to 3 CAR GARAGE W/ LIVING UNIT ABOVE.

THESE ARE TRANSMITTED as checked below:

☒ For approval ☐ Approved as submitted ☐ Resubmit _____ copies for approval

☐ For your use ☐ Approved as noted ☐ Submit _____ copies for distribution

☐ As requested ☐ Returned for corrections ☐ Return _____ corrected prints

☒ For review and comment ☐ _____

☐ FOR BIDS DUE _____ 19_____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS _____

COPY TO GREG RYAN, FIRE DEPT.

SIGNED: L Eugene Boyd

If enclosures are not as noted, kindly notify us at once.

L. EUGENE BOYD designer
42186 THORNTON AVENUE · HEMET CALIFORNIA · 92544 · 909 927 3646

951

LETTER OF TRANSMITTAL

DATE 5.17.10 | JOB NO.

ATTENTION JANET ALTAR

RE: FORWARD to LINDA ONTIVEROS

TO

CITY OF CARLSBAD
BUILDING & SAFETY

CITY OF CARLSBAD

MAY 19 2010

Community & Economic Development Department

GENTLEMEN:

WE ARE SENDING YOU ☐ Attached ☐ Under separate cover via _____ the following items:

☐ Shop drawings ☒ Prints ☐ Plans ☐ Samples ☐ Specifications

☐ Copy of letter ☐ Change order ☐ _____

COPIES	DATE	NO.	DESCRIPTION
2	5.17.10		REVISED SITE PLAN DRAINAGE & CONC PAVING AREAS AROUND NEW GARAGE

THESE ARE TRANSMITTED as checked below:

☒ For approval ☐ Approved as submitted ☐ Resubmit _____ copies for approval

☐ For your use ☐ Approved as noted ☐ Submit _____ copies for distribution

☐ As requested ☐ Returned for corrections ☐ Return _____ corrected prints

☐ For review and comment ☐ _____

☐ FOR BIDS DUE _____ 19 _____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS _____

COPY TO LINDA ONTIVEROS

SIGNED: L. Eugene Boyd

LETTER OF TRANSMITTAL

L. EUGENE BOYD designer
42186 THORNTON AVENUE · HEMET, CALIFORNIA · 92544 · 909 927 3646

DATE 2.25.10 | JOB NO.

ATTENTION LINDA ONTIVEROS

RE: ENGINEERING DEPT. COMMENTS
CD 10-07

TO
CITY OF CARLSBAD
ENGINEERING DEPT.

GENTLEMEN:

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via _____ the following items:

☐ Shop drawings ☒ Prints ☐ Plans ☐ Samples ☐ Specifications

☐ Copy of letter ☐ Change order ☐ _____

COPIES	DATE	NO.	DESCRIPTION
4	2.25.10		SHTS. A-1 & A-2

THESE ARE TRANSMITTED as checked below:

☒ For approval ☐ Approved as submitted ☐ Resubmit _____ copies for approval

☐ For your use ☐ Approved as noted ☐ Submit _____ copies for distribution

☐ As requested ☐ Returned for corrections ☐ Return _____ corrected prints

☐ For review and comment ☐ _____

☐ FOR BIDS DUE _____ 19____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS STORM WATER FORM, SEWER, WATER-LATERALS, SITE DRAINAGE, LEGAL DESCRIP., REVISED SHT. A2 LOW IMPACT DEVELOPMT. (DRAINAGE = CLEAN WATER OVER CONC. PAVING to C.B., to 4" PVC UNDERGROUND DRAINAGE to ST. CURB FACE) NOT THRU PLANTER AREAS!

COPY TO LINDA ONTIVEROS

SIGNED: L. Eugene Boyd

If enclosures are not as noted, kindly notify us at once.

PLANNING/ENGINEERING APPROVALS

PERMIT NUMBER (CB 10-02) PCR 10-62 **DATE** 5/21/10

ADDRESS 2677 JEFFERSON ST CARLSBAD CA

RESIDENTIAL

RESIDENTIAL ADDITION MINOR (<$17,000.00)

TENANT IMPROVEMENT

PLAZA CAMINO REAL

CARLSBAD COMPANY STORES

VILLAGE FAIRE

COMPLETE OFFICE BUILDING

OTHER REVISION TO EX BUILDING PERMIT - INCORPORATE LID/SUSMP REQUIREMENTS TO MINIMIZE IMPERVIOUS SURFACE AREAS

PLANNER _____ **DATE** _____

ENGINEER L. Ontiveros **DATE** 5/21/10