

CITY OF SACRAMENTO

1231 I Street, Sacramento, CA 95814

Permit No: 9907761

Insp Area: 3

Site Address: 3050 6TH AV SAC

Parcel No: 013-0281-010

Sub-Type: AOTHR

Housing (Y/N): N

CONTRACTOR

CALIFORNIA SHEDS
1414 DEL PASO BL
SACRAMENTO CA 95815

OWNER

PATERSON FRIEDA A
3050 6TH AV
SACRAMENTO CA 95817

ARCHITECT

Nature of Work: BUILD 160 SQR FT STORAGE SHED

CONSTRUCTION LENDING AGENCY : I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C).

Lender's Name _____ Lender's Address _____

LICENSED CONTRACTORS DECLARATION: I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code and my license is in full force and effect.

License Class 3 License Number 507025 Date 7-14-99 Contractor Signature [Signature]

OWNER-BUILDER DECLARATION: I hereby affirm under penalty of perjury that I am exempt from the contractors License Law for the following reason (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 or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she 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 (\$500.00);

I, as a 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 Professional Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his/her 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/she 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 Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law).

I am exempt under Sec. _____ B & PC for this reason: _____

Date _____ Owner Signature _____

IN ISSUING THIS BUILDING PERMIT, the applicant represents, and the city relies on the representation of the applicant, that the applicant verified all measurements and locations shown on the application or accompanying drawings and that the improvement to be constructed does not violate any law or private agreement relating to permissible or prohibited locations for such improvements. This building permit does not authorize any illegal location of any improvement or the violation of any private agreement relating to location of improvements.

I certify that I have read this application and state that all information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction and hereby authorize representative(s) of this city to enter upon the abovementioned property for inspection purposes.

Date 7-14-99 Applicant/Agent Signature [Signature]

WORKER'S 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 for by Section 3700 of the Labor Code, for the performance of work for which the permit is issued.

I have and will maintain workers' compensation insurance, 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:

Carrier EXEMPT

Policy Number _____

Exp Date _____

(This section need not be completed if the permit is for \$100 or less) 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 and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date 7-14-99 Applicant Signature [Signature]

WARNING: FAILURE TO SECURE WORKER'S 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 FEE.

THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK IS NOT COMMENCED WITHIN 180 DAYS.

City of Sacramento Development Services Division
Planning and Zoning Information Request

Project Address: 3050 - 6th Ave

Assessor's Parcel Number: 813 - 0281 - 010

PREVIOUS USE _____

Current Land Use: SFR

Description of Request/Proposed Use: 10x16 Storage Shed

IS THIS A CHANGE OF USE? NO

Zoning Designation: R-1

Prior Applications for Project Site(P#,Z#,DRPS#): _____

Comments: OK

Are There Any Planning Issues?: (Circle One) YES NO

STAFF Site Plan Check Required? (Circle One) YES NO

FIELD INSPECTION REQUIRED (Circle One) YES NO

Design Review/ Preservation Required?: (Circle One) YES NO

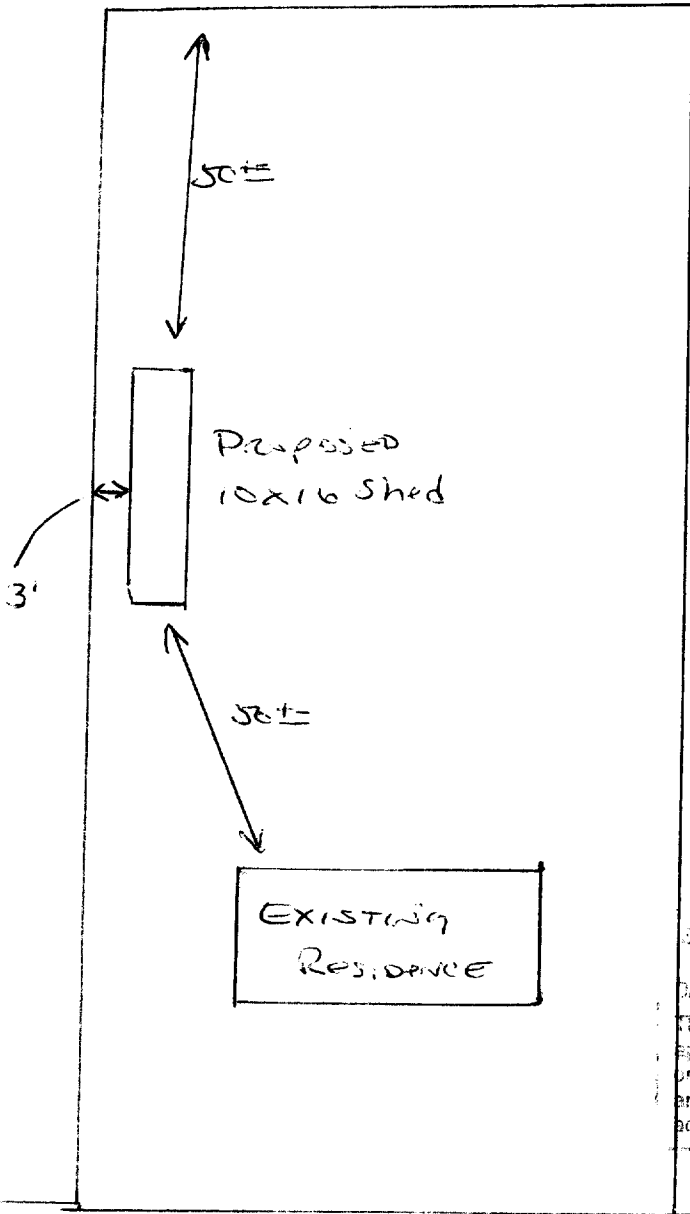
Planning Review by/Date: W. J. Gour 7/16/99

A list of items that must be reviewed by Planning is provided on the reverse side of this form.

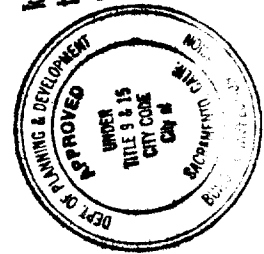
ISSUED

JUL 16 1999

CITY OF SACRAMENTO
DEVELOPMENT SERVICES DIV.



This set of plans and specifications must be kept on the job at all times and it is unlawful to make any changes or alterations from the same without written permission from the Building Inspection Division.
The approval of this plan and specification SHALL NOT be held to justify or excuse the violation of any City Ordinance or State Law.



Reviewed by Matt P. 7/16/99

SITE PLAN APPROVED - PLANNING DIVISION

DATE: 7/16/99 BY: W. J. BARK

The approval SHALL NOT be held to permit or approve the violation of any State law, City Ordinance, or private agreement, and assumes that property lines and other information submitted by the applicant are accurate and complete.

setbacks
coverage

7-6-98

CALIFORNIA SHEDS

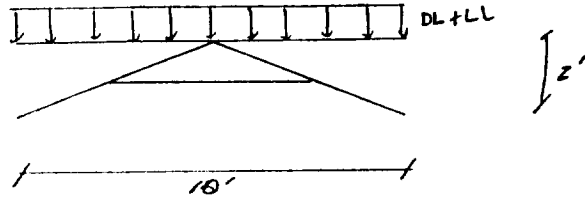
10' x 26'

JOB # 98-707

1/7

10' WOOD SHED TRUSS

- LOADS:
- Roof LL = 20 psf
 - Roof DL = 5 psf
 - Floor TL = 10 psf
 - WIND = 80 mph exp "C" -- conservative

ROOF FRAME ANALYSIS:

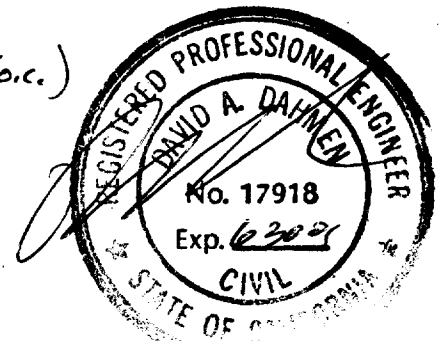
TOP CHORD: (TRY 2" x 4" STANDARD D.F. @ 24" o.c.)

- SPAN = 5'
- $W_{LL} = (20 \text{ psf})(2' \text{ o.c.}) = 40 \text{ plf}$
- $W_{TL} = (25 \text{ psf})(2' \text{ o.c.}) = 50 \text{ plf}$
- FROM NWPA BEAM COMPUTER

USE 2" x 4" STANDARD D.F. @ 24" o.c. FOR TOP CHORDS

CROSS TIE: (TRY 1" x 4" STANDARD D.F. @ 24" o.c.)

- $T = \frac{M_{\max}}{d} = \frac{(50 \text{ plf})(10')^2 / 8}{1'} = 625 \text{ lb}$
- $F_t \text{ reqd} = \frac{625 \text{ lb}}{2.625 \text{ in}^2} = 238 \text{ psi}$
- $F_t \text{ prov} = 375 \text{ psi} \therefore \text{OK}$



PACIFIC CONSULTING ENGINEERS
2150 BELL AVE., SUITE 145
SACRAMENTO, CA 95838

USE 1" x 4" STANDARD D.F. @ 24" o.c. FOR CROSS TIE

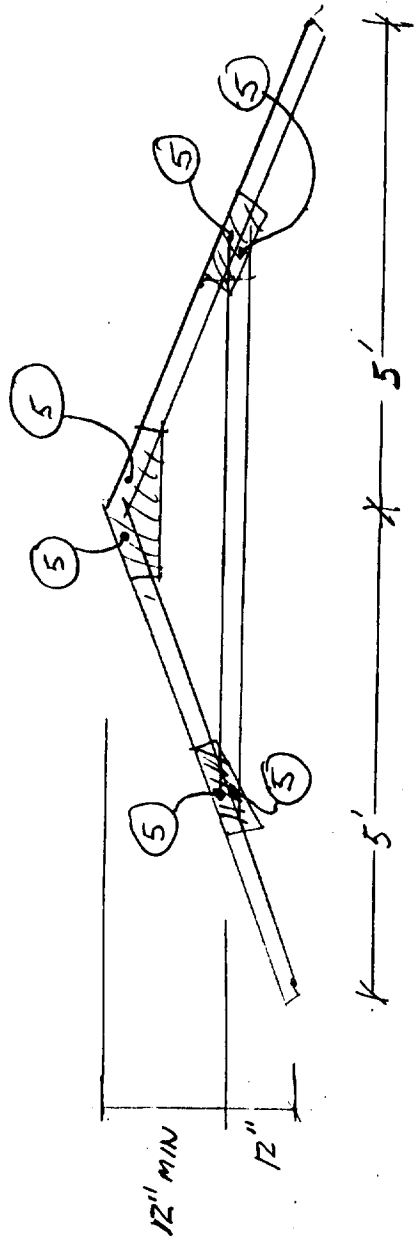
JOINT DESIGN: (16 ga. x 7/16" x 1 5/8" STAPLES)

- FALLOW PER STAPLE = $(52 \text{ lb})(1.25) = 65 \text{ lb}$
- # STAPLES REQD = $\frac{238 \text{ lb}}{65 \text{ lb}} = 3.7 \therefore \rightarrow \text{USE } 10$

USE 10 STAPLES TOTAL, 5 FROM EACH SIDE FOR EACH GUSSET PLATE

TOP CHORDS : 2" X 4" STANDARD OR BETTER @ 24" O.C.
 CROSS TIE : 1" X 4" STANDARD OR BETTER @ 24" O.C.

←→ PLYWOOD GUSSET
 FACE GRAIN
 DIRECTION



- GUSSETS - CUT FROM 5/8" T1-11 PLYWOOD
- GUSSETS ON EACH SIDE OF TRUSS
- GUSSETS TO BE GLUED TO CHORDS & VERTICALS w/ PVA @ 100% COVERAGE

- INDICATES NUMBER OF 16 ga. x 9/16" x 1 5/8" STAPLES
 REQUIRED EACH SIDE OF TRUSS

CHECK 4' HEADER

- SPAN = 4'
- $W_{TL} = (25 \text{ psf})(5') = 125 \text{ plf}$
- $W_{LL} = (20 \text{ psf})(5) = 100 \text{ plf}$
- FROM WUPA BEAM COMPUTER: USE 4"x4" #2 D.F.

TRY 2-2"x4" #2 D.F.'s

$$F_b \text{ req'd} = \frac{(62.5 \text{ plf})(4')^2 (12 \text{ in/ft})}{8 (1.312 \text{ in}^3)(1.5 \text{ size})(1.25 \text{ LL fac})} = 610 \text{ psi}$$

USE 4"x4" #2 D.F. FOR HEADER OR

USE 2-2"x4" #2 D.F. FLAT

FLOOR JOISTS (2" x 4" STANDARD D.F. @ 16" O.C.)

$$w = (100 \text{ psf})(16") \left(\frac{1}{12} \text{ ft/in}\right) = 133 \text{ plf}$$

$$M_{\max} = wL^2/8 = (133 \text{ plf})(3'-10")^2/8 = 244 \text{ lb-ft}$$

$$\frac{M_{\max}}{S_x} = \frac{(244 \text{ lb-ft})(12 \text{ in/ft})}{3.06 \text{ in}^3} = 1.0 \leq 1.0 \therefore \text{OK}$$

$$F_b (550 \text{ psi})(1.5 \text{ size})(1.15 \text{ req use fact})$$

$$\Delta_{\text{allow}} = \frac{L}{240} = \frac{(4')(12 \text{ in/ft})}{240} = 0.2"$$

$$\Delta_{\max} = \frac{5}{384} \frac{(133 \text{ plf})(4')^4 (12 \text{ in/ft})^3}{(1,400,000 \text{ psi})(3.359 \text{ in}^4)} = 0.1" < 0.2" \therefore \text{OK}$$

USE 2" x 4" STANDARD D.F.

FLOOR JOISTS @ 16" O.C.

RUNNER (4" x 4" P.T. D.F.) (TRY #2)

$$\cdot w = (100 \text{ psf})(4') = 400 \text{ plf}$$

$$\cdot M_{\max} = w l^2 / 8 = (400 \text{ plf})(4')^2 / 8 = 800 \text{ lb-ft}$$

$$\cdot \frac{M_{\max}}{\frac{S_x}{F_b}} = \frac{(800 \text{ lb-ft})(12 \text{ in/ft})}{\frac{7.146 \text{ in}^3}{(1875 \text{ psi})(1.5 \text{ size factor})}} = 1.0 \leq 1.0 \therefore \text{OK}$$

$$\cdot \Delta_{\max} = \frac{5}{384} \frac{(400 \text{ plf})(4')^4 (12 \text{ in/ft})^3}{(1,600,000 \text{ psi})(12.505 \text{ in}^4)} = 0.12" < 0.2" \therefore \text{OK}$$

USE 4" x 4" #2 D.F. P.T. FOR
FLOOR RUNNER

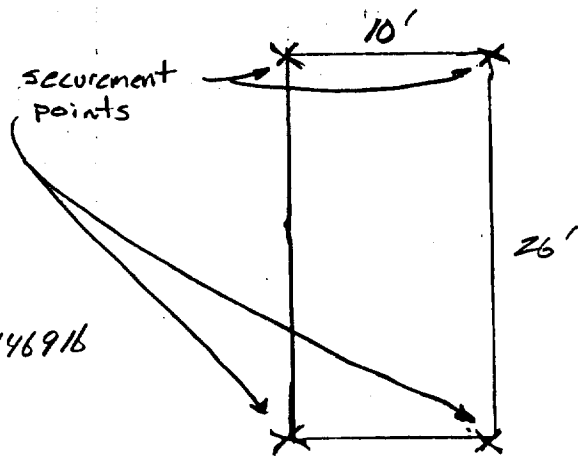
LATERAL ANALYSIS

$$PLATE = 22.6 \text{ psf (80 exp. C)}$$

$$w = (22.6 \text{ psf})(10' \text{ bldg height}) = 226 \text{ plf}$$

$$F_{OT} = (226 \text{ plf})(26') = 5,876 \text{ lb}$$

$$\text{Lat force per securement} = \frac{5876 \text{ lb}}{4} = 1469 \text{ lb}$$

OVERTURNING

$$\text{Weight of floor + roof} = 5 \text{ psf}$$

$$O.T.M. = (226 \text{ plf})(10'/2) = 1130 \text{ lb-ft/ft}$$

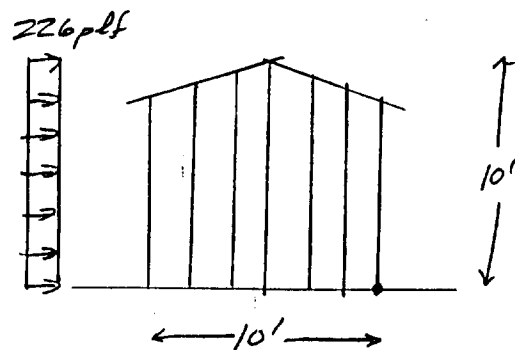
$$\text{Roof + Floor Resisting Moment} = (2)(5 \text{ psf})(10')(5') = 500 \text{ lb-ft/ft}$$

USE 1.5 FACTOR OF SAFETY

$$\text{NET OVERTURNING MOMENT} = 1130 \text{ lb-ft/ft} - \frac{500 \text{ lb-ft/ft}}{1.5} = 797 \frac{\text{lb-ft}}{\text{ft}}$$

$$\text{Uplift per tiedown} = \frac{(797 \text{ lb-ft/ft})(26')}{10'} = 1037 \text{ lb}$$

EACH TIE DOWN TO RESIST UPLIFT OF 1037 lb & SLIDING FORCE OF 1469 lb



USE 1/4" wide high strength strapping - same as used for manufactured home tie downs

Strap 1/4" wide x 0.035 zinc plated, Type I Class B- grade I per Fed spec QQ-S-781H

Working Load = 3150 lb

FLOOR JOIST

STRAP TIE INSTALLED ON SHED

4x4 P.T. RUNNER

METAL BRACKET w/ SPLIT BOLTS

6" MIN. HEIGHT

CROSS DRIVE GUIDES

TYPICAL 16" x 8" x 2" CONCRETE BLOCKS

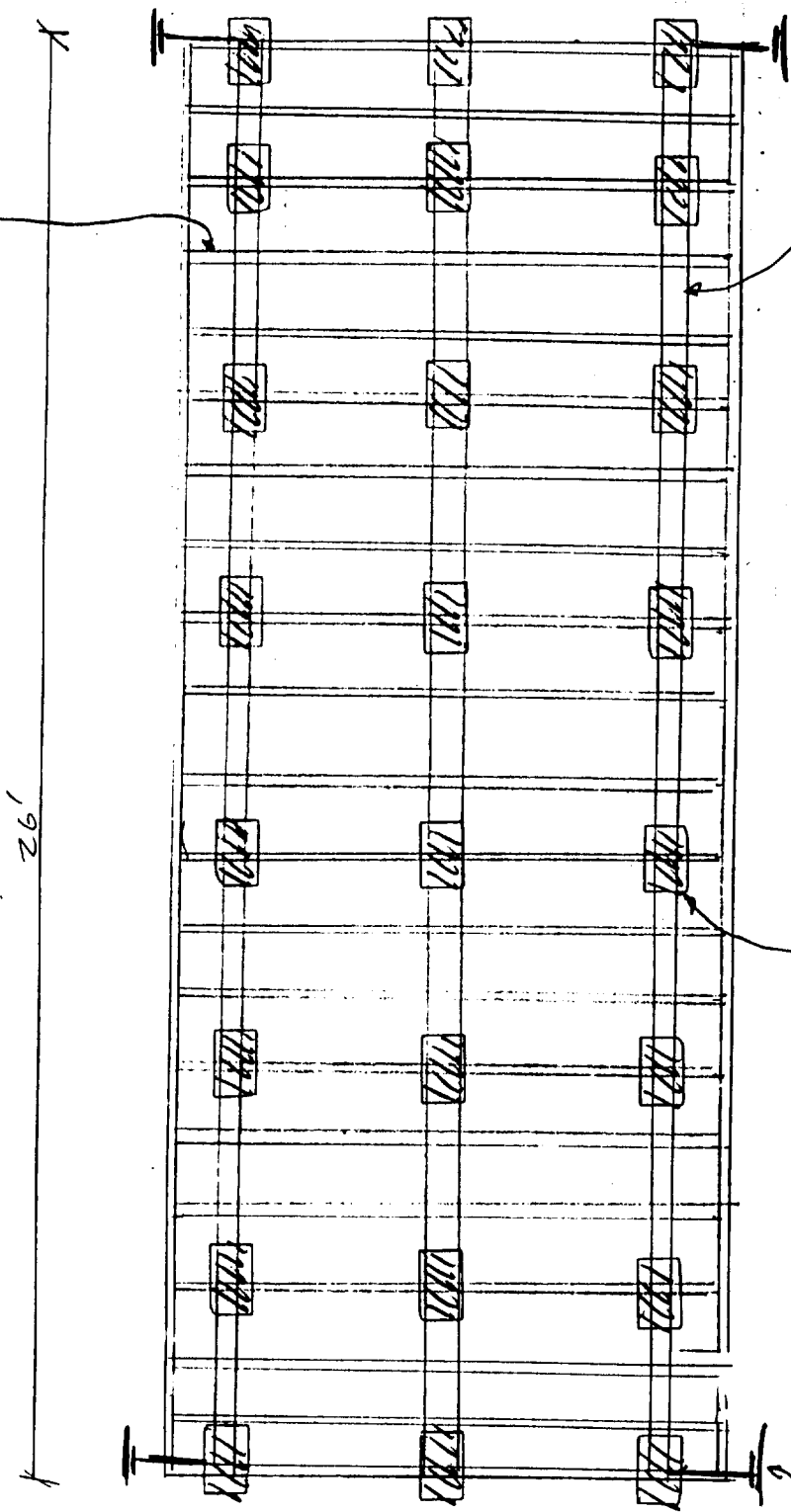
5/8" x 30" RODS

STABILIZER PLATE WELDED TO 3/4" TS & BRACKET. MFG'D BY ABESCO INC. SACRAMENTO, CA

PULL OUT LOAD OF CROSS DRIVE IS MIN 1750# per TEST DATA



TYP 2" X 4" STANDARD
D.F. FLOOR JOISTS
@ 16" O.C.

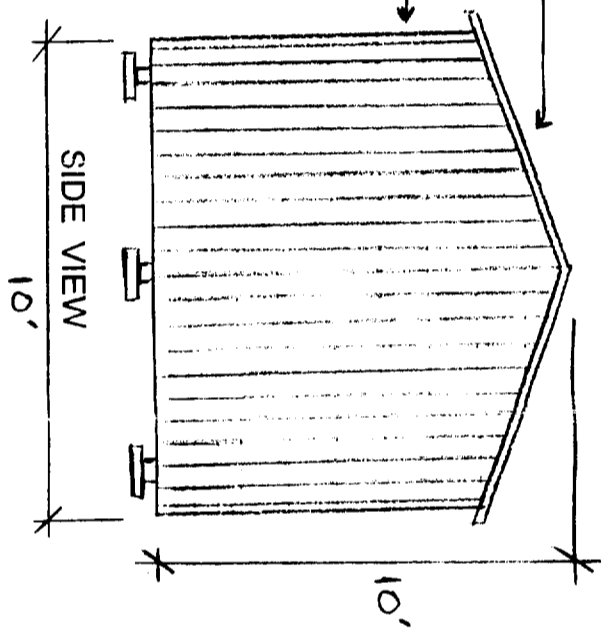
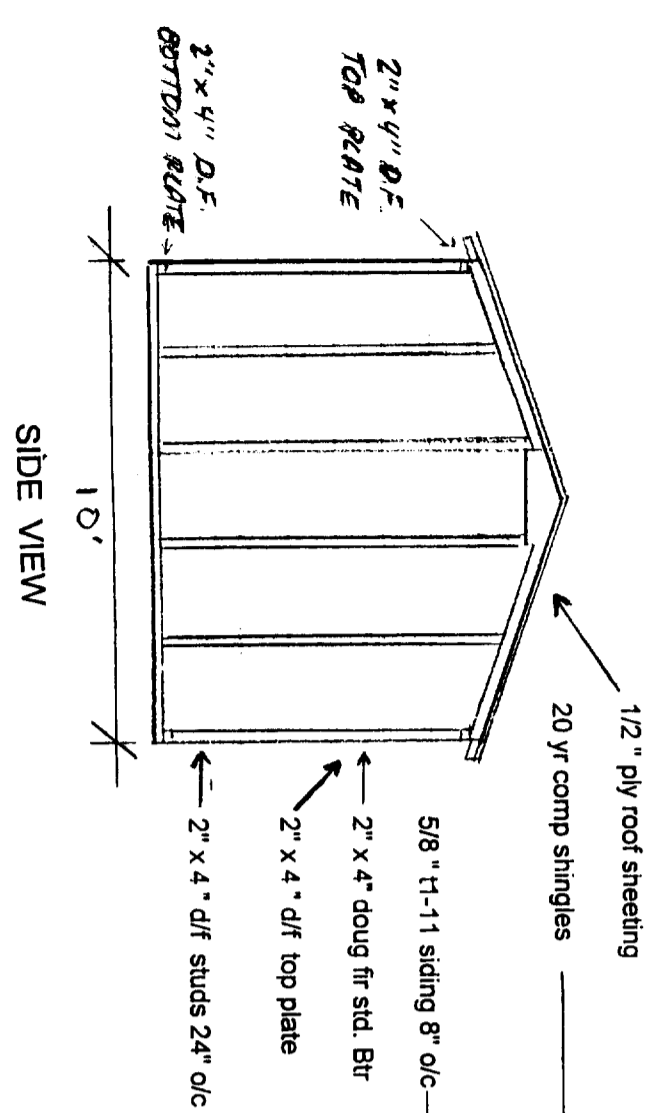


TYP, 16" X 8" X 2" CONC. BLOCKS
@ MAX 4' O.C. BOTH DIRECTIONS

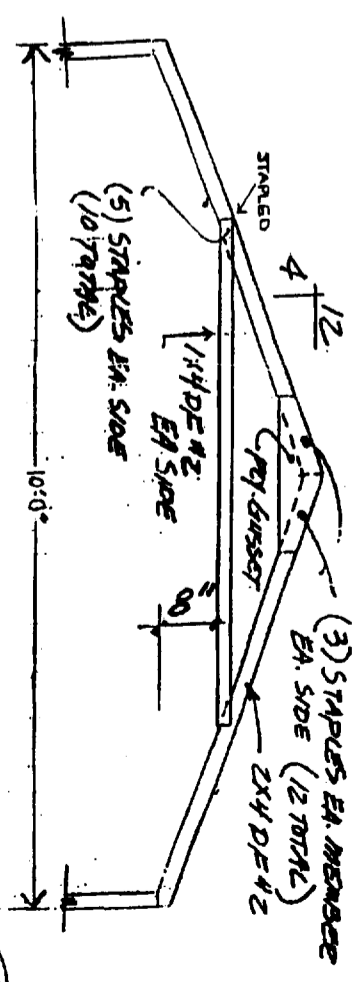
TYP. TIE DOWN
LOCATION

TYP 4" X 4" #2
D.F. FT. RUNNER

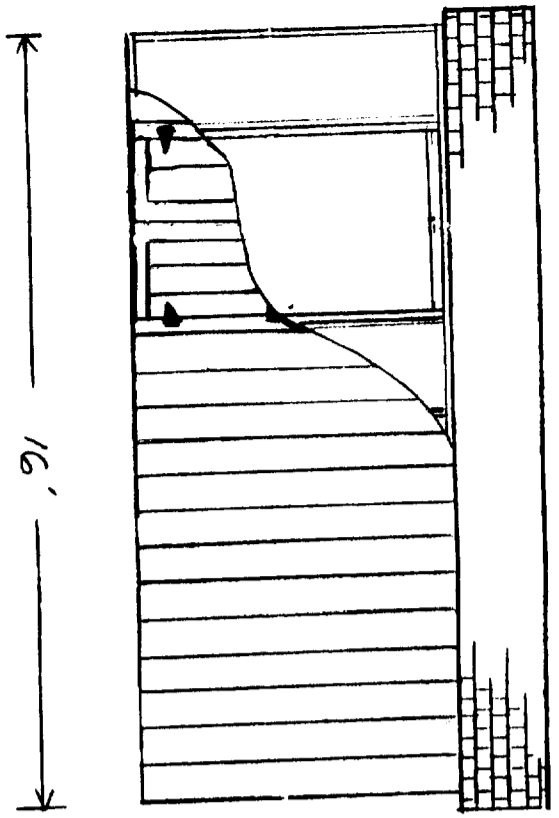
PROPOSED 10' X 16' STORAGE SHED



- NOTES**
1. ALL STAPLES ARE 16 GA. MIN. 1 5/8" LEG LENGTH
 2. TRUSSES ARE 24" O.C.

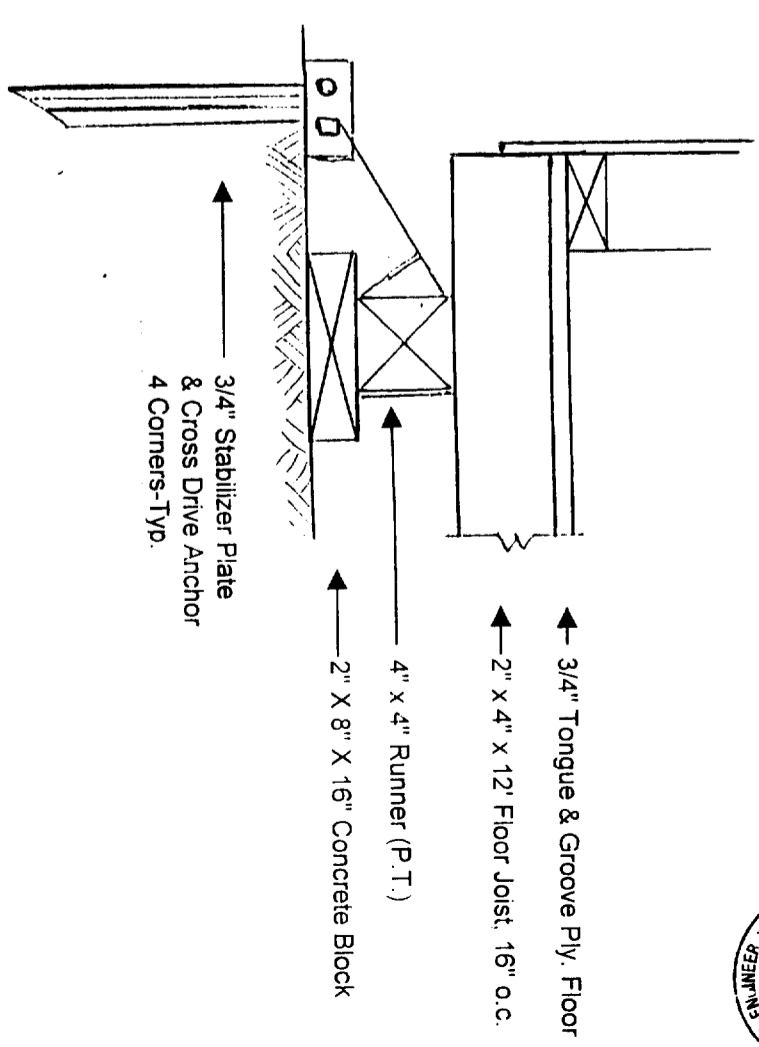
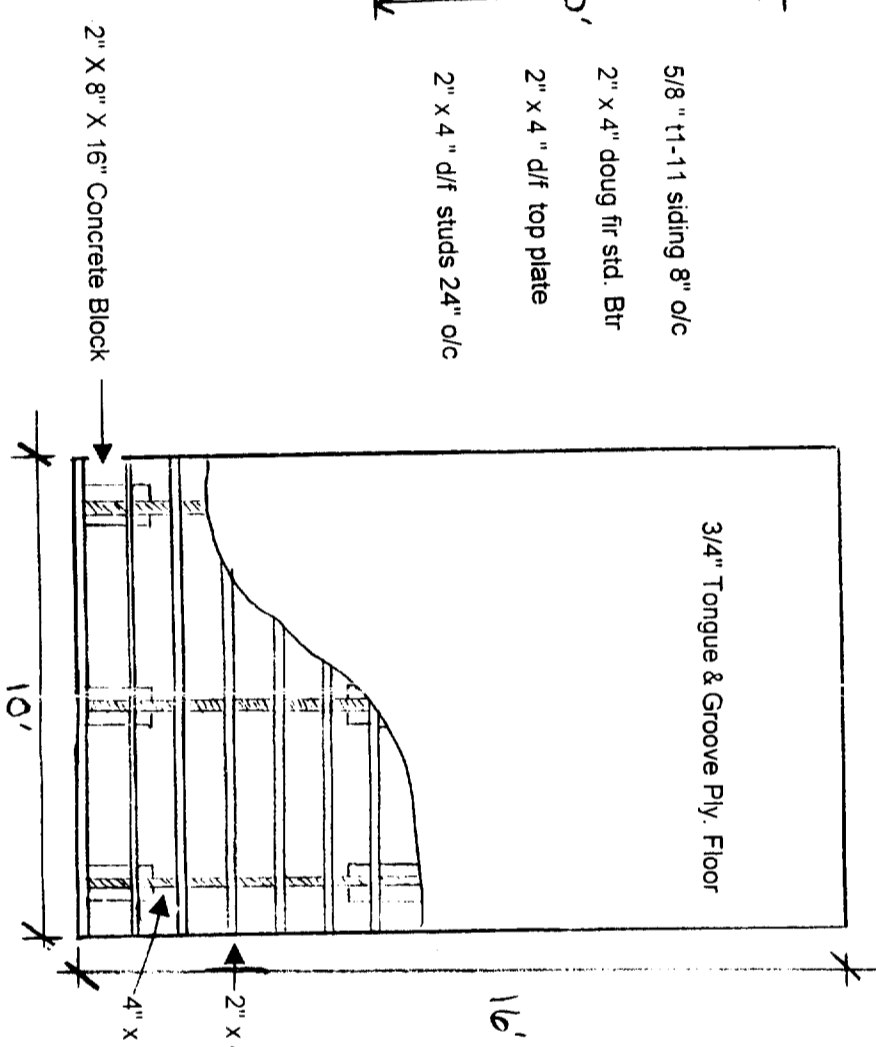


(A) NOTE: ALL GUSSETS 5/8" T-11 PLYWOOD & ON BOTH SIDES



FRONT VIEW - FINISH

- 5/8" T-1-11 siding 8" o/c
- 2" x 4" doug fir std. Br
- 2" x 4" d/f top plate
- 2" x 4" d/f studs 24" o/c



PROPOSED 10X16 HOUSE STYLE STORAGE SHED
 MARTHA CHARNELL
 3050 6th AVE
 SACRAMENTO CA.