

**STAFF REPORT FOR THE HISTORIC RESOURCES COMMISSION MEETING
OF SEPTEMBER 08, 2011**

FILE NO: HRC-11-058

AGENDA ITEM: F- 2

STAFF AUTHOR: Jennifer Pruitt, Principal Planner

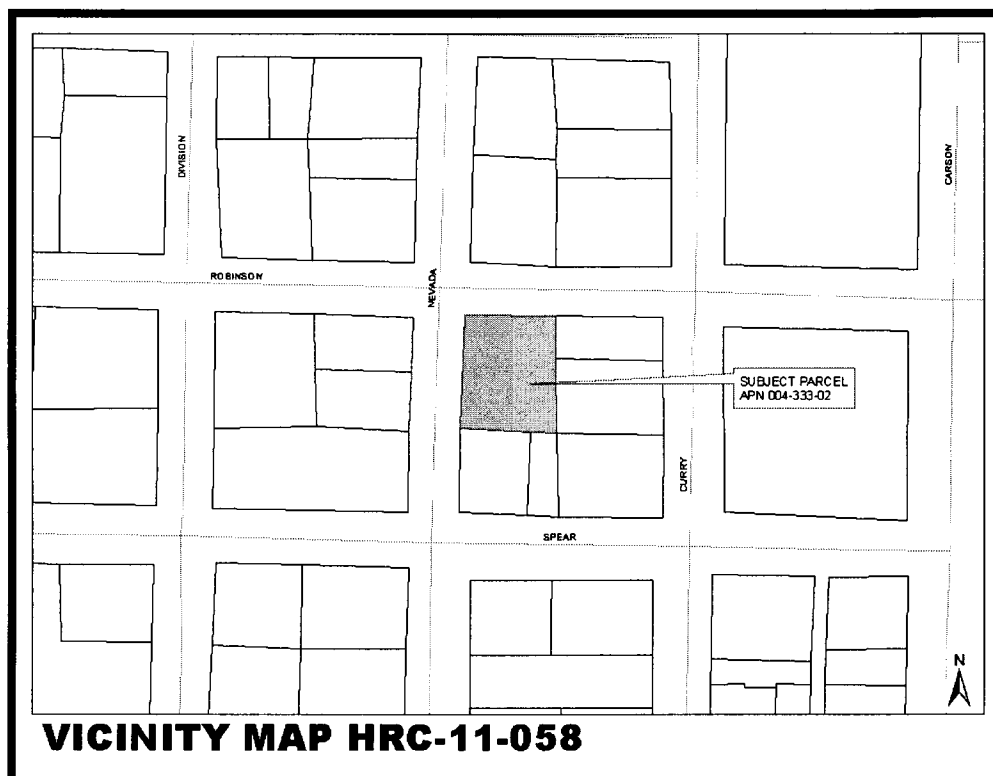
REQUEST: To construct an attached Alumawood patio cover on the eastern façade of the Elks Lodge on property zoned Residential Office (RO)

APPLICANT: Kurt Krug, Great Basin Deck and Shade

OWNER: Elks Lodge

LOCATION/APN: 515 North Nevada Street / APN 003-222-01

RECOMMENDED MOTION: It is recommended that the Historic Resources Commission "Move to approve HRC-11-058, a request from Kurt Krug, (property owner: Elks Lodge) to construct an attached patio cover (312 sf) on property zoned Residential Office (RO), located at 515 North Nevada Street, APN 003-222-01, subject to the conditions of approval contained in the staff report.



RECOMMENDED CONDITIONS OF APPROVAL:

1. All development shall be substantially in accordance with the attached site development plan.
2. All on and off-site improvements shall conform to City standards and requirements.
3. The use for which this permit is approved shall commence within 12 months of the date of final approval. An extension of time must be requested in writing to the Planning Division 30 days prior to the one year expiration date. Should this request not be initiated within one year and no extension granted, the request shall become null and void.
4. The applicant must sign and return the Notice of Decision within 10 days of receipt of notification. If the Notice of Decision is not signed and returned within 10 days, then the item will be rescheduled for the next Historic Resources Commission meeting for further considerations.
5. Project requires application for a Building Permit, issued through the Carson City Building Division. This will necessitate a complete review of the project to verify compliance with all adopted construction codes and municipal ordinances applicable to the scope of the project.
6. The applicant shall submit a copy of the signed Notice of Decision and conditions of approval with the building permit application.
7. Approval is based on upon the project complying with the Standards and Guidelines for Rehabilitation, Carson City Historic District Guidelines, the Historic Resources Commission Policies and that the plans as submitted are in general conformance with the Secretary of the Interior's Standards.

LEGAL REQUIREMENTS: CCMC 18.05.015 (Procedure for Proposed Project) and 18.05.075 (Demolition of a Historic Place or Cultural Resource in the Historic District).

MASTER PLAN DESIGNATION: Mixed Use Residential

ZONING: Residential Office

PREVIOUS REVIEWS:

- On September 13, 2007, the HRC reviewed and approved HRC-07-129 a request to allow the construction of a game room (approximately 703 square feet) between the main lodge and office on site.

DISCUSSION:

The applicant proposes to construct a 312 square foot attached Alumawood patio cover on the eastern façade of the Elks Lodge building. The proposed patio cover will be attached at the eastern façade of the recent addition (703-square-foot) to the Elks Lodge building, which joined the two buildings on the site, located at the southeast corner of Nevada and Robinson Streets.

The proposed patio cover will not be visible from any street frontage or adjacent properties due to the proposed locations. Staff will provide photographic documentation of the proposed location and adjacent conditions.

Carson City Development Standards (Historic District):

CCDS Section 5.26 (Guidelines for additions to historic buildings) and Section 5.26.2 (Guidelines for additions to non-historic buildings) state:

The primary objective of the Carson City historic resources commission (HRC) is to protect and maintain the integrity of the historic resources in the historic district. However, the commission is committed to provide for the development of these resources in such a manner that does not impair their utility. It is recognized that additions are often necessary for a historic building to become functional in a modern context. It is also recognized that additions must be designed to be compatible and not detract from the building, its immediate surrounding or the district as a whole.

Additions to non-historic buildings in the district will be treated in the same manner as additions to historic buildings, except that maintaining original building fabric will not be a consideration.

The existing building, while over 50-60 years old, is not historically significant. However, the patio cover addition will be compatible with the existing structures and immediate surroundings.

PUBLIC COMMENTS:

Public notices were mailed to the adjacent property owners to the subject parcel in accordance with the provisions of NRS and CCMC 18.02.045. No comments have been received in favor or in opposition of the proposed project. Any comments that are received after this report is completed will be submitted prior to or at the Historic Resources Commission meeting, depending on their submittal date to the Planning Division.

Engineering Division comments:

- Development Engineering has no preference or objection to the request.

Building Division comments:

- Project requires application for a Building Permit, issued through the Carson City Building Division. This will necessitate a complete review of the project to verify Compliance with all adopted construction codes and municipal ordinances applicable to the scope of the project.

Respectfully Submitted,

PUBLIC WORKS DEPARTMENT, PLANNING DIVISION

Jennifer Pruitt

Jennifer Pruitt, AICP, LEED AP
Principal Planner

Attachments:

Application (HRC-11-058)
Building Division comments
Engineering Division comments

**Carson City Engineering Division
Historic Resources Commission Report
515 N. Nevada St.
File Number HRC 11-058**

TO: Historic Resources Commission

FROM: Rory Hogen, Asst. Engineer

RH

DATE: August 30, 2011

SUBJECT TITLE:

Review of a Historic Resources Commission application for the addition of a patio and cover at 515 N. Nevada St., apn 03-222-01

RECOMMENDATION:

Development Engineering has no preference or objection to the request.

DISCUSSION:

The Engineering Division has reviewed the request within our areas of purview relative to adopted standards and practices. Construction must meet all requirements of the State of Nevada and Carson City. Additional drainage from the project cannot adversely affect neighboring properties.

File # (Ex: MPR #07-111)	<i>HRC-11-058</i>
Brief Description	<i>Elks Club</i>
Project Address or APN	<i>515 N. Nevada St.</i>
Bldg Div Plans Examiner	<i>Kevin Gattis</i>
Review Date	<i>September 8, 2011</i>
Total Spent on Review	

BUILDING DIVISION COMMENTS:

1. Project requires application for a Building Permit, issued through the Carson City Building Division. This will necessitate a complete review of the project to verify compliance with all adopted construction codes and municipal ordinances applicable to the scope of the project.

RECEIVED

AUG 19 2011

CARSON CITY
PLANNING DIVISION

Carson City Planning Division
108 E. Proctor Street • Carson City NV 89701
Phone: (775) 887-2180 • E-mail: planning@carson.org

FOR OFFICE USE ONLY:

FILE # HRC - 11 - HRC - 11 - 058

**HISTORIC RESOURCES
COMMISSION**

FEE: None

CARSON CITY HOME ASSOCIATION
Pam Shirkey, PRESIDENT
PROPERTY OWNER *CARSON CITY ELKS LODGE 2177*
515 N. NEVADA ST., CARSON CITY, NV 89703
MAILING ADDRESS, CITY, STATE, ZIP

SUBMITTAL PACKET

- ☒ Application Form with signatures
- ☒ Written Project Description
- ☒ 14 Completed Application Packets-Application form, maps, supporting documentation (1 Original + 13 Copies)
- ☒ CD containing application data (pdf format)
- ☒ Documentation of Taxes Paid-to-Date

775-882-2177

PHONE #

FAX #

E-MAIL ADDRESS

Name of Person to Whom All Correspondence Should Be Sent

Application Reviewed and Received By:

RMT

Submittal Deadline: See attached HRC application submittal schedule.

August 22, 2011

APPLICANT/AGENT *Great Basin Dicks and Shale* PHONE # *(775) 291-4224*
KURT KRUG
MAILING ADDRESS, CITY, STATE ZIP *89706*
301 Hot Springs Rd #8A, Carson City, NV
PHONE # *(775) 883-4849*
KRUG - KURTO@YAHOO.COM
E-MAIL ADDRESS

Project's Assessor Parcel Number(s):

003-222-01

Street Address

515 N. Nevada Street, Carson City, NV 89703

ZIP Code

Project's Master Plan Designation

MUR

Project's Current Zoning

RO

Nearest Major Cross Street(s)

Hwy 395 and Robinson

Briefly describe the work to be performed requiring HRC review and approval. In addition to the brief description of your project and proposed use, provide additional page(s) to show a more detailed summary of your project and proposal. NOTE: The Historic District Ordinance and Historic District Design Guidelines, as well as Policy Statements, are available in the Planning Division to aid applicants in preparing their plans. If necessary, attach additional sheets.

*Build an Alumawood Patio Cover
with Solid Roof, at back of Elks Lodge.*

Does the project require action by the Planning Commission or the Board of Supervisors? ☐ Yes ☒ No If Yes, please explain:

Will the project involve demolition or relocation of any structure within or into the Historic District? ☐ Yes ☒ No If Yes, please describe:

Reason for project:

shade and weather cover for the outdoor events at the Elk's Lodge.

SUPPORTING DOCUMENTATION

Each application requires 12 copies, folded to 8 1/2 x 11 inches, of quality site plan and drawings showing work to be performed on the subject project which requires HRC approval. Basically, this is any work which will affect the exterior of any structure and any modifications to the site, i.e., fences, walls, or major landscaping. The name of the person responsible for preparation of the plans and drawings shall appear on each sheet.

Attached is a Plan Checklist to aid preparation of plans and architectural drawings. It is understood that all checklist items will not be included in all projects. The list is intended to give the applicant an idea of the breadth of review by the Commission on those items which are included in the subject project. Photographs can be used for illustration and discussion, but are not acceptable as substitutes.


Owner's Signature


Owner's Printed Name


Applicant's/Agent's Signature


Applicant's/Agent's Printed Name

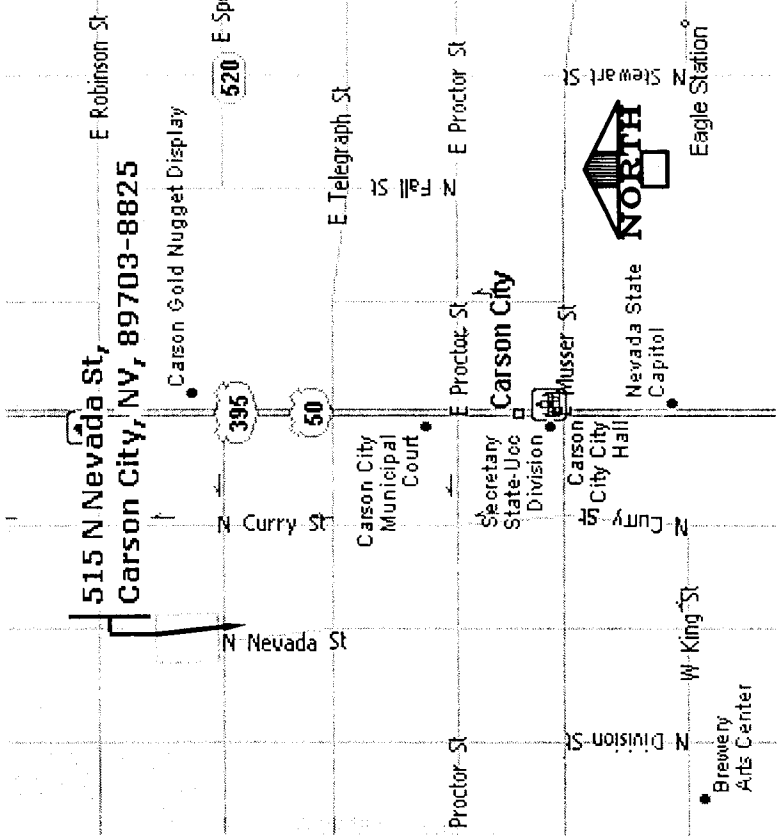
NRS 361.135 Exemptions of certain lodges, societies and similar charitable or benevolent organizations.

1. The funds, furniture, paraphernalia and regalia owned by any lodge of the Benevolent Protective Order of Elks, Fraternal Order of Eagles, Free and Accepted Masons, Independent Order of Odd Fellows, Knights of Pythias or Knights of Columbus, or by any similar charitable organization, or by the Lahontan Audubon Society, the National Audubon Society, Inc., of New York, the Defenders of Wildlife of the District of Columbia or any similar benevolent or charitable society, so long as they are used for the legitimate purposes of such lodge or society or for such charitable or benevolent purposes, are exempt from taxation.

2. The real estate and fixtures of any such organization or society are exempt from taxation, but when any such property is used for purposes other than those of such organization or society, and a rent or other valuable consideration is received for its use, the property so used must be taxed.

3. Where any structure or parcel of land is used partly for the purposes of such organization or society and partly for rental purposes, the area used for rental purposes must be assessed separately and that portion only may be taxed.

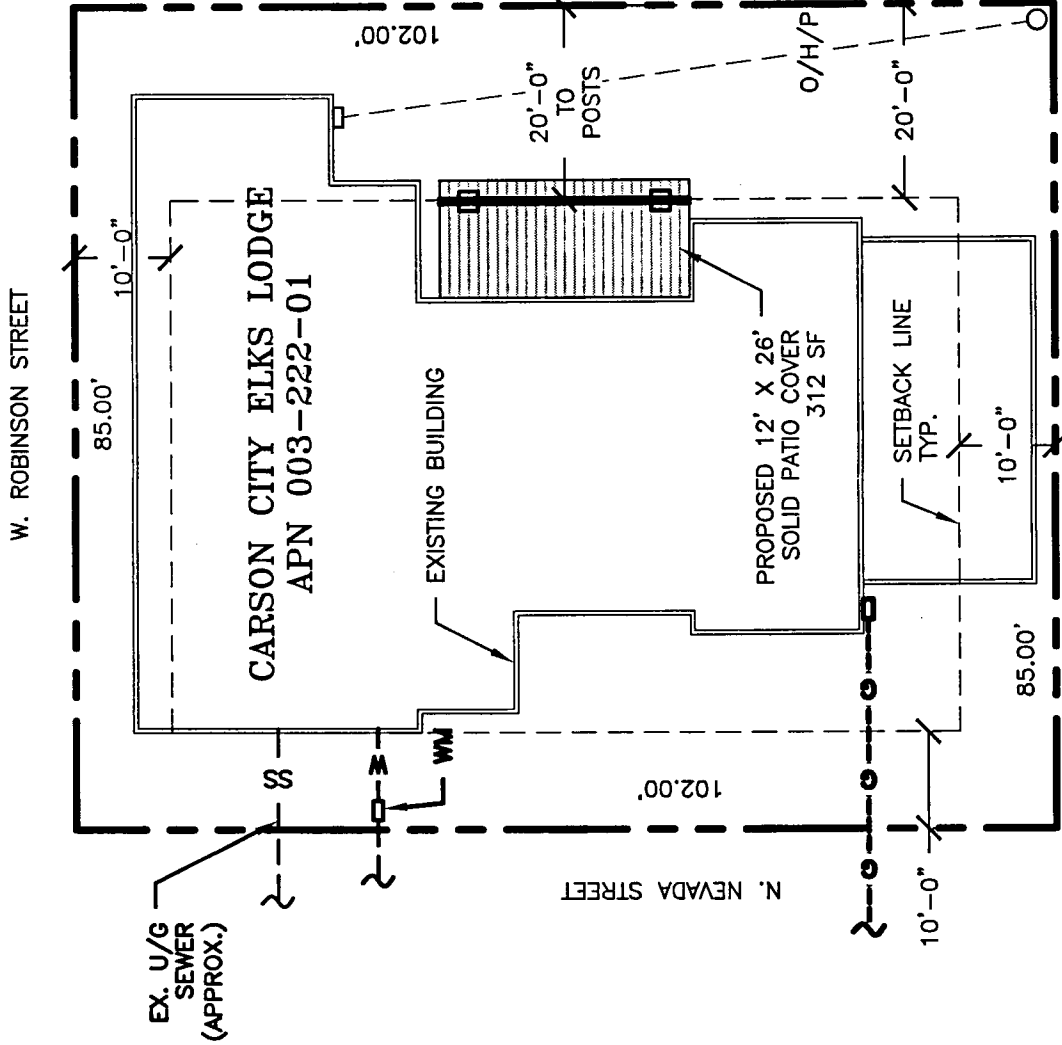
[Part 1:344:1953; A 1954, 29; 1955, 340]—(NRS A 1967, 982; 1971, 143; 1973, 1670; 2007, 1882)



VICINITY MAP

NOT TO SCALE

NO EXISTING OR
PROPOSED LANDSCAPING
IN THE AREA OF THE
PROPOSED COVER



SITE PLAN
1" = 20'

OWNER

ELKS LODGE
515 N. NEVADA ST.
CARSON CITY, NV, 89703
(775)885-7302, 882-2177

SHEET INDEX:

- C1 SITE PLAN
- A1 COVER PLAN
- A2 SECTION
- A3 FRONT ELEVATION

PROJECT SUMMARY

NEW 12' X 26' SOLID PATIO COVER

PROJECT LOCATION

SW 1/4 NW 1/4 SEC. 17, T15N - R20E
M.D.B. & M.

DESIGN CRITERIA

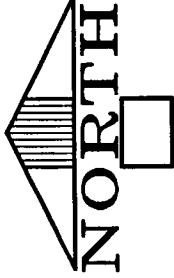
2006 IRC
2007 NORTHERN NEVADA AMENDMENTS
4 PSF ROOF DEAD LOAD
ELEVATION 4,692' AMSL
30 PSF UNIFORM GROUND SNOW LOAD
100 MPH WIND (3-SEC. GUST), EXP. C
SEISMIC DESIGN CATEGORY D

HRC - 11 - 058

RECEIVED

AUG 19 2011

CARSON CITY
PLANNING DIVISION



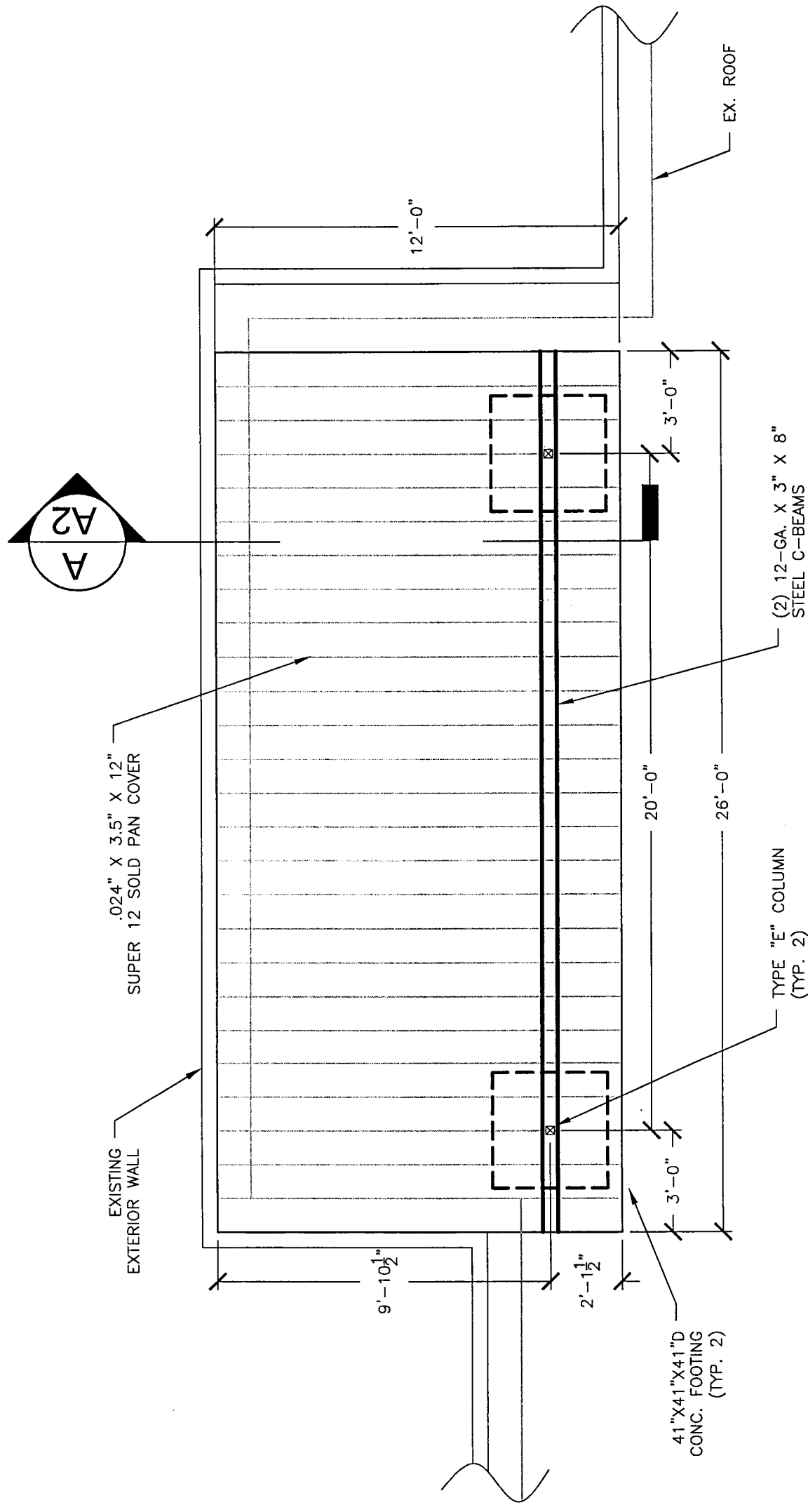
PROPOSED SOLID COVER
FOR:
ELKS LODGE
515 N. NEVADA STREET
CARSON CITY, NV
APN: 003-222-01

SCALE AS SHOWN
SITE PLAN
C1

Designer: Great Basin Deck & Shade
NV License # 72097 - Expiration Date 10/31/2012
Classif. C14H - Awnings & Louvers; Bid Limit \$25,000.00
301 Hot Springs Road #8A
Carson City, NV 89706
(775) 291-4224
Signed: *Kurt Krug*

REV.	DATE

- ARCHITECTURAL SPECIFICATIONS:
- 1. COVER - ALUMAWOOD SOLID.
 - 2. COLOR - WHITE.
 - 3. BEAM END STYLE - MITERED.



FRAMING/FOUNDATION PLAN

312 S.F. SCALE: 1/4" = 1'-0"

PROPOSED SOLID COVER
FOR:
ELKS LODGE
515 N. NEVADA STREET
CARSON CITY, NV
APN: 003-222-01

Great Basin Deck & Shade
NV license # 72097
301 Hot Springs Road #8A
Carson City, NV 89706
(775) 291-4224

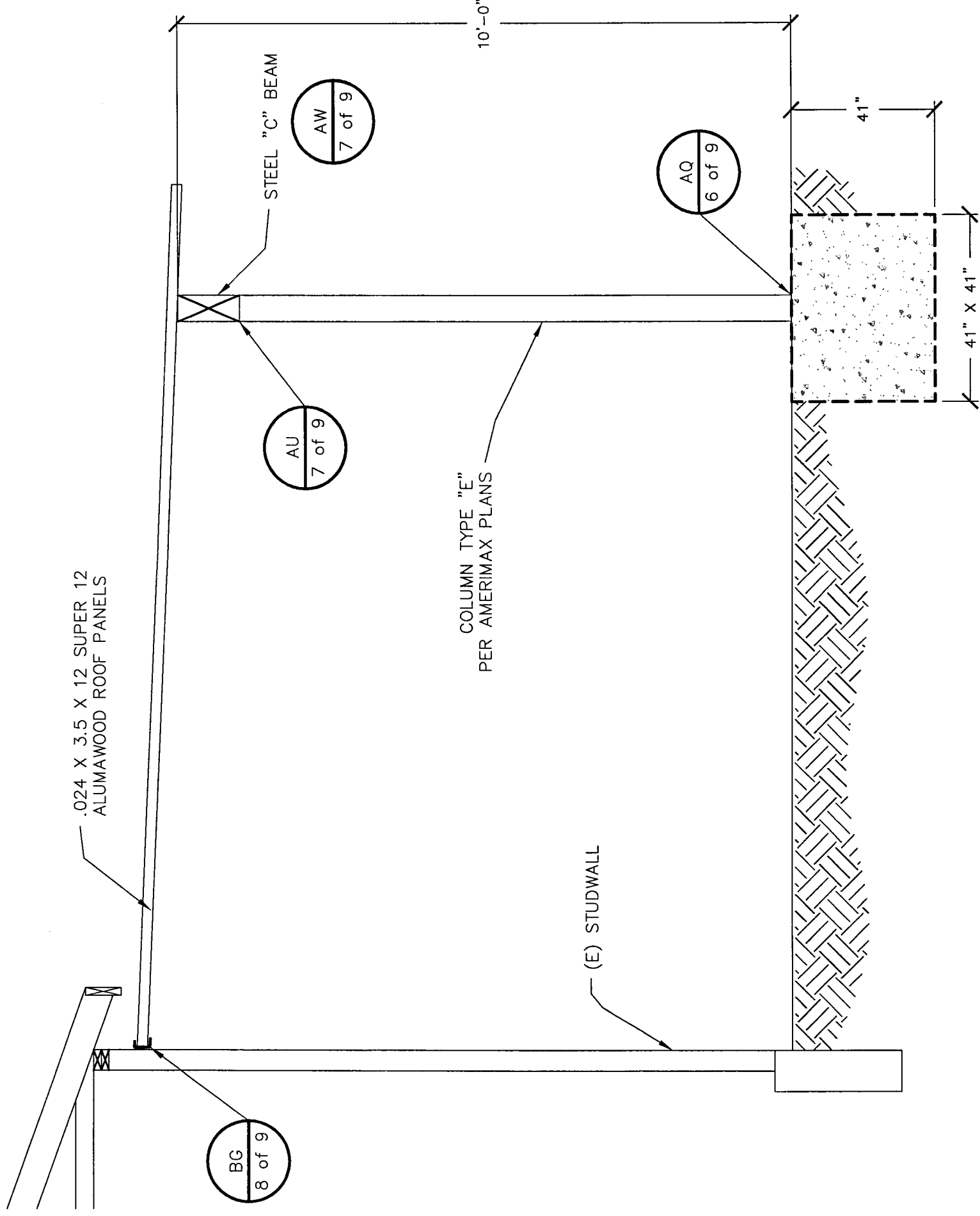
REV.	DATE

SCALE AS SHOWN	A1
COVER PLAN	

PROPOSED SOLID COVER
FOR:
ELKS LODGE
515 N. NEVADA STREET
CARSON CITY, NV
APN: 003-222-01

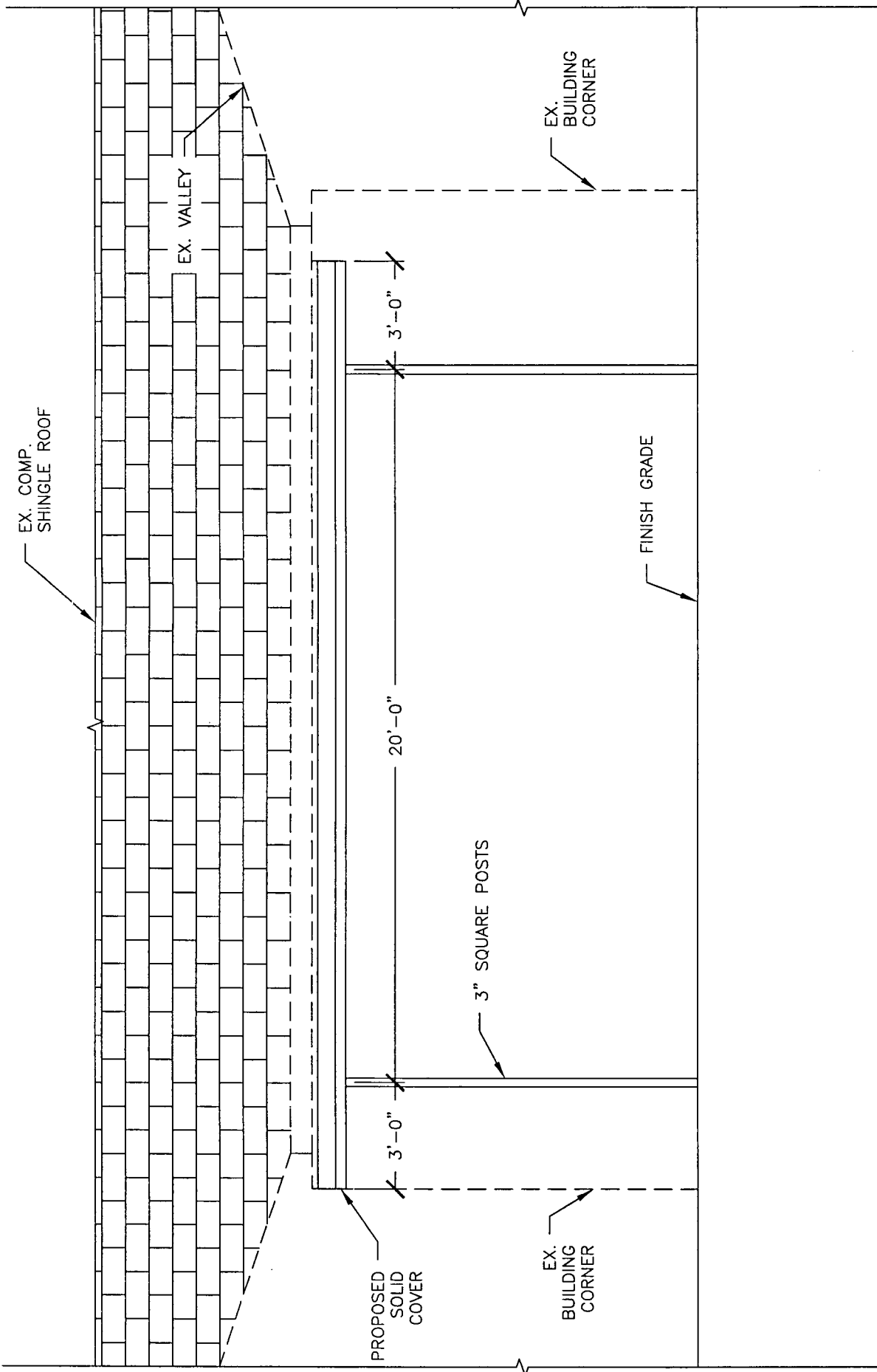
SCALE AS SHOWN	A2
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Great Basin Deck & Shade
NV license # 72097
301 Hot Springs Road #8A
Carson City, NV 89706
(775) 291-4224

[illegible]

SECTION

SCALE: $1/2'' = 1'-0''$



FRONT ELEVATION

SCALE: 1/4" = 1'-0"

PROPOSED SOLID COVER
FOR:
ELKS LODGE
515 N. NEVADA STREET
CARSON CITY, NV
APN: 003-222-01

Great Basin Deck & Shade
NV license # 72097
301 Hot Springs Road #8A
Carson City, NV 89706
(775) 291-4224

SCALE AS SHOWN

FRONT
VIEW

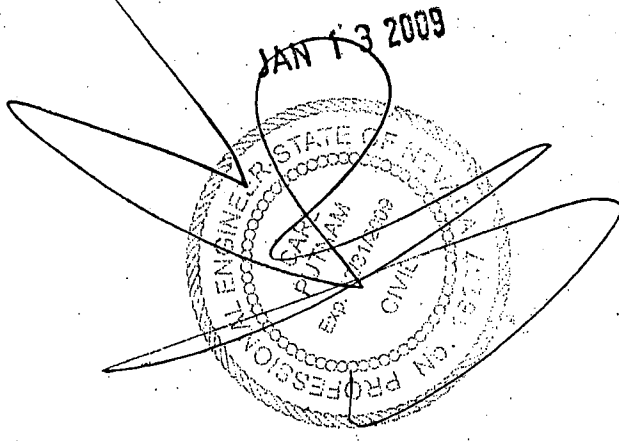
A3

REV.

DATE

Amerimax Building Products Patio Cover, Carport and Commercial Structure Engineering

PAGES	DRAWING	SECTION DESCRIPTION
1-2 2 PAGES	GN01-2006 GN02-2006	GENERAL NOTES
3-4 2 PAGES	SC01-2006 SC02-2006CC	SOLID PANEL STRUCTURAL CONFIGURATIONS ALUMAWOOD STRUCTURAL CONFIGURATIONS
5 1 PAGE	1	LATTICE 1.0 RAFTER SPANS FOR COMMERCIAL AND PATIO STRUCTURES
6-9 4 PAGES	2-5	LATTICE 2.0 POST SPACINGS FOR LATTICE PATIO AND COMMERCIAL STRUCTURES IN 90 MPH WIND AREAS
10-13 4 PAGES	6-9	LATTICE 3.0 POST SPACINGS FOR LATTICE PATIO AND COMMERCIAL STRUCTURES IN HIGH WIND AREAS
14-16 3 PAGES	LT01-2006 LT02-2006 LT03-2006	COMPONENT PARTS AND CONNECTION DETAILS FOR LATTICE STRUCTURES
17 1 PAGE	1	SOLID COVER 4.0 PANEL SPANS FOR COMMERCIAL AND PATIO STRUCTURES
18-27 10 PAGES	2-11	SOLID COVER 5.0 POST SPACINGS FOR LATTICE PATIO AND COMMERCIAL STRUCTURES IN 90 MPH WIND AREAS
28-37 10 PAGES	12-21	SOLID COVER 6.0 POST SPACINGS FOR LATTICE PATIO AND COMMERCIAL STRUCTURES IN HIGH WIND AREAS
38-41 4 PAGES	NP01-2006 NP02-2006 NP03-2006 NP04-2006	COMPONENT PARTS AND CONNECTION DETAILS FOR NEWPORTS
42-50 9 PAGES	CD01-2006 CD02-2006 CD03-2006 CD04-2006 CD05-2006 CD06-2006 CD07-2006 CD08-2006 CD09-2006	COMPONENT PARTS AND CONNECTION DETAILS
51-55 5 PAGE	M1-2006 M2-2006 M3-2006 M4-2006 M5-2006	MISCELLANEOUS DETAILS MISCELLANEOUS DETAILS 7.0 POST AND FASTENER REQUIREMENTS FOR ALL STRUCTURES 7.0 FOOTING AND SLAB ATTACHMENT TABLES 7.0 REQUIREMENTS FOR SURFACE MOUNTED POSTS ON CONCRETE SLABS OR FOOTINGS



July 29, 2008

GENERAL NOTES:

1. DESIGNED IN ACCORDANCE WITH THE 2006 INTERNATIONAL BUILDING CODE. THIS REVIEW INCLUDES THE 2007 CALIFORNIA BUILDING CODE PROVISIONS THAT ARE LOCALLY ENFORCEABLE AND UNDER THE JURISDICTION OF CITY AND COUNTY BUILDING OFFICIALS. PROVISIONS RELATED SPECIFICALLY TO HOSPITALS AND PUBLIC SCHOOLS IN CALIFORNIA ARE NOT PART OF THIS REVIEW.
2. ALUMINUM DESIGN IN ACCORDANCE WITH THE 2000 EDITION OF ALUMINUM ASSOCIATION'S SPECIFICATIONS AND CHAPTER 20 OF THE INTERNATIONAL BUILDING CODE.

DESIGN LOADINGS:		DESIGN LOAD	
GROUND SNOW LOAD			
10 PSF	10 PSF	LIVE OR GROUND SNOW	
20 PSF	20 PSF	LIVE OR GROUND SNOW	
25 PSF	21 PSF		
30 PSF	25.2 PSF		
40 PSF	33.6 PSF		
60 PSF	50.4 PSF		

FOR 0.25/12 > SLOPE < 1/12

WIND SPEEDS IN THE 2006 IBC ARE "3 SECOND GUST WIND SPEED." ALL STRUCTURES DESCRIBED IN THIS REPORT ARE DESIGNED USING PRESSURES CALCULATED FORM "3 SECOND GUST WIND SPEEDS".

NOTE: EXPOSURE B: URBAN AND SUBURBAN AREAS, WOODED AREAS, OR OTHER TERRAIN WITH NUMEROUS CLOSELY SPACED OBSTRUCTIONS HAVING THE SIZE OF SINGLE-FAMILY DWELLINGS OR LARGER. EXPOSURE B SHALL BE ASSUMED UNLESS THE SITE MEET THE DEFINITION OF ANOTHER TYPE EXPOSURE.

EXPOSURE C: OPEN TERRAIN WITH SCATTERED OBSTRUCTIONS, INCLUDING SURFACE UNDULATIONS OR OTHER IRREGULARITIES, HAVING HEIGHTS GENERALLY LESS THAN 30 FEET (9144 MM) EXTENDING MORE THAN 1,500 FEET (457.2 M) FROM THE BUILDING SITE IN ANY QUADRANT THIS EXPOSURE SHALL ALSO APPLY TO ANY BUILDING LOCATED WITHIN EXPOSURE B TYPE TERRAIN WHERE THE BUILDING IS DIRECTLY ADJACENT TO OPEN AREAS OF EXPOSURE C TYPE TERRAIN IN ANY QUADRANT FOR A DISTANCE OF MORE THAN 600 FEET (182.9 M). THIS CATEGORY INCLUDES FLAT OPEN COUNTRY, GRASSLANDS AND SHORELINES IN HURRICANE-PRONE REGIONS.

SEISMIC LOADING

MAXIMUM S_s = 150% SHOWN IN 2006 IBC FIGURE 1613.5(1)

S1 NOT APPLICABLE TO THESE STRUCTURES

SITE CLASS = D

BASIC SEISMIC FORCE RESISTNG SYSTEM

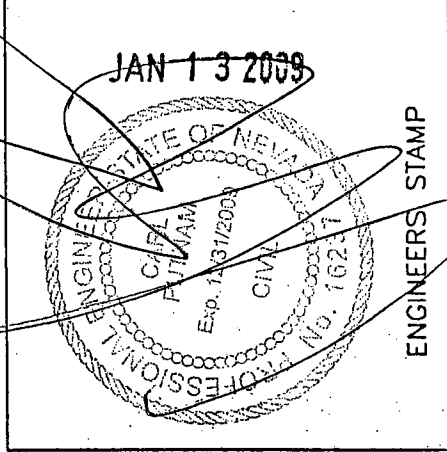
POSTS EMBEDDED INTO FOOTINGS = INVERTED PENDULUM >> $R = 2.0$

POSTS SURFACE MOUNTED = GENERIC SYSTEM >> $R = 1.25$

ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE PROCEDURE

4. THIS ENTIRE ENGINEERING PACKAGE IS NOT REQUIRED FOR MOST BUILDING PERMITS. SUBMISSION FOR A BUILDING PERMIT MUST INCLUDE:

- GENERAL NOTES (2 PAGES)
- STRUCTURAL CONFIGURATIONS (1 OR 2 PAGES)
- RAFTER SPAN TABLES (FOR LATTICE STRUCTURES), PANEL SPAN TABLES FOR SOLID COVER STRUCTURES) OR BOTH (FOR COMBINATION STRUCTURES)
- HEADER POST SPACING, FOOTING SIZE AND POST TABLE FOR LIVE/SNOW AND WIND LOAD
- ALL APPROPRIATE DETAILS
- OTHER DOCUMENTATION REQUIRED BY LOCAL BUILDING AUTHORITY.



5208 TENNYSON PARKWAY
SUITE 100
BUILDING PRODUCTS, INC. PLANO, TEXAS 75024

DRAWN BY: CMP

SCALE: NONE

DATE: 7/29/08

DRAWING OR PART NAME

DRAWING OR PART NUMBER

GENERAL NOTES

GN01 - 2006

GENERAL NOTES:
(CONTINUED FROM SHEET NO. 1)

5. CONCRETE MIX: $F_c=2500$, 3000 OR 3500 PSI FOR 28 DAYS IN NEGLIGIBLE, MODERATE, AND SEVERE CONDITIONS AS SHOWN IN FIGURE 1904.2.2 OF THE 2006 IBC. PATIO STRUCTURES MAY BE ATTACHED TO CONCRETE SLAB WITHOUT FOOTINGS WHEN THE POST LOAD IS 750# OR LESS. CONCRETE SHALL BE A MINIMUM OF 3.5 INCHES THICK AND NO CRACKS WITHIN 2'-6" OF POSTS. POSTS SHALL BE SET BACK A MINIMUM OF 4 INCHES FROM EDGE OR EXPANSION JOINT OF A SLAB.
6. FOOTINGS HAVE BEEN DESIGNED FOR CLASS 5 SOIL. ALLOWABLE FOUNDATION PRESSURE IS 1500 POUNDS PER SQUARE FOOT. LATERAL BEARING PRESSURE IS 100 PSF/FT AND IS DOUBLED PER 1804.3.1. THESE DESIGN VALUES DO NOT APPLY TO MUD, ORGANIC SILTS, ORGANIC CLAYS, PEAT OR UNPREPARED FILLS AND MAY REQUIRE FURTHER SOIL INVESTIGATION. UNITS IN SNOW/LIVE LOAD AREA OF 25 PSF OR LESS MAY BE BUILT ON 1000 PSF BEARING SOIL W/O ADDITIONAL ENGINEERING.
7. 20 PSF AND HIGHER LIVE LOAD STRUCTURES MAY BE USED FOR PARKING OF MOTOR VEHICLES. CARPORTS MUST HAVE AT LEAST TWO OPEN SIDES AND HAVE FLOOR SURFACES MADE OF APPROVED NONCOMBUSTIBLE MATERIAL OR ASPHALT.
8. FREESTANDING STRUCTURES SHALL NOT BE ENCLOSED IN ANY MANNER.
9. STEEL BOLTS SHALL BE ASTM A-307 AND HOT DIPPED GALVANIZED, MECHANICALLY GALVANIZED, ZINC ELECTROPLATED, ALUMINIZED OR 3000 SERIES STAINLESS STEEL
10. ALTERNATE ALUMINUM ALLOYS OF EQUAL OR HIGHER STRENGTHS MAY BE USED.
11. STEEL FASTENERS SHALL BE EITHER STAINLESS (3000 SERIES), GALVANIZED OR DOUBLE CADMIUM PLATED. CONCRETE ANCHOR BOLTS ARE 3/8" W/ 2" EMBED STAINLESS STEEL HILTI KWIK BOLT TZ (ICC ESR 1917) OR EQUIVALENT. ANCHORS ATTACHED TO CONCRETE SLAB WILL HAVE ALLOWABLE TENSILE OF 750 LBF AND SHEAR OF 500 LBF.
12. EMBEDDED POST SURFACES SHALL BE CLEAN AND FREE FROM OILY SURFACES.
13. HEADER SPLICES SHALL NOT BE LOCATED NEARER TO THE END OF THE STRUCTURE THAN THE FIRST INTERIOR POST. (EXCEPT FOR FULL STRENGTH SPLICES) FULL STRENGTH SPLICES (DETAILS O, U, AND X) MAY BE LOCATED ANYWHERE.
14. ALL SELF DRILLING AND SELF TAPPING SCREWS MUST COMPLY TO ICC ESR 1720, 1976, 2196 OR EQUIVALENT.
15. ATTACHED STRUCTURES MAY NOT BE ENCLOSED IN ANY MANNER WITHOUT ADDITIONAL ENGINEERING ANALYSIS OR APPROVAL OF THE LOCAL BUILDING AUTHORITY.
16. ROOF PANELS ARE CLASS "B" FIRE RATED.
17. STRUCTURES MAY BE ATTACHED TO EAVE OVERHANGS PER SCHEDULE.

7/29/2008

Page 2 of 55

18. WHERE ALUMINUM ALLOY PARTS ARE IN CONTACT WITH DISSIMILAR METALS OTHER THAN STAINLESS, ALUMINIZED OR GALVANIZED STEEL, OR ABSORBENT BUILDING MATERIALS, LIKELY TO BE CONTINUOUSLY OR INTERMITTENTLY WET, THE FAYING SURFACES SHALL BE PAINTED OR OTHERWISE SEPARATED IN ACCORDANCE WITH THE ALUMINUM DESIGN MANUAL PART I-A SECTION 6.6.1

19. WHEN A SINGLE SPAN ATTACHED UNIT IS ATTACHED TO A WOODEN DECK, THE MAXIMUM DEAD LOAD + LIVE LOAD FROM THE PATIO COVER IS 750LBS AND THE POST SPACING SHALL NOT EXCEED THAT SPECIFIED FOR ATTACHING TO A CONCRETE SLAB. THE MAXIMUM CONNECTION UPLIFT LOAD IS 800 LBS FOR 90MPH EXP C WIND SPEED. CONNECTIONS ARE FOR MAXIMUM PATIO ROOF HEIGHTS OF 12 FT FROM GRADE. THE EXISTING DECK STRUCTURE MUST BE ADEQUATE TO SUSTAIN THESE ADDITIONAL LOADS. THE STRUCTURAL ADEQUACY OF THE DECK TO SAFELY SUSTAIN THESE ADDITIONAL LOADS WILL REQUIRE APPROVAL BY LOCAL BUILDING AUTHORITY OR ADDITIONAL ENGINEERING. SEE DETAIL L13, L14, N12, N13, AL OR AM. CONSTRUCTION OUTSIDE OF THESE PARAMETERS MAY REQUIRE ADDITIONAL ENGINEERING.

20. ANY UNIT BUILT WITH A ROOF SNOW LOAD GREATER THAN 30 PSF IN A SEISMICALLY ACTIVE AREA MAY REQUIRE ADDITIONAL ENGINEERING AT THE DISCRETION OF THE LOCAL BUILDING AUTHORITY.

21. DRIFTING SNOW IS ADDRESSED IN DETAIL BR. SLIDING SNOW IS BEYOND THE SCOPE OF THIS REPORT.

22. ALL MULTISPAN TABLES AND DETAILS ASSUME EQUAL SPANS WITHIN 20%. ALL SPECIFICATIONS MUST BE BASED ON LONGEST ACTUAL SPAN.

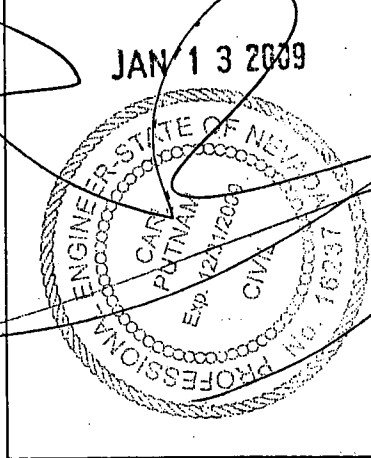
GENERAL NOTES FOR LATTICE STRUCTURES:

(PERTAINS TO LATTICE STRUCTURES ON DRAWINGS SC02-2006 AND LT01-2006 THRU LT03-2006.)

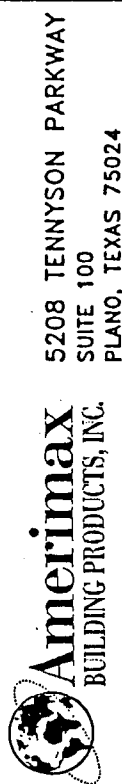
1. SEE GENERAL NOTES, SHEET 1, SECTION 4 FOR LIVE AND SNOW LOADS.

2. OPEN LATTICE STRUCTURES SHALL NOT BE ENCLOSED.

3. SINGLE SPAN LATTICE STRUCTURES THAT USE DETAILS L13, L14 OR L25 MUST COMPLY WITH TABLE L1 AND L2 ON SHEET M5.



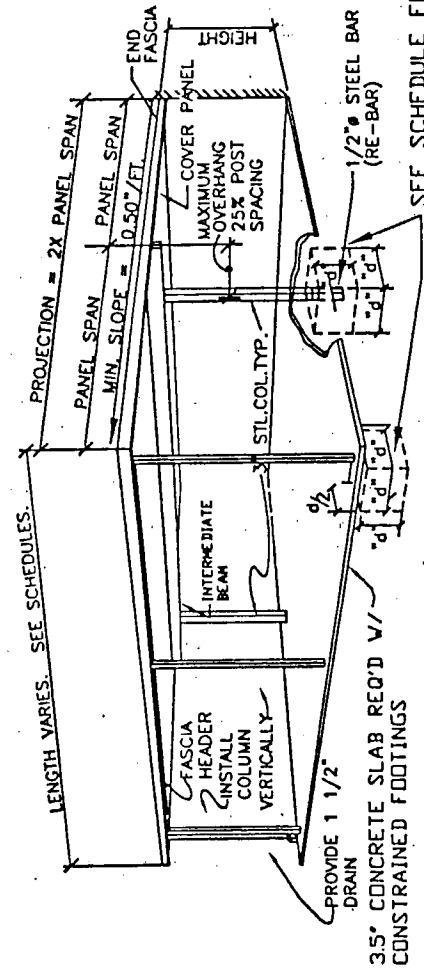
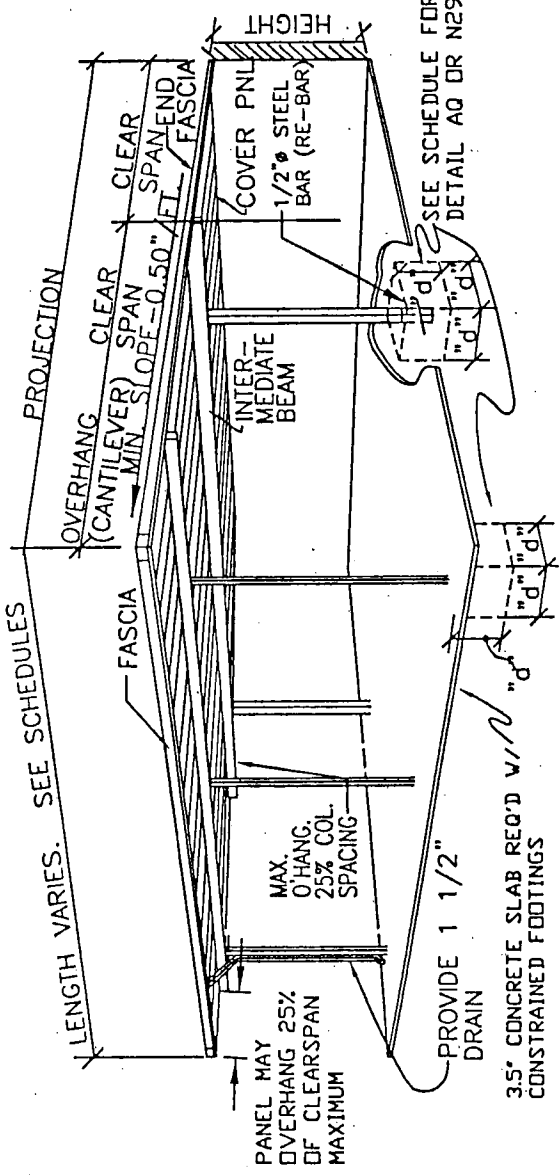
ENGINEERS STAMP



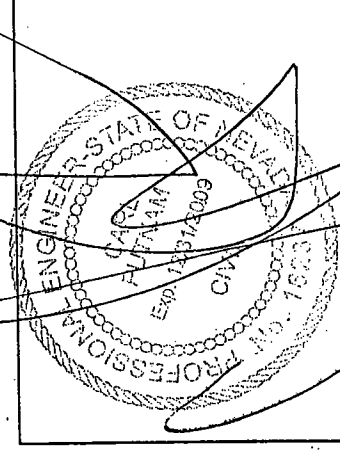
DRAWN BY: CMP	DRAWING OR PART NAME	GENERAL NOTES
SCALE: NONE		
DATE: 7/29/08	DRAWING OR PART NUMBER	SHEET 2 OF 2
		GN02-2006

This technical drawing illustrates the cross-section of a bridge deck, detailing its structural components and dimensions. The drawing includes the following elements:

- Deck Structure:** The main body of the bridge deck, shown with diagonal hatching to indicate reinforcement.
- Concrete Slab:** The top layer of the deck, labeled "CONCRETE SLAB REQ'D W/ CONstrained FOOTINGS".
- Reinforcement:**
 - MAX. O'HANG 25% OF POST SPACING:** Dimension indicating the maximum overhang of the reinforcement bars.
 - SEE SCHEDULE FOR POST SPACING:** Reference to the reinforcement schedule for post spacing.
 - SEE SCHEDULE FOR INTERMED. BEAM SPANS:** Reference to the reinforcement schedule for intermediate beam spans.
 - MIN. SLOPE = 0.50' / 1' :** Dimension indicating the minimum slope of the deck surface.
 - 1-1/2" x 6" REBAR:** Specification of the reinforcement bar size.
- Dimensions and Spacing:**
 - HEIGHT:** Dimension indicating the overall height of the deck structure.
 - PANEL SPAN:** Dimension indicating the span between panels.
 - MAXIMUM LENGTH DEPENDS ON NUMBER OF ALLOWABLE BEAM SPAN + O'HANG:** Dimension indicating the maximum length of the reinforcement bars.
- Other Labels:**
 - FOR COVER PANEL 7' :** Reference to the cover panel for panel 7'.
 - 3.5' CONCRETE SLAB REQ'D W/ CONstrained FOOTINGS:** Dimension indicating the required concrete slab thickness for constrained footings.
 - SEE SCHEDULE FOR SIZE DETAIL A0 OR N29 ONLY:** Reference to the reinforcement schedule for size detail A0 or N29 only.



PATIO COVERS ARE LIMITED TO 12' HEIGHT. CARPORTS AND COMMERCIAL STRUCTURES ARE LIMITED TO 18' HEIGHT.



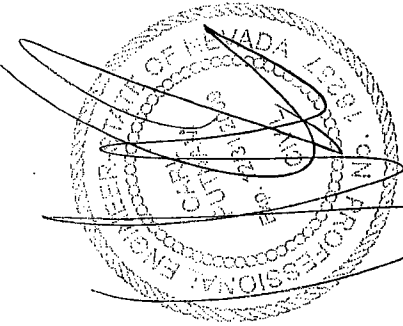
JAN 13 2000
ENGINEERS STAMP

 **Amerimax**
BUILDING PRODUCTS, INC.

5208 TENNYSON PARKWAY
SUITE 100
PLANO, TEXAS 75024

DRAWN BY: CMP		
SCALE: NONE	DRAWING OR PART NAME SOLID PANEL STRUCTURAL CONFIGURATIONS	
DATE: 7/29/08	DRAWING OR PART NUMBER SC01-2006	SHEET 1 OF 2

JAN 13 2023



Amerimax Building Products
5208 Tennyson Parkway
Plano, Texas 75024

Carl Putnam, P. E.
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Lynchburg, VA 24503
(434) 384-2514
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MAXIMUM ALLOWABLE TRIBUTARY WIDTH AND #10 SCREWS
FOR PANEL/HEADER COMBINATIONS

Table 4.9

Headers	Panel # of #10 screws per foot to attach panel to header									
	Gauge (in)	2	3	4	5	6	7	8	9	10
Dble 2x6.625	0.018	7'	10'	MAX	5'	8'	MAX	4'	5'	MAX
RF Fascia	0.018	7'	MAX	MAX	5'	MAX	MAX	4'	5'	MAX
3x8	0.018	7'	10'	MAX	5'	8'	MAX	4'	5'	MAX
All Others	0.018	7'	10'	MAX	5'	8'	MAX	4'	5'	MAX
Dble 2x6.625	0.024	9'	13'	MAX	7'	10'	MAX	5'	7'	MAX
RF Fascia	0.024	9'	MAX	MAX	7'	MAX	MAX	5'	MAX	MAX
3x8	0.024	9'	13'	MAX	7'	11'	MAX	5'	7'	MAX
All Others	0.024	9'	13'	MAX	7'	11'	MAX	5'	7'	MAX
Dble 2x6.625	0.032	9'	14'	MAX	7'	11'	15'	5'	7'	10'
RF Fascia	0.032	MAX	MAX	MAX	8'	MAX	MAX	6'	8'	MAX
3x8	0.032	11'	MAX	MAX	9'	13'	MAX	6'	9'	12'
All Others	0.032	12'	MAX	MAX	10'	15'	MAX	6'	10'	13'
Dble 2x6.625	0.036	9'	14'	MAX	7'	11'	15'	5'	7'	10'
RF Fascia	0.036	10'	MAX	MAX	8'	MAX	MAX	6'	8'	MAX
3x8	0.036	11'	MAX	MAX	9'	13'	MAX	6'	9'	12'
All Others	0.036	13'	MAX	MAX	11'	MAX	MAX	7'	11'	MAX

MAX means the maximum possible tributary width

MAXIMUM ALLOWABLE TRIBUTARY WIDTH AND #14 SCREWS
FOR PANEL/HEADER COMBINATIONS

Table 4.10

Headers	Panel # of #14 screws per foot to attach panel to header									
	Gauge (in)	2	3	4	5	6	7	8	9	10
Dble 2x6.625	0.018	9'	MAX	MAX	8'	MAX	MAX	5'	8'	MAX
RF Fascia	0.018	MAX	MAX	MAX	MAX	MAX	MAX	5'	MAX	MAX
3x8	0.018	9'	MAX	MAX	8'	MAX	MAX	5'	8'	MAX
All Others	0.018	9'	MAX	MAX	8'	MAX	MAX	5'	8'	MAX
Dble 2x6.625	0.024	12'	MAX	MAX	10'	MAX	MAX	7'	10'	MAX
RF Fascia	0.024	MAX	MAX	MAX	MAX	MAX	MAX	7'	MAX	MAX
3x8	0.024	12'	MAX	MAX	10'	MAX	MAX	7'	10'	MAX
All Others	0.024	12'	MAX	MAX	10'	MAX	MAX	7'	10'	MAX
Dble 2x6.625	0.032	12'	MAX	MAX	10'	MAX	MAX	7'	10'	MAX
RF Fascia	0.032	MAX	MAX	MAX	MAX	MAX	MAX	8'	MAX	MAX
3x8	0.032	15'	MAX	MAX	12'	MAX	MAX	8'	12'	MAX
All Others	0.032	MAX	MAX	MAX	MAX	MAX	MAX	9'	MAX	MAX
Dble 2x6.625	0.036	12'	MAX	MAX	10'	MAX	MAX	7'	10'	MAX
RF Fascia	0.036	MAX	MAX	MAX	MAX	MAX	MAX	8'	MAX	MAX
3x8	0.036	15'	MAX	MAX	12'	MAX	MAX	8'	12'	MAX
All Others	0.036	MAX	MAX	MAX	MAX	MAX	MAX	10'	MAX	MAX

2"x6" Flat Panel (Multispan)

and Exposure Exposure C	Ground Snow Load (psf)	Panel Gauge (in)	Wind Speed and Exposure			
			Exp B	90	105	110
" 7'-9"	10	0.018	11'-7"	11'-7"	9'-10"	9'-5"
" 10'-6"	LIVE	0.024	14'-8"	14'-7"	12'-5"	11'-10"
" 14'-1"		0.032	16'-4"	16'-4"	14'-11"	14'-5"
" 15'-2"		0.036	16'-11"	16'-11"	15'-6"	15'-0"
" 5'-4"	20	0.018	8'-2"	8'-2"	8'-2"	8'-2"
" 7'-7"	LIVE	0.024	10'-5"	10'-5"	10'-5"	10'-5"
" 10'-7"		0.032	13'-2"	13'-2"	13'-2"	13'-2"
" 12'-1"		0.036	13'-8"	13'-8"	13'-8"	13'-8"
" 5'-2"	25	0.018	8'-0"	8'-0"	8'-0"	8'-0"
" 7'-4"		0.024	10'-2"	10'-2"	10'-2"	10'-2"
" 10'-4"		0.032	13'-0"	13'-0"	13'-0"	13'-0"
" 11'-9"		0.036	13'-6"	13'-6"	13'-6"	13'-6"
" 4'-7"	30	0.018	7'-3"	7'-3"	7'-3"	7'-3"
" 6'-7"		0.024	9'-3"	9'-3"	9'-3"	9'-3"
" 9'-4"		0.032	11'-10"	11'-10"	11'-10"	11'-10"
" 10'-8"		0.036	12'-8"	12'-8"	12'-8"	12'-8"
" 3'-9"	40	0.018	6'-3"	6'-3"	6'-3"	6'-3"
" 5'-6"		0.024	8'-0"	8'-0"	8'-0"	8'-0"
" 7'-10"		0.032	10'-3"	10'-3"	10'-3"	10'-3"
" 9'-0"		0.036	11'-3"	11'-3"	11'-3"	11'-3"
" 2'-9"	60	0.018	5'-0"	5'-0"	5'-0"	5'-0"
" 4'-2"		0.024	6'-6"	6'-6"	6'-6"	6'-6"
" 6'-2"		0.032	8'-4"	8'-4"	8'-4"	8'-4"
" 7'-1"		0.036	9'-2"	9'-2"	9'-2"	9'-2"

TABLE 4.3

NOTE: PANELS MAY OVERHANG 25% OF THEIR CLEARSPAN

2"x6" Flat Panel (Single Span)

and Exposure Exposure C	Ground Snow Load (psf)	Panel Gauge (in)	Wind Speed and Exposure			
			Exp B	90	105	110
" 7'-7"	10	0.018	13'-8"	11'-7"	9'-10"	9'-5"
" 10'-2"	LIVE	0.024	15'-0"	14'-7"	12'-5"	11'-10"
" 13'-7"		0.032	16'-4"	16'-4"	14'-11"	14'-5"
" 14'-6"		0.036	16'-11"	16'-11"	15'-6"	15'-0"
" 7'-7"	20	0.018	10'-0"	10'-0"	9'-10"	9'-5"
" 10'-2"	LIVE	0.024	12'-0"	12'-0"	12'-0"	11'-10"
" 12'-5"		0.032	13'-2"	13'-2"	13'-2"	13'-2"
" 12'-11"		0.036	13'-8"	13'-8"	13'-8"	13'-8"
" 7'-7"	25	0.018	9'-10"	9'-10"	9'-10"	9'-5"
" 10'-2"		0.024	11'-10"	11'-10"	11'-10"	11'-10"
" 12'-3"		0.032	13'-0"	13'-0"	13'-0"	13'-0"
" 12'-8"		0.036	13'-6"	13'-6"	13'-6"	13'-6"
" 7'-7"	30	0.018	9'-0"	9'-0"	9'-0"	9'-0"
" 10'-1"		0.024	11'-2"	11'-2"	11'-2"	11'-2"
" 11'-6"		0.032	12'-3"	12'-3"	12'-3"	12'-3"
" 12'-0"		0.036	12'-8"	12'-8"	12'-8"	12'-8"
" 7'-4"	40	0.018	7'-9"	7'-9"	7'-9"	7'-9"
" 8'-9"		0.024	9'-10"	9'-10"	9'-10"	9'-10"
" 10'-5"		0.032	11'-2"	11'-2"	11'-2"	11'-2"
" 10'-11"		0.036	11'-7"	11'-7"	11'-7"	11'-7"
" 5'-4"	60	0.018	6'-4"	6'-4"	6'-4"	6'-4"
" 7'-2"		0.024	8'-0"	8'-0"	8'-0"	8'-0"
" 8'-6"		0.032	9'-7"	9'-7"	9'-7"	9'-7"
" 9'-2"		0.036	10'-2"	10'-2"	10'-2"	10'-2"

TABLE 4.7

TABLE 4.8

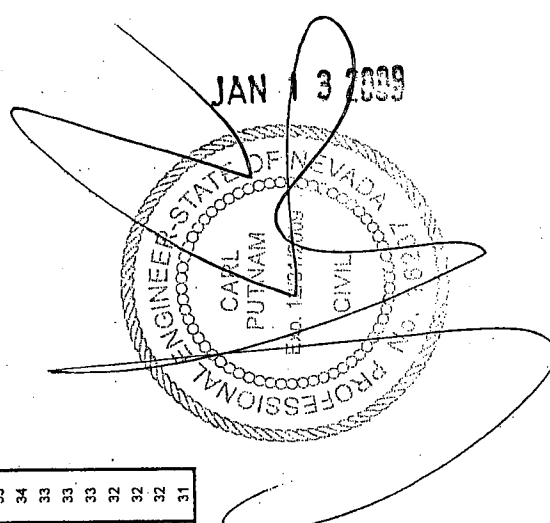
TABLE 6.5										16 Ga 3"x8" Steel C Beam (Detail 1)										Double 12 Ga 3"x8" Steel C Beam (T and A)									
GROUND LOAD (PSF)	SNOW LOAD (FT)	TRIB WIDTH (FT)	MAX SPACING ON SLAB (FT)	POST REQD FOR SLAB	MAX POST SPACING (FT)	Attached Structure				Freestanding or Multispan Units				Attached Structure				Freestanding or Multispan Units				Attached Structure				Freestanding or Multispan Units			
						MAX POST SPACING (FT)	MIN POST TYPE	MIN FOOTER SIZE "d"	MAX POST LENGTH "d"	MAX POST LENGTH "d"	MAX POST LENGTH "d"	MAX POST LENGTH "d"	MAX POST LENGTH "d"	MAX POST SPACING (FT)	MIN POST TYPE	MIN FOOTER SIZE "d"	MAX POST LENGTH "d"	MAX POST LENGTH "d"	MAX POST LENGTH "d"	MAX POST LENGTH "d"	MAX POST SPACING (FT)	MIN POST TYPE	MIN FOOTER SIZE "d"	MAX POST LENGTH "d"	MAX POST LENGTH "d"	MAX POST LENGTH "d"	MAX POST LENGTH "d"	MAX POST LENGTH "d"	MAX POST LENGTH "d"

25	3	3.5	8'-2"	A	26'-5"	D	D	31	34	37	42	17'-1"	C	27	30	34	38	38	38	38	38	38	38	38	38	38	38	38	38	38
	4	4	7'-2"	A	25'-1"	D	D	32	33	37	41	15'-4"	C	28	30	33	37	37	37	37	37	37	37	37	37	37	37	37	37	37
	4.5	4.5	6'-4"	A	24'-0"	D	D	33	33	36	41	13'-10"	C	28	29	32	37	36	36	36	36	36	36	36	36	36	36	36	36	36
	5	5.5	5'-9"	A	23'-0"	D	D	34	34	36	41	12'-8"	C	28	28	32	36	35	35	35	35	35	35	35	35	35	35	35	35	35
	5.5	5.5	5'-2"	A	21'-7"	D	D	35	35	35	40	11'-9"	C	28	28	31	35	34	34	34	34	34	34	34	34	34	34	34	34	34
	6	6	4'-9"	A	20'-3"	D	D	35	35	35	39	10'-11"	C	29	29	30	34	33	33	33	33	33	33	33	33	33	33	33	33	33
	6.5	6.5	4'-5"	A	19'-2"	D	D	36	36	36	39	9'-4"	C	29	29	30	34	33	33	33	33	33	33	33	33	33	33	33	33	33
	7	7	4'-1"	A	18'-2"	D	D	36	36	36	38	8'-8"	C	29	29	29	34	33	33	33	33	33	33	33	33	33	33	33	33	33
	7.5	7.5	3'-10"	A	16'-7"	D	D	36	36	36	38	8'-1"	C	29	29	29	33	32	32	32	32	32	32	32	32	32	32	32	32	32
	8	8	3'-7"	A	15'-10"	D	D	37	37	37	37	7'-7"	C	29	29	29	33	32	32	32	32	32	32	32	32	32	32	32	32	32

25	3	3.5	8'-7"	A	26'-5"	D	D	32	34	38	43	17'-1"	C	28	31	35	39	39	39	39	39	39	39	39	39	39	39	39	39	39
	4	4	7'-2"	A	25'-1"	D	D	33	34	38	42	15'-4"	C	28	30	34	38	38	38	38	38	38	38	38	38	38	38	38	38	38
	4.5	4.5	6'-4"	A	23'-0"	D	D	35	35	37	42	12'-8"	C	29	29	32	37	36	36	36	36	36	36	36	36	36	36	36	36	36
	5	5.5	5'-9"	A	21'-7"	D	D	36	36	36	41	11'-9"	C	29	29	31	36	35	35	35	35	35	35	35	35	35	35	35	35	35
	5.5	5.5	5'-2"	A	20'-3"	D	D	37	37	37	40	10'-11"	C	30	30	31	36	35	35	35	35	35	35	35	35	35	35	35	35	35
	6	6	4'-9"	A	19'-2"	D	D	37	37	37	40	10'-1"	C	30	30	30	35	34	34	34	34	34	34	34	34	34	34	34	34	34
	6.5	6.5	4'-5"	A	18'-2"	D	D	37	37	37	39	9'-4"	C	30	30	30	34	33	33	33	33	33	33	33	33	33	33	33	33	33
	7	7	4'-1"	A	17'-4"	D	D	38	38	38	39	8'-8"	C	30	30	30	34	33	33	33	33	33	33	33	33	33	33	33	33	33
	7.5	7.5	3'-10"	A	16'-7"	D	D	38	38	38	38	8'-1"	C	30	30	30	34	33	33	33	33	33	33	33	33	33	33	33	33	33
	8	8	3'-7"	A	15'-10"	D	D	38	38	38	38	7'-7"	C	30	30	30	34	33	33	33	33	33	33	33	33	33	33	33	33	33

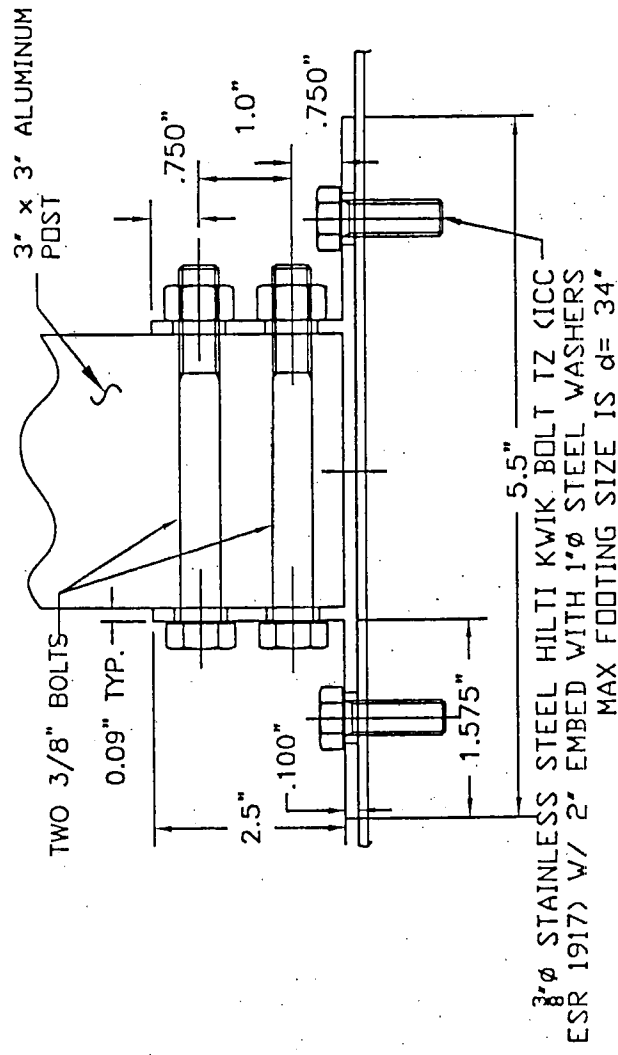
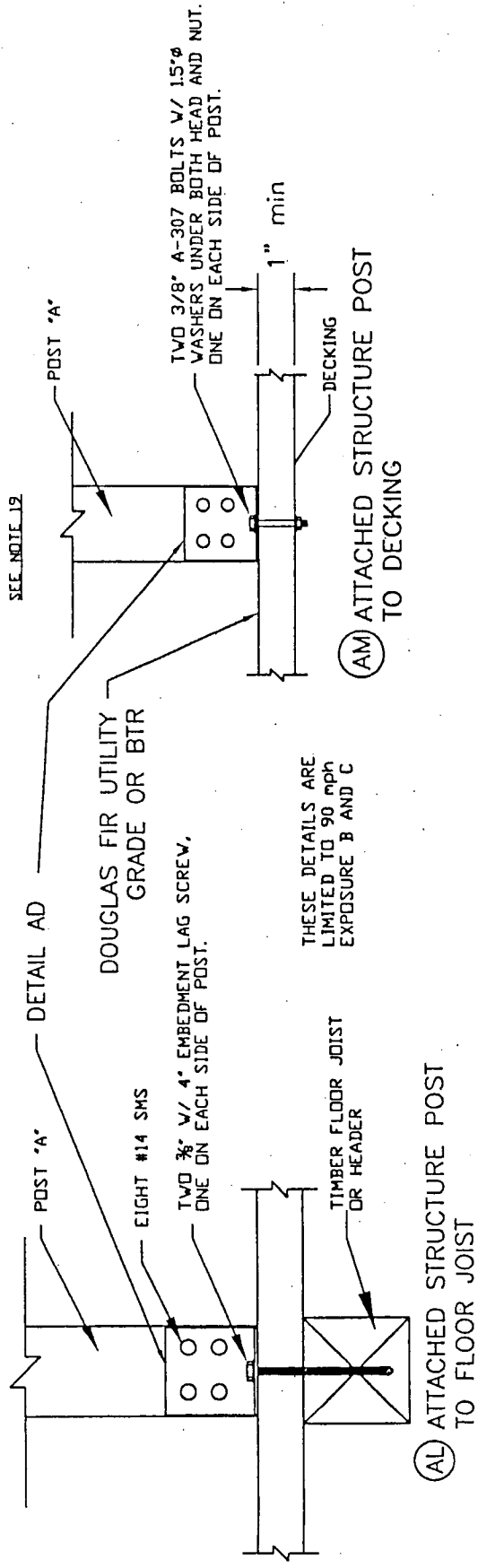
30	3	3.5	8'-0"	A	24'-10"	D	D	32	34	38	42	15'-1"	C	27	30	34	38	38	38	38	38	38	38	38	38	38	38	38	38	38
	4	4	6'-0"	A	23'-7"	D	D	33	33	37	42	13'-6"	C	27	29	33	37	36	36	36	36	36	36	36	36	36	36	36	36	36
	4.5	4.5	5'-4"	A	22'-3"	D	D	34	34	37	41	12'-2"	C	28	28	32	36	35	35	35	35	35	35	35	35	35	35	35	35	35
	5	5.5	4'-10"	A	20'-8"	D	D	35	35	36	41	11'-1"	C	28	28	31	35	34	34	34	34	34	34	34	34	34	34	34	34	34
	5.5	5.5	4'-4"	A	19'-4"	D	D	35	35	35	40	10'-2"	C	28	28	30	35	34	34	34	34	34	34	34	34	34	34	34	34	34
	6	6	4'-0"	A	18'-2"	D	D	35	35	35	39	9'-3"	C	28	28	30	35	34	34	34	34	34	34	34	34	34	34	34	34	34
	6.5	6.5	3'-8"	A	17'-1"	D	D	36	36	36	39	8'-5"	C	28	28	30	35	34	34	34	34	34	34	34	34	34	34	34	34	34
	7	7	3'-5"	A	16'-3"	D	D	36	36	36	38	7'-10"	C	28	28	29	34	33	33	33	33	33	33	33	33	33	33	33	33	33
	7.5	7.5	3'-2"	A	15'-5"	D	D	36	36	36	38	7'-4"	C	28	28	29	33	32	32	32	32	32	32	32	32	32	32	32	32	32
	8	8	3'-0"	A	14'-9"	D	D	36	36	36	38	6'-10"	C	28	28	28	33	32	32	32	32	32	32	32	32	32	32	32	32	32

30	3	3.5	8'-0"	A	24'-10"	D	D	31	33	37	41	15'-1"	C	26	29	33	37	37	37	37	37	37	37	37	37	37	37	37	37	37
	4	4	6'-0"	A	23'-7"	D	D	32	33	36	41	13'-6"	C	26	29	32	36	36	36	36	36	36	36	36	36	36	36	36	36	36
	4.5	4.5	5'-4"	A	22'-3"	D	D	33	33	36	40	12'-2"	C	27	28	31	35	35	35	35	35	35	35	35	35	35	35	35	35	35
	5	5.5	4'-10"	A	20'-8"	D	D	33	33	35	40	11'-1"	C	27	27	30	34	34	34	34	34	34	34	34	34	34	34	34	34	34
	5.5	5.5	4'-4"	A	19'-4"	D	D	34	34	34	39	10'-2"	C	27	27	29	33	33	33	33	33	33	33	33	33	33	33	33	33	33
	6	6	4'-0"	A	18'-2"	D	D	34	34	34	38	9'-3"	C	27	27	29	33	33	33	33	33	33	33	33	33	33	33	33	33	33
	6.5	6.5	3'-8"	A	17'-1"	D	D	34	34	34	38	8'-5"	C	27	27	29	33	33	33	33	33	33	33	33	33	33	33	33	33	33
	7	7	3'-5"	A	16'-3"	D	D	35	35	35	37	7'-10"	C	27	27	29	33	33	33	33	33	33	33	33	33	33	33	33	33	33
	7.5	7.5	3'-2"	A	15'-5"	D	D	35	35	35	37	7'-4"	C	27	27	29	33	33	33	33	33	33	33	33	33	33	33	33	33	33
	8	8	3'-0"	A	14'-9"	D	D	35	35	35	37	6'-10"	C	27	27	29	33	33	33	33	33	33	33	33	33	33	33	33	33	33

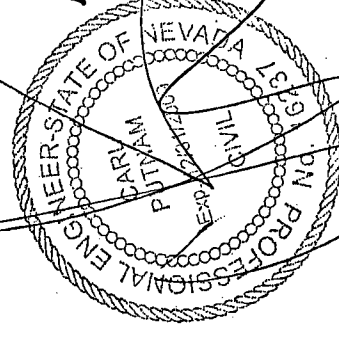
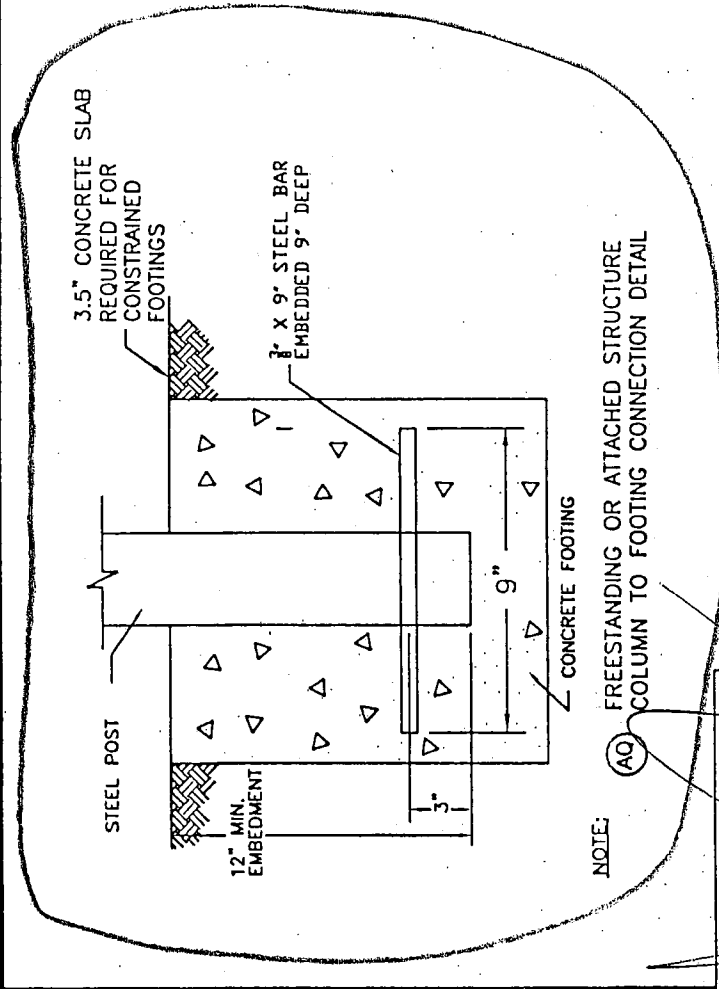


SOLID COVER 6.0 POST SPACINGS FOR PATIO AND COMMERCIAL COVERS HIGH WIND AREAS

TABLE 6.5										12 Ga 3"x8" Steel C Beam (Detail T)										16 Ga 3"x8" Steel C Beam (Detail T)										Double 12 Ga 3"x8" Steel C Beam (T and A)									
GROUND SNOW LOAD (PSF)	TRIB WIDTH (FT)	MAX POST SPACING ON SLAB (FT)	REQD FOR SLAB	MAX POST SPACING (FT)	Attached Structure			Freestanding or Multispan Units			MAX POST SPACING (FT)	Attached Structure			Freestanding or Multispan Units			MAX POST SPACING (FT)	Attached Structure			Freestanding or Multispan Units																	
					MIN POST TYPE	FOOTER SIZE	"d" (in)	MAX POST LENGTH 8' 12' 18' "d" (in)	MAX POST LENGTH 8' 12' 18' "d" (in)	MAX POST LENGTH 8' 12' 18' "d" (in)		MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE	"d" (in)	MAX POST LENGTH 8' 12' 18' "d" (in)	MAX POST LENGTH 8' 12' 18' "d" (in)		MAX POST LENGTH 8' 12' 18' "d" (in)	MAX POST SPACING (FT)	MIN POST TYPE	FOOTER SIZE	"d" (in)	MAX POST LENGTH 8' 12' 18' "d" (in)	MAX POST LENGTH 8' 12' 18' "d" (in)	MAX POST LENGTH 8' 12' 18' "d" (in)													
105 MPH EXPOSURE C																																							
10 LIVE	3	22-8"	A	27-8"	B	32	34	36	38	32	34	36	38	32	34	36	38	32	34	36	38	32	34	36	38	32	34	36	38										
	3.5	19-5"	A	26-4"	C	33	34	34	37	34	34	34	37	33	32	32	35	33	32	32	35	33	32	35	33	32	35	33	38										
	4	17-0"	A	25-3"	C	34	34	34	37	34	34	34	37	33	32	32	35	33	32	32	35	33	32	35	33	32	35	33	38										
	4.5	15-1"	A	24-3"	C	35	35	35	37	35	35	35	37	33	33	33	35	33	33	33	35	33	33	35	33	33	33	35	38										
	5	13-7"	A	23-6"	C	36	36	36	36	36	36	36	36	33	33	33	35	33	33	33	35	33	33	35	33	33	33	35	38										
	5.5	12-4"	A	22-9"	C	37	37	37	37	37	37	37	37	33	33	33	35	33	33	33	35	33	33	35	33	33	33	35	38										
	6	11-1"	A	22-2"	C	38	38	38	38	38	38	38	38	34	34	34	36	34	34	34	36	34	34	36	34	34	34	36	38										
	6.5	10-5"	A	21-7"	C	39	39	39	39	39	39	39	39	34	34	34	36	34	34	34	36	34	34	36	34	34	34	36	38										
	7	9-8"	A	21-1"	C	39	39	39	39	39	39	39	39	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	40										
	7.5	9-1"	A	20-7"	C	39	39	39	39	39	39	39	39	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	41										
	8	8-6"	A	20-2"	C	40	40	40	40	40	40	40	40	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	42										
	8.5	8-0"	A	19-9"	D	40	40	40	40	40	40	40	40	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	43										
	9	7-6"	A	18-5"	D	41	41	41	41	41	41	41	41	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	44										
9.5	7-2"	A	19-1"	D	41	41	41	41	41	41	41	41	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	44											
10	6-9"	A	18-9"	D	42	42	42	42	42	42	42	42	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	44											
11	6-2"	A	18-2"	D	43	43	43	43	43	43	43	43	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	45											
12	5-8"	A	17-8"	D	43	43	43	43	43	43	43	43	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	46											
13	5-2"	A	17-2"	D	44	44	44	44	44	44	44	44	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	47											
110 MPH EXPOSURE C																																							
10 LIVE	3	22-8"	A	26-10"	B	33	35	36	38	33	35	36	38	33	33	33	36	33	33	33	36	33	33	36	33	33	33	36	39										
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	4	17-0"	A	24-6"	C	35	35	35	38	35	35	35	38	33	33	33	36	33	33	33	36	33	33	36	33	33	33	36	39										
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	5	13-7"	A	22-10"	C	37	37	37	37	37	37	37	37	34	34	34	35	34	34	34	35	34	34	35	34	34	34	35	39										
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	7	9-8"	A	20-5"	C	40	40	40	40	40	40	40	40	36	36	36	36	36	36	36	36	36	36	36	36	36	36	42											
	7.5	9-1"	A	20-0"	C	40	40	40	40	40	40	40	40	36	36	36	36	36	36	36	36	36	36	36	36	36	36	43											
	8	8-5"	A	19-7"	C	41	41	41	41	41	41	41	41	36	36	36	36	36	36	36	36	36	36	36	36	36	36	43											
	8.5	8-0"	A	19-2"	D	41	41	41	41	41	41	41	41	36	36	36	36	36	36	36	36	36	36	36	36	36	36	44											
	9	7-6"	A	18-10"	D	42	42	42	42	42	42	42	42	36	36	36	36	36	36	36	36	36	36	36	36	36	36	44											
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11	6-2"	A	17-8"	D	44	44	44	44	44	44	44	44	36	36	36	36	36	36	36	36	36	36	36	36	36	36	46												
12	5-8"	A	17-2"	D	44	44	44	44	44	44	44	44	36	36	36	36	36	36	36	36	36	36	36	36	36	36	47												
13	5-2"	A	16-8"	D	45	45	45	45	45	45	45	45	36	36	36	36	36	36	36	36	36	36	36	36	36	36	48												
105 MPH EXPOSURE C																																							
20 LIVE	3	11-10"	A	26-10"	C	32	34	34	37	32	34	34	37	32	31	31	34	32	31	31	34	32	31	31	34	32	31	31	38	43									
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	4	8-11"	A	24-5"	D	34	34	34	37	34	34	34	37	32	28	28	29	33	28	28	29	33	28	28	29	33	28	28	38	43									
	4.5	7-11"	A	23-5"	D	34	34	34	36	34	34	34	36	32	28	28	29	32	28	28	29	32	28	28	29	32	28	28	38	43									
	5	7-1"	A	22-2"	D	35	35	35	36	35	35	35	36	32	29	29	31	36	29	29	31	36	29	29	31	36	29	29	38	43									
	5.5	6-5"	A	20-11"	D	35	35	35	35	35	35	35	35	32	29	29	31	35	29	29	31	35	29	29	31	35	29	29	39	42									
	6	5-11"	A	19-9"	D	36	36	36	36	36	36	36	36	32	29	29	30	35	29	29	30	35	29	29	30	35	29	29	40	42									
	6.5	5-5"	A	18-9"	D	36	36	36	36	36	36	36	36	32	29	29	30	34	29	29	30	34	29	29	30	34	29	29	40	42									
	7	5-1"	A	17-10"	D	36	36	36	36	36	36	36	36	32	29	29	29	33	29	29	29	33	29	29	29	33	29	29	41	42									
	7.5	4-9"	A	16-4"	D	37	37	37	37	37	37	37	37	32	29	29	29	33	29	29	29	33	29	29	29	33	29	29	42	42									
	8	4-5"	A	16-1"	D	37	37	37	37	37	37	37	37	32	29	29	29	33	29	29	29	33	29	29	29	33	29	29	42	42									
	8.5	4-2"	A	15-8"	D	37	37	37	37	37	37	37	37	32	29	29	29	33	29	29	29	33	29	29	29	33	29	29	43	43									
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12	2-11"	A	12-4"	D	39	39	39	39	39	39	39	39	32	29	29	29	33	29	29	29	33	29	29</																



(AP) POST TO FOOTING OR SLAB ATTACHMENT DETAIL
SINGLE SPAN ATTACHED UNITS ONLY



JAN 13 2009
Engineer's Stamp

Amerimax
BUILDING PRODUCTS, INC.
5208 TENNYSON PARKWAY
SUITE 100
PLANO, TEXAS 75024

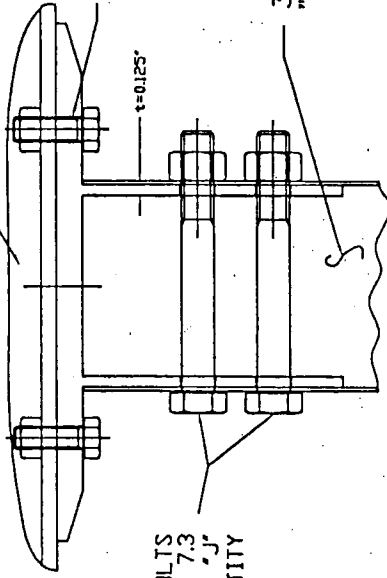
DRAWN BY:	BEJ/CP	TYPE:	
SCALE:	NTS	NAME:	
DATE:	7/29/08	FILE:	CD06-2006
		SHEET:	6 of 9

3/8" BOLTS W/ 1.0" DIA.
x 3/32" THK. STL. WASHER OR
#14 SDS. SEE NOTE FOR QTY.

ALL 'I' BEAMS & 'C' BEAMS
USE TABLE 7.3 COLUMN H
FOR NUMBER OF HORIZONTAL
BOLTS
USE TABLE 7.4 COLUMN N
FOR VERTICAL BOLTS
USE 7.3 COLUMN I FOR
HORIZONTAL #14 SDS
UES TABLE 7.4 COLUMN D
FOR VERTICAL #14 SDS
(SDS= SELF DRILLING
SCREW)

(AR) ALTERNATE 3" SQ. POST CONNECTOR BRACKET
(6063-T6 ALUM. ALLOY)

ALUMINUM 'I' BEAM OR STEEL 'C' BEAM



TWO 3/8" BOLTS
SEE TABLE 7.3
COLUMN 'J'
FOR QUANTITY

(AT) 3" STEEL POST TO HEADER CONN. BRACKET
(6063-T6 ALUM.)

TWO 3/8" BOLTS W/
1"Ø x 3/32" THK.
STEEL WASHER. SEE
TABLE 7.4 COLUMN
'N' FOR QUANTITY.

3" STEEL POST
't' = 0.041"

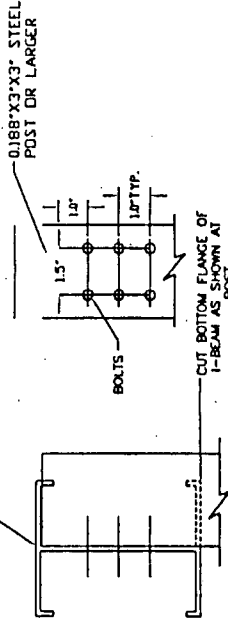
3'x8'x 12 (t=0.105")
OR 16 ga (t=0.059")
STEEL C BEAM

3"X 8" BOX
BEAM WRAP

(AW) 3" X 8" STL. 'C' BEAM
WRAP W/ 3" X 8" ALUM. BOX BEAM

7/29/2008

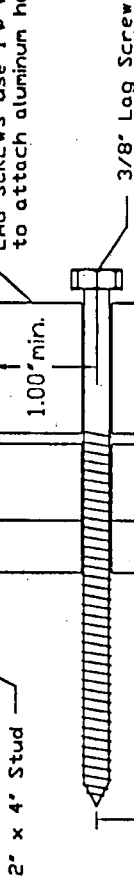
7" x 4" use 6 - 3/8" bolts
4" x 3" use 4 - 3/8" bolts



(AS) ALTERNATE - I BEAM TO POST CONNECTION

Seal with permanently
flexible & waterproof
sealant

2"x6" Ledger Board
Optional for patio covers if
LAG SCREWS use 1"Ø washers
to attach aluminum hanger



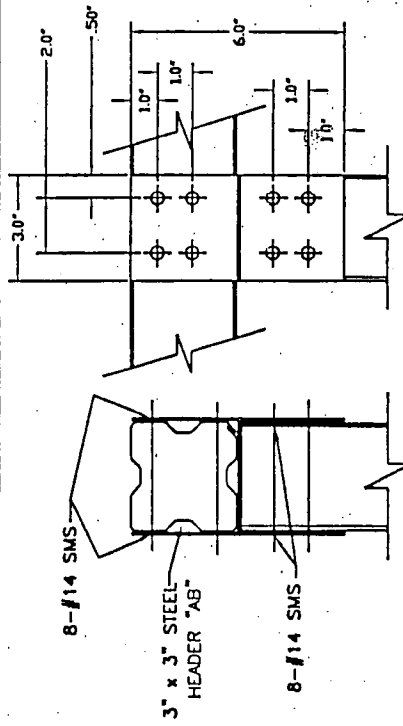
ATTACH PATIO COVER
AS PER AZ, BD OR BG

Completely Seal with
permanently flexible &
waterproof sealant

2" x 4" Stud
1.00" min.
3.5" MIN
2.5" MIN PENETRATION
INTO WOOD FRAMING
FOR ATTACHMENT TO NON-STUCCO
WALLS SEE TABLE 7.5 'ANC4'
FOR ATTACHMENT THRU STUCCO SEE
ALLOWABLE DISTANCE TO FIRST
ROW OF POSTS IN TABLE 7.7

Synthetic Stucco or
other non-structural
covering (1" max. thick)
Sheathing

(AV) LEDGER BOARD
ATTACHMENT DETAIL



(AX) POST TO HEADER CONNECTION FOR 3" X 3" STEEL HEADER "AB"

Page 48 of 55

FOUR #14 SMS EACH SIDE

3"

3"

3"

3"

3"

3"

3"

3"

3"

3"

3"

3"

3"

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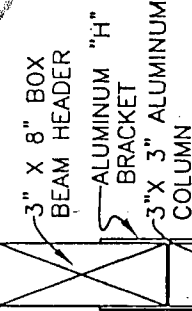
3"

3"

3"

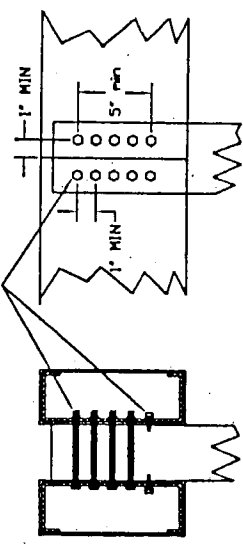
3"

3"



(AU) ALUMINUM 'H' BRACKET FOR
CONNECTING COLUMN TO HEADER
(6063-T6 ALUM. ALLOY)

1/4" BOLTS ASTM A307 OR
#14 SELF DRILLING SCREWS
SEE BELOW FOR QTY



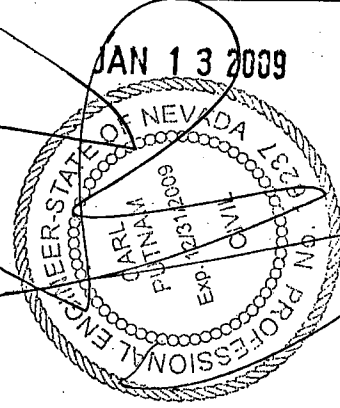
(AY)

DOUBLE OR SINGLE 3'X8" STEEL C BEAM.
BOLT LAYOUT FOR SPLICED AND
NON-SPLICE ATTACHMENT

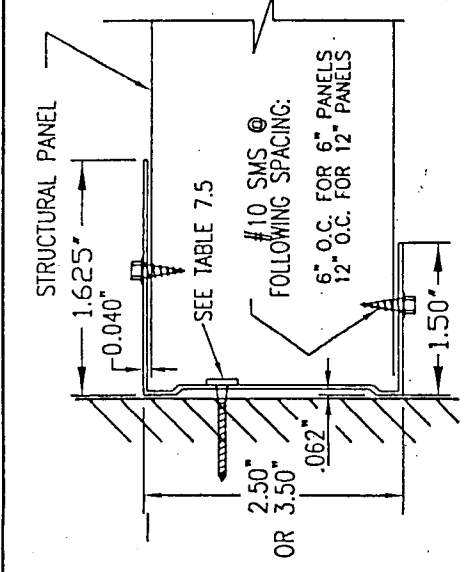
UP TO 25 PSF USE 4 BOLTS
30 PSF USE 6 BOLTS OR 12 #14 SCREWS
40+ PSF USE 10 BOLTS

Amerimax
BUILDING PRODUCTS, INC.
5208 TENNYSON PARKWAY
SUITE 100
PLANO, TX 75024

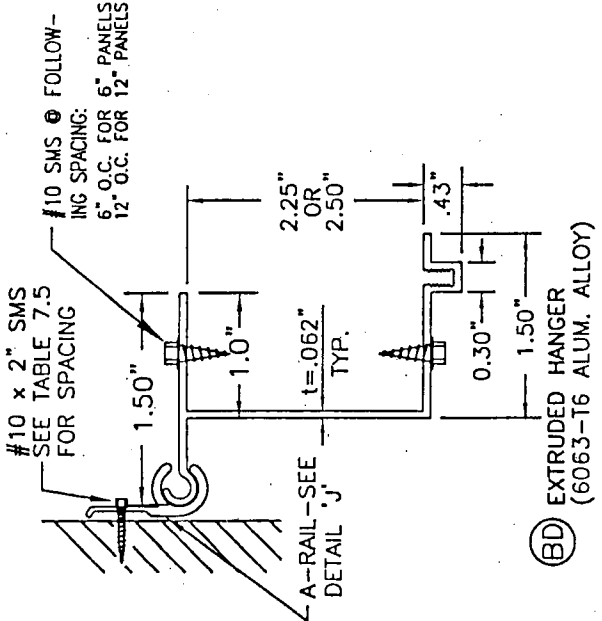
DRAWN BY:	BEJ/CP	TYPE:	
SCALE:	NTS	NAME:	
DATE:	7/29/08	COMPONENT PARTS & CONNECTION DETAILS	
SHEET:	CD07-2006		7 of 9



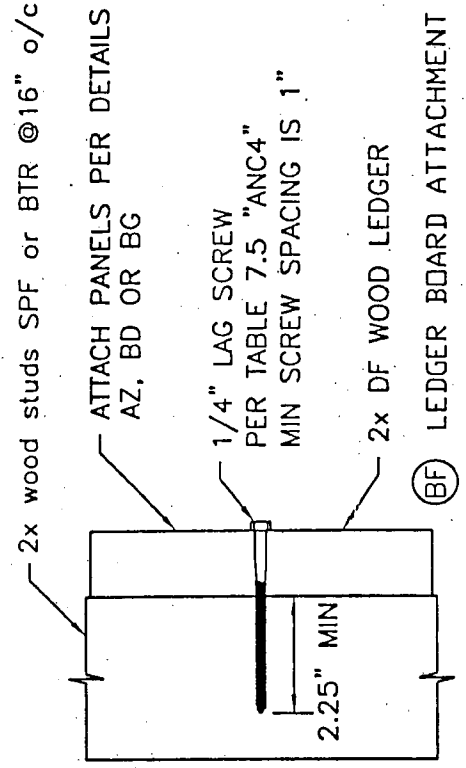
Engineer's Stamp



AZ ROLLFORMED HANGER
(3004-H36 ALUM. ALLOY)

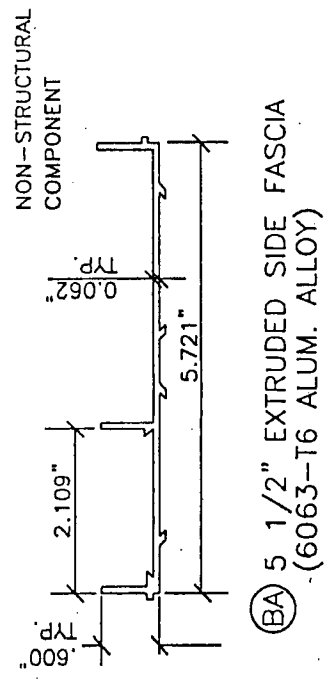


BD EXTRUDED HANGER
(6063-T6 ALUM. ALLOY)

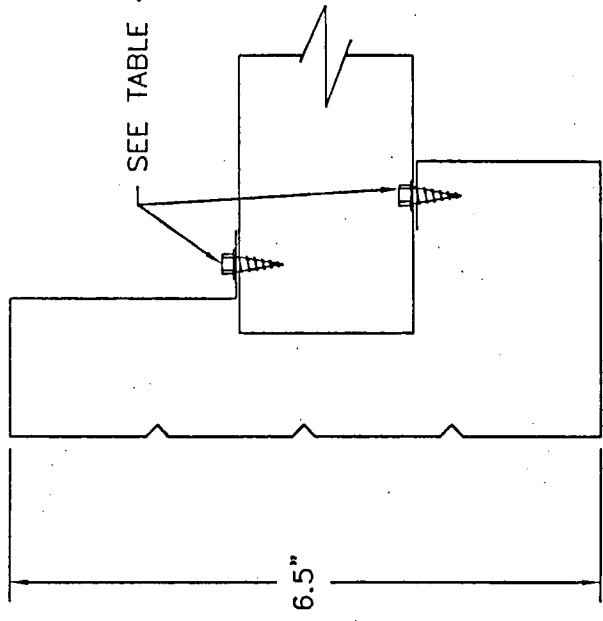


BF LEDGER BOARD ATTACHMENT

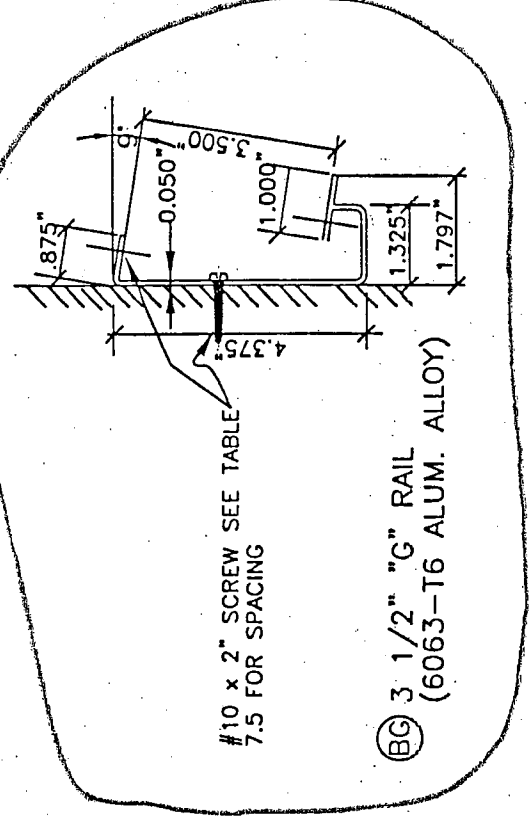
7/29/2008



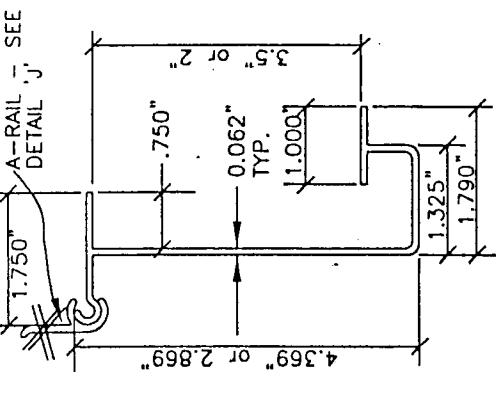
BA 5 1/2" EXTRUDED SIDE FASCIA
(6063-T6 ALUM. ALLOY)



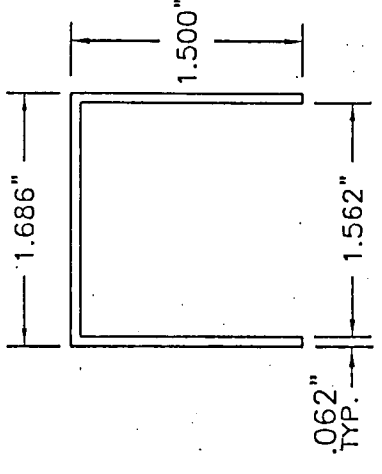
BE ROLLFORMED HEADER 'E' CONN.
DETAILS TO STRUCTURAL PANELS



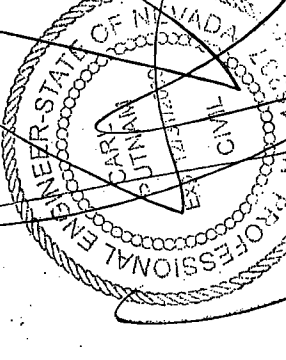
BG 3 1/2" "G" RAIL
(6063-T6 ALUM. ALLOY)



BB 3 1/2" "J" HANGER
(6063-T6 ALUM. ALLOY)



BH EXTRUDED CHANNEL CONNECTOR
(6063-T6 ALUM. ALLOY)



JAN 13 2009

Engineer's Stamp

DRAWN BY:	BEJ/CP	TYPE:	
SCALE:	NTS	NAME:	
DATE:	7/29/08	FILE:	CD08-2006
		SHEET:	8 of 9

7.0 POST AND FASTENER REQUIREMENTS FOR COMMERCIAL AND PATIO STRUCTURES

Trib Width (ft)	Allowable Width for Attached Two Post Structures on Slab	
	10 psf	20 psf
4	32'-1"	16'-11"
4.5	28'-6"	15'-1"
5	25'-8"	13'-6"
5.5	23'-4"	12'-4"
6	21'-5"	11'-3"
6.5	19'-9"	10'-5"
7	18'-4"	n/a
7.5	17'-1"	n/a
8	16'-0"	n/a
8.5	15'-1"	n/a
9	14'-3"	n/a

Table 7.1

POST TYPE	POST DESCRIPTIONS	DETAIL	MAX POST HIGHT
A	Twin 0.032"x1.5"x1.5"	AC, AA	8'
A	Twin 0.062"x1.5"x1.5"	AC, AF	12'
A	0.024"Post with Sideplates	L24, N16, BK	12'
B	Clover 0.032"x3"x3" Alum	L11, N11, AH	10'
B	Clover 0.040"x3"x3" Alum	L11, N11, AH	12'
C	Colonial 0.062" Extruded AE	AE	12'
D	0.041"x3"x3" Steel Clover	L11, N11, AH	12'
E	0.041"x3"x3" Steel Clover	L11, N11, AH	12'
F	3/16"x3"x3" Steel Square	L21, N17, AG	15'
G	3/16"x4"x4" Steel Square	L21, N17, AG	18'
H	5/16"x4"x4" Steel Square	L21, N17, AG	18'

Table 7.2

Table 7.3: Required Number of Fasteners for Shearing Loads

Footers Size d (in)	Aluminum Material Gage (in)												Steel Gage (in)	
	0.024	0.024	0.032	0.036	0.040	0.040	0.040	0.060	0.060	0.060	0.060	0.060	0.041	0.041
A	B	C	D	E	F	G	H	I	J					
#14 SMS BOLT	164	424	896	245	273	1046	293	1384	507	1891				
1	1	1	1	1	1	1	1	1	1	1				
12	1	1	1	1	1	1	1	1	1	1				
13	1	1	1	1	1	1	1	1	1	1				
14	1	1	1	1	1	1	1	1	1	1				
15	2	1	1	1	1	1	1	1	1	1				
16	2	1	1	1	1	1	1	1	1	1				
17	2	1	1	1	1	1	1	1	1	1				
18	3	1	1	2	2	1	1	1	1	1				
19	3	1	1	2	2	1	2	1	1	1				
20	3	2	1	2	2	1	2	1	1	1				
21	4	2	1	3	2	1	2	1	2	1				
22	4	2	1	3	3	1	3	1	2	1				
23	5	2	1	3	3	1	3	1	2	1				
Slab 90B	5	2	1	3	3	1	3	1	2	1				
24	5	2	1	4	3	1	3	1	2	1				
Slab 90C	6	3	2	4	4	1	4	1	2	1				
25	6	3	2	4	4	1	4	1	2	1				
26	7	3	2	5	4	1	4	1	3	1				
27	7	3	2	5	5	2	4	1	3	1				
28	8	3	2	6	5	2	5	1	3	1				
29	9	4	2	6	6	2	5	2	3	1				
30	n/a	4	2	7	6	2	6	2	4	1				
31	n/a	5	3	8	7	2	6	2	4	2				
32	n/a	5	3	8	7	2	7	2	4	2				
33	n/a	5	3	9	8	2	8	2	5	2				
34	n/a	6	3	n/a	9	3	8	2	5	2				
35	n/a	6	3	n/a	n/a	3	9	2	5	2				
36	n/a	7	4	n/a	n/a	3	n/a	2	6	2				
37	n/a	7	4	n/a	n/a	3	n/a	3	6	2				
38	n/a	8	4	n/a	n/a	4	n/a	3	7	2				
39	n/a	9	5	n/a	n/a	4	n/a	3	7	3				
40	n/a	9	5	n/a	n/a	4	n/a	3	8	3				
41	n/a	n/a	5	n/a	n/a	4	n/a	3	8	3				
42	n/a	n/a	6	n/a	n/a	5	n/a	4	9	3				
43	n/a	n/a	6	n/a	n/a	5	n/a	4	n/a	3				
44	n/a	n/a	6	n/a	n/a	5	n/a	4	n/a	3				
45	n/a	n/a	7	n/a	n/a	6	n/a	4	n/a	4				
46	n/a	n/a	8	n/a	n/a	6	n/a	5	n/a	4				
47	n/a	n/a	8	n/a	n/a	6	n/a	5	n/a	4				
48	n/a	n/a	8	n/a	n/a	7	n/a	5	n/a	4				
49	n/a	n/a	9	n/a	n/a	7	n/a	5	n/a	5				
50	n/a	n/a	9	n/a	n/a	7	n/a	6	n/a	5				

Fastener Terminology

#14 SMS = #14 sheet metal or SDS screw, 1/2" minimum length

3/8" B = 3/8" Diameter Bolt

See General Notes for specifics on fasteners

- Clearspan on this chart is the distance from the wall to the first row of columns.
- Hilti Kwik Bolt T2 3/8" diameter and 2" embed: ICC ESR 1917 or other anchor w/ 550# shear vs wind and seismic loads.
- Masonry anchors must have a shear value of 250# for wind or seismic loads.
- 1/4" Lag screws must have 2 1/4" of penetration into studs. These lag screws must have an 1/8" lead hole.
- 10 and 20 psf are live or snow loads, 25- 60 psf are snow loads.

Table 7.4: Required Number of Fasteners for Tension Loads

Footers Size d (in)	Aluminum Gage (in)												Steel Gage (in)	
	0.036	0.062	0.060	0.090	0.100								0.041	0.041
K	L	M	N	O										
3/8" B BOLT	588	382	865	1296	701									
1	1	1	1	1	1									
12	1	1	1	1	1									
13	1	1	1	1	1									
14	1	1	1	1	1									
15	1	1	1	1	1									
16	1	1	1	1	1									
17	1	1	1	1	1									
18	1	1	1	1	1									
19	1	2	1	1	1									
20	1	2	1	1	1									
21	1	2	1	1	1									
22	2	2	1	1	1									
23	2	2	1	1	1									
24	2	2	1	1	1									
25	2	3	1	1	1									
26	2	3	2	1	1									
27	2	3	2	1	1									
28	3	4	2	1	1									
29	3	4	2	2	3									
30	3	5	2	2	3									
31	3	5	2	2	3									
32	4	5	3	2	3									
33	4	6	3	2	3									
34	4	6	3	2	4									
35	5	7	3	2	4									
36	5	8	4	3	4									
37	5	8	4	3	5									
38	6	9	4	3	5									
39	6	9	4	3	5									
40	7	n/a	5	3	6									
41	7	n/a	5	4	6									
42	8	n/a	5	4	7									
43	8	n/a	6	4	7									
44	9	n/a	6	4	8									
45	9	n/a	7	5	8									
46	n/a	n/a	7	5	9									
47	n/a	n/a	8	5	n/a									
48	n/a	n/a	8	6	n/a									
49	n/a	n/a	9	6	n/a									
50	n/a	n/a	9	6	n/a									

- Spacing between bolts and screws shall be 2.5 times the shank diameter
- The edge distance of bolts and screws shall be 3 times the shank diameter
- Connections shall be arranged so that the center of resistance of the connection shall coincide with the resultant line of action of the load.

TABLE 7.6: WALL ATTACHMENTS FOR LATTICE COVERS

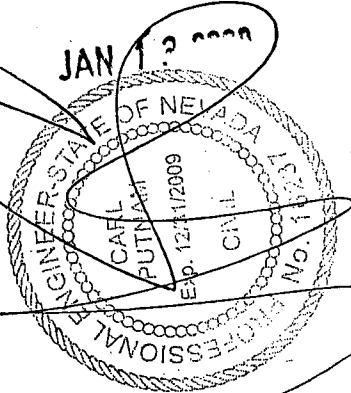
GRND SNOW LOAD (PSF)	WIND SPEED (MPH)	CLEAR-SPAN (FT)	NO. OF #10 SCREWS PER RAFTER		NO. OF 1/4" LAG SCREWS PER RAFTER
			ANC 3	ANC 4	
10 LIVE	110C	22'	2		2
20 LIVE	130C	13'	2		2
20 LIVE	130C	20'	3		2
25		13'	2		2
		19'	3		2
30		11'	2		2
		16'	3		2
40		8'	2		2
		12'	3		2
60		8'	3		2
		11'	4		3

TABLE 7.7: STUCCO ATTACHMENT TO WALL

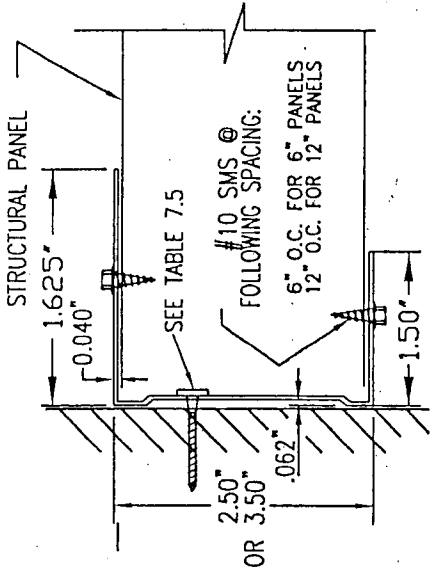
Ground Snow Load (psf)	16" o/c		24" o/c	
	1 Lag Screw	2 Lag Screws	2 Lag Screws	3 Lag Screws
Live 10	14'-1"	20'	18'-8"	20'
Live 20	7'-8"	15'-5"	10'-3"	15'-5"
Live 25	7'-8"	15'-5"	10'-3"	15'-5"
Live 30	7'-1"	14'-2"	9'-5"	14'-2"
Live 40	5'-4"	10'-9"	7'-2"	10'-9"
Live 60	3'-7"	7'-2"	4'-10"	7'-2"

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5208 Tennyson Parkway
Plano, Texas 75024

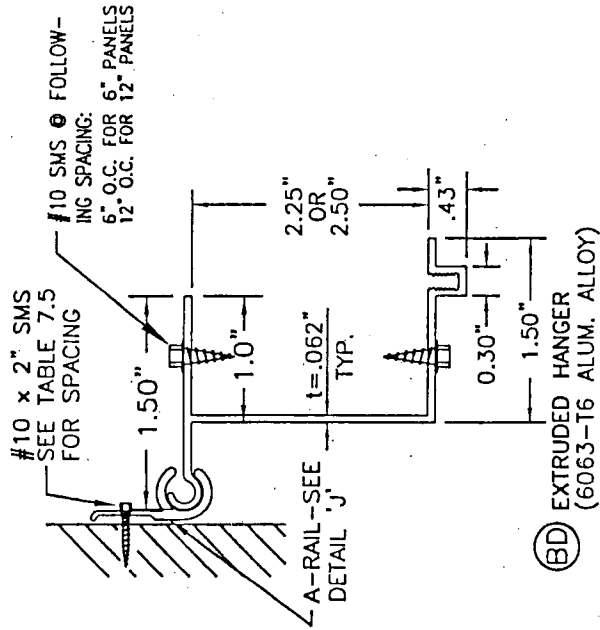
Carl Putnam, P. E.
3441 Ivylink Place
Lynchburg, VA 24503
(434) 384-2514
carlputnam@comcast.net



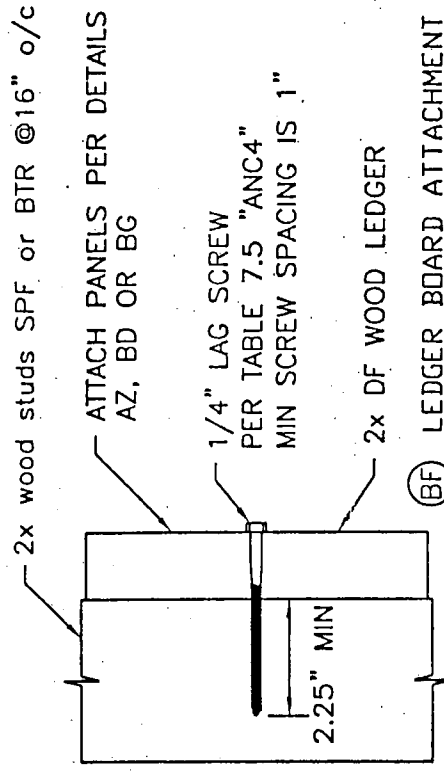
M3-2006



ⒶZ ROLLFORMED HANGER
(3004-H36 ALUM. ALLOY)

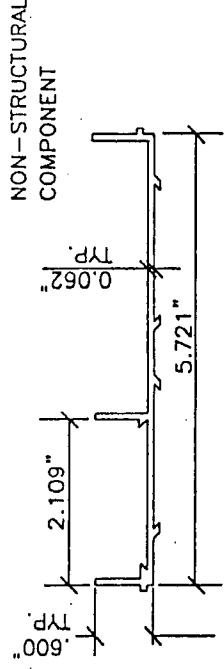


ⒷD EXTRUDED HANGER
(6063-T6 ALUM. ALLOY)

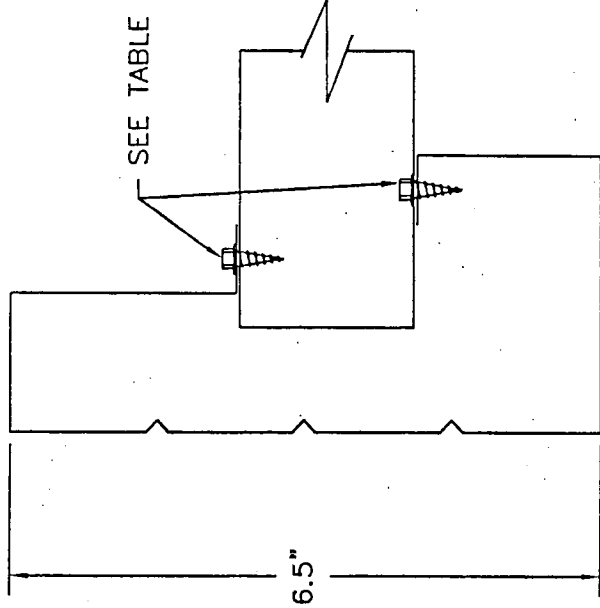


ⒷF LEDGER BOARD ATTACHMENT

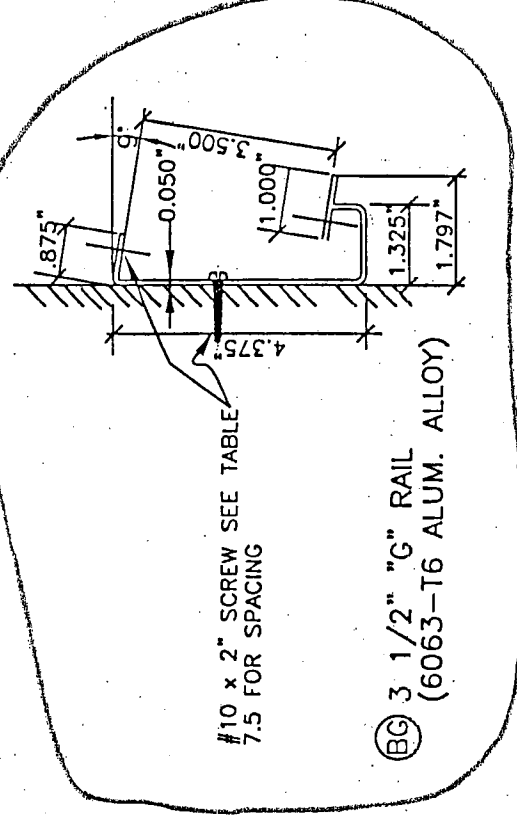
7/29/2008



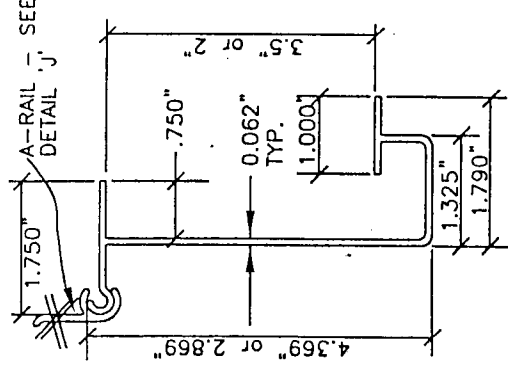
ⒷA 5 1/2\" G\" RAIL
(6063-T6 ALUM. ALLOY)



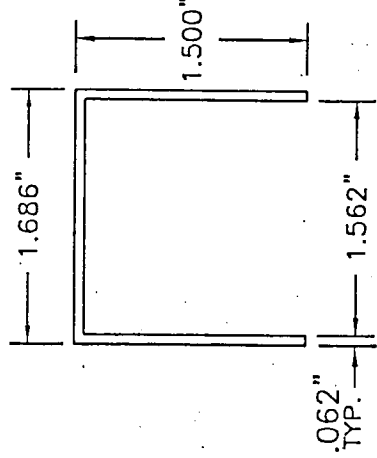
ⒷE ROLLFORMED HEADER 'E' CONN.
DETAILS TO STRUCTURAL PANELS



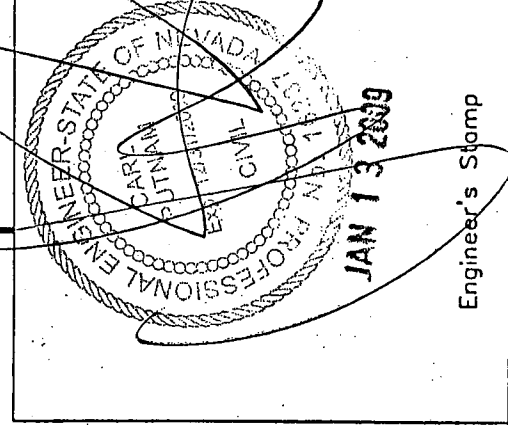
ⒷC 3 1/2\" G\" RAIL
(6063-T6 ALUM. ALLOY)



ⒷB 3 1/2\" J\" HANGER
(6063-T6 ALUM. ALLOY)



ⒷH EXTRUDED CHANNEL CONNECTOR
(6063-T6 ALUM. ALLOY)



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PLANO, TEXAS 75024

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DATE:	7/29/08	FILE:	CD08-2006
		SHEET:	8 of 9

Engineer's Stamp