

FILE # P08-00517

**NAPA COUNTY**  
**CONSERVATION, DEVELOPMENT & PLANNING DEPARTMENT**  
 1195 Third Street, Suite 210, Napa, California, 94559 • (707) 253-4417

**APPLICATION FOR USE PERMIT**

FOR OFFICE USE ONLY

ZONING DISTRICT: GI:2C Date Submitted: \_\_\_\_\_REQUEST: CONSTRUCTION OF A NEW ~ 12,500# 13,307# Date Complete: \_\_\_\_\_CASED WINE STORAGE WAREHOUSE Date Published: \_\_\_\_\_

ADDITION CONNECTING TWO EXISTING  
BUILDINGS (UNDER THE SAME USE). A USE  
PERMIT VARIATION TO DEVELOPMENT STANDARDS

ZA CDPC BS APPEAL

Hearing \_\_\_\_\_

IS REQUESTED TO ALLOW COVERAGE OF MORE THAN 50%.  
NONCONFORMING PARKING, EX NONCONFORMING E. SIDEYARD SETBACKS.

Action \_\_\_\_\_

**TO BE COMPLETED BY APPLICANT**  
 (Please type or print legibly)

Applicant's Name: REFRIGERATED FACILITY DESIGN BUILD, INC.Telephone #: (831) 335-7980 Fax #: (831) 335-7483 E-Mail: eng@refrigeratedbuilders.comMailing Address: 6630 HWY 9 SUITE 204 FELTON CA 95018Status of Applicant's Interest in Property: ARCHITECTURAL / ENGINEERING DESIGNERProperty Owner's Name: TOWER ROAD WINERY COOPTelephone #: (707) 257-6790 Fax #: ( ) E-Mail: \_\_\_\_\_Mailing Address: 241 TOWER RD AMERICAN CANYON, CA 94503Site Address/Location: 241 TOWER ROAD AMERICAN CANYON, CA 94503Assessor's Parcel #: 05710028000 Existing Parcel Size: \_\_\_\_\_

I certify that all the information contained in this application, including but not limited to the Information sheet, water supply/waste disposal information sheet, site plan, floor plan, building elevations, water supply/waste disposal system site plan and toxic materials list, is complete and accurate to the best of my knowledge. I hereby authorize such investigations including access to County Assessor's Records as are deemed necessary by the County Planning Division for preparation of reports related to this application, including the right of access to the property involved.

Signature of Applicant

Date

Signature of Property Owner

Date

REFRIGERATED FACILITY DESIGN BUILDTOWER ROAD WINERY COOP

**TO BE COMPLETED BY CONSERVATION, DEVELOPMENT AND PLANNING DEPARTMENT**

\*Application Fee Deposit: \$ \_\_\_\_\_ Receipt No. \_\_\_\_\_ Received by: \_\_\_\_\_ Date: \_\_\_\_\_

\*Total Fees will be based on actual time and materials

# INFORMATION SHEET

This sheet re-written  
by CC for clarity - see  
original attached.

## I. USE

- A. Description of Proposed Use (attached detailed description as necessary) (including where appropriate product/service provided): NEW WINE STORAGE WAREHOUSE AREA  
FOR FINISHED CASE WINE.  
\*NO WINE IS PRODUCED AT THIS FACILITY.
- B. Project Phases: ☒ one ☐ two ☐ more than two (please specify): \_\_\_\_\_
- C. Estimated Completion Date for Each Phase: Phase 1: 2-28-09 Phase 2: \_\_\_\_\_
- D. Actual Construction Time Required for Each Phase: ☐ less than 3 months  
☒ More than 3 months
- E. Related Necessary On- And Off-Site Concurrent or Subsequent Projects: \_\_\_\_\_
- F. Additional Licenses/Approval Required:
- District: \_\_\_\_\_ Regional: \_\_\_\_\_  
State: \_\_\_\_\_ Federal: \_\_\_\_\_

## II. BUILDINGS/ROADS/DRIVEWAY/LEACH FIELD, ETC.

- A. Floor Area/Impervious area of Project (in square ft): 12,500 ~~sq~~ 13,307 ~~sq~~  
Proposed total floor area on site: 215,000 ~~sq~~ EXISTING - 227,500 ~~sq~~ PROPOSED  
Total development area (building, impervious, leach field, driveway, etc.): \_\_\_\_\_  
New construction: 12,500 ~~sq~~ 13,307 ~~sq~~  
existing structures or portions thereof to be utilized: \_\_\_\_\_ existing structures or portions thereof to be moved: \_\_\_\_\_
- B. Floor Area devoted to each separate use (in square ft):  
living: \_\_\_\_\_ storage/warehouse: 12,500 ~~sq~~ offices: \_\_\_\_\_  
sales: \_\_\_\_\_ caves: \_\_\_\_\_ other: \_\_\_\_\_  
septic/leach field: \_\_\_\_\_ roads/driveways: \_\_\_\_\_
- C. Maximum Building Height: existing structures: 22' new construction: ~25'
- D. Type of New Construction (e.g., wood-frame): METAL FRAME/SKIN BUILDING
- E. Height of Crane necessary for construction of new buildings (airport environs): \_\_\_\_\_
- F. Type of Exterior Night Lighting Proposed: NEW FIXTURE AT REAR EXIT ONLY.
- G. Viewshed Ordinance Applicable (See County Code Section 18.106): ☐ Yes ☐ No
- H. Fire Resistivity (check one; If not checked, Fire Department will assume Type V - non rated):  
☐ Type I FR ☐ Type II 1 Hr ☐ Type II N (non-rated) ☐ Type III 1 Hr ☐ Type III N  
☐ Type IV H.T. (Heavy Timber) ☐ Type V 1 Hr. ☐ Type V (non-rated)  
(Reference Table 6 A of the 2001 California Building Code)

## III. PARKING

- |                                  | Existing | Proposed         |
|----------------------------------|----------|------------------|
| A. Total On-Site Parking Spaces: | _____    | <u>no change</u> |
| B. Customer Parking Spaces:      | _____    | <u>no change</u> |
| C. Employee Parking Spaces:      | _____    | <u>no change</u> |
| D. Loading Areas:                | _____    | <u>no change</u> |

# INFORMATION SHEET

## I. USE

- A. Description of Proposed Use (attached detailed description as necessary) (including where appropriate product/service provided): NEW WINE STORAGE FOR FINISHED CASE WINE  
\* NO WINE IS PRODUCED ON THIS SITE
- B. Project Phases: ☒ one ☐ two ☐ more than two (please specify): \_\_\_\_\_
- C. Estimated Completion Date for Each Phase: Phase 1: 2/28/09 Phase 2: \_\_\_\_\_
- D. Actual Construction Time Required for Each Phase: ☐ less than 3 months  
☒ More than 3 months
- E. Related Necessary On- And Off-Site Concurrent or Subsequent Projects: \_\_\_\_\_
- F. Additional Licenses/Approval Required:  
 District: \_\_\_\_\_ Regional: \_\_\_\_\_  
 State: \_\_\_\_\_ Federal: \_\_\_\_\_

## II. BUILDINGS/ROADS/DRIVEWAY/LEACH FIELD, ETC.

- A. Floor Area/Impervious area of Project (in square ft): 215000 +/- 50 FT  
 Proposed total floor area on site: 12,500 SF  
 Total development area (building, impervious, leach field, driveway, etc.) \_\_\_\_\_  
 New construction: ☒  
 existing structures or portions thereof to be utilized: ☒  
 existing structures or portions thereof to be moved: \_\_\_\_\_
- B. Floor Area devoted to each separate use (in square ft): 12,500 SF APPROX.  
 living: \_\_\_\_\_ storage/warehouse: ☒ offices: \_\_\_\_\_  
 sales: \_\_\_\_\_ caves: \_\_\_\_\_ other: \_\_\_\_\_  
 septic/leach field: \_\_\_\_\_ roads/driveways: \_\_\_\_\_
- C. Maximum Building Height: existing structures: 22'-0" new construction: APPROX 25'-0"
- D. Type of New Construction (e.g., wood-frame): METAL FRAMES/SKIN BURG.
- E. Height of Crane necessary for construction of new buildings (airport environs): \_\_\_\_\_
- F. Type of Exterior Night Lighting Proposed: NEW FIXTURE @ REAR EXIT
- G. Viewshed Ordinance Applicable (See County Code Section 18.106): Yes \_\_\_\_\_ No \_\_\_\_\_
- H. Fire Resistivity (check one; If not checked, Fire Department will assume Type V - non rated):  
☐ Type I FR ☐ Type II 1 Hr ☐ Type II N (non-rated) ☐ Type III 1 Hr ☐ Type III N  
☐ Type IV H.T. (Heavy Timber) ☐ Type V 1 Hr. ☐ Type V (non-rated)  
 (Reference Table 6 A of the 2001 California Building Code)

## III. PARKING

- |                                  | Existing | Proposed |
|----------------------------------|----------|----------|
| A. Total On-Site Parking Spaces: | _____    | _____    |
| B. Customer Parking Spaces:      | _____    | _____    |
| C. Employee Parking Spaces:      | _____    | _____    |
| D. Loading Areas:                | _____    | _____    |



## IV. TYPICAL OPERATION

	Existing	Proposed
A. Days of Operation:	5 DAYS / WEEK	5 DAYS / WEEK
B. Expected Hours of Operation:	40 HOURS / WEEK	40 HOURS / WEEK
C. Anticipated Number of Shifts:	1	1
D. Expected Number of Full-Time Employees/Shift:	11	11
E. Expected Number of Part-Time Employees/Shift:	0	0
F. Anticipated Number of Visitors		
• busiest day:	8	8
• average/week:	1	1
G. Anticipated Number of Deliveries/Pickups		
• busiest day:	50	50
• average/week:	175	175

## V. SUPPLEMENTAL INFORMATION FOR SELECTED USES

A. Commercial Meeting Facilities  
Food Serving Facilities

- restaurant/deli seating capacity: \_\_\_\_\_
- bar seating capacity: \_\_\_\_\_
- public meeting room seating capacity: \_\_\_\_\_
- assembly capacity: \_\_\_\_\_

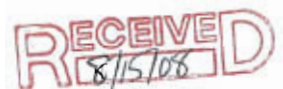
## B. Residential Care Facilities (6 or more residents)

## Day Care Centers

- type of care: \_\_\_\_\_
- total number of guests/children: \_\_\_\_\_
- total number of bedrooms: \_\_\_\_\_
- distance to nearest existing/approved facility/center: \_\_\_\_\_

Existing

Proposed



NO INFORMATION SUBMITTED,  
APPLICANT STATES NO CHANGE.

# WATER SUPPLY/WASTE DISPOSAL INFORMATION SHEET

I. WATER SUPPLY	<u>Domestic</u>	<u>Emergency</u>
A. Proposed source of Water (eg., spring, well, mutual water company, city, district, etc.):	_____	_____
B. Name of Proposed Water Supplier (if water company, city, district): annexation needed?	Yes___ No___	Yes___ No___
C. Current Water Use (in gallons/day): Current water source:	_____ _____	_____ _____
D. Anticipated Future Water Demand (in gallons/day):	_____	_____
E. Water Availability (in gallons/minute):	_____	_____
F. Capacity of Water Storage System (gallons):	_____	_____
G. Nature of Storage Facility (eg., tank, reservoir, swimming pool, etc.):	_____	_____
F. Completed Phase I Analysis Sheet (Attached):		
II. LIQUID WASTE	<u>Domestic</u> (sewage)	<u>Other</u> (please specify)
A. Disposal Method (e.g., on-site septic system on-site ponds, community system, district, etc.):	_____	_____
B. Name of Disposal Agency (if sewage district, city, community system): annexation needed?	Yes___ No___	Yes___ No___
C. Current Waste Flows (peak flow in gallons/day):	_____	_____
D. Anticipated Future Waste Flows (peak flows in gallons/day):	_____	_____
E. Future Waste Disposal Capacity (in gallons/day):	_____	_____
III. SOLID WASTE DISPOSAL		
A. Operational Wastes (on-site, landfill, garbage co., etc.):	_____	_____
B. Grading Spoils (on-site, landfill, construction, etc.):	_____	_____
IV. HAZARDOUS/TOXIC MATERIALS (Please fill out attached hazardous materials information sheet, attached)		
A. Disposal Method (on-site, landfill, garbage co., waste hauler, etc.):	_____	_____
B. Name of Disposal Agency (if landfill, garbage co., private hauler, etc.):	_____	_____



**Napa County Department of Environmental Management  
CUPA-Related Business Activities Form**

Business Name: TOWER ROAD WINERY COOP

Business Address: 241 TOWER RD, AMERICAN CANYON, CA 94503

Contact: DENNIS RUTHERFORD

Phone #: 707.257.6730 EXT 14

**A. HAZARDOUS MATERIALS**

Have on site (for any purpose) hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in AST's and UST's or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?

☐ YES ☐ NO

**B. UNDERGROUND STORAGE TANKS (UST's)**

1. Own or operate underground storage tanks?
2. Intend to upgrade existing or install new UST's?

☐ YES ☐ NO

☐ YES ☐ NO

**C. ABOVE GROUND STORAGE TANKS (AST's)**

Own or operate AST's above these thresholds:

- Any tank capacity with a capacity greater than 660 gallons, or
- The total capacity for the facility is greater than 1,320 gallons?

☐ YES ☐ NO

**D. HAZARDOUS WASTE**

1. Generate hazardous waste?
2. Recycle more than 220 lbs/month of excluded or exempted recyclable materials (per H&SC §25143.2)?
3. Treat hazardous waste on site?
4. Treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?
5. Consolidate hazardous waste generated at a remote site?

☐ YES ☐ NO

☐ YES ☐ NO

☐ YES ☐ NO

☐ YES ☐ NO

☐ YES ☐ NO

**E. OTHER**

1. Does the business activity include car/fleet washing, mobile detailing, auto-body related activities?
2. Does the business handle Extremely Hazardous Substances in amounts that would qualify for the Risk Management Program? Some examples and their thresholds common to Napa County include: Ammonia - 500 lbs, Sulfur Dioxide - 500 lbs, Chlorine - 500 lbs.

☐ YES ☐ NO

☐ YES ☐ NO



August 21, 2008

**RECEIVED**

AUG 25 2008

NAPA CO. CONSERVATION  
DEVELOPMENT & PLANNING DEPT.

City of American Canyon  
3423 Broadway, Suite D-2  
American canyon, CA 94503  
707-647-4588

RE: Will Serve Questionnaire  
Tower Road Winery Coop  
241 Tower Road  
American Canyon, CA 94503

Attn: Cheryl Braulik, P.E.  
Senior Civil Engineer

Dear Cheryl,

I am responding to the City of American Canyon Will Serve Questionnaire picked-up yesterday at your office. As per instructions at counter, we are not requesting any additional water service for this property.

We only need emergency water that would come from the installed fire sprinkler system that is an addition to the already installed system.

There are no proposed restrooms or additional plumbing fixtures for this new warehouse space.

I hope this satisfies your questionnaire request for service.

If you have any questions, comments and/or concerns with regards to our application, please do not hesitate to contact me immediately @ 831-278-2342

Thank you,

John McCann  
Project MGR  
RFDB, Inc.

CC: Job file  
Dennis Rutherford, Tower Road Winery Coop

---

**SPECIALIST IN THE DESIGN AND CONSTRUCTION OF COLD STORAGE AND FOOD PROCESSING FACILITIES**

Refrigerated Facility Design Build, Inc. \* 6630 Hwy 9, Suite 204, Felton, CA 95018  
Ph 831-335-7980 \* Fax 831-335-7483 \* License 896954 \* [www.refrigeratedbuilders.com](http://www.refrigeratedbuilders.com)

# City of American Canyon Will Serve Questionnaire

Owner Name: <b>DENNIS RUTHERFORD</b>	Applicant Name: <b>DENNIS RUTHERFORD</b>
Owner Address: <b>241 TOWER ROAD AMERICAN CANYON, CA</b>	Applicant Address: <b>241 TOWER ROAD AMERICAN CANYON, CA</b>
Owner Phone #: <b>707-257-6730 ext 14</b>	Applicant Phone #: <b>707-257-6730 ex 14</b>
Owner Signature:	Project Engineer:
Project Name: <b>PHASE 5 WAREHOUSE</b>	Project Address: <b>241 TOWER ROAD AMERICAN CANYON, CA</b>
Project APN: <b>057110028000</b>	

Project Description: **CONSTRUCT METAL BUILDING BETWEEN TWO (2) CONCRETE WAREHOUSES FOR ADDITIONAL FINISHED WINE CASE STORAGE**

Permit Number:	Time of Operation:
Status of Environmental Clearance:	hours/day:
Permit Status:	days/week:
Land Use:	months/year:
Property Zoning:	
Lot Size (acres):	Building Size (sqft) :

*SEE ATTACHED*

Anticipated Potable Water Demand\* *SEE ATTACHED LETTER*

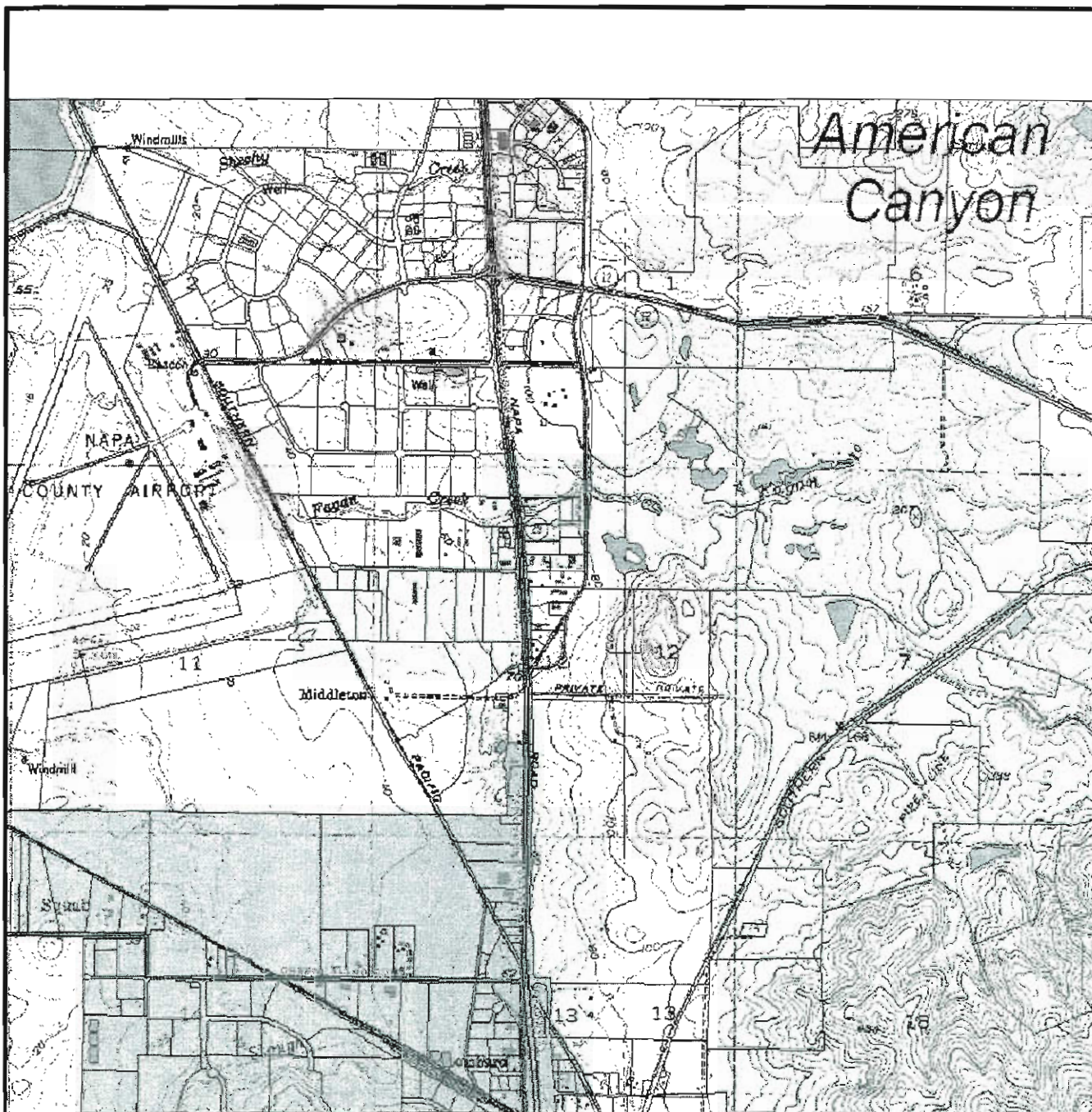
Average day demand (annual):	Maximum day demand:
domestic                      gpd	domestic                      gpd
irrigation                      gpd	irrigation                      gpd
industrial                      gpd	industrial                      gpd
<b>Total                      gpd</b>	<b>Total                      gpd</b>

\* attach references used and calculations for water demand

The City of American Canyon Municipal Code 13.10 (Code) gives first priority for new water and sewer connections and services to residences and businesses located within the city corporate boundary. The Code states the City shall provide water and sewer connections and services to other residences and businesses located within the urban limit line of the city only after one of the following two conditions has occurred; upon annexation to the city and the district, where that has not already occurred; or upon securing a revenue sharing agreement involving the county, the city and where applicable the district. The Code also states the City may provide water service to developments outside of the city urban limit line but within the water service area of city, as available, provided the applicant agrees to an "in lieu of" revenue-sharing agreement with city.

If outside the corporate city boundary please describe how you intend to address the provisions of the Code.





**RB**

refrigerated facility  
design build, inc.

6630 highway nine, suite 204  
felton, ca. 95018

p: 831-335-7980  
f: 831-335-7483

APN:  
057110028000

OWNER: TOWER ROAD  
WINERY COOP

SHEET USGS TOPO  
CONTENT: MAP

PROJECT TITLE:

**TOWER ROAD  
WINE STORAGE**

241 TOWER ROAD  
AMERICAN CANYON, CA

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SCALE

-

SHEET NO.

DRAWN BY:

BC

CHECKED BY:

JM

APPROVED BY:

SV

DATE

8.5.08

JOB #

**C1**

13

NAPA CO. CONSERVATION  
DEVELOPMENT & PLANNING DEPT.

TOWER ROAD WINE STORAGE  
24 | TOWER ROAD, AMERICAN CANYON, CA 94588

**refrigerated facility  
design build, inc.**  
6630 highway nine, suite 204  
felton, ca. 95018  
phone: 831-335-7980  
fax: 831-335-7483

DATE	APPROVED	DESIGN	SCALE	ACCT.	COVER SHEET: VICINITY MAP, LOCATION PLAN, PROJ. INFO. & DESCRIPTION, DRAWING ABBREVIATIONS & SYMBOLS, INDEX OF DRAWINGS & GENERAL NOTES
DATE	APPROVED	DESIGN	SCALE	ACCT.	

**TOWER ROAD**  
WineStorage  
241 TOWER RD  
AMERICAN CANYON,  
CA 94906

[illegible]

# AO.0

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# A0.0

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A06 Database interface, administrative, control, record and report programs  
A07 Record file management  
A08 New print & display/print & data calculation  
A09 New record files & database controls  
C00 Unclassified items

1. CONSTRUCTION OF NEW OR EXISTING BUILDING TOTAL INSURANCE RE-  
ACCIDENT RATES BY STATE, INDUSTRY, OCCUPATIONAL BUILDING TYPE, SEX.
2. DISTRIBUTION OF NEW COVERS, ALPHABETICALLY,  
PROPERTY IDENTIFICATION NUMBER OF THE BUILDING.
3. PROPERTY IDENTIFICATION NUMBER AND PROPERTY.

### ABBREVIATIONS LIST

PROJECT SITE

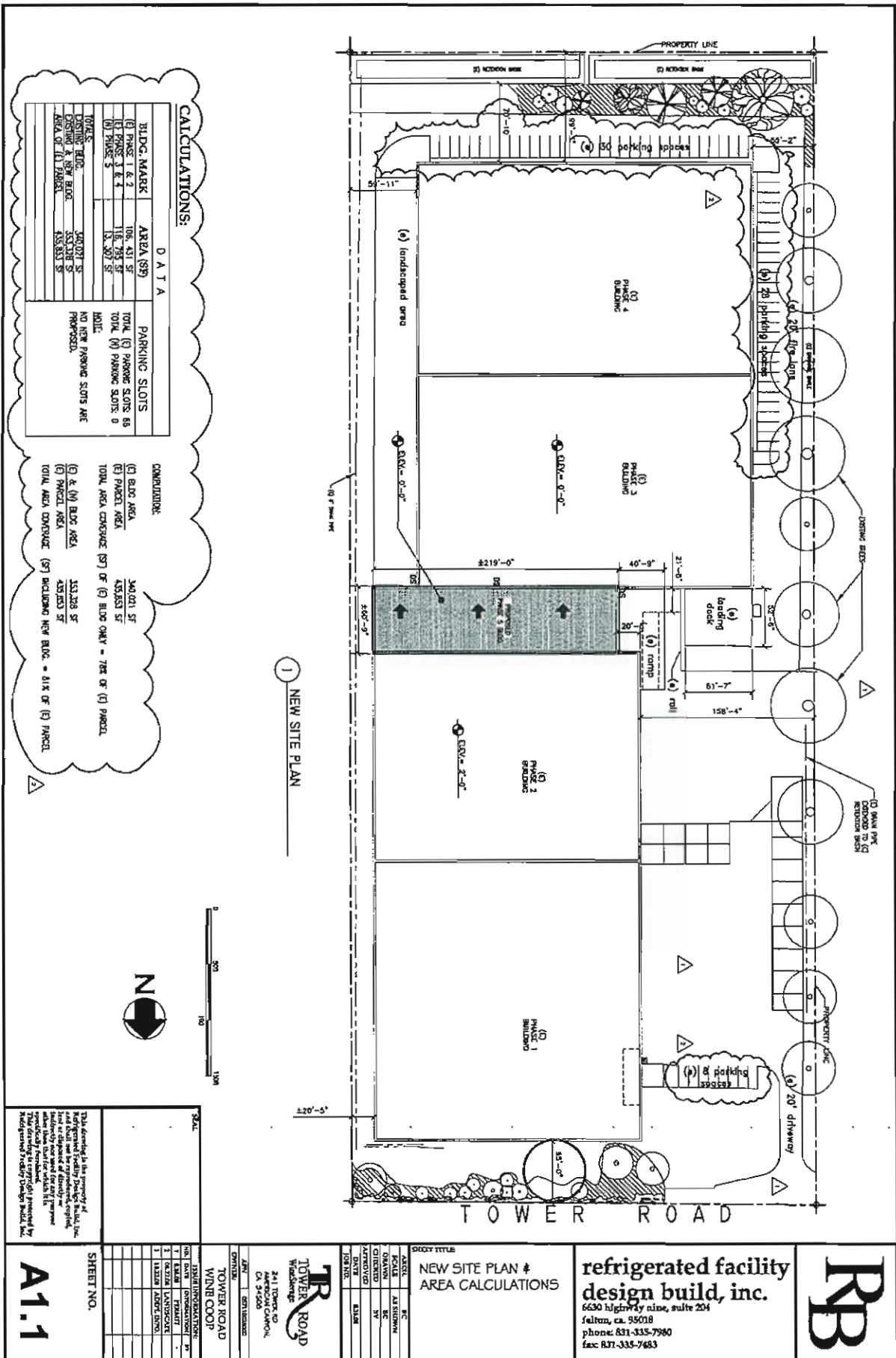
### LOCATION PLAN

**PROPOSED  
NEW BLDG.**

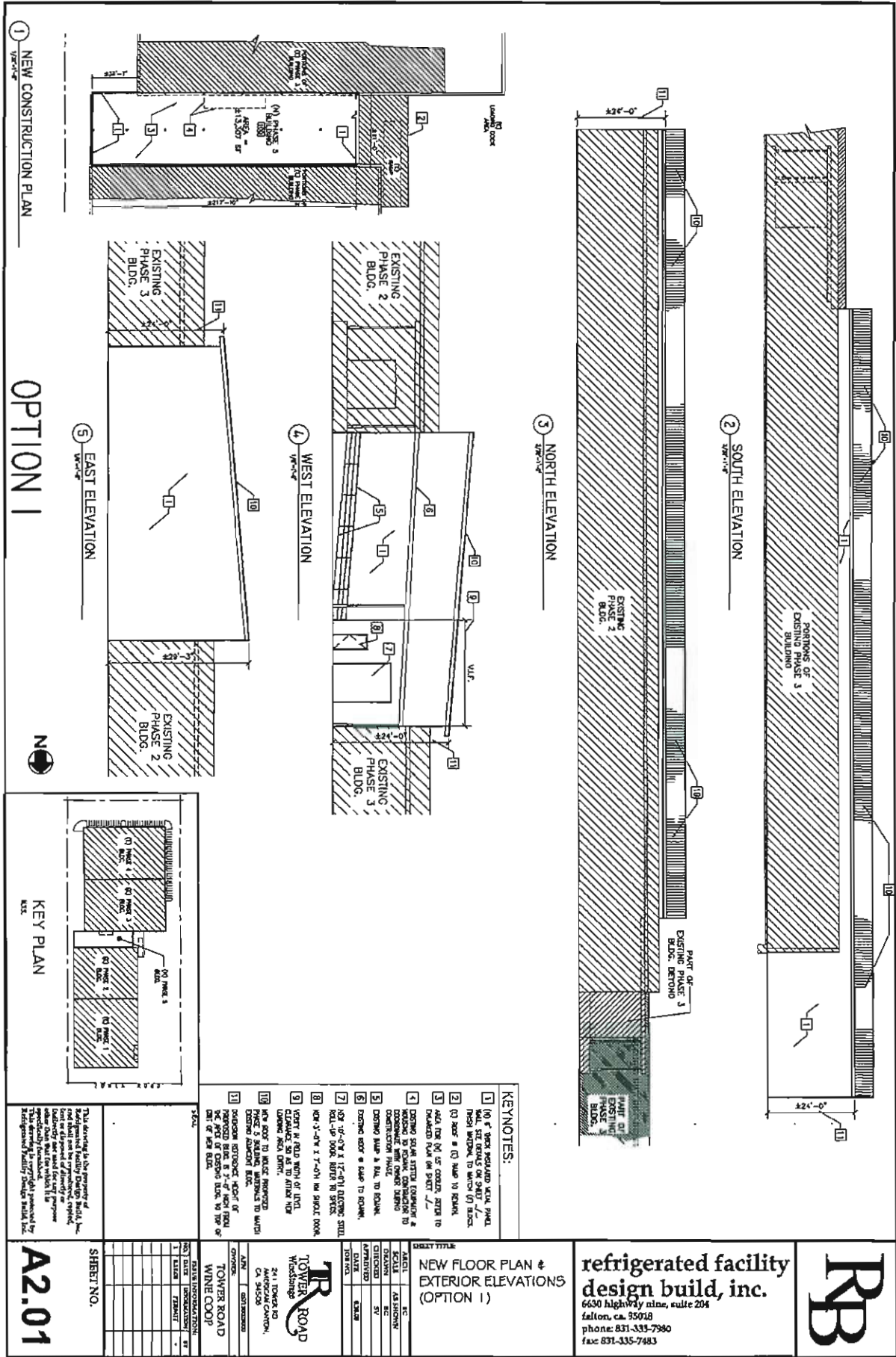


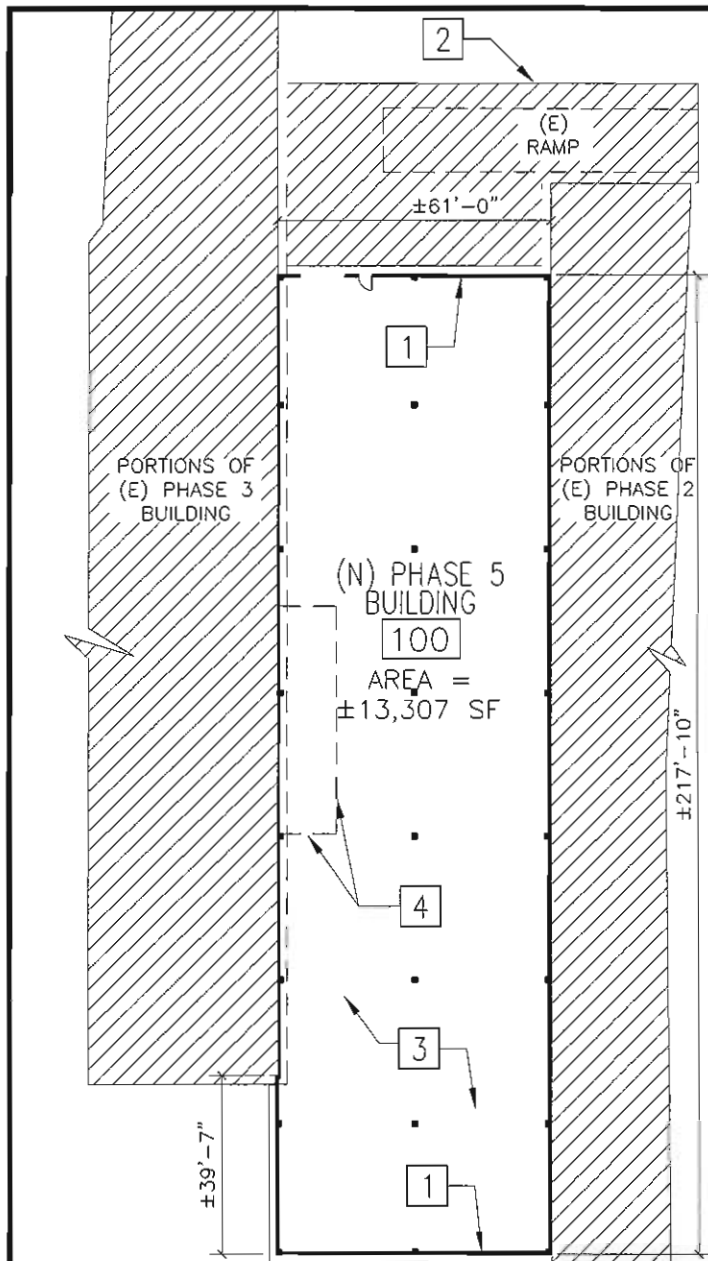






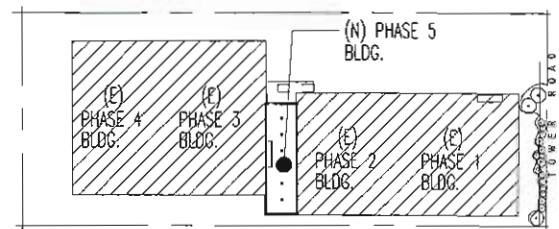




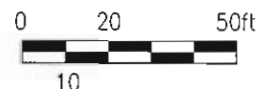


## KEYNOTES:

- 1 (N) 6" THICK FR METAL FRAME WALLS, SEE DETAILS ON SHEET \_/\_\_. FINISH MATERIAL TO MATCH (E) BLDGS.
- 2 (E) ROOF @ (E) RAMP TO REMAIN.
- 3 AREA FOR (N) 65' COOLER, REFER TO ENLARGED PLAN ON SHEET \_/\_\_.
- 4 EXISTING SOLAR SYSTEM EQUIPMENT & HOUSING TO REMAIN. CONTRACTOR TO COORDINATE WITH OWNER DURING CONSTRUCTION PHASE.



KEY PLAN  
N.T.S.



1 NEW CONSTRUCTION PLAN

APN:  
057110028000

OWNER: TOWER ROAD  
WINERY COOP

SHEET NEW FLOOR PLAN  
CONTENT:

**RB**  
refrigerated facility  
design build, inc.

6630 highway nine, suite 204  
felton, ca. 95018

p: 831-335-7980  
f: 831-335-7483

PROJECT TITLE:

TOWER ROAD  
WINE STORAGE  
241 TOWER ROAD  
AMERICAN CANYON, CA

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SCALE

-

SHEET NO.

DRAWN BY:

BC

CHECKED BY:

JM

APPROVED BY:

SV

DATE

8.5.08

JOB #

**3**





# VP BUILDINGS WALL & ROOF COLORS

Long-Term Beauty • Unmatched Protection • Superior Quality — You Get All Three

KXL™ FINISH — PANEL RIB WALL, RPR, STRAN-LOK, VEE RIB & PANEL RIB ROOF

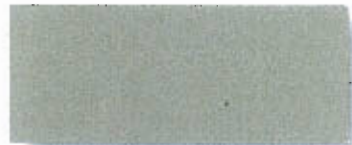
Arctic White



Cool Regal White

*Roof Panels*

Classic Beige



Egyptian White



Cool Sierra Tan



Cool Colonial Red



Tahoe Blue



Regal Blue



Ash Gray



Leaf Green



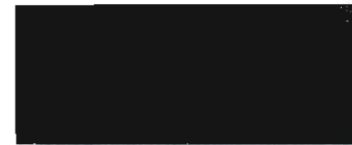
Zinc Gray



Patrician Bronze



Matte Black\*



Terra Cotta



KXL™ FINISH — SSR ROOF

Cool Regal White



Egyptian White



Cool Colonial Red



Regal Blue



Leaf Green



Patrician Bronze



Unpainted Galvalume\*\*



\* Available as trim color only

\*\* Also available for Panel Rib Roof

This card provides a basic representation of standard colors. Slight variations may occur between sample materials and finished product.

*SID & RIBBED  
WALL PANELS*



## PAINT FINISHES

VP uses high quality paint systems designed to provide long-term performance and protection. Each coating is formulated with thoroughly researched, tested and field proven pretreatments, primers, resins and pigments that can meet your design and performance requirements. All colors shown approximate actual paint colors as accurately as possible. Actual paint colors may vary. Colors in this guide are for reference only. VP Buildings reserves the right to change color offerings shown here without notice. Metal samples with paint are available.

### VP's KXL™ FINISH on Hot Dipped Galvanized & Galvalume® Panels

This paint system combines ceramic pigmentation with polyvinylidene fluoride for superior, long-lasting performance. PVDF finishes are respected for their durability, resistance and color retention.

Please note: 70% PVDF finishes meet both Kynar 500 and Hylar 5000 specifications.

Note: All panels formed from light gauge metal may exhibit waviness, also known as "Oil Canning," commonly occurring in, but not restricted to, flat portions of a panel. This inherent characteristic is not a defect of material and is not cause for rejection

KYNAR® is a registered trademark of Atochem North America, Inc.  
HYLAR 5000® is a registered trademark of Ausimont USA, Inc.  
Galvalume® is a registered trademark of B.I.E.C. International, Inc.

Certification of Corp. of Engineers and AAMA 605.2 available upon request.

CHARACTERISTICS/TEST METHOD	KXL™
Dry Film Thickness ASTM <sup>1</sup> D-1400, D-1005, D-1438 (NCCA <sup>2</sup> II-13, 14, 15)	0.2-0.25 mil primer <sup>3</sup> , 0.7-0.8 mil top coat
Specular Gloss (60) ASTM D-523	10-15 <sup>4</sup>
Pencil Hardness ASTM C-3363 (NCCA II-12) Eagle Turquoise Pencil	HB-H
Flexibility: T-Bend NCCA II-9 (No cracking or tape removal of film) Mandrel ASTM D-522 (180° bend around 1/8" mandrel)	2T <sup>5</sup> No cracking
Adhesion ASTM D-3359 (NCCA II-5) Reverse Impact Cross Hatch	No adhesion loss
Reverse Impact ASTM D-2749 (NCCA II-6) Impact in. per lb. = 2000 X metal thickness for steel	No cracking or adhesion loss <sup>6</sup>
Abrasion Resistance Falling Sand ASTM D-968 Liters to expose 5/32" of substrate transit Based on topside to backside contact in transit	65 ± 15 l/mil of film Acceptable
Mortar Resistance AAMA <sup>6</sup> 605.2 - 24 Hour Pat Test	No effect
Detergent Resistance ASTM D-2248 - 3% Detergent, 100 °F, 72 hrs.	No effect
Acid Pollutants Resistance ASTM D-1308, Proc. 7.2 10% Muriatic Acid (15 min.) 20% Sulfuric Acid (24 hrs.) AAMA 605.2 Test 7.7 3.1- 70% Nitric Acid Vapors (30 min.) Kesternich SO <sub>2</sub> CyclicTest (2 liters)	No effect No effect < 5 units color change <sup>7</sup> , 10 cycles <sup>8</sup>
Alkali Resistance ASTM D-1308 10%, 25% Sodium Hydroxide (1 hr.)	No effect
Salt Spray Resistance ASTM B-117 - 5% Salt Fog @ 95 °F	1000 Hours <sup>9</sup>
Humidity Resistance ASTM D-2247	2000 Hours <sup>10</sup> (100% Relative Humidity @ 95 °F)
Weatherometer Test ASTM G23 Color Change ASTM D-2244 Chalking Resistance ASTM D-4214	2000 Hours < 2 units change <sup>7</sup> Maximum #8
Exterior Weathering Florida Exposure ASTM D-2244 Color 5 years @ 45 °S ASTM D-4214 Chalk AAMA 605.2 Film Erosion	Meets or exceeds MCA Premium guidelines Meets or exceeds MCA Premium guidelines Less than 10% film loss

1. AMERICAN SOCIETY FOR TESTING AND MATERIALS.

2. NATIONAL COIL COATERS ASSOCIATION.

3. HIGHER FILM KXL COATINGS AND PERFORMANCE DATA AVAILABLE UPON REQUEST.

4. HIGHER AND LOWER GLOSSES AVAILABLE UPON REQUEST.

5. FRACTURING OF SUBSTRATE MAY RUPTURE FILM.

6. AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION.

7. HUNTER ΔE COLOR DIFFERENCE.

8. NO OBJECTIONABLE COLOR CHANGE

9. LESS THAN 1/16" CREEP FROM SCRIBE.

10. NO BUSTERS.

### COOL ROOF INFORMATION – Consult specifier or agencies to meet specific requirements

Color	Reflectivity	Emissivity	Gloss	Color	Reflectivity	Emissivity	Gloss
Arctic White	0.554	0.90	10%	Matte Black	0.048	0.92	10%
Ash Gray	0.372	0.90	10%	Patrician Bronze	0.091	0.92	10%
Classic Beige	0.393	0.89	10%	Regal Blue	0.121	0.89	10%
Cool Colonial Red	0.308	0.90	10%	Tahoe Blue	0.168	0.91	10%
Cool Regal White	0.706	0.90	10%	Terra Cotta	0.243	0.86	10%
Cool Sierra Tan	0.340	0.90	10%	Zinc Gray	0.196	0.91	10%
Egyptian White	0.526	0.90	10%	-----	-----	-----	-----
Leaf Green	0.115	0.91	10%	Unpainted Galvalume	0.650	0.06	0%



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