TOWN OF SIMSBURY

REQUEST FOR PROPOSAL

POWER PURCHASE AGREEMENT FOR SOLAR PHOTOVOLATAIC SYSTEMS

The Town of Simsbury is requesting sealed proposals from solar energy service providers to design, install, finance, own, operate and maintain solar photovoltaic systems at two Town facilities under a power purchase agreement:

- 1. Department of Public Works Facility 66 Town Forrest Rd, West Simsbury, CT 06092
- 2. Simsbury Ice Rink 100 Old Farms Rd., Simsbury, CT 06070

The Request for Proposals (RFP) is available online at: <u>http://www.simsbury-ct.gov/finance/pages/public-bids-and-rfp</u>

The Town of Simsbury reserves the right to accept or reject, without prejudice, any or all proposals or to waive any irregularities therein, or to accept the proposal deemed to be in the best interest of Town of Simsbury.

Questions regarding this RFP should be directed to Thomas J. Roy, PE – Director of Public Works via email at pubworks@simsbury-ct.gov. In order to receive consideration, all questions must be submitted by the close of business on June 6, 2017. A response to all salient questions will be provided via addendum that will be posted on the Town's web site under the Finance page, RFQ's and RFP's prior to the close of business on June 8, 2017.

Interested and qualified consultants are to submit three (3) copies and one flash drive of their proposals in a sealed envelope, clearly marked "RFP Power Purchase Agreement for Solar Photovoltaic Systems" and addressed to Sean Kimball, Director of Finance, Town of Simsbury, 933 Hopmeadow Street, Simsbury, CT 06070. **Proposals will be accepted until 10:00 AM on June 13, 2017**. No Statement of Qualifications will be accepted after the date and time specified. No fax or email submissions will be accepted.

TOWN OF SIMSBURY



DEPARTMENT OF PUBLIC WORKS 933 HOPMEADOW STREET SIMSBURY, CONNECTICUT 06070

REQUEST FOR PROPOSALS

POWER PURCHASE AGREEMENT FOR SOLAR PHOTOVOLATAIC SYSTEMS

Submission Deadline:

Tuesday, June 13, 2017

Submission Contact and Address:

Thomas J. Roy, P.E. Director of Public Works 933 Hopmeadow Street Simsbury, CT 06070

Fax: 860-658-3206

Email: pubworks@simsbury-ct.gov

Purpose:

In an effort to reduce the Town of Simsbury's carbon emissions and utility costs, the Town of Simsbury is soliciting a proposal from a Solar Energy Services Provider ("Solar Provider") to design, install, finance, own, operate and maintain solar photovoltaic systems at two Town facilities. The projects are to meet the terms and conditions of a Solar Energy Power Purchase Agreement ("PPA"). This document outlines the requirements, selection process and documentation necessary to submit to this Request for Proposal (RFP).

REQUEST FOR QUALIFICATIONS

POWER PURCHASE AGREEMENT FOR SOLAR PHOTOVOLATAIC SYSTEMS TOWN OF SIMSBURY

GENERAL

The Town of Simsbury is interested in the installation of solar photovoltaic ("PV") systems at two of the Town facilities to optimize the rates paid for electricity. The Town is seeking a qualified Solar Energy Service Provider to design, install, finance, own, operate and maintain the proposed solar PV system in accordance to the terms and conditions of a Solar Energy Power Purchase Agreement ("PPA"). Respondents may submit for one or both sites. As such the Town may hire one or more Solar Providers for the projects. The Town will purchase from the selected Solar Providers all of the energy output generated by the projects in accordance with the terms and conditions of the PPA.

Under the terms of the PPA, the sale and purchase of electricity is conditioned upon the selected Solar Provider's successful participation in the Connecticut Zero Emissions and Low Emissions Renewable Energy Credit Auction Program ("ZREC/LREC Program").

Proposals are considered valid for ninety (90) days after the submission deadline. Proposals may not be withdrawn, canceled or modified during the ninety (90) day period after submission.

KEY DATES

Date	Event
Friday, May 19, 2017	RFP Release Date
Friday, May 26, 2017	Voluntary Site Visit
Tuesday, June 6, 2017	Deadline For All Questions
Thursday, June 8, 2017	Addendum Issued Responding To Questions
Tuesday, June 13, 2017	RFP Proposals Due by 10:00 AM EST

PROJECT LOCATIONS

The Town has determined and is interested in the following potential sites for solar PV systems:

- 1. Department of Public Works Facility 66 Town Forrest Rd, West Simsbury, CT 06092
- 2. Simsbury Ice Rink 100 Old Farms Rd., Simsbury, CT 06070

The Department of Public Works Facility has four buildings that may be evaluated by the Solar Provider for potential solar PV sites: the Maintenance Garage, Truck Wash Facility, Custodial Building and Vehicle Storage Building. The facility has three separate meters monitoring the electrical supply of the buildings. The Town is open to Projects that will provide power to some or all of the buildings. Annual usage of each of the facilities can be found in the following chart:

Site	Address	Annual Usage (kWh)
Ice Rink	100 Old Farms Rd., Simsbury, CT	550,000 kWh
Truck Wash	64 Town Forrest Rd, Simsbury CT	5000 kWh
Maintenance Garage & Vehicle Storage Facility	66 Town Forrest Rd, Simsbury CT	85000kWh
Custodial Building	68 Town Forrest Rd, Simsbury CT	50000kWh

A more detailed chart of annual energy usage can be found in Appendix 1. The Truck Wash and pump station are new facilities and have limited history of electrical use. The Town has not provided the electricity cost per site in order to induce the lowest PPA pricing.

The selected Solar Provider will design, install, finance, own, operate, and maintain solar PV systems that will maximize the solar resources at these project sites. Each facility's electrical demand and load patterns, installation site, available solar resource, installation costs and other relevant factors, must be evaluated before approval of installation. Additional sites at Town facilities may be taken under consideration upon execution of these projects.

POWER PURCHASE AGREEMENT

Proposers should provide a draft of the PPA that the Proposer expects the Town will be required to negotiate and execute.

The Town expects that the Projects will be designed, installed, financed, owned, operated, and maintained pursuant to the terms and conditions of a PPA between the Town and the Solar Provider. The PPA will apply to each of the project sites. The PPA is expected to be for a 15 or 20-year term with options to extend and with available buyout options. The Town will pay no up-front fees in connection with the installation of the projects.

The Town requests that each Proposer provide pricing for 15 and 20 year terms for each System. For each term, please provide a fixed PPA rate and a rate assuming an escalator of 1%. For purposes of the PPA Price and comparison to other proposals, the Proposer should assume that the Systems will receive a ZREC or LREC contract of \$.09/kWh for 15 years. Proposers shall include the amount the PPA price will change, plus or minus, in the event the ZREC or LREC contract is reduced or increased by a cent/kWh. Each Proposer shall complete the PPA Pricing

and Equipment Form in Appendix 3 for each facility the Proposer wishes to submit to the Town on. Proposers may provide additional versions of the PPA Pricing Tables, as needed, to account for different terms and pricing structures.

Proposers should provide confirmation that the PPA price includes all costs and expenses associated with the engineering, permitting, construction, interconnection, testing and all other costs associated with the construction and operation of the Systems.

For each rooftop system, the Town will require in the PPA, the ability to have the System removed from the rooftop or otherwise moved to allow for the roof replacement or repairs for a period of six weeks. The removal of the System, and any lost revenue associated will be at the expense of the Proposer and the costs associated should be included in the requested pricing quote for each rooftop solar System. The Town will limit the amount of down-time to six weeks and will cooperate with the selected Proposer to minimize the lost production and cost associated with the roof replacement. Roof information for the facilities can be found in Appendix 2.

At the end of the PPA term or any renewal term, if the Town chooses not to purchase the solar PV systems, the Solar Provider will remove the Solar PV systems and return the Project sites to pre-existing conditions, at the Solar Provider's sole cost and expense.

SOLAR PROVIDER QUALIFICATIONS

The selected Solar Provider will be selected based upon relevant expertise and a thorough knowledge of the professional services, functions, activities and related responsibilities to successfully perform its role in the solar PV installations. The selected Solar Provider shall possess all applicable valid and pertinent State of Connecticut contractor construction licenses for the installation of commercial solar PV systems.

SCOPE OF WORK

The selected Solar Provider will be responsible for all required planning, engineering, labor, materials, delivery, installation and commissioning, as well as all warranties, and maintenance as described in this RFP and to be drafted in the Proposers PPA. The projects require the following:

- 1. Solar panels are to be located on the roofs of the Town facilities selected
- 2. All solar panels, tracks and anchoring equipment shall meet all State and local building codes
- 3. Solar production shall include web-based monitoring and shall monitor the electrical use of the facilities in real time. Solar production and avoided emissions of the projects shall be electronically displayed for public viewing via a monitor and/or website located at the facility.

SUBMITTAL REQUIREMENTS

Proposals shall include the following and shall be organized using each of the elements listed below as section headings:

- A. <u>Firm Description</u>: Provide a brief description of the firm including firm size and area of specialization, location of corporate headquarters, and location of office proposed to handle this project.
- B. <u>Project Team</u>: Provide names, resumes, and office locations of key staff who will be assigned to the project. Each team member's education and qualifications shall be listed. The project manager shall be clearly identified. If different consultants will be teaming together, indicate the lead consultant and identify any sub-consultants.
- C. <u>Project Understanding</u>: Provide a statement summarizing how the consultant and/or project team is particularly qualified for this project. Provide an overview of the principal elements of the proposal. A description of the proposer's approach to solar PV systems, any suggestions or concerns the Town should be aware of, proposed configuration of equipment, and any additional scope of work tasks proposed as necessary for the successful completion
- D. <u>Scope of Services</u>: Describe the consultant's approach and technical plan for accomplishing the work listed herein. The Solar Provider is encouraged to elaborate and improve on the tasks listed in the RFP; however, the consultant shall not delete any requested scope tasks without clearly noting this in the submission.
- E. <u>Schematic Design</u>: layouts of the solar PV systems, including PV model type and model no., wattage, number of modules, year 1 production, degradation percentage, inverter type and model, mounting system type, azimuth, tilt, system size AC and DC, and the impact on time demand-related charges on the Town's utility bills and daily demand charges (peak demand and time tariff). Details about the estimated kWh generated by the proposed PV systems including all necessary assumptions, for example sun light availability, dark time, maintenance down time, efficiency of the system purposes, efficiency losses, net metering, etc.
- F. <u>Project Schedule</u>: The Consultant shall submit a schedule, itemized by task, for completing the scope of work.
- G. <u>Maintenance</u>: A description of the Solar Provider's ability to respond quickly, efficiently and cost effectively to service calls so the photovoltaic systems are operating at optimum output.
- H. <u>Comparable Projects</u>: Description of related project experience, especially with other municipalities over the last 5 years. Include the client's name, a brief summary of the work, and role of key staff in each project.
- I. <u>References</u>: Three (3) references, including current contact name and phone number for similar projects.

SELECTION PROCESS

The materials submitted by the Proposers will be reviewed and ranked by Town Staff. Evaluation will be based upon qualifications and cost. Cost will be a facor in determining the best Solar Provider for the Town.

The process will incorporate without limitation the following criteria:

- PPA price/energy payment rate proposal
- Drafted PPA commitment
- Relevant project experience
- Financial strength and stability
- Proposal completeness and compliance with the RFP's requirements
- Recent prior PPA experience
- Photovoltaic performance monitoring capabilities
- Customer service and maintenance capabilities
- Likelihood that the proposal will win the ZREC/LREC Auction
- References from past clients

Following the review by Town staff, a short list of qualified firms may be invited to participate in an interview process. Following this process, a preliminary selection will be made, where the Town will negotiate and enter into a contract with one firm to conduct the services.

END

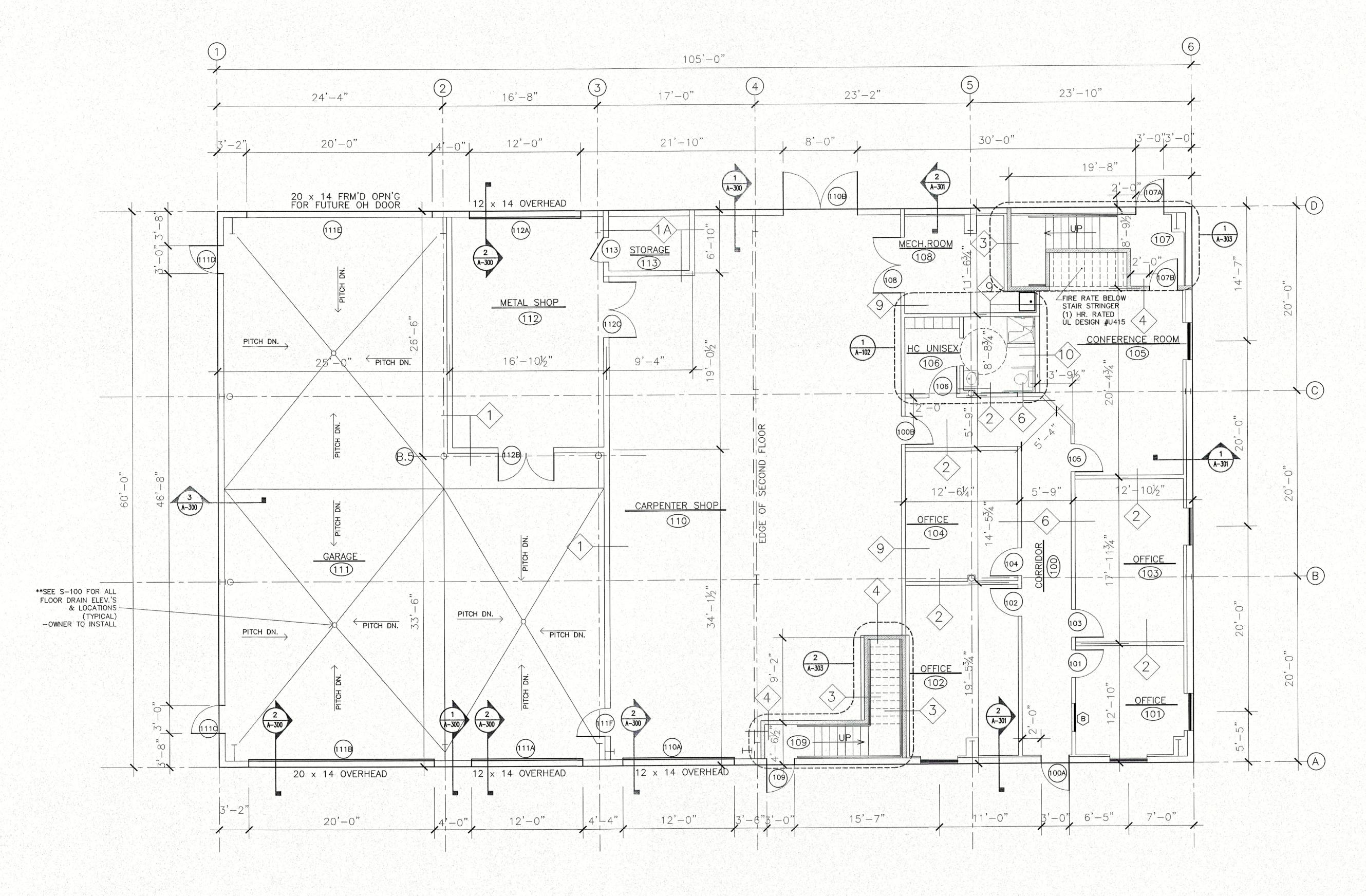
APENDIX 1 FACILITY ENERGY USAGE

The following chart is the energy usage of the facilities for the project on a monthly basis. The bill total has been left out to induce the best PPA pricing.

Ice Rink	100 Old Farms Rd	, Simsbury, CT 06070	
Provider	From	То	Usage
Eversource Energy: CL&P - CT	3/24/2017	4/26/2017	9440
Eversource Energy: CL&P - CT	2/24/2017	3/24/2017	9600
Eversource Energy: CL&P - CT	1/26/2017	2/24/2017	10080
Eversource Energy: CL&P - CT	12/28/2016	1/26/2017	10720
Eversource Energy: CL&P - CT	11/28/2016	12/28/2016	10400
Eversource Energy: CL&P - CT	10/26/2016	11/28/2016	13760
Eversource Energy: CL&P - CT	9/27/2016	10/26/2016	11680
Eversource Energy: CL&P - CT	8/26/2016	9/27/2016	20800
Eversource Energy: CL&P - CT	7/27/2016	8/26/2016	35040
Eversource Energy: CL&P - CT	6/27/2016	7/27/2016	34240
Eversource Energy: CL&P - CT	5/25/2016	6/27/2016	29760
Eversource Energy: CL&P - CT	4/27/2016	5/25/2016	11200
		Total	206720(KWH)
Ice Rink	100 Old Farms Rd	, Simsbury, CT 06070	
Provider	From	То	Usage
Eversource Energy: CL&P - CT	3/24/2017	4/26/2017	5568
Eversource Energy: CL&P - CT	2/24/2017	3/24/2017	44352
Eversource Energy: CL&P - CT	1/26/2017	2/24/2017	63360
Eversource Energy: CL&P - CT	12/28/2016	1/26/2017	64320
Eversource Energy: CL&P - CT	11/28/2016	12/28/2016	65856
Eversource Energy: CL&P - CT	10/26/2016	11/28/2016	81792
Eversource Energy: CL&P - CT	9/27/2016	10/26/2016	3264
Eversource Energy: CL&P - CT	8/26/2016	9/27/2016	1344
Eversource Energy: CL&P - CT	7/27/2016	8/26/2016	1536
Eversource Energy: CL&P - CT	6/27/2016	7/27/2016	1920
Eversource Energy: CL&P - CT	5/25/2016	6/27/2016	1920
Eversource Energy: CL&P - CT	4/27/2016	5/25/2016	1536
		Total	336768
Maintance Garage & Storage	66 Town Forest P	Total d, West Simsbury, CT 06092	(KWH)
Provider	From	To	Usage
Eversource Energy: CL&P - CT	3/21/2017	4/21/2017	7557
Eversource Energy: CL&P - CT	2/21/2017	3/21/2017	7728
Eversource Energy: CL&P - CT	1/23/2017	2/21/2017	9007
Eversource Energy: CL&P - CT	12/21/2016	1/23/2017	8023
COLAD DDA	12/21/2010		

Eversource Energy: CL&P - CT	11/21/2016	12/21/2016	7765
Eversource Energy: CL&P - CT	10/21/2016	11/21/2016	6799
Eversource Energy: CL&P - CT	9/22/2016	10/21/2016	5565
Eversource Energy: CL&P - CT	8/23/2016	9/22/2016	5660
Eversource Energy: CL&P - CT	7/22/2016	8/23/2016	6609
Eversource Energy: CL&P - CT	6/22/2016	7/22/2016	6059
Eversource Energy: CL&P - CT	5/20/2016	6/22/2016	6573
Eversource Energy: CL&P - CT	4/22/2016	5/20/2016	5550
		Total	82895 (KWH)
Custodial Building	68 Town Forest Rd	, Simsbury, CT 06070	
Provider	From	То	Usage
Eversource Energy: CL&P - CT	3/21/2017	4/21/2017	3952
Eversource Energy: CL&P - CT	2/21/2017	3/21/2017	4035
Eversource Energy: CL&P - CT	1/23/2017	2/21/2017	4433
Eversource Energy: CL&P - CT	12/21/2016	1/23/2017	4687
Eversource Energy: CL&P - CT	11/21/2016	12/21/2016	4435
Eversource Energy: CL&P - CT	10/21/2016	11/21/2016	3946
Eversource Energy: CL&P - CT	9/22/2016	10/21/2016	3213
Eversource Energy: CL&P - CT	8/23/2016	9/22/2016	3598
Eversource Energy: CL&P - CT	7/22/2016	8/23/2016	4692
Eversource Energy: CL&P - CT	6/22/2016	7/22/2016	4267
Eversource Energy: CL&P - CT	5/20/2016	6/22/2016	3587
Eversource Energy: CL&P - CT	4/22/2016	5/20/2016	3073
		Total	47918(KWH)
Truck Wash	64 Town Forest Rd	, Simsbury, CT 06070	
Provider	From	То	Usage
Eversource Energy: CL&P - CT	3/21/2017	4/21/2017	435
Eversource Energy: CL&P - CT	2/21/2017	3/21/2017	304
Eversource Energy: CL&P - CT	1/23/2017	2/21/2017	216
- -		Total	955(KWH)

APPENDIX 2 FACILITIES ROOF INFORMATION

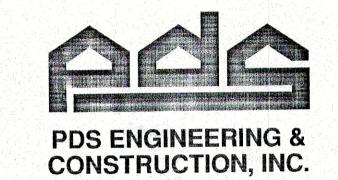


 $\frac{\text{FLOOR} \quad \text{PLAN}}{3/16"=1'-0"}$

CUSTODIAL BUILDING

'AS-BUILT DRAWING'

DATE	ISSUF
3-15-02	OWNER REVIEW
4-17-02	REV.FLOOR PLAN
5-21-02	OWNER REQUEST
5-29-02	PERMIT SUBMISSION
6-17-02	FOR PERMIT
€-27-02	FOR CONSTRUCTION
10-3-02	REVISE FLOOR DRAIN LAYOUT
2-7-03	AS BUILTS
Alconomic and a second	



107 Old Windsor Road Bloomfield, Connecticut.06002

> Telephone: (860) 242-8586 FAX (860) 242-8587

CONSULTANTS:

TOWN OF SIMSBURY
BUILDING & GROUND SERVICE
TOWN FOREST ROAD
SIMSBURY, CONNECTICUT 06070

FLOOR PLAN

SEAL

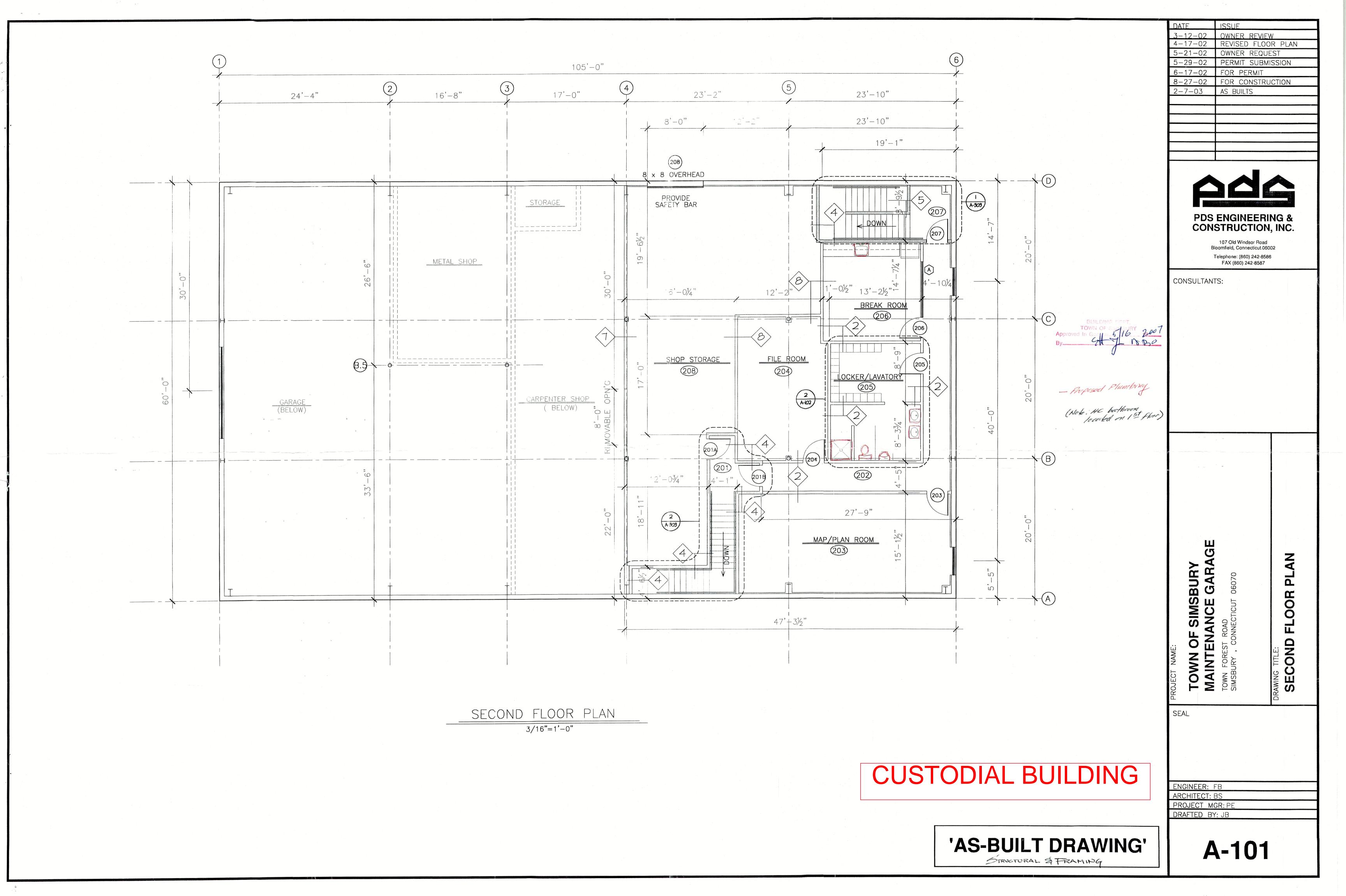
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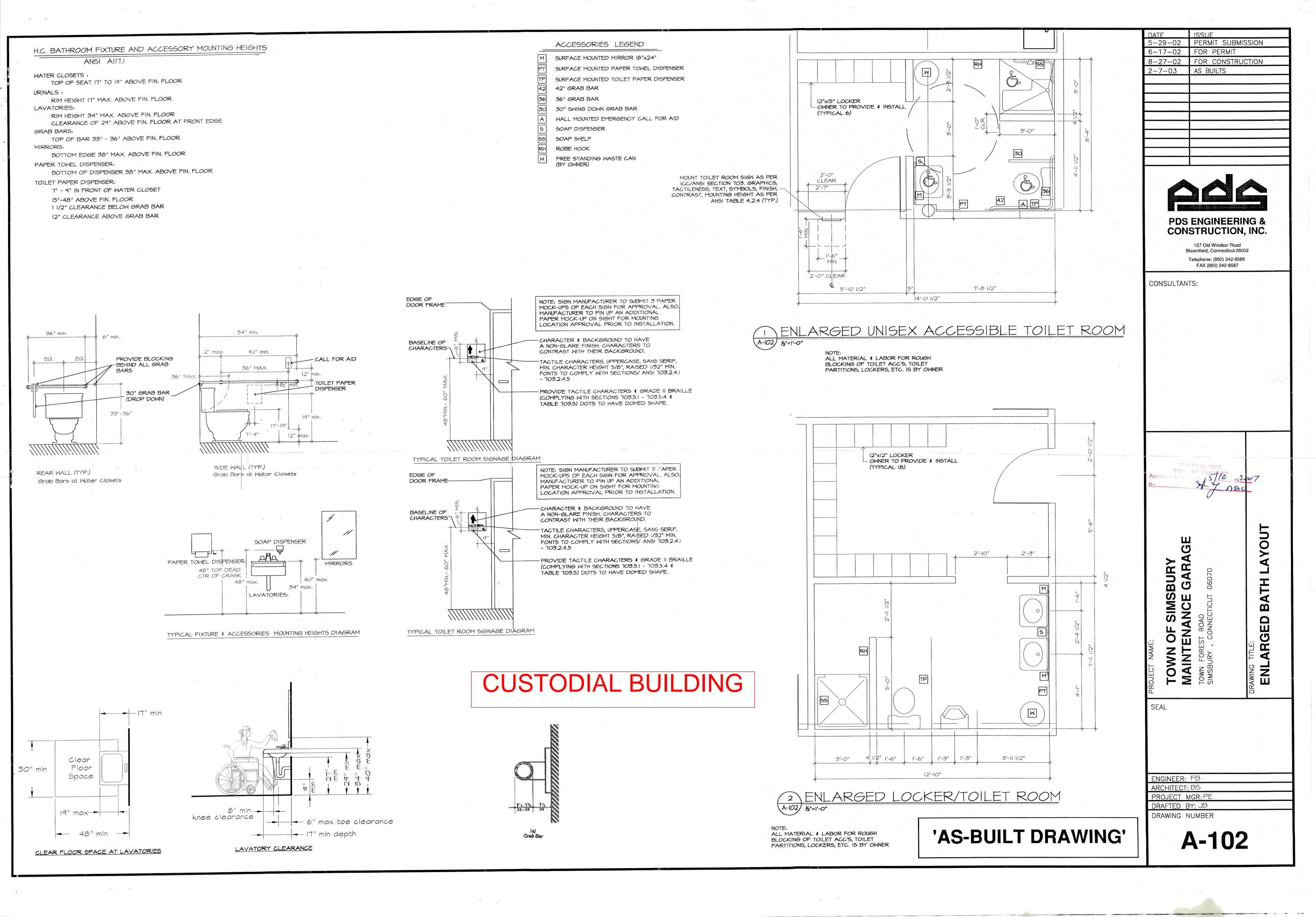
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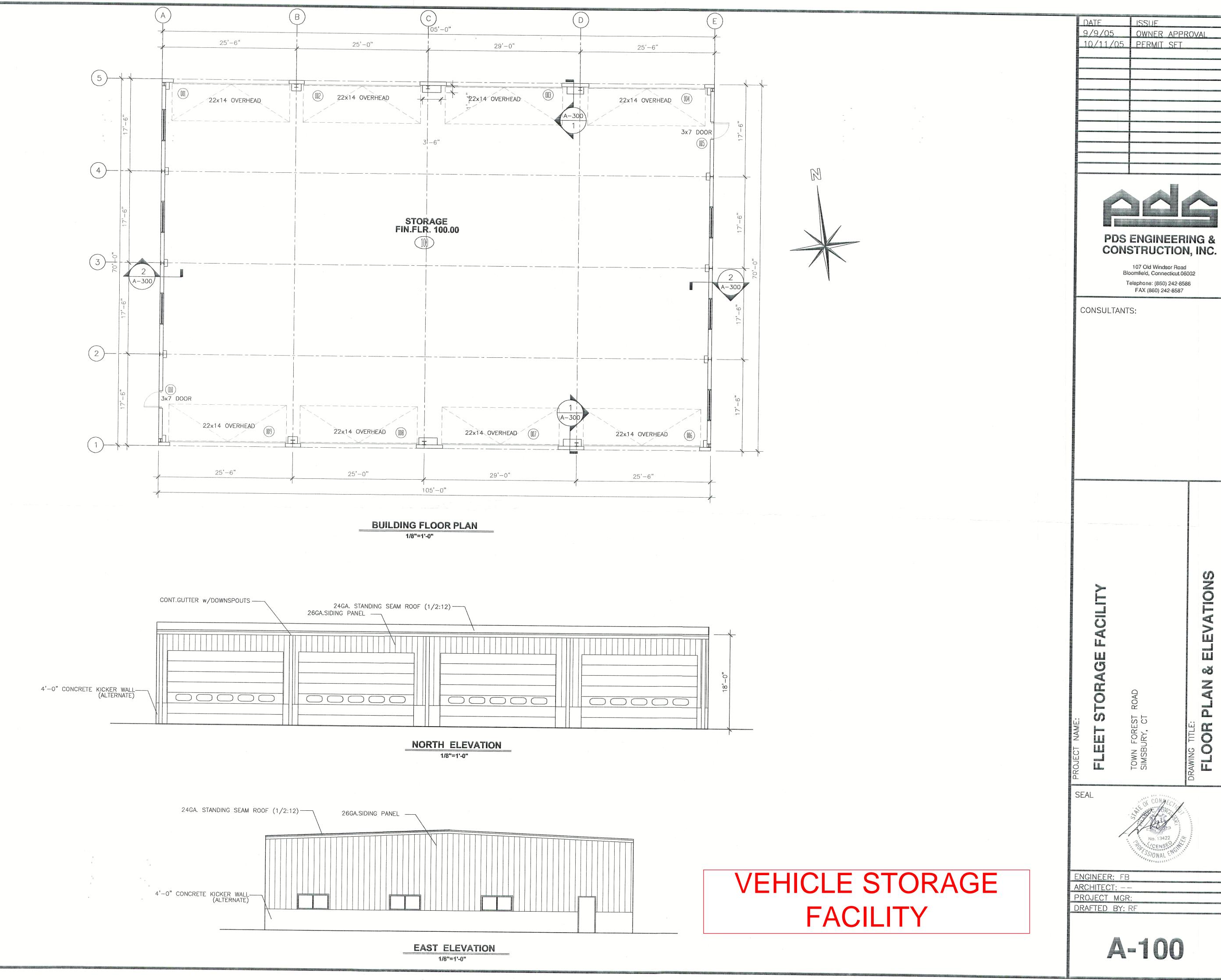
PROJECT MGR: PE

DRAFTED BY: JB

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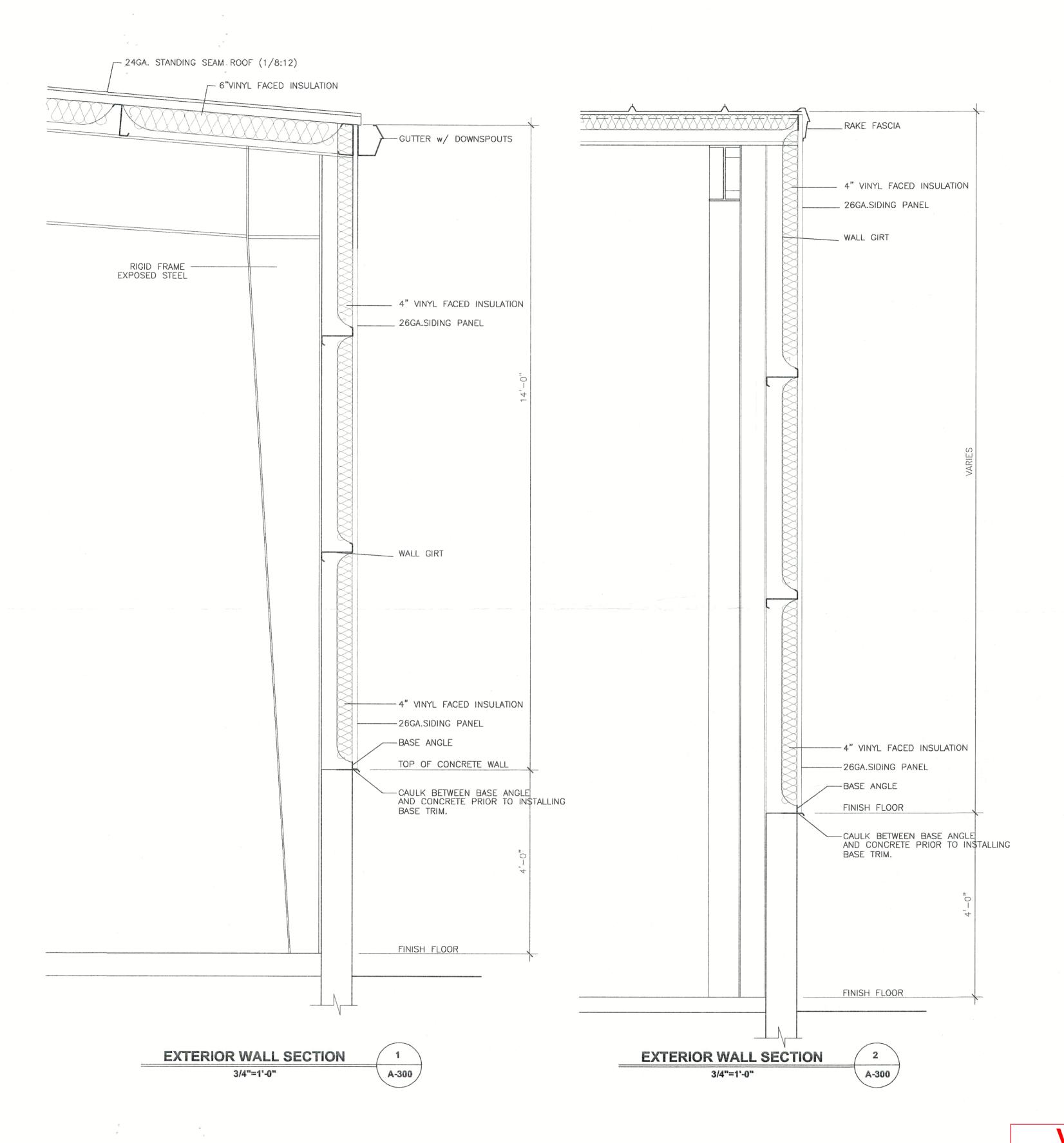




ELEVATIONS

PLAN

FLOOR



VEHICLE STORAGE **FACILITY**

SE	PROJECT NAME:	CC	A CONTRACTOR OF THE PARTY OF TH
AL ,	FLEET STORAGE FACILITY		TF 2/11/0
No. 13422	TOWN FOREST ROAD SIMSBURY, CT	S ENGINED 107 Old Windsor Bloomfield, Connection Telephone: (860) 242-44	ISSUF 5 PERMIT S
A A A A A A A A A A A A A A A A A A A	DRAWING TITLE: EXTERIOR WALL SECTIONS	ON, INC. Road cut.06002 42-8586	



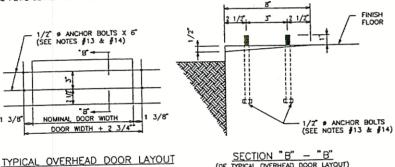
ENGINEER: FB ARCHITECT: --PROJECT MGR: DRAFTED BY: RF

A-300



GENERAL FOUNDATION NOTES AND CONCRETE DETAILS

- 1. AMERICAN BUILDINGS COMPANY ASSUMES NO RESPONSIBILTY OR LIABILITY FOR FOUNDATION, FLOOR OR SLAB DESIGN OR CONSTRUCTION.
- 2. THE FOUNDATION DESIGN SHOULD BE DONE WITH DUE RECARD TO THE SPECIFIC SOIL CONDITIONS PRESENT AT THE ACTUAL JOBSTE.
- 3. FOUNDATION MUST BE DESIGNED FOR THE APPLICABLE REACTIONS AS THEY APPLY TO A PARTICULAR BUILDING AND MUST BE ADEQUATE TO RESIST ALL OF THE CRITICAL COMBINATIONS FOR EACH OF THE VARIOUS LOADING CONDITIONS. THESE REACTIONS REPRESENT THE MINIMUM DESIGN LOADS TO BE RESISTED BY THE FOUNDATIONS.
- 4. REINFORCING BARS, WIRE MESH, ANCHOR BOLT SHEAR ANGLES, TIE RODS AND / OR MAIRPINS (HOOK BARS) SHOULD BE INCORPORATED AS KEINFORCING BARS, WIRE MESH, ANCHUR BULL SHEAK ANGLES, HE KUUS AND / UK FAMINING (HUUK BARS) SHOULD BE INCURPORATED AS REQUIRED INTO THE FOUNDATION DESIGN. THE HORIZONTAL THRUST AT THE COLUMN BASE ACTING IN CONJUNCTION WITH APPLICABLE VERTICAL REACTIONS, MUST BE SUSTAINED BY HAIRPINS, TIE RODS, BUTTRESSES, OR OTHER DEPENDABLE MEANS.
- 5. COLUMN FOOTING SHOULD EXTEND A MINIMUM OF 12 INCHES INTO NATURAL SOIL, OR WHERE FILL IS USED, THE FILL MUST BE PROPERLY COMPACTED COLUMN FOOTING SHOULD EXTEND A MINIMUM OF 12 INCIDES INTO PARADICAL SOIL, OR WHERE FILL IS USED, THE FILL MUST BE PROPERLY COMPACTED
 OR THE FOOTING SHALL EXTEND TO THE NATURAL GRADE. IN ALL CASES THE FOOTING SHALL EXTEND AT LEAST 6 INCHES BELOW THE LOCAL FROST LINE.
- 6. EXPANSION OR CONSTRUCTION JOINTS SHALL BE LOCATED AS REQUIRED IN FOUNDATION WALLS AND SLAB.
- 7. THE TOP OF THE FOUNDATION OR FLOOR SHALL BE SQUARE, LEVEL AND SMOOTH. ANCHOR BOLTS SHALL BE ACCURATELY SET TO A TOLERANCE ±1/16 INCH ON DIMENSIONS WITHIN THE GROUP SPACING FOR AN INDIVIDUAL COLUMN. ALL OTHER DIMENSIONS SHALL HAVE A ±1/8 INCH TOLERANCE.
- 8. COLUMN BASE PLATES ARE DESIGNED NOT TO EXCEED THE ALLOWABLE BEARING STRESS OF CONCRETE THAT HAS A MINIMUM COMPRESSIVE STRENGTH OF 2500 P.S.I. AT 28 DAYS.
- 9. UNLESS EXPLICITLY NOTED OTHERWISE, ALL EMBEDDED STRUCTURAL STEEL (INCLUDING ANCHOR BOLTS), OTHER MATERIALS, AND LABOR SHALL BE SUPPLIED BY THE FOUNDATION CONTRACTOR.
- 10. ANCHOR BOLTS SHOULD BE AS SHOWN AND CALLED FOR, INCLUDING PROJECTION FROM CONCRETE, DIAMETER AND QUANTITY.
- 11. THE EMBEDMENT OF THE ANCHOR BOLTS IN THE CONCRETE IS THE RESPONSIBILITY OF THE FOUNDATION DESIGNER. THE FRAME REACTIONS ARE CONSIDERED THE MINIMUM LOADS TO BE DEVELOPED.
- 12. ALL ANCHOR BOLTS SHALL BE ASTM A307 OR EQUAL IN ORDER TO CONFORM TO A.B.C. DESIGN ASSUMPTIONS BASED ON THE ALLOWABLE STRESSES GIVEN IN THE AISC MANUAL OF STEEL CONSTRUCTION.
- 13. ALL ANCHOR BOLTS SHALL HAVE A 3 INCH PROJECTION (UNLESS NOTED) ABOVE THE CONCRETE BEARING SURFACE, EXCEPT 1/2 INCH DIAMETER BOLTS ALL ANUMUK BULIS SHALL HAVE A 3 INCH PROJECTION OF 1 INCH. ALL BOLTS SHALL HAVE A MINIMUM THREAD LENGTH 1/4 INCH LESS THAN THE LOCATED AT DOORS WHICH SHALL HAVE A PROJECTION OF 1 INCH. ALL BOLTS SHALL HAVE A MINIMUM THREAD LENGTH 1/4 INCH LESS THAN THE PROJECTION. PROJECTING THREADS SHOULD BE GREASED OR OTHERWISE PROTECTED PRIOR TO COLUMN ERECTION.
- 14. ANCHOR BOLTS FOR FRAMED OPENINGS SHALL BE 1/2 INCH DIAMETER UNLESS OTHERWISE NOTED. ANCHOR BOLT DIAMETERS FOR THE PRIMARY FRAMING AND ENDWALL FRAMING ARE DENOTED AT RESPECTIVE BASE PLATE DETAILS OR ON THE BOLT PLACEMENT PLAN.



(OF TYPICAL OVERHEAD DOOR LAYOUT)

REVISIONS

BASIC MATERIAL SPECIFICATIONS

STEEL FOR HOT-ROLLED STRUCTURAL SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION ASTM A36 OR ASTM A572 - GRADE 50.

STEEL FOR BUILT-UP SECTIONS SHALL CONFORM TO ONE OR MORE OF THE FOLLOWING:

FLANCE AND WEB MATERIAL SHALL MEET AS APPLICABLE THE PHYSICAL AND CHEMICAL REQUIREMENTS OF ASTM A572 GRADE 50 WITH A MINIMUM YELD OF 55 KSI, OR ASTM A607 GRADE 55 , OR ASTM A570 GRADE 55 , OR ASTM A529 GRADE 55 .

STEEL FOR ALL ENDWALL "C" SECTIONS SHALL MEET THE PHYSICAL AND CHEMICAL PROPERTIES OF ASTM A570, GRADE 55.

STEEL FOR TUBE SECTIONS SHALL CONFORM TO ASTM A500-GRADE B.

STEEL FOR PIPE SECTIONS SHALL CONFORM TO ASTM A53-GRADE B.

SECONDARY FRAMING STEEL

STEEL USED TO FORM PURLINS, GIRTS, EAVE STRUTS AND "C" SECTIONS SHALL MEET THE PHYSICAL AND CHEMICAL PROPERTIES

STEEL USED TO FORM ZINC-COATED (CALVANIZED) PURLINS AND GIRTS SHALL MEET THE PHYSICAL AND CHEMICAL PROPERTIES OF ASTM A553 GRADE D AND G 90 COATING DESIGNATION AS DESCRIBED IN ASTM A525.

ROOF AND WALL PANEL MATERIAL

EXTERIOR PANELS SHALL CONFORM TO ONE OF THE FOLLOWING:

PANEL MATERIAL AS SPECIFIED SHALL BE 26 CAUGE ZINC-COATED (GALVANIZED) STEEL, COATING DESIGNATION G 90, CONFORMING TO THE REQUIREMENTS OF ASTM A653 GRADE E. MINIMUM YIELD STRESS SHALL BE 80 KSI.

PANEL MATERIAL AS SPECIFIED SHALL BE 24 CAUGE ZINC-COATED (CALVANIZED) STEEL, COATING DESIGNATION G 90, CONFORMING TO THE REQUIREMENTS OF ASTM A653 GRADE D. MINIMUM YIELD STRESS SHALL BE 50 KS).

BCE CD 08/13/99 12/4

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PANEL MATERIAL AS SPECIFIED SHALL BE 26 CAUGE ALUMINUM ZINC ALLOY-COATED STEEL, COATING DESIGNATION AZ 55, CONFORMING TO THE REQUIREMENTS OF ASTM A792. MINIMUM YIELD STRESS SHALL BE 80 KSI.

PANEL MATERIAL AS SPECIFIED SHALL BE 24 CAUGE ALUMINUM-ZINC ALLOY-COATED STEEL, COATING DESIGNATION AZ 55, CONFORMING TO THE REQUIREMENTS OF ASTM A792. MINIMUM YIELD STRESS SHALL BE 50 KSI.

BRACE MATERIALS:

FINAL ERECTION PLANS/ISSUED FOR CONST.

REVISIONS

BCS = 5/16 DA BC8 = 1/2" DIA BC6 = 3/8 DA

BRACE CABLES: ASTM-A475, 7-STRAND EHS WIRE CABLE BC4 = 1/4" DIA MADE CK'D DATE ENGR DATE

CERTIFICATION AND SCHEDULE OF DRAWINGS

SHEFT

NUMBER

DATE

THIS IS TO CERTIFY THAT THE METAL BUILDING COMPONENTS AND BUILDING SYSTEM FURNISHED BY A.B.C. ARE DESIGNED TO COMPLY WITH THE FOLLOWING CRITERIA:

DESIGN LOAD COMBINATIONS ARE: DESIGN LOADS ARE:

1. D + C + L 1. 5.0 psf METAL BUILDING DEAD LOAD (D) 2 D + C + S 3.0 osf COLLATERAL LOAD (C). 3. D + W 3. 35.0 psf ROOF LIVE LOAD (L) 4. 1.2(D + C) + 0.2S + E 35.0 psf FRAME LIVE LOAD (L) 5 D + C + 3/4L + 3/4W 35.0 psf GROUND SNOW LOAD (Pa) 6. D + C + 3/4S + 3/4W6. 30.0 psf ROOF SNOW LOAD (S)
SNOW EXPOSURE FACTOR = 0.78
SNOW IMPORTANCE FACTOR = 1.10 7. 0.9(D + C) + E

7. 80.0 mph WIND VELOCITY (W)
WIND EXPOSURE CATEGORY = C
WIND IMPORTANCE FACTOR = 1.20

8. SEISMIC LOAD DATA (E)

S=2.0 i=N/A Ay=0.11 Ag=0.15

SEISMIC HAZARD EXP. GROUP=II

SEISMIC PERFORMANCE CAT.=C

RIGID FRAME: R=4.5 Cd=4.0

CONCEN. BRACING: R=5.0 Cd=4.5

NOTES : 1. ROOF DESIGN IS BASED ON THE LARGER ROOF LIVE LOAD OR ROOF SNOW LOAD.

> 2. ALL FIELD WELDING IS TO BE PERFORMED BY AN AWS CERTIFIED WELDER USING E70XX ELECTRODES.

THIS PROJECT IS DESIGNED AS AN OPEN BUILDING AND THE WALL AREAS ARE TO REMAIN UNOBSTRUCTED.

THESE DESIGN LOADS AND COMBINATIONS ARE APPLIED IN ACCORDANCE WITH THE FOLLOWING BUILDING CODE.

1996 BOCA National Building Code w/99 "CT" SUPPLEMENT

SERVICEABILITY LIMITS OF THE A.I.S.C. STEEL GUIDE SERIES 3 HAVE BEEN INCORPORATED UNLESS ABOVE BUILDING CODE RESTRICTIONS PREVAIL OR ARE OTHERWISE NOTED.

THIS CERTIFICATION IS LIMITED TO THE STRUCTURAL DESIGN OF THE FRAMING AND COVERING PARTS MANUFACTURED BY AMERICAN BUILDINGS COMPANY. ACCESSORY ITEMS SUCH AS DOORS, WINDOWS, LOUVERS, TRANSLUCENT PANELS AND VENTILATORS ARE NOT INCLUDED. ALSO EXCLUDED ARE OTHER PARTS OF THE PROJECT NOT PROVIDED BY AMERICAN BUILDINGS COMPANY SUCH AS FOUNDATIONS, MASONRY WALLS , MECHANICAL EQUIPMENT AND THE ERECTION AND INSPECTION OF THE BUILDING. THE BUILDING SHALL BE ERECTED ON A

PROPERLY DESIGNED FOUNDATION IN ACCORDANCE WITH THE AMERICAN BUILDINGS COMPANY "GENERAL ERECTION GUIDE". THE MBMA MANUAL, LATEST EDITION, AND THE JOB ERECTION DRAWINGS. THE DRAWINGS LISTED ON THIS

PRODUCT APPROVALS AND CERTIFICATIONS:

1. STANDARD BUILDING CODE - SBCCI \$94100, 12 BASIC STYLES.

SHEET SHALL REMAIN WITH AND BECOME PART OF THIS CERTIFICATION.

2. UNIFORM BUILDING CODE (ICBO) - F FA-285-CARSON CITY, NEVADA PLANT.

3. INDIANA - 12 BASIC STYLES AS BELOW.

d. M-190863 - LT a. M-190860 - SSF e. M-190862 GC, LP2, LP4, LP2-M, LP4-M

b. M-190857 - LRF, RF, LRF-M c. M-190858 - LSS, LSS-M

WISCONSIN-# 960032-M; 13 BASIC STYLES.

5. CITY OF CLEVELAND, OHIO DOCKETS S-52-82.

6. CANADIAN WELDING BUREAU DIVISION I CERTIFICATION AT EL PASO & CARSON CITY.

7. AISC QUALITY CERTIFICATION, CATEGORY MB.

8. PLANT CERTIFICATION AT CARSON CITY FOR CITY OF SEATTLE.

9. PLANT CERTIFICATION AT CARSON CITY FOR DGDEN, UTAH.

CITY OF LOS ANGELES FABRICATORS LICENSE #1390 AT CARSON CITY PLANT.

11. CITY OF HOUSTON, TEXAS FABRICATOR APPROVAL \$478.

12. STANDING SEAM 360 WIND UPLIFT-CLASS 90 (UL 90) CONSTRUCTION NO. 93 AS USTED IN UNDERWRITERS LABORATORIES ROOFING MATERIALS AND SYSTEM DIRECTORY.

13. STANDING SEAM II WIND UPUFT-CLASS 90 (UL 90) CONSTRUCTION NO. 93 AS LISTED IN UNDERWRITERS LABORATORIES ROOFING MATERIALS AND SYSTEM DIRECTORY.

14. LOC-SEAM WIND UPLIFT-CLASS 90 (UL 90) CONSTRUCTION NOS. 93 AS LISTED IN UNDERWRITERS LABORATORIES ROOFING MATERIALS AND SYSTEM DIRECTORY.

15. LONGSPAN PANEL WIND UPUFT-CLASS 90 (UL 90) CONSTRUCTION NO. 93 AS LISTED IN UNDERWRITERS LABORATORIES ROOFING MATERIALS AND SYSTEM DIRECTORY.

16. 22 GA. STANDING SEAM 360 HAS MET FACTORY MUTUAL CLASS 1-60, 1-90 AND 1-120.

17. 24 GA STANDING SEAM 360 HAS MET FACTORY MUTUAL CLASS 1-60.

18. 24 GA. LONGSPAN HAS MET FACTORY MUTUAL CLASS 1-120.

19. 24 GA LOC-SEAM MCDIFIED WITH JM-VHB TAPE #4950 OR 3/16" BOLTS MEETS CORPS OF ENGINEERS GUIDE SPECIFICATION 07416.

20. 24 GA STANDING SEAM 360 MEETS CORPS OF ENGINEERS GUIDE SPECIFICATION 07416.

21. 24 GA STANDING SEAM 360 HAS BEEN TESTED IN ACCORDANCE WITH ASTM E-1592.

22. DADE COUNTY FLORIDA ACCEPTANCE NO. 96-0319.03 - 24 GA. STRUCTURAL STEEL 1 3/16 X 36

ARCHITECTURAL II WALL PANEL 23. DADE COUNTY FLORIDA ACCEPTANCE NO. 96-0319.04 - 24 GA. STRUCTURAL STEEL 1 3/16" X 36"

CAD BY: JA

24. DADE COUNTY FLORIDA ACCEPTANCE NO. 96-0319.05 - 24 GA. STRUCTURAL STEEL 1 3/16" X 36" LONGSPAN ROOF PANEL

ENGR DATE DRAWING SUBMITTAL NONE DATE MADE CK'D DATE SCALE: STATUS 07/16/99 YI FOR CONSTRUCTION DRAWN BY: JA CHECKED BY: JPH 07/19/99 FOR PERMIT ONLY DESIGN APPD BY: BWP 6/17/99 FOR PRELIMINARY

07/16/99 13:09:29 Ver. 13.0

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ASW-2.0		DWF-2.0	X	LO	C-3.0		LSR-9	0.0		SF5-4.0	H	SSG-1T.0		WAD-2.0	ļ
ASW-3.0		DWF-3.0	X	LO	C-4.0		LSR-1	10.0		SFL-1.0	X	SSG-2.0	Д	WAD-3.0	1
BID-1.0		DWF-4.0	Ĺ	LO	C-4T.0		LSR-1	11.0		SPH-1.0	\sqcup	SSC-3.0	1	WAD-4.0	1
BID-2.0		DWR-1.0	X	LO	C-5.0		LSW-	1.0		SPW-1.0	Ш	SSG-4.0	\dashv	WAD-5.0	ļ
BJD-1.0		ECD-1.0		LO	C-6T.0		LSW-	2.0		SPW-2.0		SSG-5.0		WAK-1.0	1
BJD-2.0		EOH-1.0		LO	C-7.0	L	LSW-	3.0		SPW-3.0	Ш	SSG-6T.0		WAL-1.0	1
BJD~3.0		GTD-1.0	X	٢٥	C-8.0	L	MDW-	1.0		SPW-4.0		SSG-7.0		WAL-2.0	1
BPD-1.0		GTD-2.0	L	LO	C-9.0	L	MDW-	-2.0		SRO-1.0		SSC-8.0	Ш	WAO-1.0	4
BP0-2.0		LBD-1.0		LO	C-10.0	L	MSW-	-1.0		SR0-2.0	Ļ	SSG-9.0		WAO-2.0	1
CND-1.0		LBD-2.0	L	LO	C-11.0		PFD-	1.0	_	SS2-1.0	X,	SSG-10.0		WAO-3.0	-
CSD-1.0		LFD-1.0		LC	C-12.0	L	RFO-	1.0	_	SS2-2.0	X	SSG-11.0		WAW-1.0	4
DEF-1.0		LFD-2.0	L	LC	XC-13.0	L	SDB-	1.0	_	SS2-2T.	1	VF4-1.0	_	WAW-2.0	4
DLT-1.0		LFD-3.0		LS	R-1.0	L	SED-	1.0	_	552-3.0	10	VF4-2.0	_	WAW-3.0	-
DMF-1.0	X	LFD-4.0		LS	R-2.0		5F4-	1.0		SS2-4.0	X	VF4-3.0	_	WAW-4.0	-
DND-1.0	X	LFD-5.0		LS	SR-3.0	L	SF4-	2.0	L	553-1.0	1	VF4-4.0	-	WAW-5.0	-
DRB-1.0		L02-1.0		L	SR-4.0	L	SF4-	-3.0	L	SS3-2.0	-	VF5-1.0	1	WAW-6.0	-
DRB-2.0		L03-1.0	1	L	SR-5.0		SF4-	-4.0	L	SS3-2T.	0	VF5-2.0	1		_
DRF-1.0	X	LOC-1.0		L	SR-6.0		SF5-	-1.0	L	SS3-3.0	1	VF5-3.0	1		_
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SHEET

NUMBER

REV. NO.

DATE

REV. NO.

ICF RINK

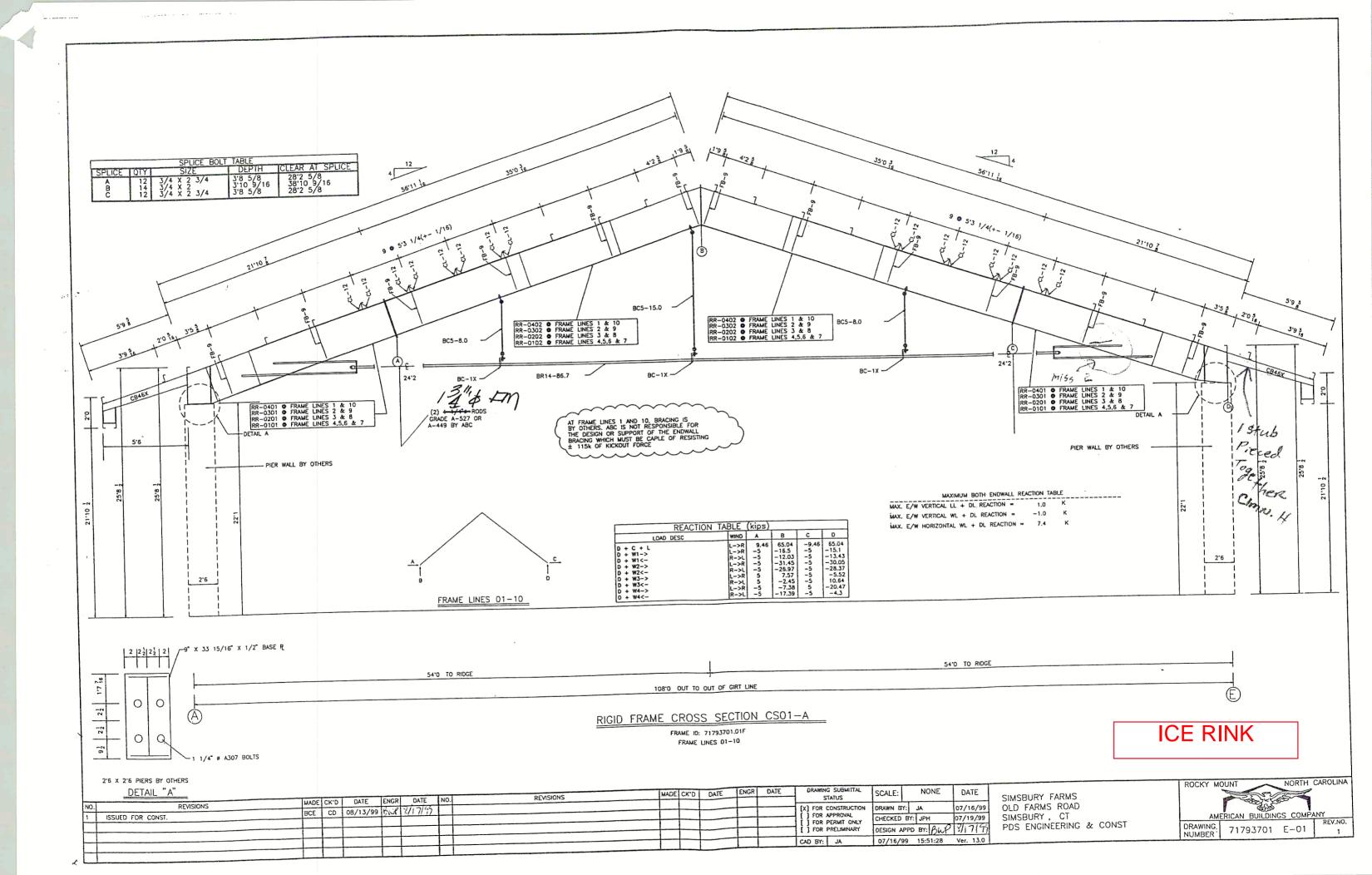
THE CERTIFYING ENGINEER HEREWITH IS NOT THE ENGINEER OF RECORD FOR THE OVERALL PROJECT AND IS ONLY CERTIFYING THAT THE DESIGN OF THE METAL BUILDING COMPONENTS FURNISHED BY AMERICAN BUILDINGS COMPAN SATISFY THE DESIGN REQUIREMENTS SPECIFIED ABOVE AND ON THE A.B.C. CONTRACT. THIS CERTIFICATION EXCLUDES THE ERECTION OF THE STRUCTURE.

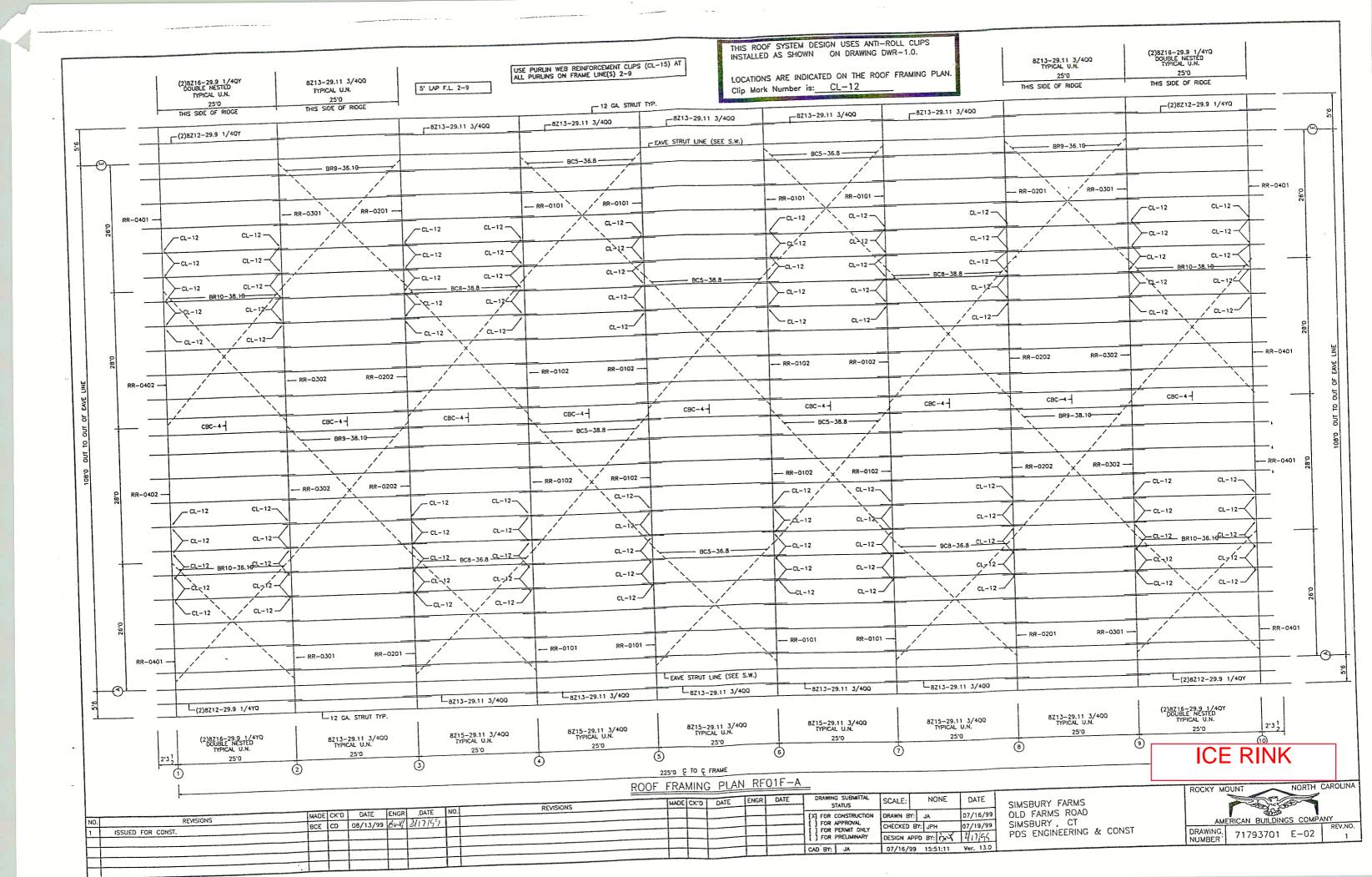
WOF CONVEC 'SONA'

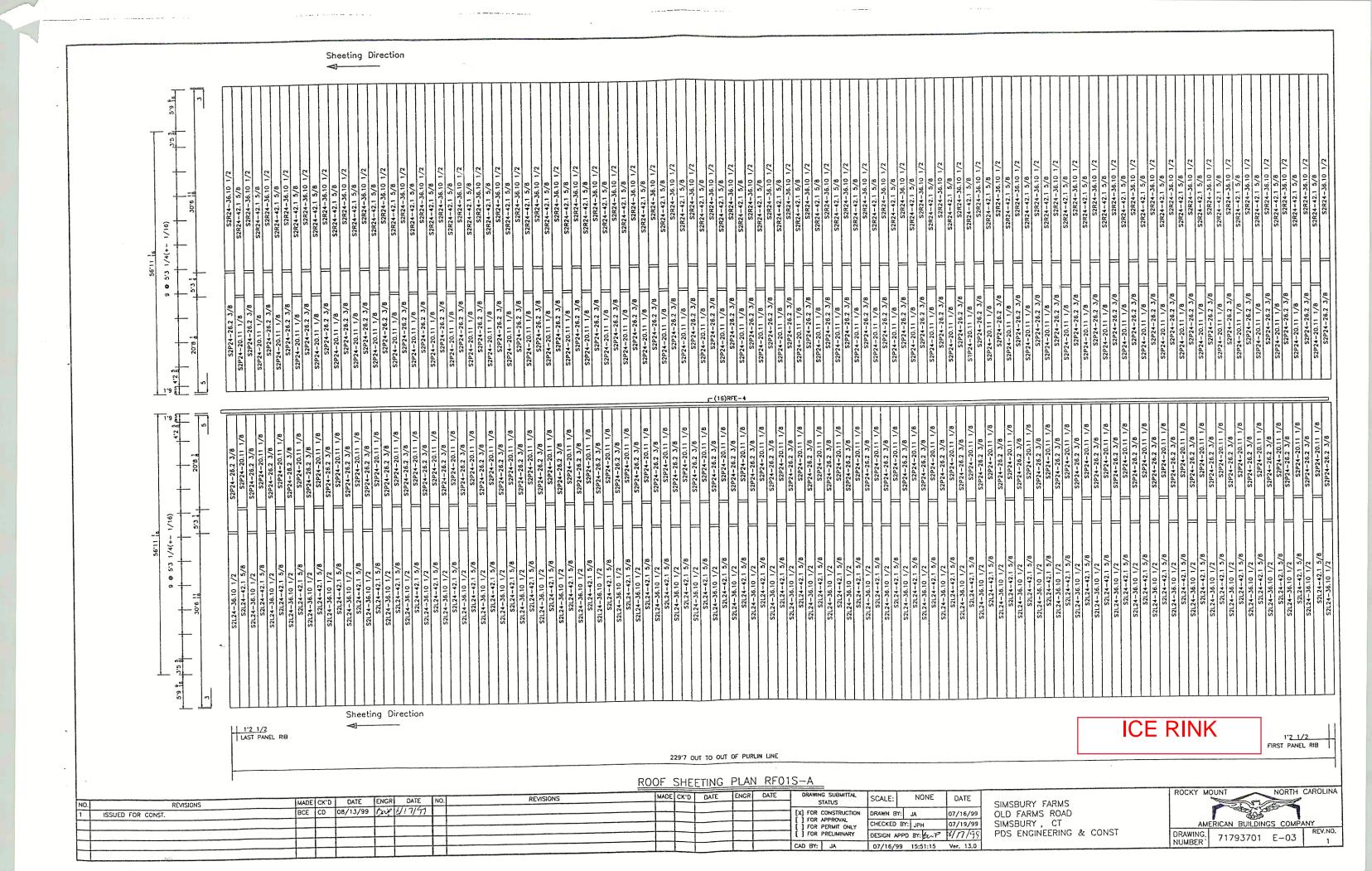
SIMSBURY FARMS OLD FARMS ROAD SIMSBURY. CT PDS ENGINEERING & CONST

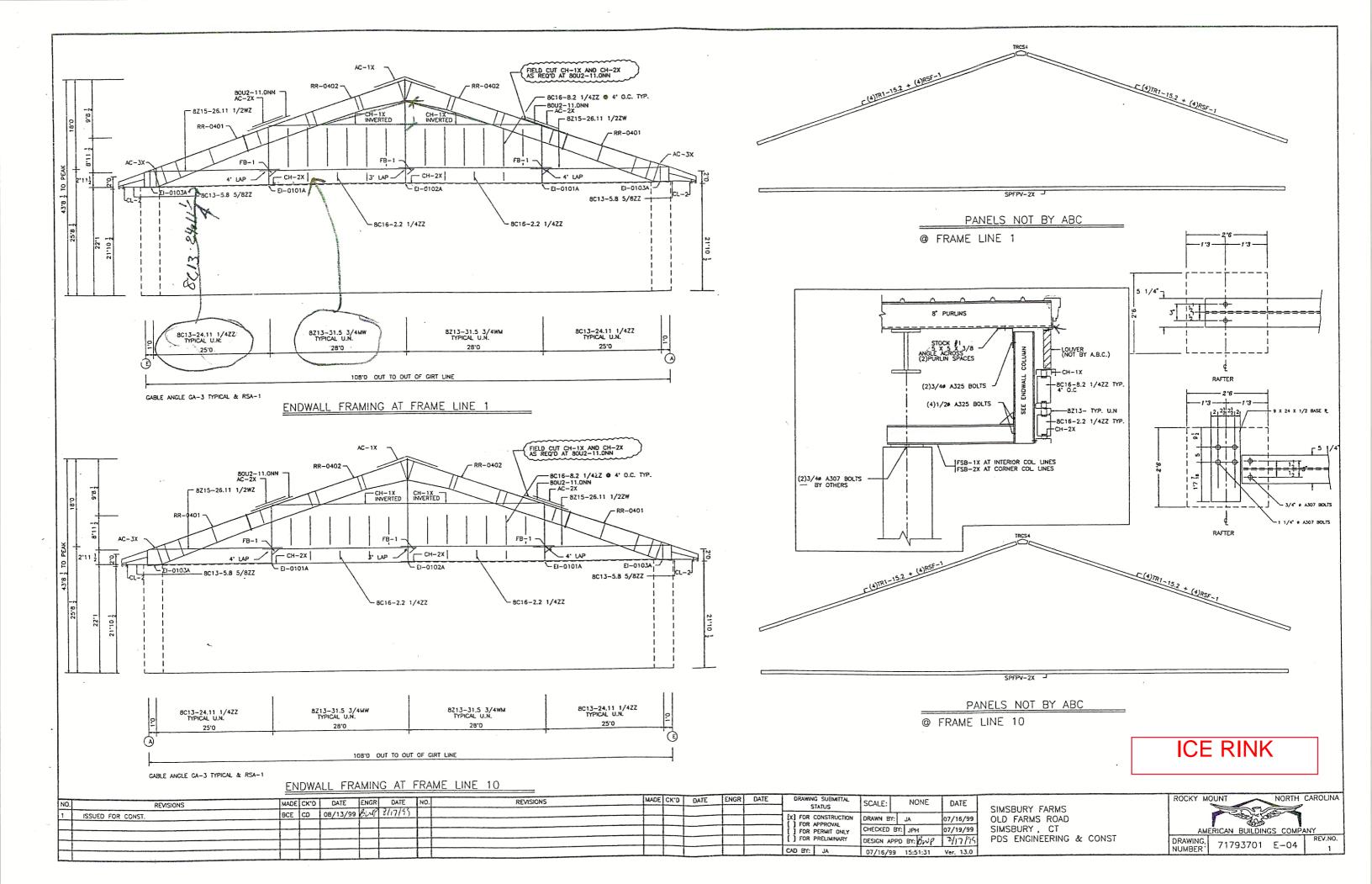
NORTH CAROLINA ROCKY MOUNT AMERICAN BUILDINGS COMPAN' 71793701

sons ausic	WALK DOORS N/A	ROOF CURB FRAMING N/A	RECENT PRODUCT REVISIONS
ROOF PANELS	QTY SIZE TYPE SWING LOCKSET CLOSER COLOR LINER TRIM LINER TRIM COLOR	SIZES ARE OUT TO OUT CURB DIMENSION AS UNDERSTOOD BY AMERICAN BUILDINGS	THE FOLLOWING NOTES MAY OR MAY NOT PERTAIN TO THIS SPECIFIC JOB BUT ARE NOTEWORTHY PRODUCT CHANGES.
TYPE: 52 GAGE:24 COLOR: TCOTP70		COMPANY (A.B.C.). DO NOT CUT PURLINS FOR CURB FRAMING UNLESS RELEASED BY	
PAINT WARRANTY: NO WATER TIGHT WARRANTY: NO		THE MACHINE AND LOCATION OF ALL LOADS SUPPORTED BY ROOF CURBS MUST BE CLEARLY SPECIFIED IN THE ORDER DOCUMENTS.	1. THINK SAFETY!
UL 90 CERTIFICATION: NO	30706070MNLHGYESNO WHITEYESNO		
IF SSII: FIXED CUP: NO SLIDING CUP: YES		QTY WIDTH LENGTH SLOPED AT RIDGE	
	30706070MNLHGYESNO WHITEYESNO		
WALL PANELS	1	ROOF CURBS N/A	
TYPE: HFP16 GAGE:24 COLOR: TCOTP70E BASE: BT	FRAMED OPENINGS N/A		
i	QTY WIDTH HEIGHT SILL HEIGHT FR WRAP TRIM LINER TRIM LINER TRIM COLOR	gri dorade morri	
PAINT WARRANTY:NO			
		8 18	
EAVE TREATMENT	YESNOYESNO		
	YESNOYESNO	SKYLIGHTS / WALL LIGHTS N/A	
STANDARD GUTTER W/ DOWNSPOUTS FT O.C. (MAX)		TRANSLUCENT SKYLIGHTS QTY: SIZE: TRIM:	
FLANGE BACK GUTTER W/ DOWNSPOUTS FT O.C. (MAX)	YES NO YES NO	TRANSLUCENT 4' 5" WALL LIGHTS OTY:	
X_ SIMPLE EAVE TRIM	YESNOYESNO		
DELUXE EAVE TRIM			
ICE AND SNOW TREATMENT NO:_N/A	YESNOYESNO	FACADE N/A CLEAR CORNER	
		TYPE VERT OR SLOPED HEIGHT LENGTH PROJECTION UNDER FACADE UNIT	
56 LF OF CUTTER RSW W/DOWNSPOUTS			
TRIM COLORS	YESNOYESNO		
RAKE TRIM:ICOTP70E GUTTER / EAVE:ICOTP70E		FACIA PANEL TYPE : GAGE: COLOR: TRIM COLOR:	
DOWNSPOUTS: TCOTP70 FRAMED OPENINGS: TCOTP70E	WINDOWS 11/4		
CORNER: TCOTP70E BASE TRIM: TCOTP70E	WINDOWS N/A	SOFFIT PANEL TYPE: CAGE: COLOR: TRIM COLOR:	
MISCELLANEOUS: N/A	SELF-FLASHING THERMA-PANE GLASS, BURNISH SLATE	BACK PANEL TYPE : GAGE: COLOR: TRIM COLOR:	
MISCELLAREOUS:IV	QTY WIDTH HEIGHT LINER TRIM LINER TRIM COLOR		
201125 001 00		CANOPIES CLEAR SOFFIT	SOFFIT
PRIMER COLOR		QTY EW SW SLOPE PROJECTION LENGTH UNDER BEAM PANEL T	
RED OXIDE: X GREY: SPECIAL:	vec 10	2 X 4:12 5'6 238'0 AE N/A	N/A
ROOF FASTENERS			
STANDING SEAM II		EAVE TRIM : TRIM COLOR: DOWNSPOUT ELBOWS ONLY: DOWNS	POUT RETURN:
A. \$14 X 1 SELF DRILL HEX HEAD B. \$14 X 1 SELF DRILL HEX HEAD W/ WASHER		. SEE EAVE	
		, see one	
STANDING SEAM III A \$14 X 1 SELF BRILL HEX HEAD	LOUVERS N/A	OVERHANGS	
B. 114 X 1 SELF DRILL HEX HEAD W/ WASHER		OTY PROJECTION LENGTH SOFFIT TYPE COLOR GAGE	
LONGSPAN	WHITE ADJUSTABLE W/ BIRD SCREEN	SW 26	
A \$12 X 1 1/4 SELF DRILL HEX HEAD W/ WASHER B. \$14 X 7/8 SELF DRILL HEX HEAD W/ WASHER	QTY WIDTH HEIGHT LINER TRIM LINER TRIM COLOR	SW 26	
		DOWNSPOUT ELBOWS ONLY: DOWNSPOUT RETURN:	
LOC SEAM A 114 X 1 SELF DRILL HEX HEAD W/ WASHER	YESNO		
B. 114 X 1 SELF DRILL HEX HEAD W/ WASHER	YES NO		
WALL FASTENERS		REW 1 6'6 119'0 N/A N/A 26	
LONGSPAN OR ARCHITECTURAL		PARTITIONS	
A 12 X 1 1/4 SELF DRILL HEX HEAD W/ CLEAR WASHER B. 1/4 X 7/8 SELF DRILL HEX HEAD W/ CLEAR WASHER		OTY WIDTH LENGTH HEIGHT PANEL TYPE GAGE COLOR	
SHADOW PANEL	LINER PANELS N/A		
A 112 X 1 SELF DRILL HEX HEAD W/ NUT BLANK B. 114 X 7/8 SELF DRILL HEX HEAD W/ CLEAR WASHER	LOC LENGTH HEIGHT PANEL TYPE GAGE COLOR LINER TRIM TRIM COLOR		
			ICE RINK
TRIM FASTENERS	YESNO		
ALL FASTENERS ARE #14 x 7/8 SELF DRILL W/ CLEAR WASHER			
FASTENER NOTE	YESNO		
A = SHEETING/FLASHING TO STRUCTURAL CONNECTIONS B = SHEETING/FLASHING TO SHEETING/FLASHING CONNECTIONS		SPECIAL NOTES	
B = SHEETING/FLASHING TO SHEETING/FLASHING CONNECTIONS	ROUND 20" THROAT WHITE VENTILATORS N/A		
INSULATION	QUANTITY RIDGE MOUNTED SLOPE MOUNTED		
NONE BY OTHERS BY ABC THICK WIDTH FACE COLOR			
ROOF X	9" X 10" RIDGE VENTILATORS N/A		
	QTY AT 10" SECTIONS UNEAR FEET CONTINUOUS		
WALLS X			
RIGID BOARD: N/A ROOF: WALLS: BEARING PLATE:	ROOF JAXS N/A	MISCELLANEOUS MATERIAL	
THERMAL BLOCK: N/A BY ABC: BY OTHERS: (3/4" THICK ONLY)	QTY TYPE	MISSELLAITEVUS MATERIAL	
SPACER STRIP : N/A (FOR LOC SEAM WITHOUT INSULATION)	DK-3 1/4" - 4" DIAMETER DK-5 4" - 7" DIAMETER		
	DK-8 7 - 13 DIAMETER		
	DATE ENGR DATE NO. REVISIONS MADE CK'D DATE ENGR DATE	DRAWING SUBMITTAL SCALE: NONE DATE	ROCKY MOUNT NORTH CAROLINA
REVISIONS MADE CK'D	DATE ENDS DATE NO. SECTIONS	STATUS SIMSBURY FARMS	
		[X] FOR CONSTRUCTION DRAWN BY: JA 07/16/99 OLD FARMS ROAD [] FOR APPROVAL CHECKED BY: JPH 07/19/99 SIMSBURY , CT	300
		[] FOR PERMIT ONLY CHECKED BY: JPH 07/19/99 SIMSBURT, CI	CONST DRAWING REV.NO.
			DRAWING. NUMBER: 71793701 ABC-2 0
		CAD BY: JA 07/16/99 13:09:41 Ver. 13.0	

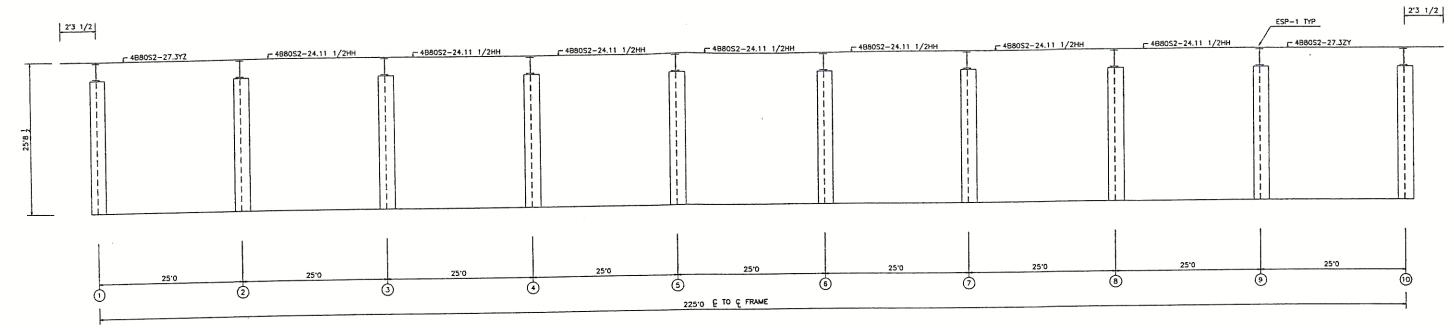




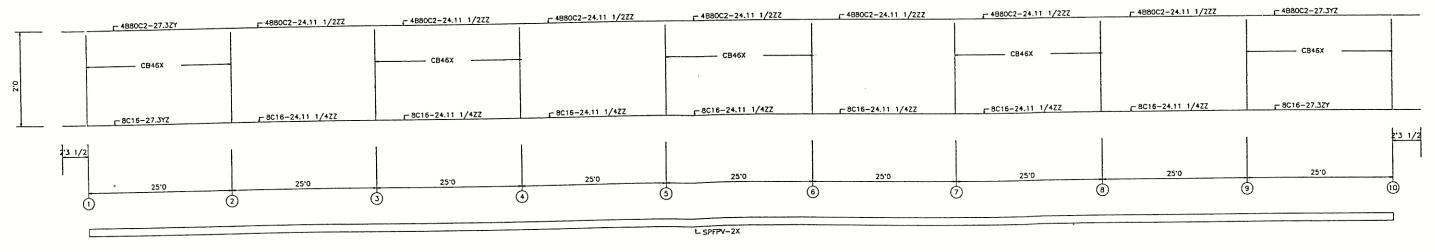








SIDEWALL FRAMING PLAN @ COLUMN LINE A



STRUCTURAL SUPPORT FOR THE WALL SYSTEM FURNISHED BY OTHERS IS NOT PROVIDED BY AMERICAN BUILDINGS COMPANY.

THE WALL SYSTEM AS FURNISHED BY OTHERS IS TO BE DESIGNED TO RESIST 12.9 KIPS OF WIND FORCE APPLIED TO THE TOP OF AND IN THE LONGITUDINAL DIRECTION OF THE WALL SYSTEM.

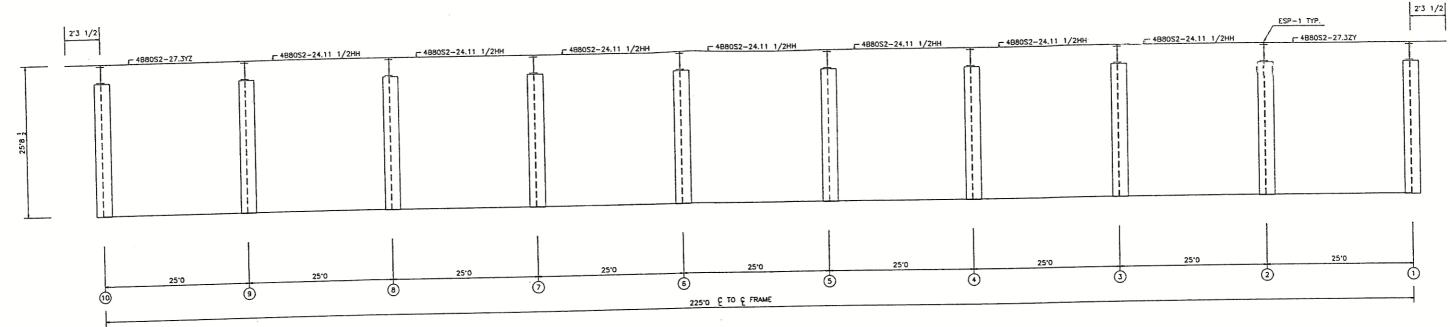
THE ROOF SYSTEM, BY AMERICAN BUILDINGS COMPANY, IS NOT DESIGNED AS A TRANSFER MECHANISM FOR ANY LOADS DEVELOPED IN THE WALL SYSTEM FURNISHED BY OTHERS.

CANOPY FRAMING

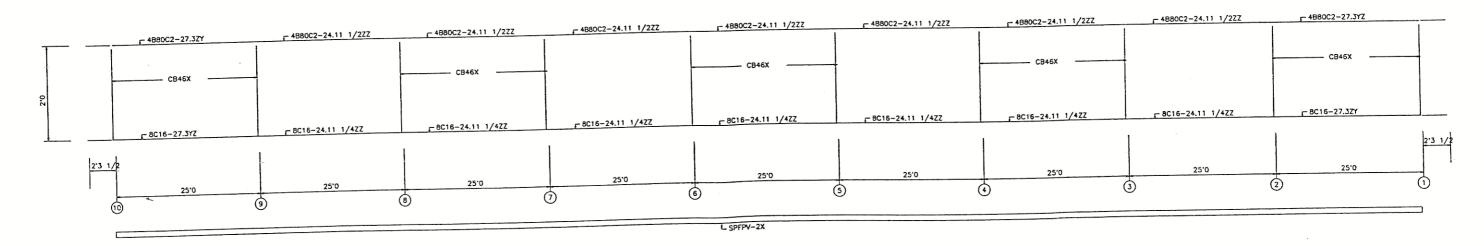
NOTE: SHEETING NOT BY A.B.C

ICE RINK

NO. REVISIONS MADE CK'D DATE ENGR DATE NO. REVISIONS MADE CK'D DATE ENGR DATE DRA	RAWING SUBMITTAL SCALE: NONE DATE SIMSBURY FARMS	NORTH CAROLINA
1 ISSUED FOR CONST BCE CD 08/13/99 WWY 3/17/1/5 [X] FI		IGS COMPANY
	FOR PRELIMINARY DESIGN APPD BY:	E-05 REV.NO.



SIDEWALL FRAMING PLAN @ COLUMN LINE E



STRUCTURAL SUPPORT FOR THE WALL SYSTEM FURNISHED BY OTHERS IS NOT PROVIDED BY AMERICAN BUILDINGS COMPANY.

THE WALL SYSTEM AS FURNISHED BY OTHERS IS TO BE DESIGNED TO RESIST 12.9 KIPS OF WIND FORCE APPLIED TO THE TOP OF AND IN THE LONGITUDINAL DIRECTION OF THE WALL SYSTEM.

THE ROOF SYSTEM, BY AMERICAN BUILDINGS COMPANY, IS NOT DESIGNED AS A TRANSFER MECHANISM FOR ANY LOADS DEVELOPED IN THE WALL SYSTEM FURNISHED BY OTHERS.

CANOPY FRAMING

NOTE: SHEETING NOT BY A.B.C

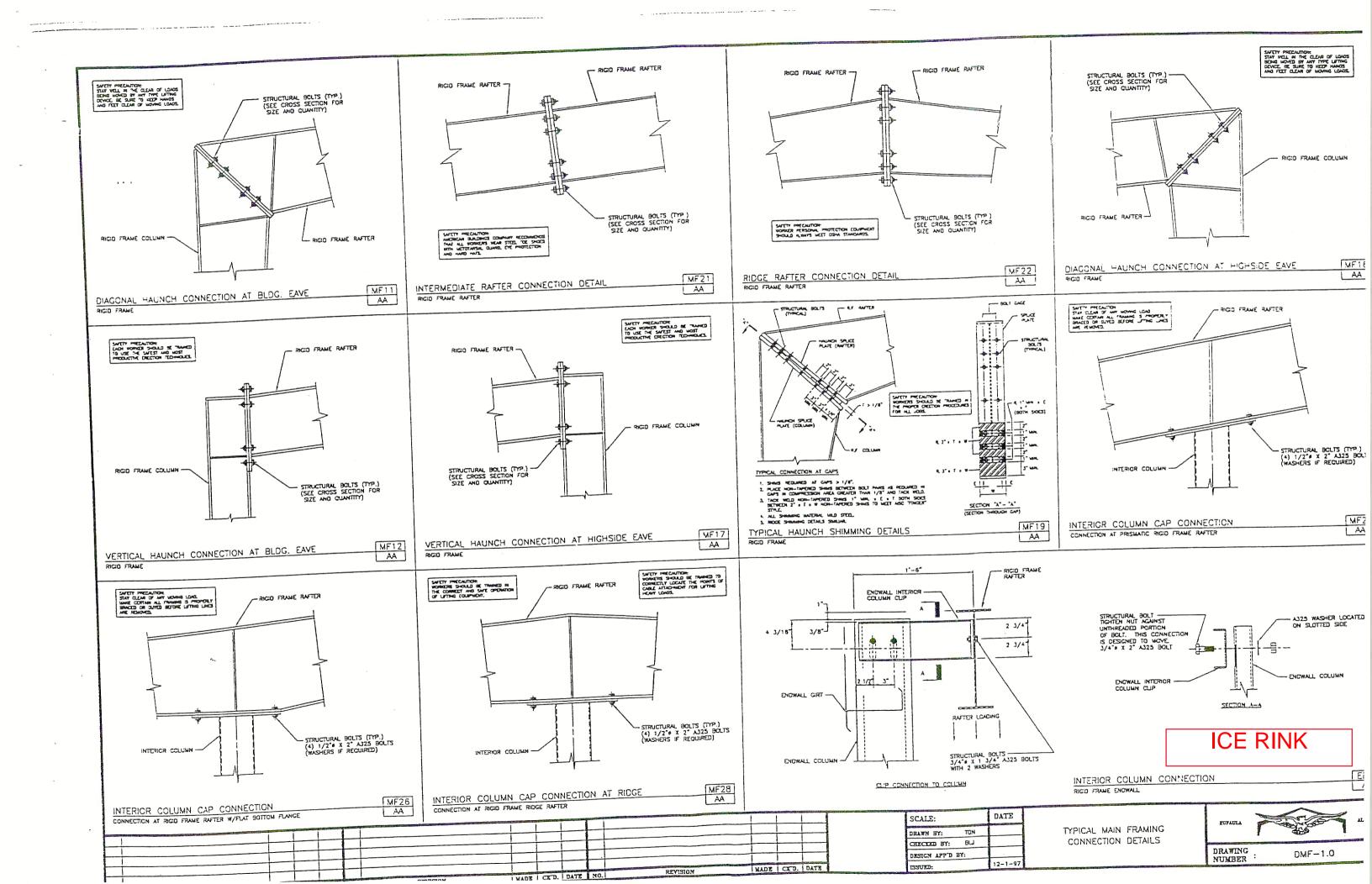
ICE RINK

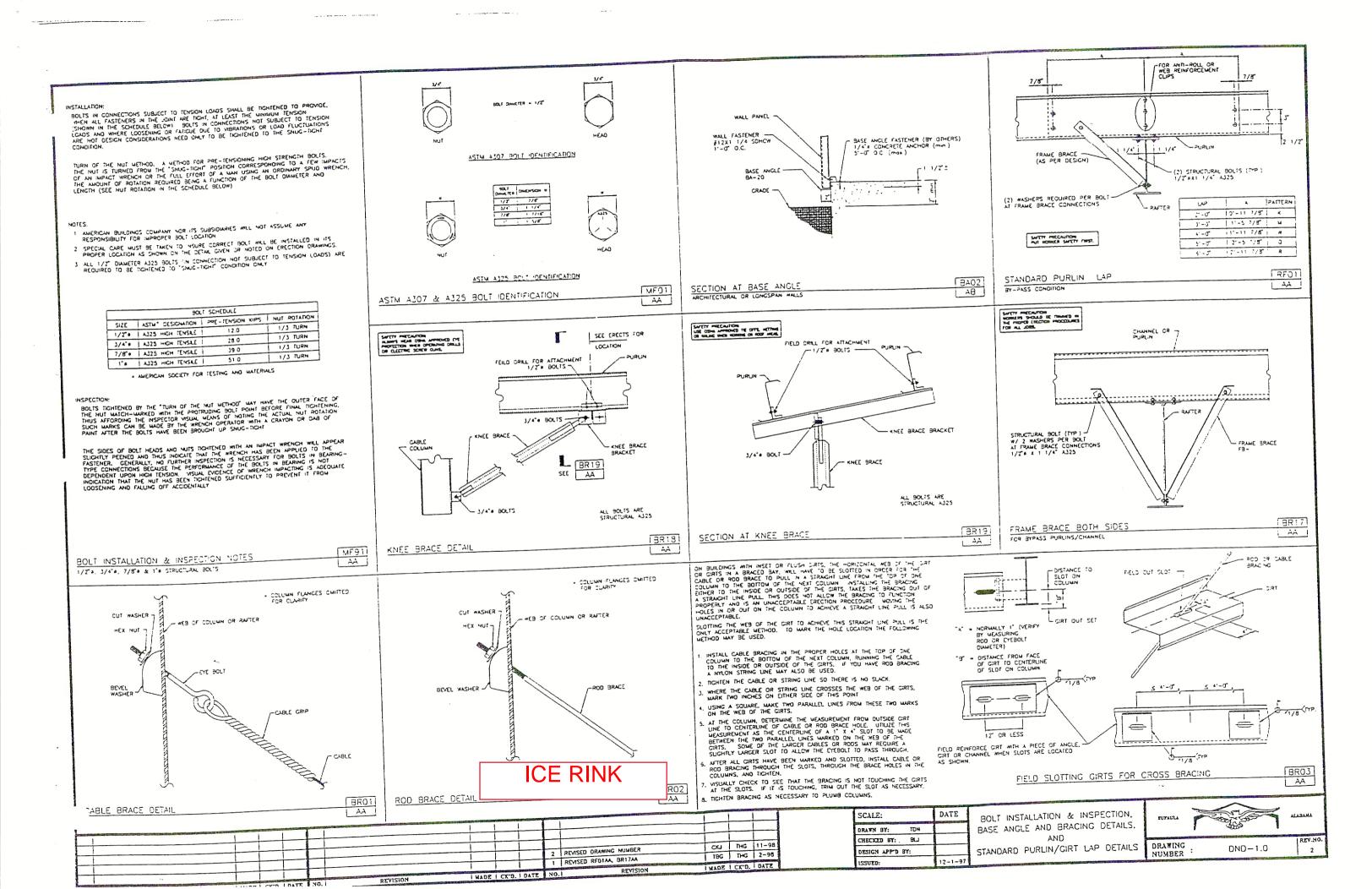
TCB1L CE-1L

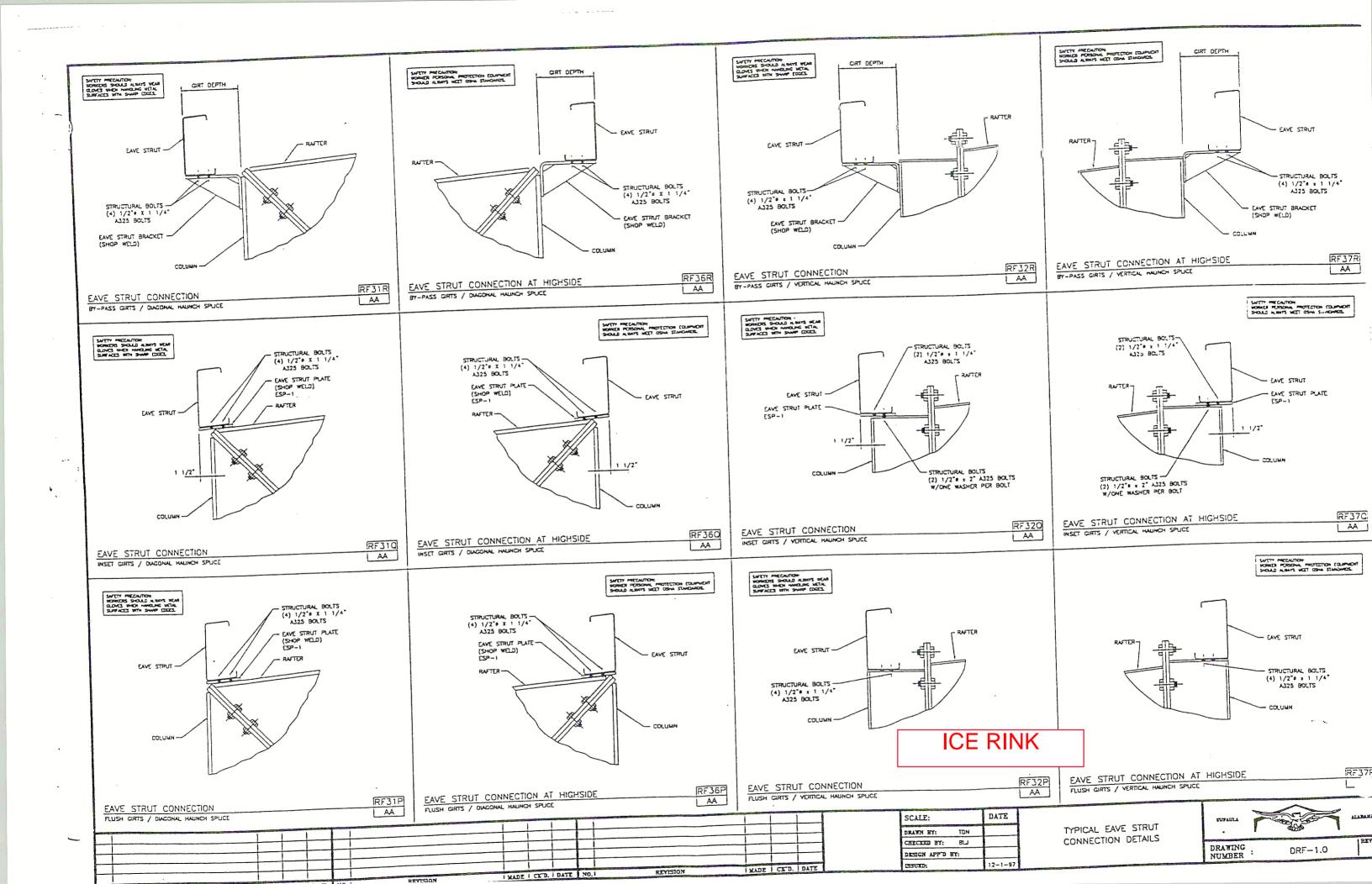
LUDGICKED DATE ENGR DATE NO. REVISIONS	MADE CK.D	DATE	ENGR	DATE	ORAWING SUBMITTAL STATUS	SCALE:	NONE	DATE	SIM
NO. REVISIONS BCE CD 08/13/99 000 11/19					[X] FOR CONSTRUCTION [] FOR APPROVAL	DRAWN BY:		07/16/99	
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					CAD BY: JA	07/16/99	9 15:51:38	Ver. 13.0	

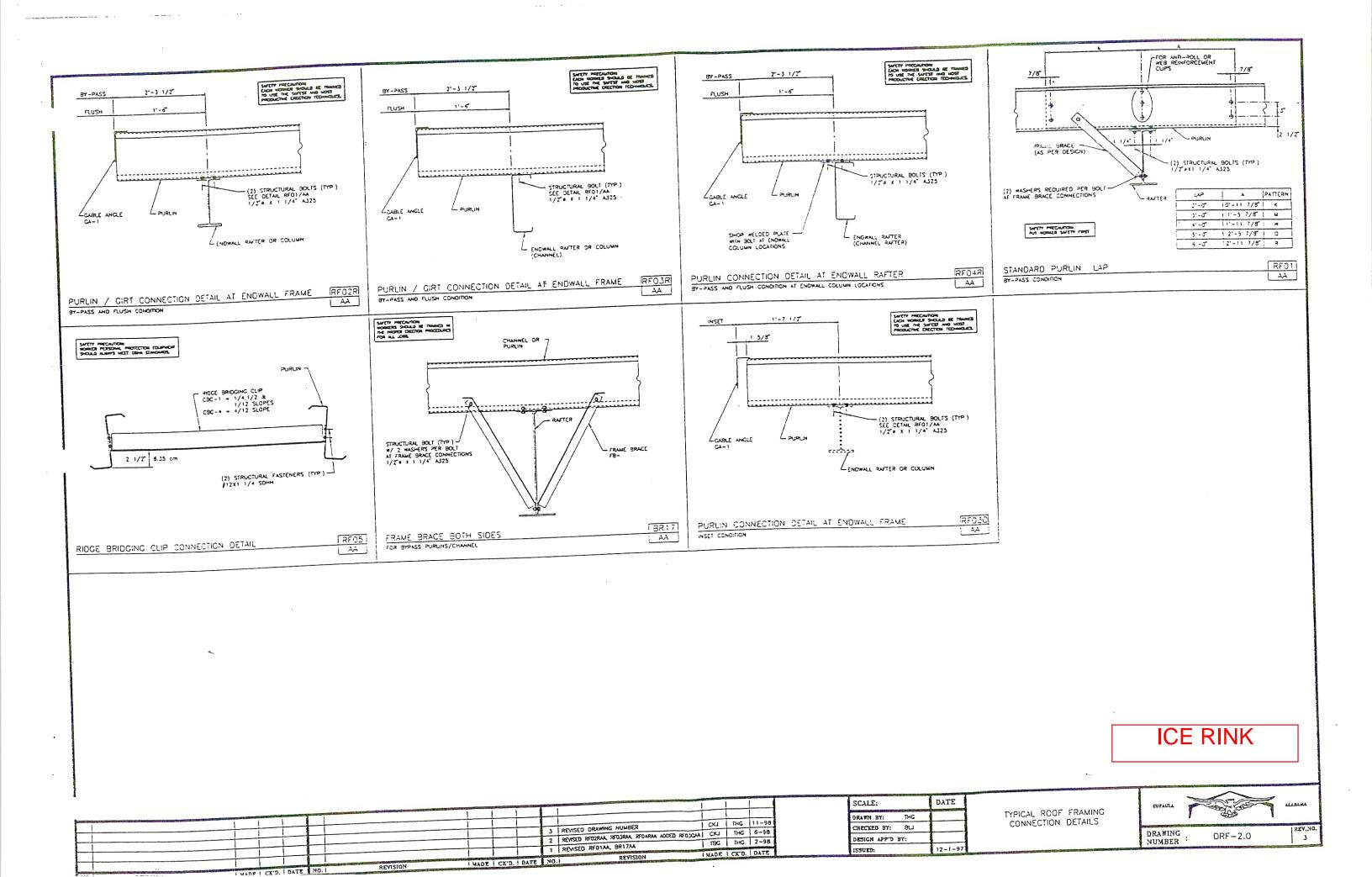
SIMSBURY FARMS OLD FARMS ROAD SIMSBURY, CT PDS ENGINEERING & CONST AMERICAN BUILDINGS COMPANY

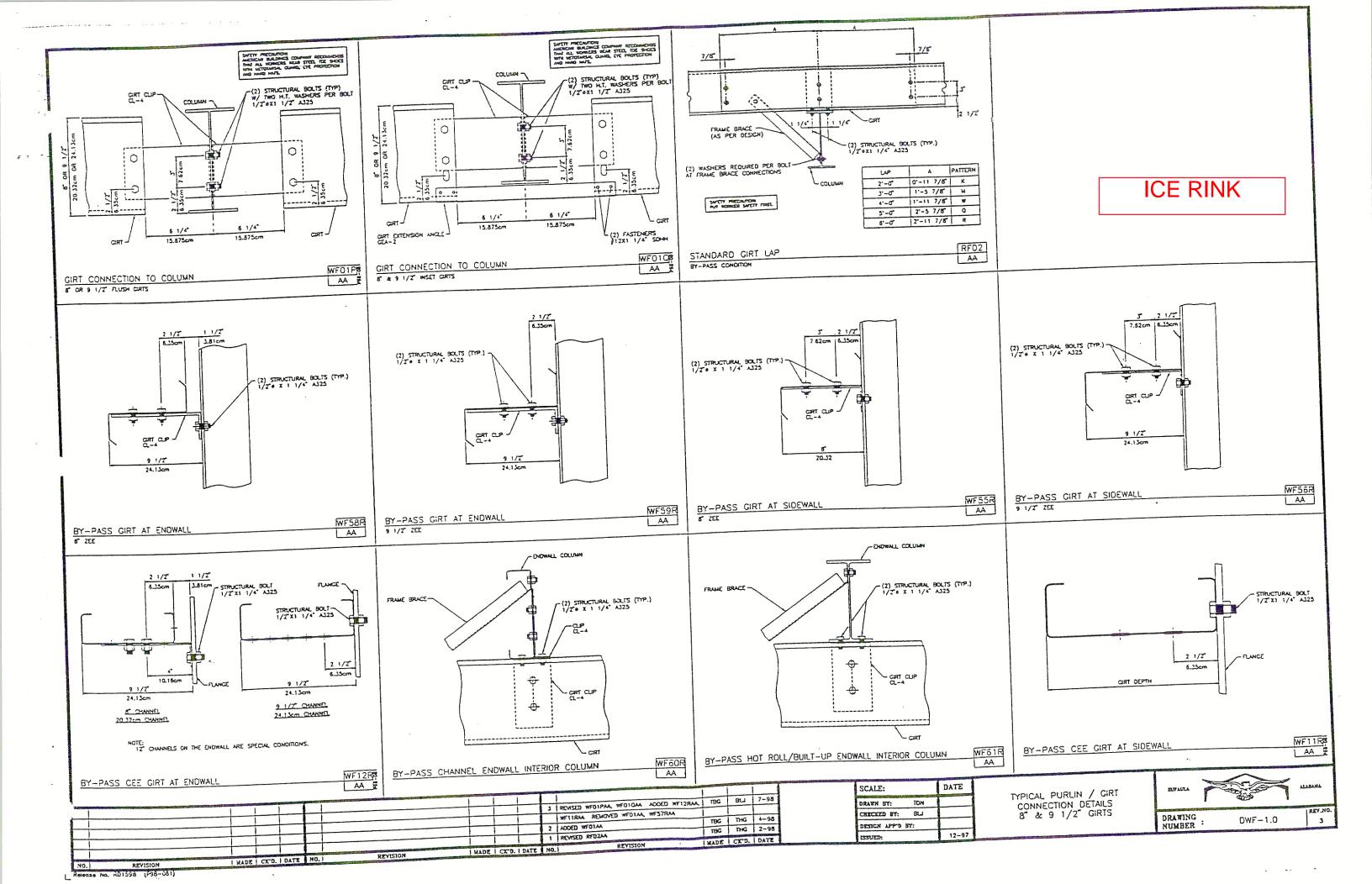
DRAWING, 71793701 E-06 1

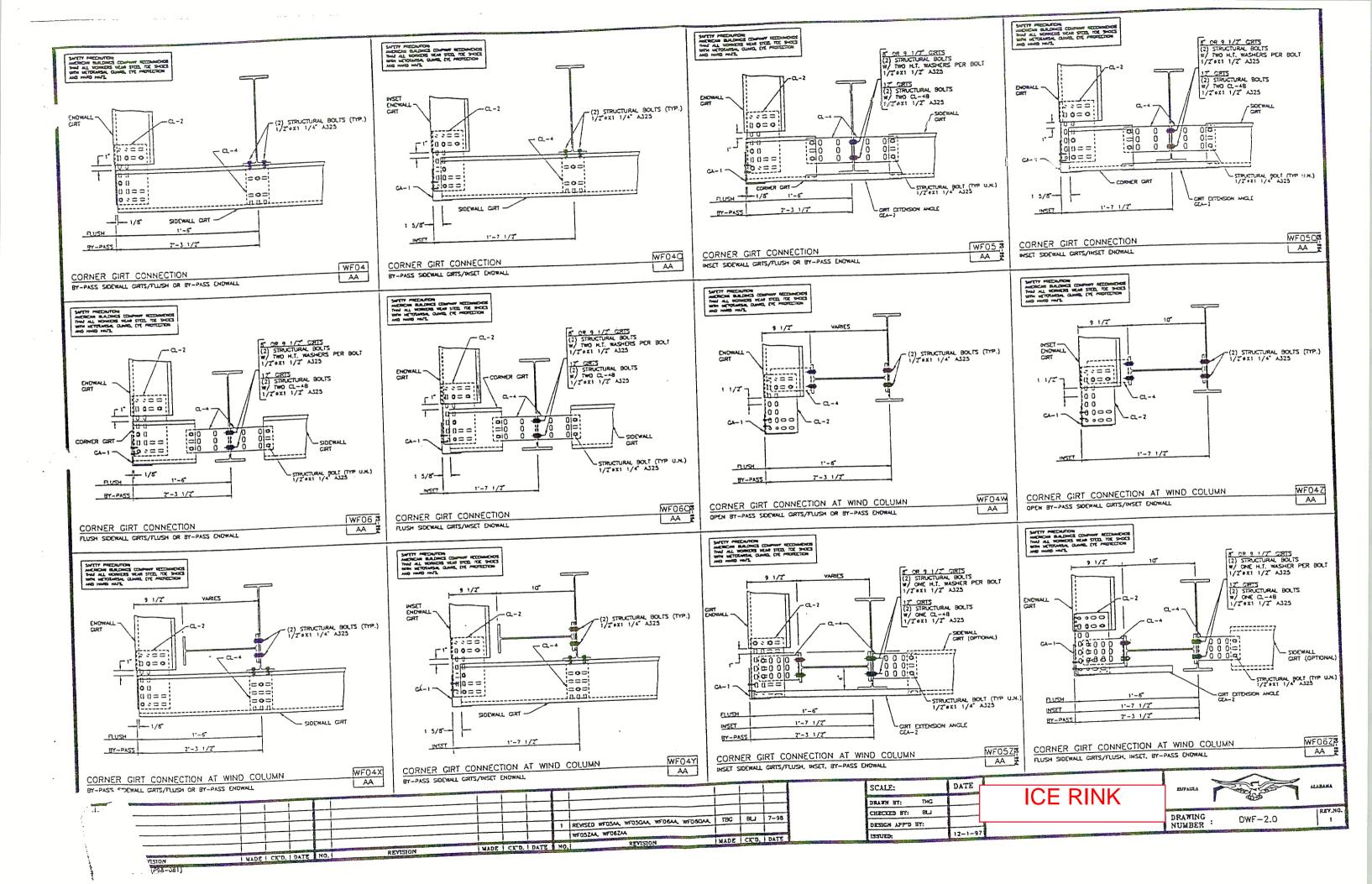


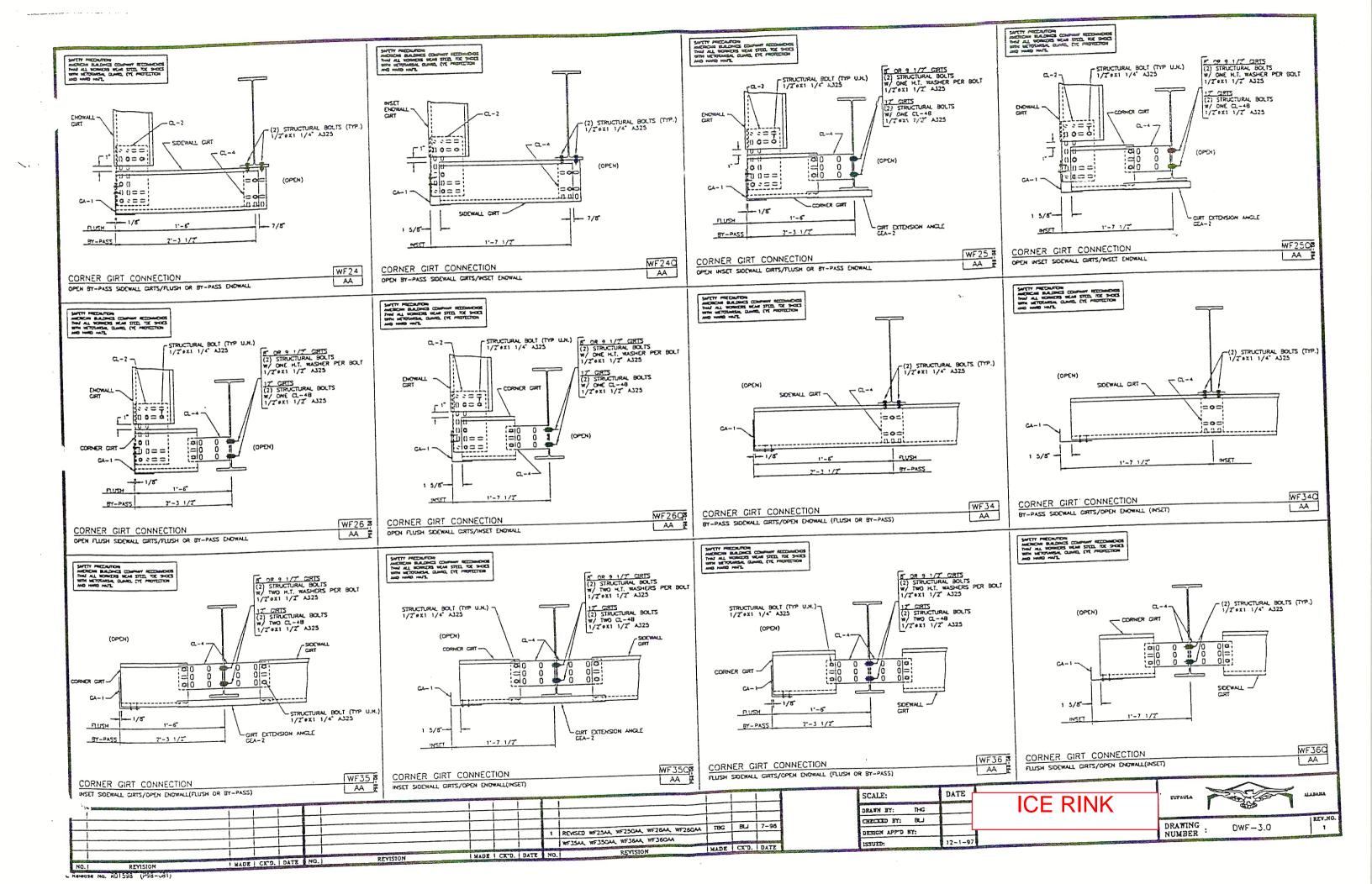


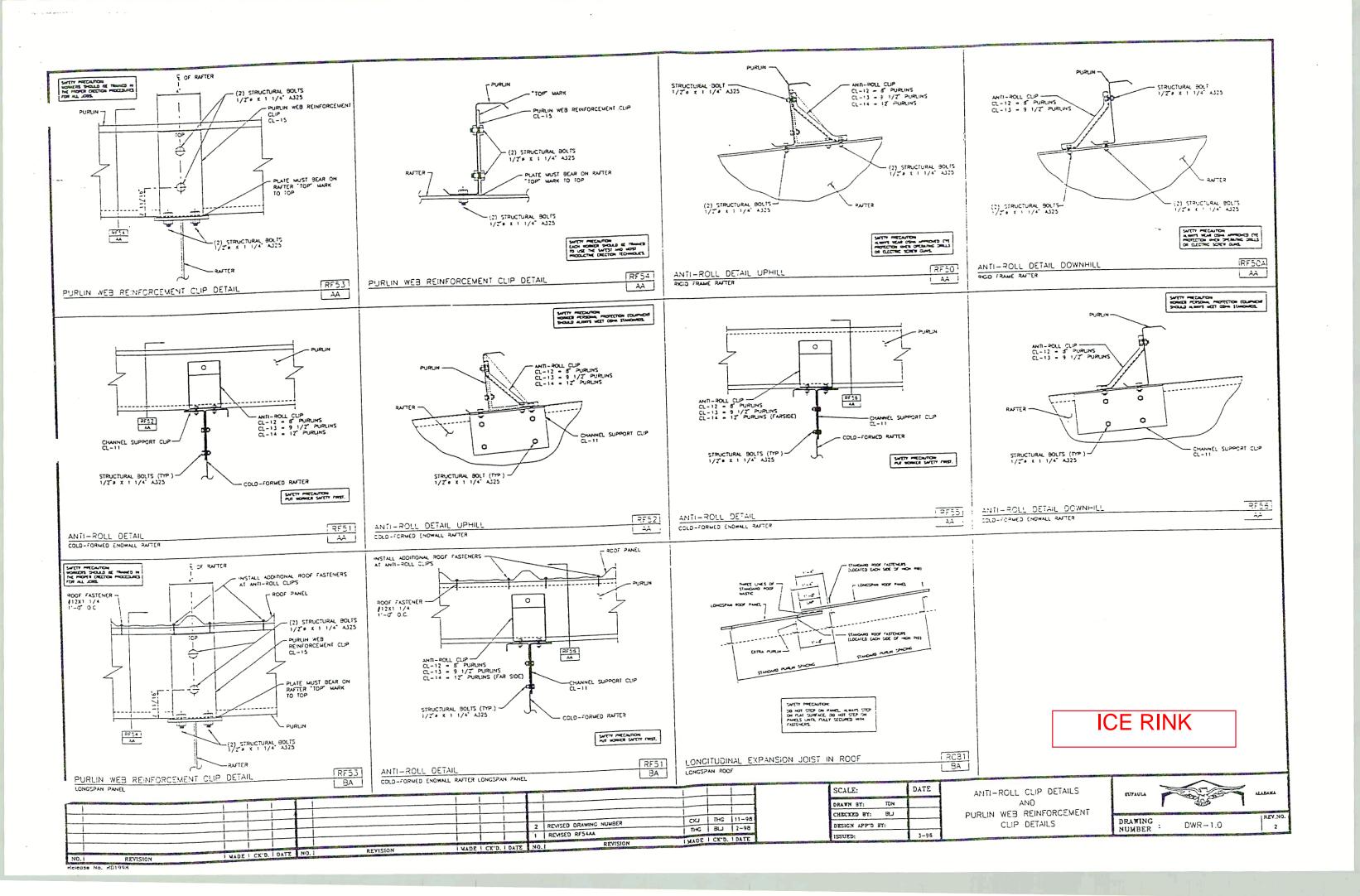


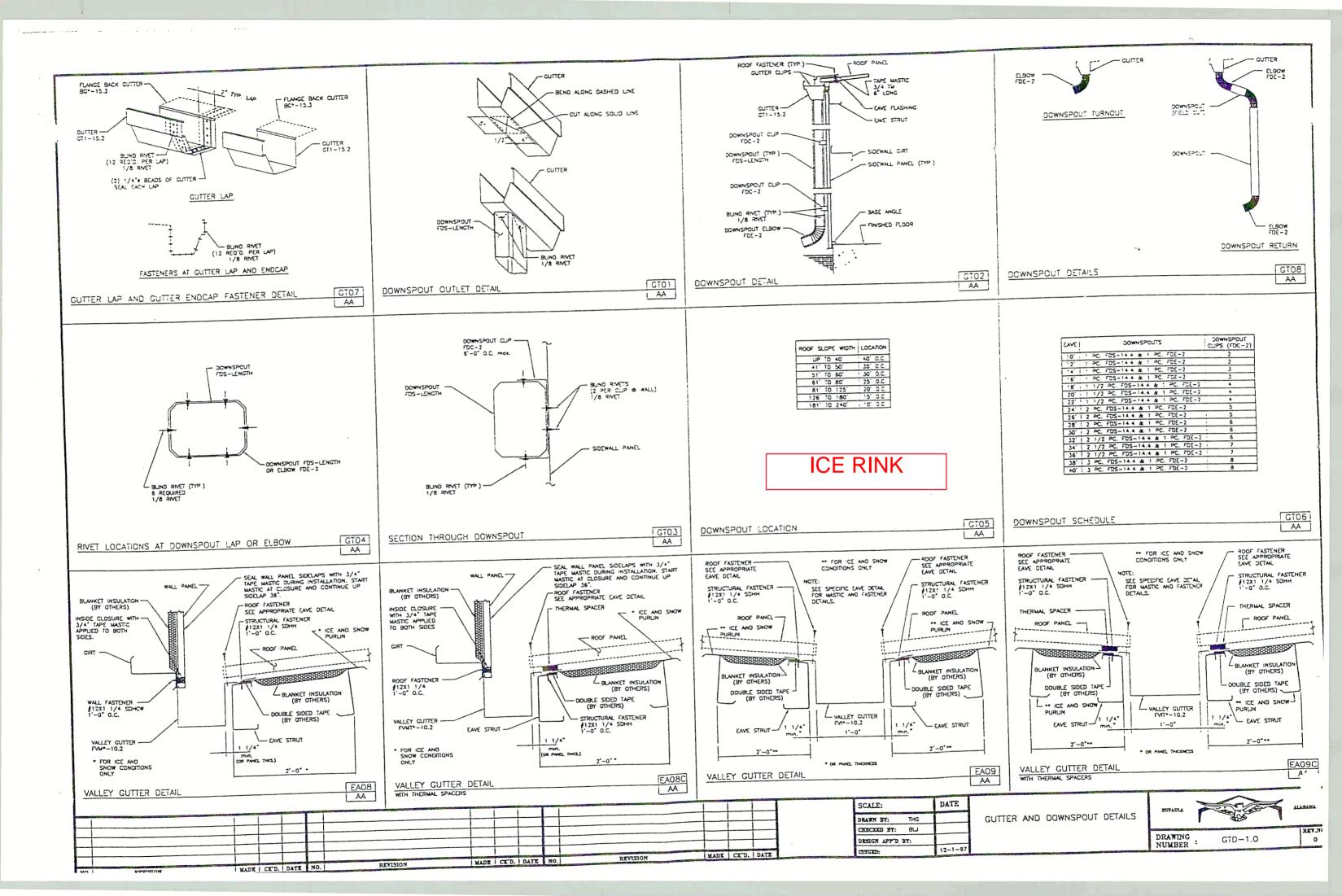


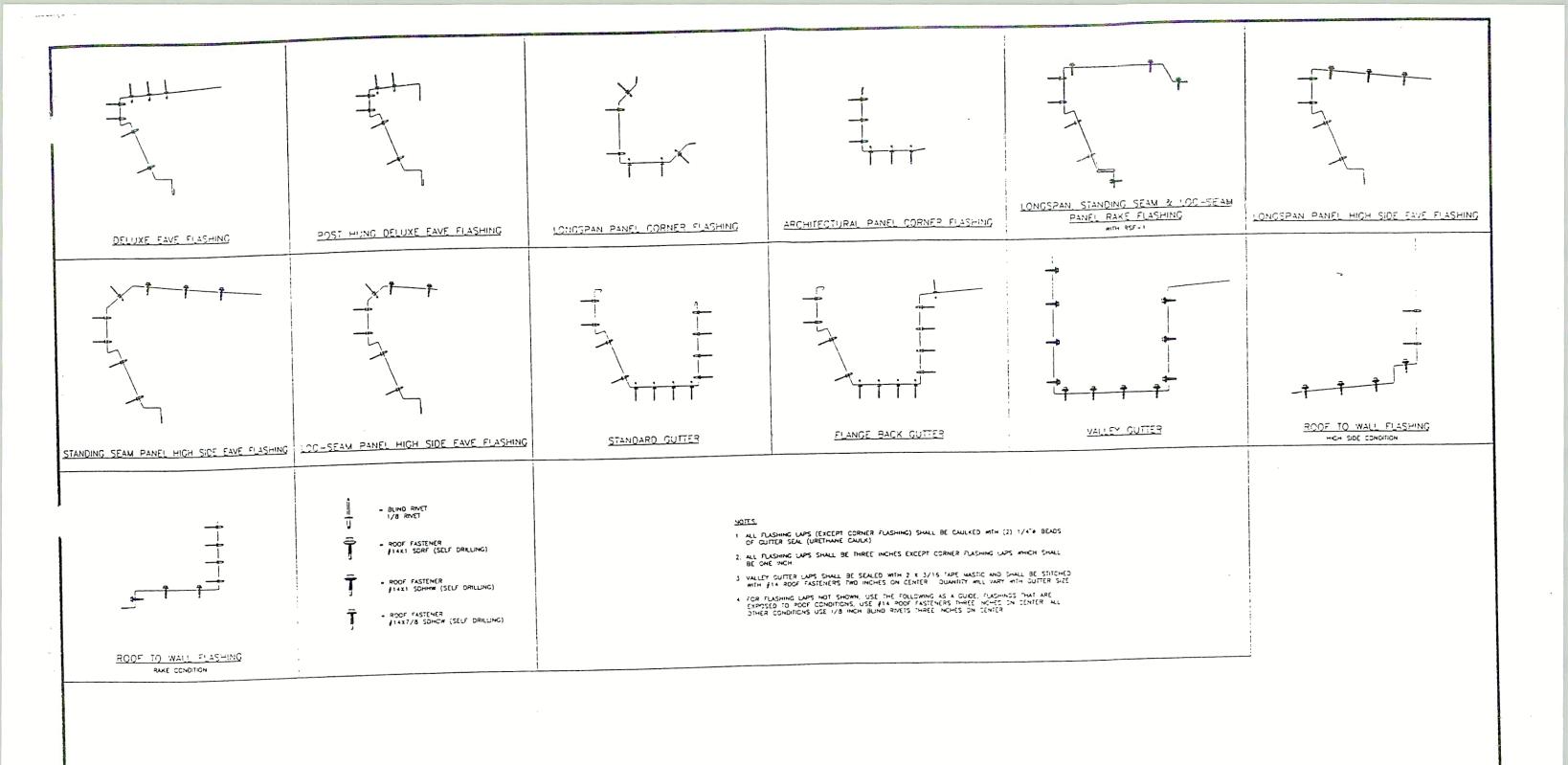








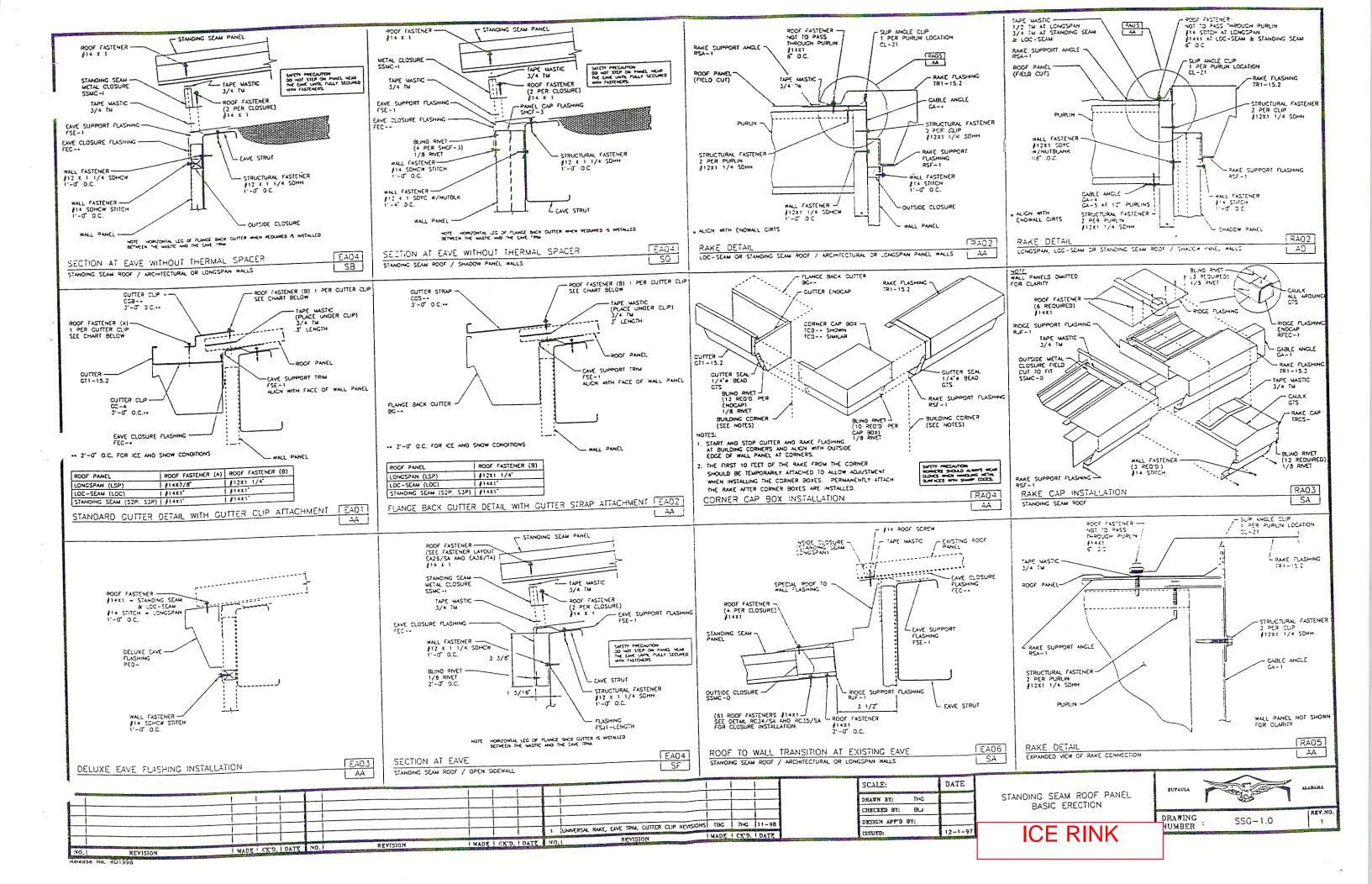


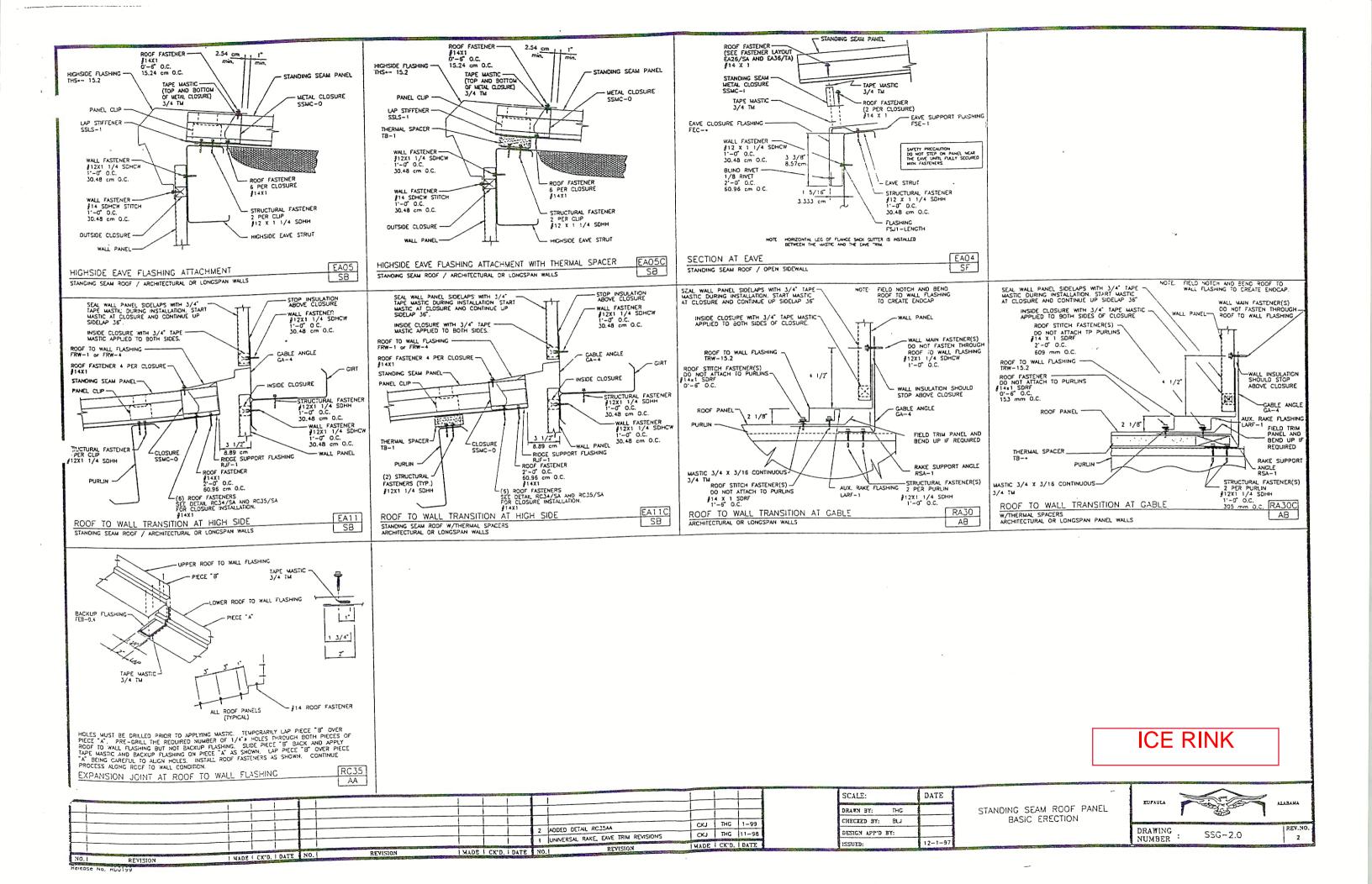


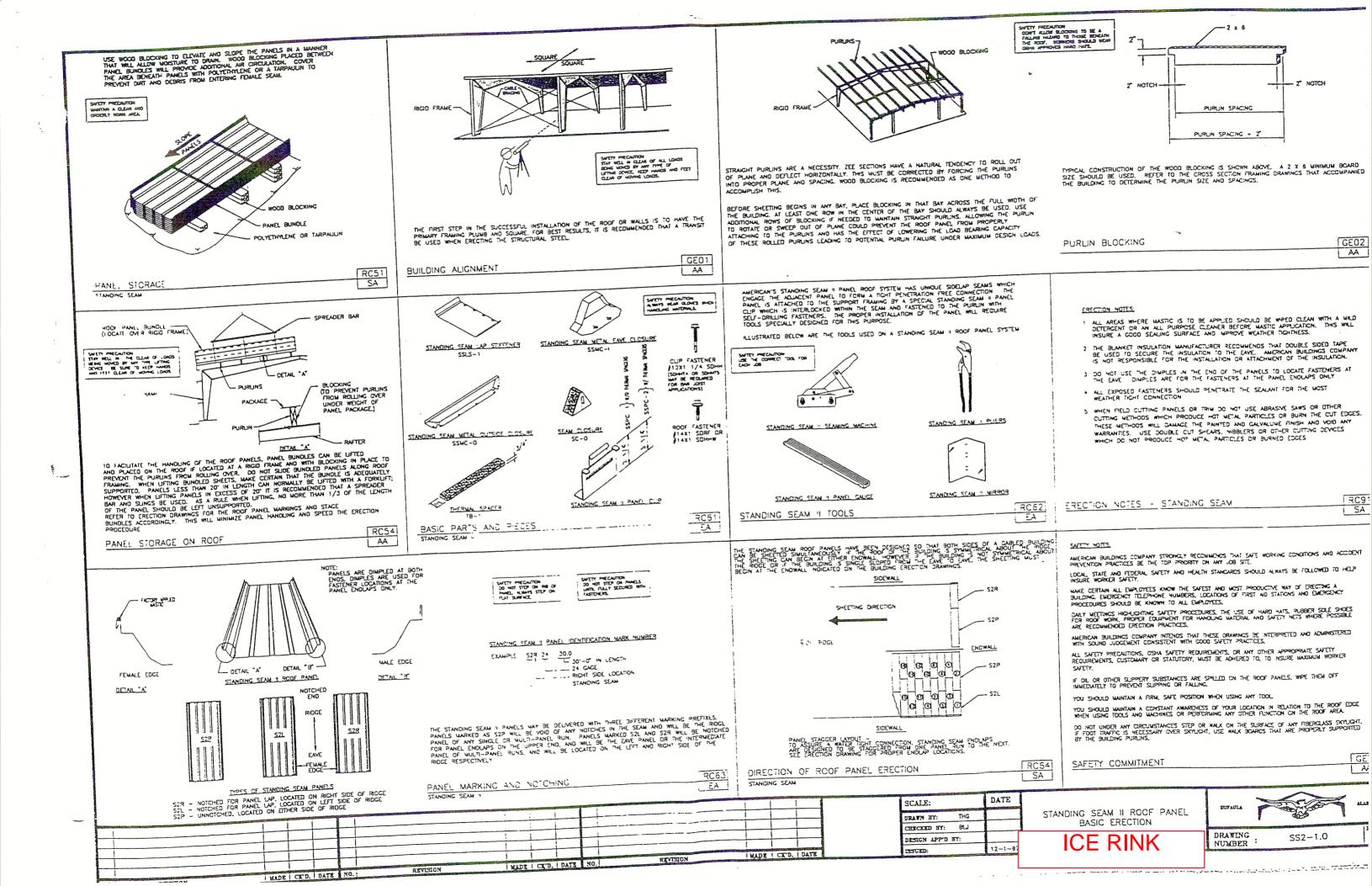
ICE RINK

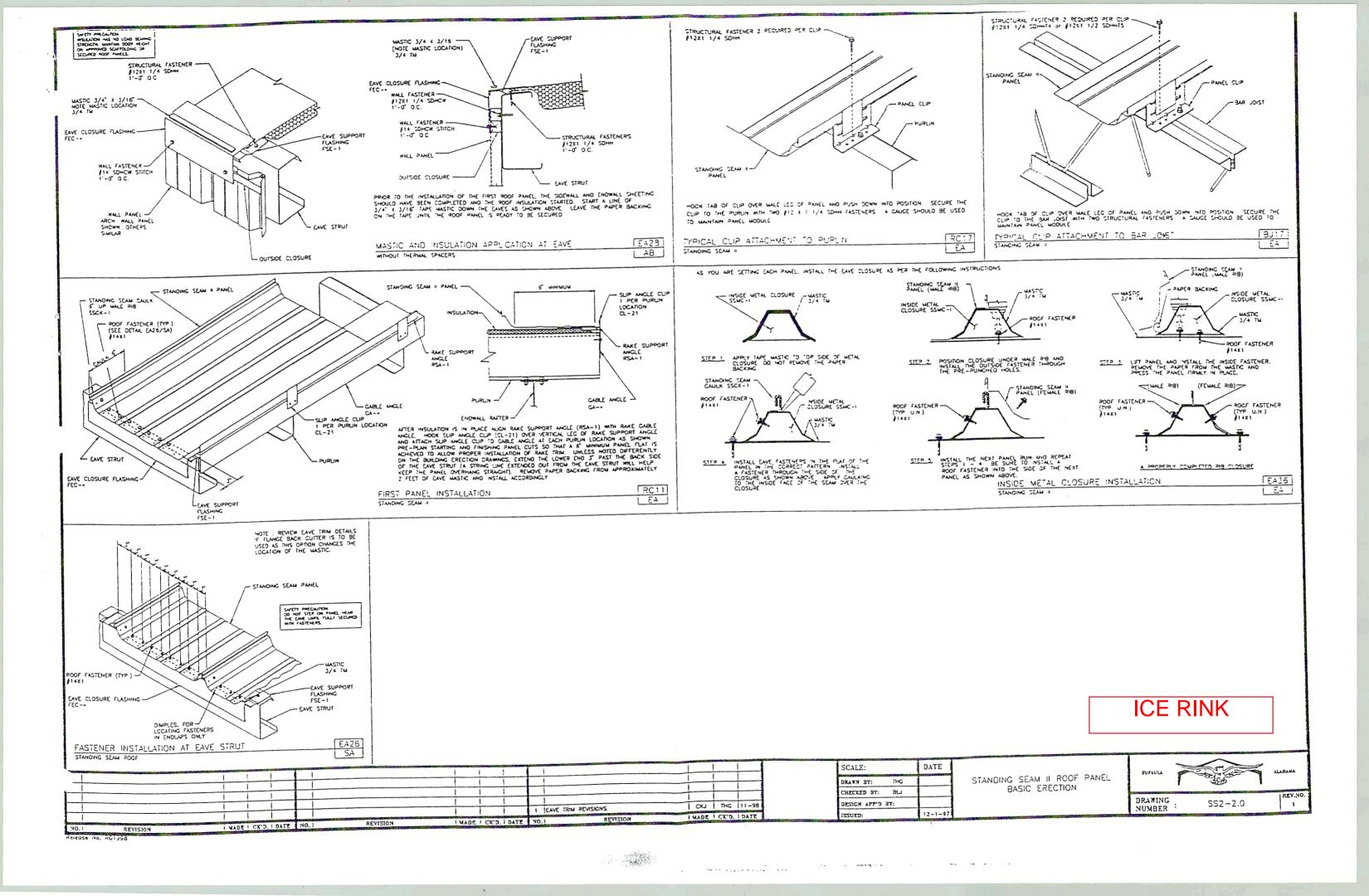
j		SCALE:	DATE		RUFAULA
		DRAWN BY: THG		STANDARD FLASHING LAPS	355
<u>, — </u>		CHECKED BY: JKC			DRAWING SEL 10 REV.NO.
	1 UNIVERSIL RIKE, EAVE TRIM REVISIONS 180	DESIGN APP'D BY:	17 1-07		NUMBER: SFL-1.0
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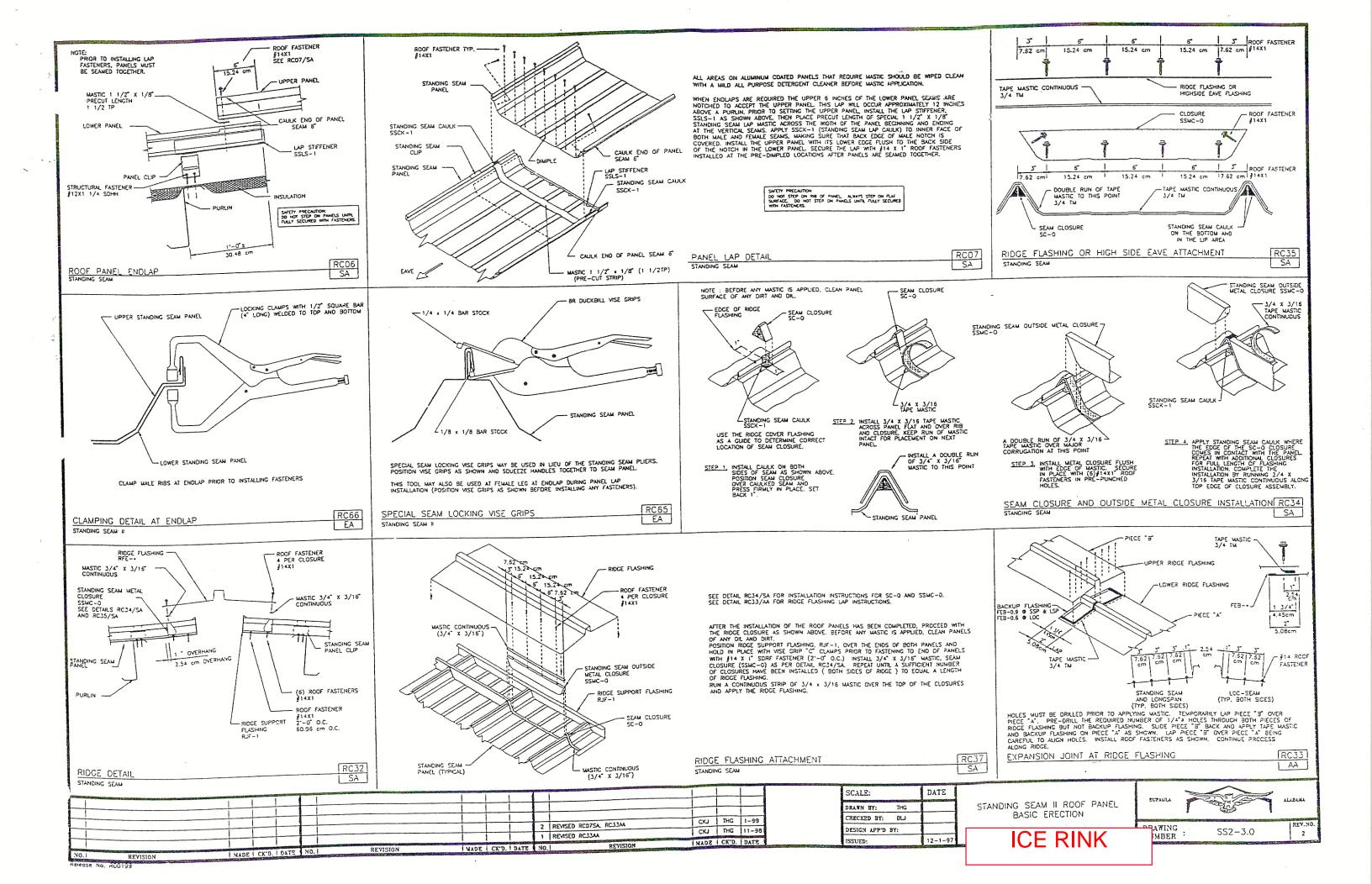
NO.1 REVISION

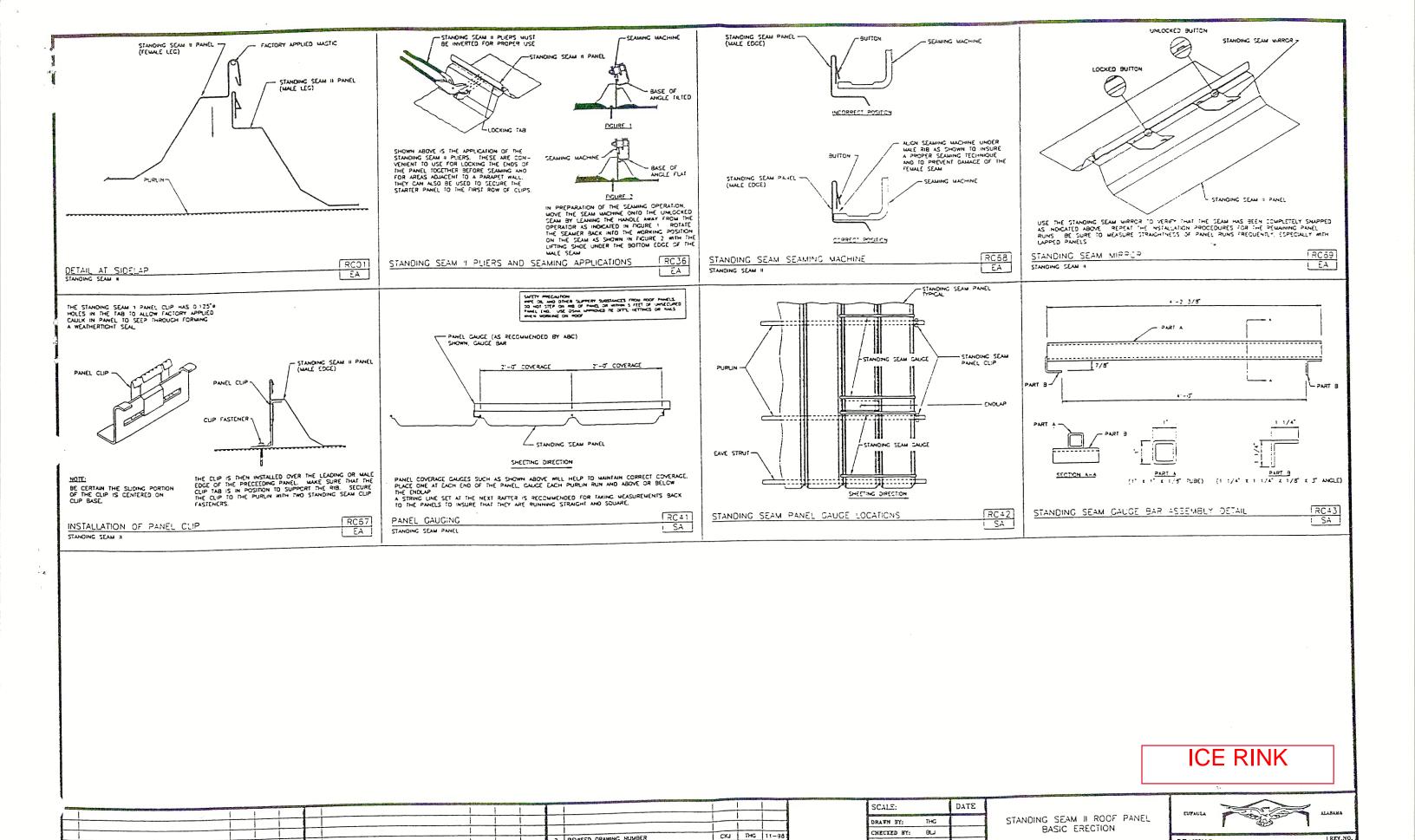












CKJ THG | 2-98

I MADE I CKD. I DATE

DESIGN APP'D BY:

ISSUPD-

2 REVISED DRAWING NUMBER

REVISION

1 REVISED RC67/EA

I WADE I CX'D. I DATE | NO. I

REVISION

I WADE I CX'D. | DATE NO. 1

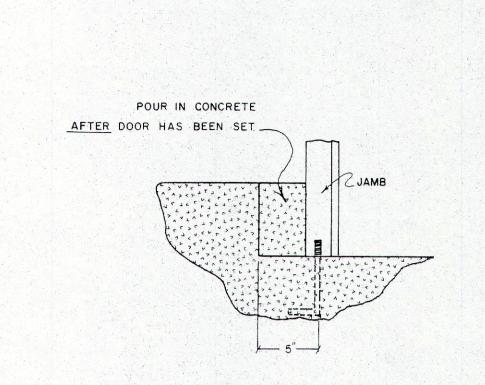
REVISION

REV.NO.

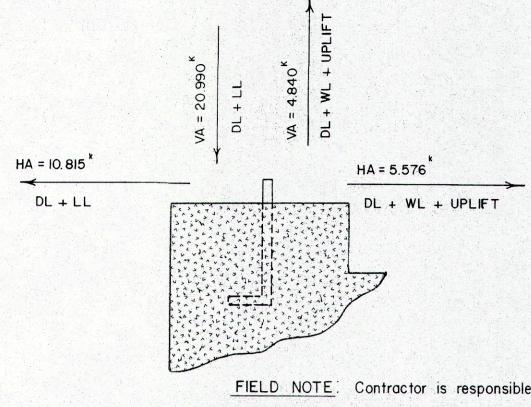
DRAWING

NUMBER

SS2-4.0



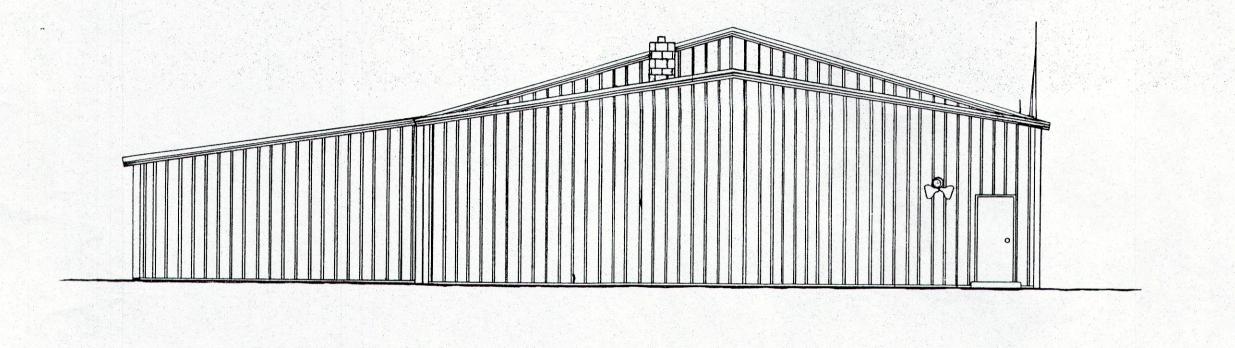
TYPICAL SECTION SCALE: 3/4 "= 1'-0" ALL O.H. DOORS & WALK DOORS IN SIDEWALL



FIELD NOTE. Contractor is responsible for foundation design

SECTION SCALE: 3/4"=1'-0" ANCHOR BOLT SETTING PLAN

2 SECTION SCALE: 3/4" = 1'-0"



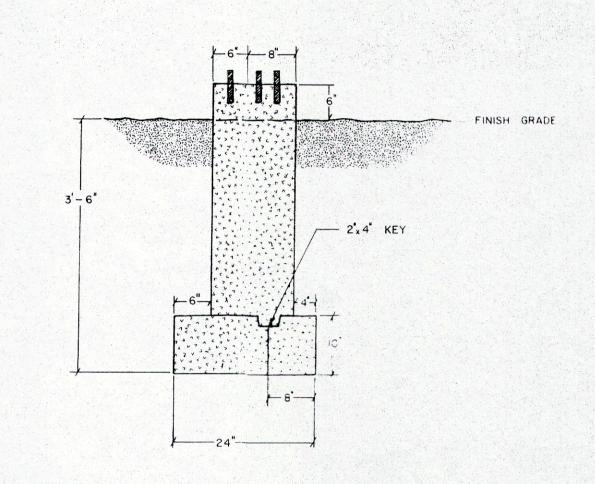
LEFT ELEVATION

PROPOSED ADDITION

SCALE: 1/8" = 1-0"

The state of the s

CROSS SECTION SCALE: 1/8"=1'-0"



FOUNDATION SIDE ELEVATION SCALE: 3/4" = 1'-0"

FRONT ELEVATION SCALE: 1/0"

- ELEVATIONS -

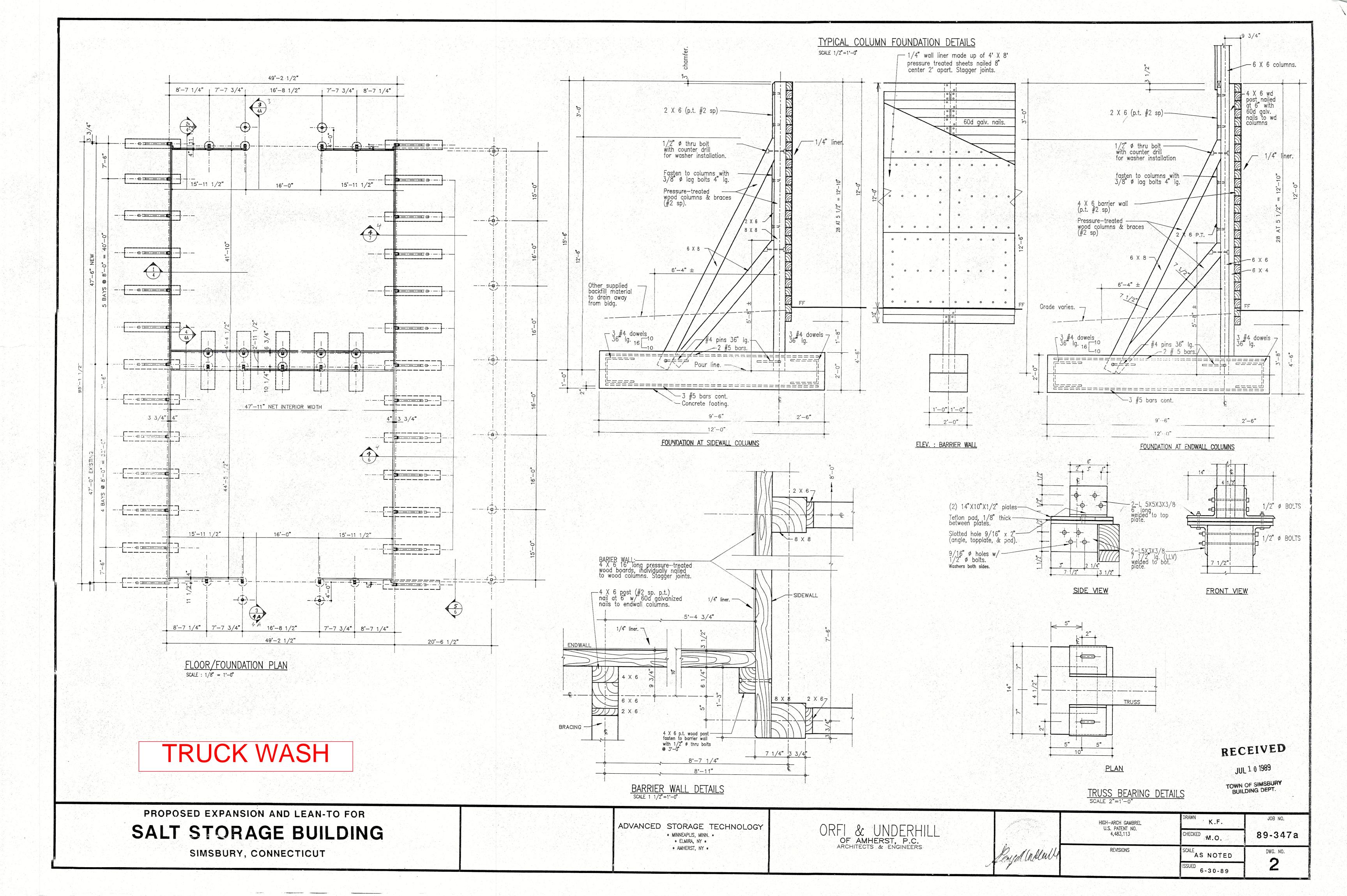
MAINTENANCE GARAGE

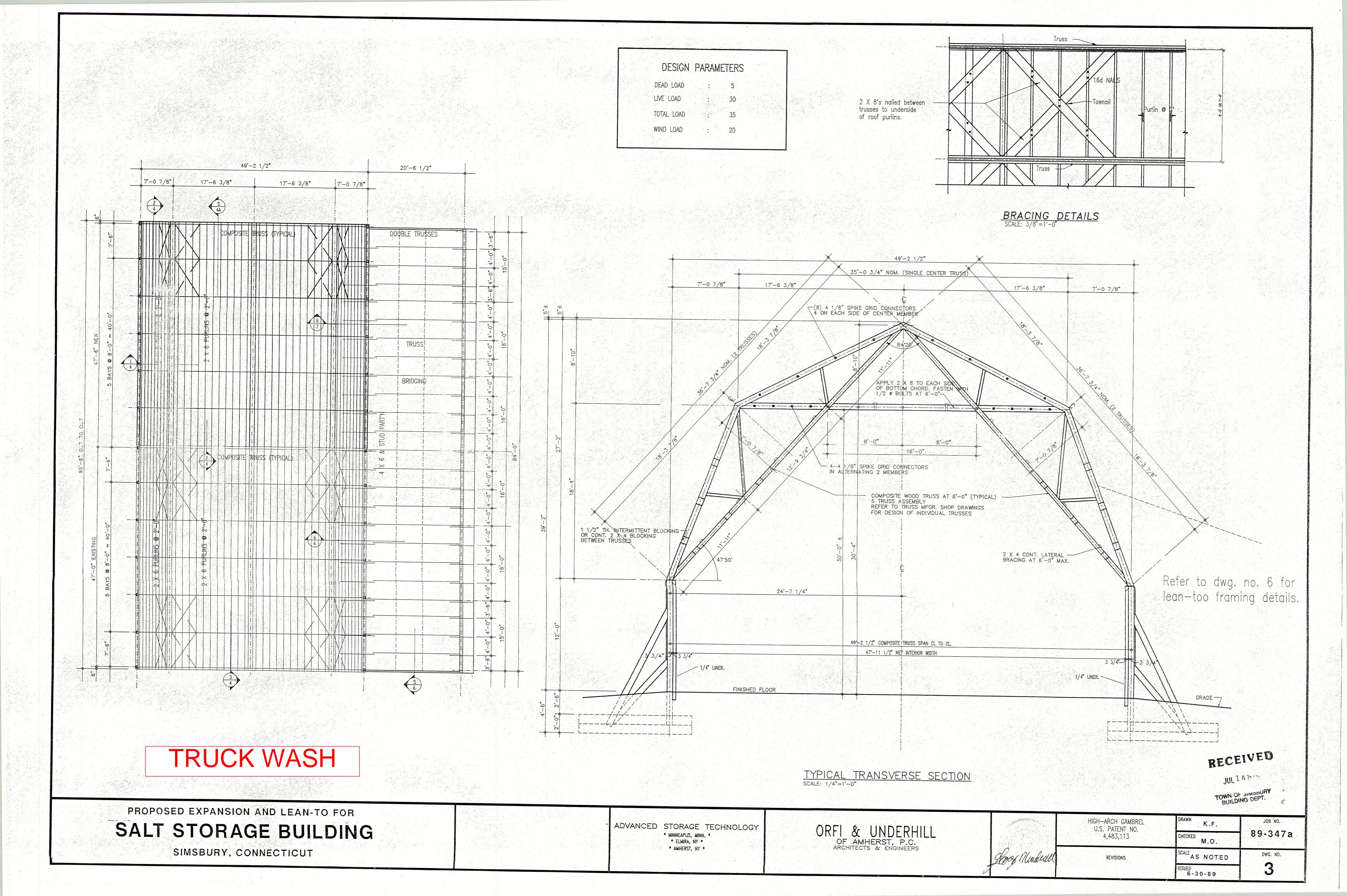
TOWN OF SIMSBURY ENGINEERING DEPARTMENT

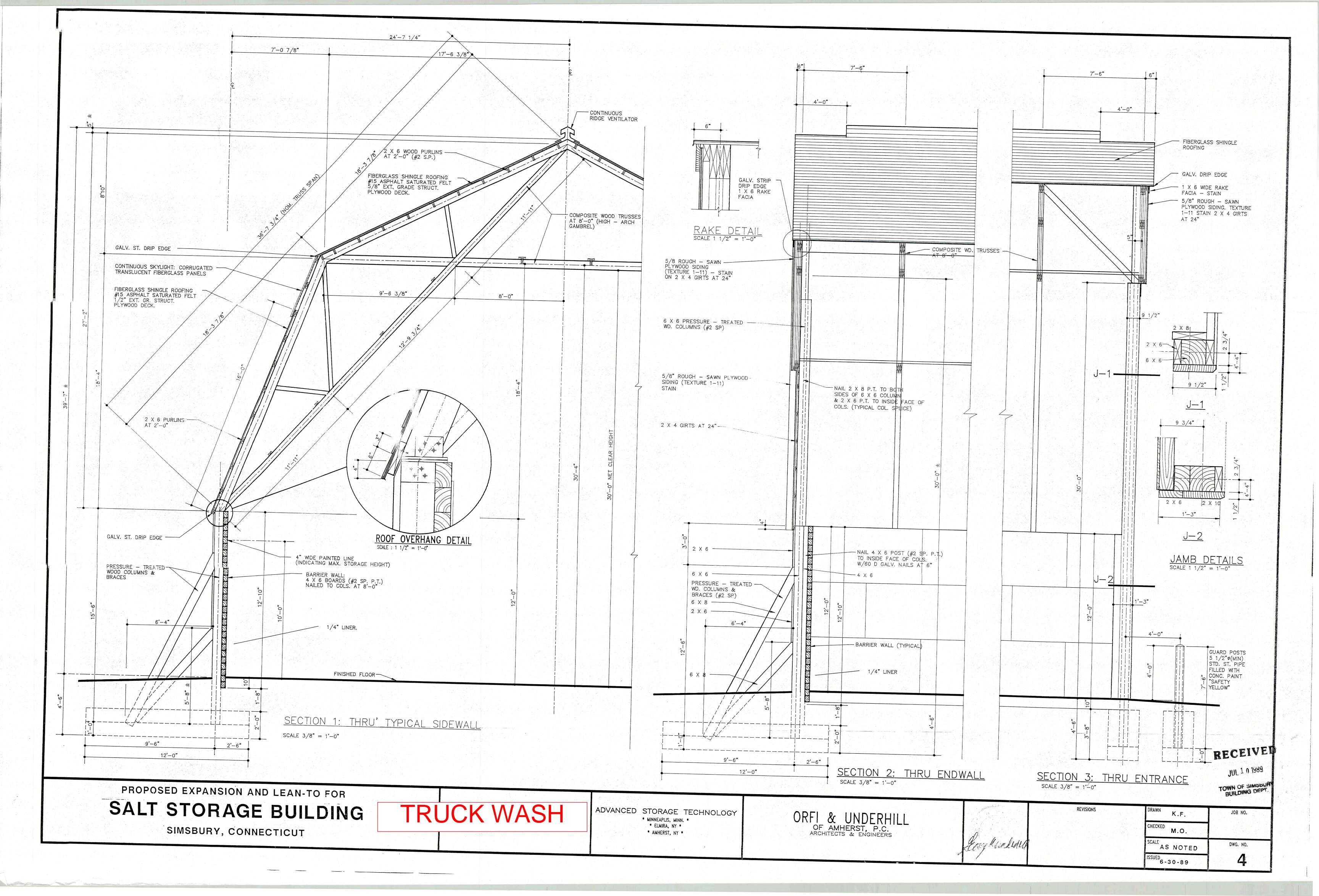
ELEVATIONS

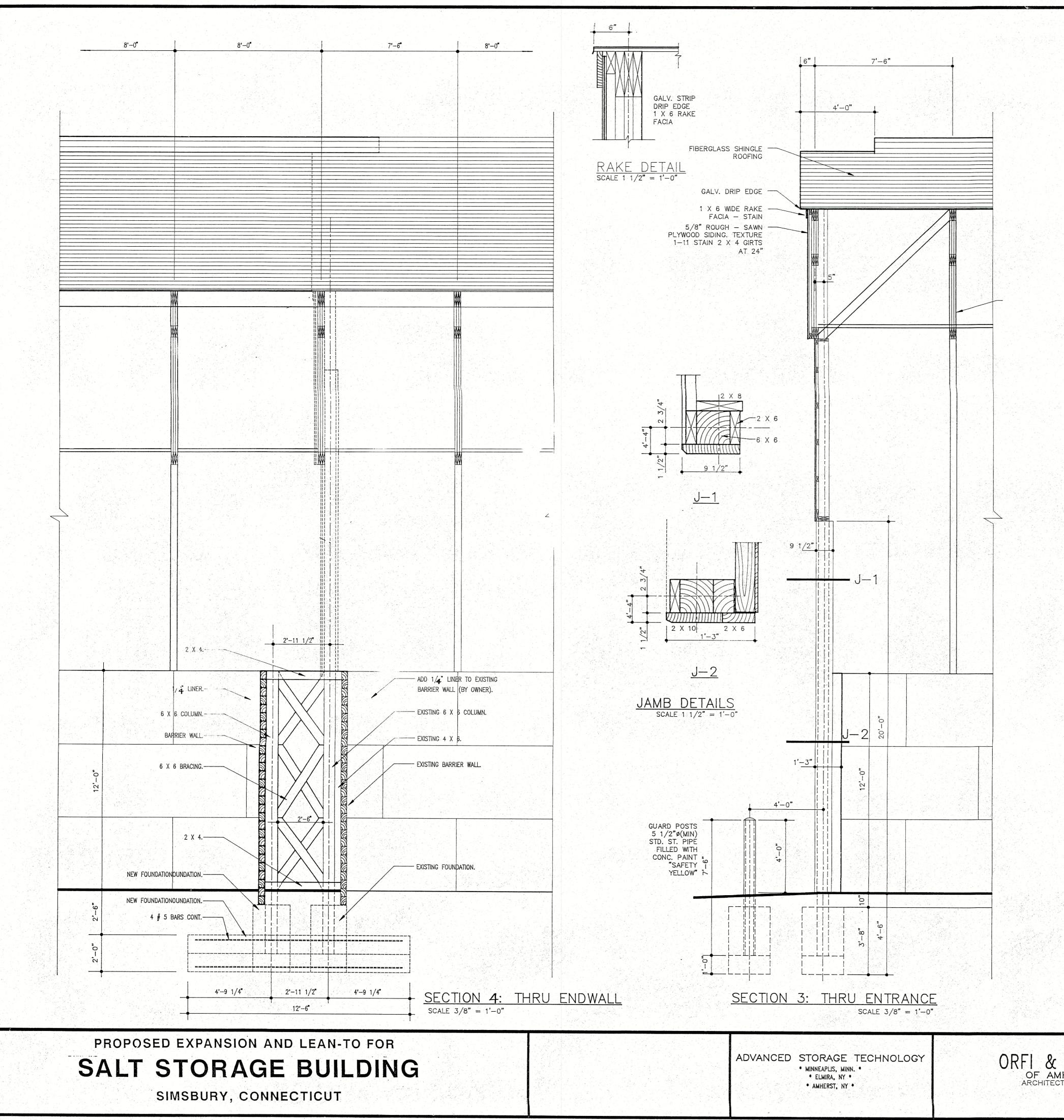
DATE: AUGUST, 1983 JOB NUMBER: DPW 2A/83-84 SCALE: " " "=1'-0" DATE REVISIONS A-3 DRW. BY-J. RICHARDSON CHK, BY APP BY EV. ROSSI PE. SH. 4 OF 5

SHEET 3









TRUCK WASH

RECEIVED

JUL 1 0 1989 TOWN OF SIMSBURY BUILDING DEPT.

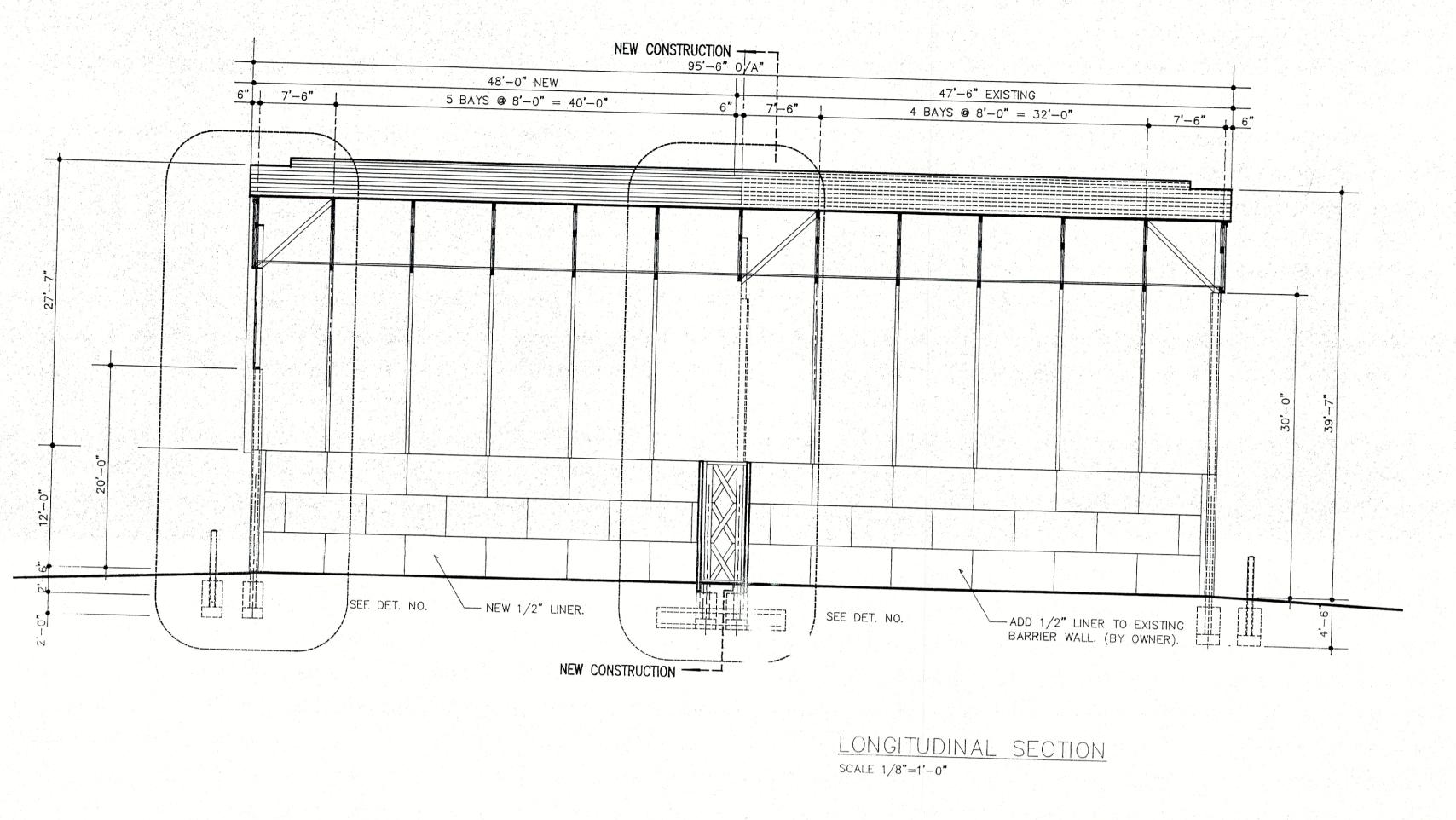
ORFI & UNDERHILL

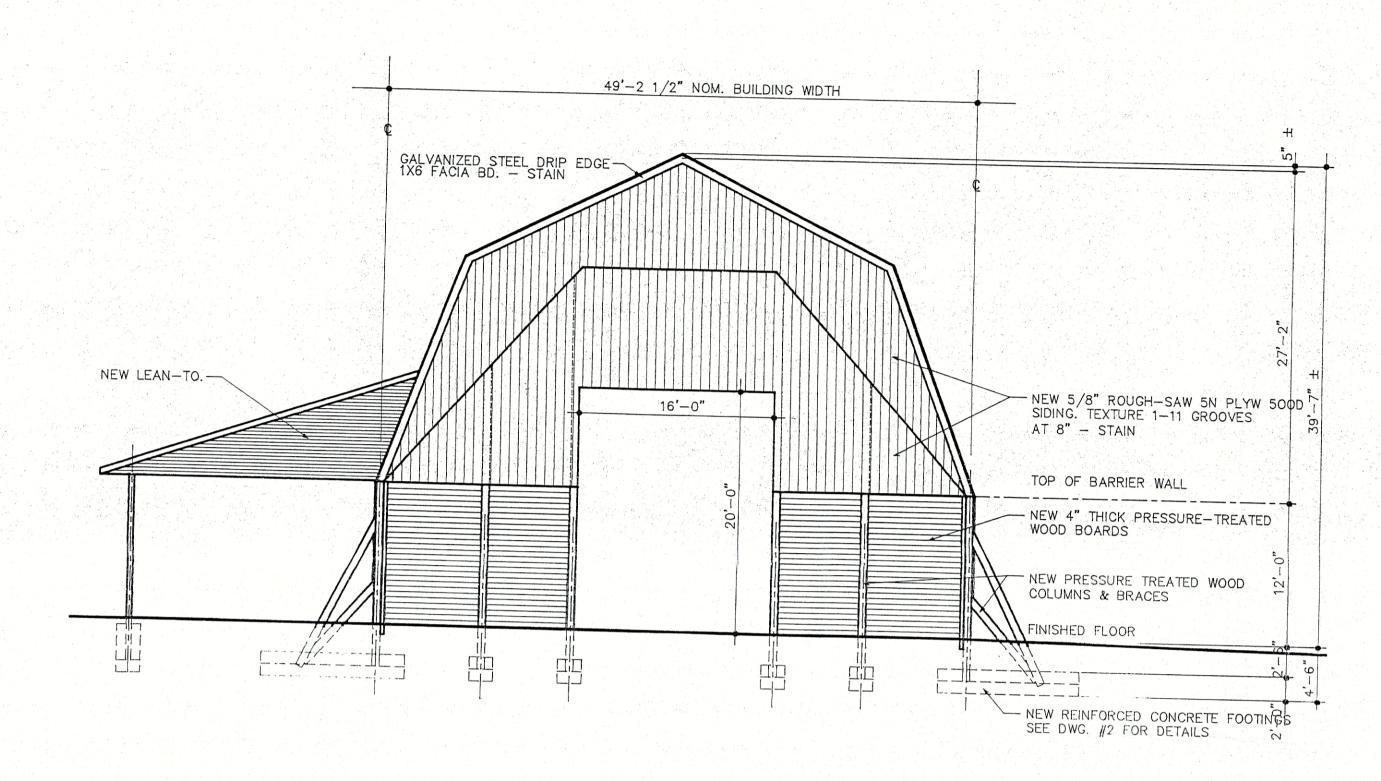
OF AMHERST, P.C.

ARCHITECTS & ENGINEERS

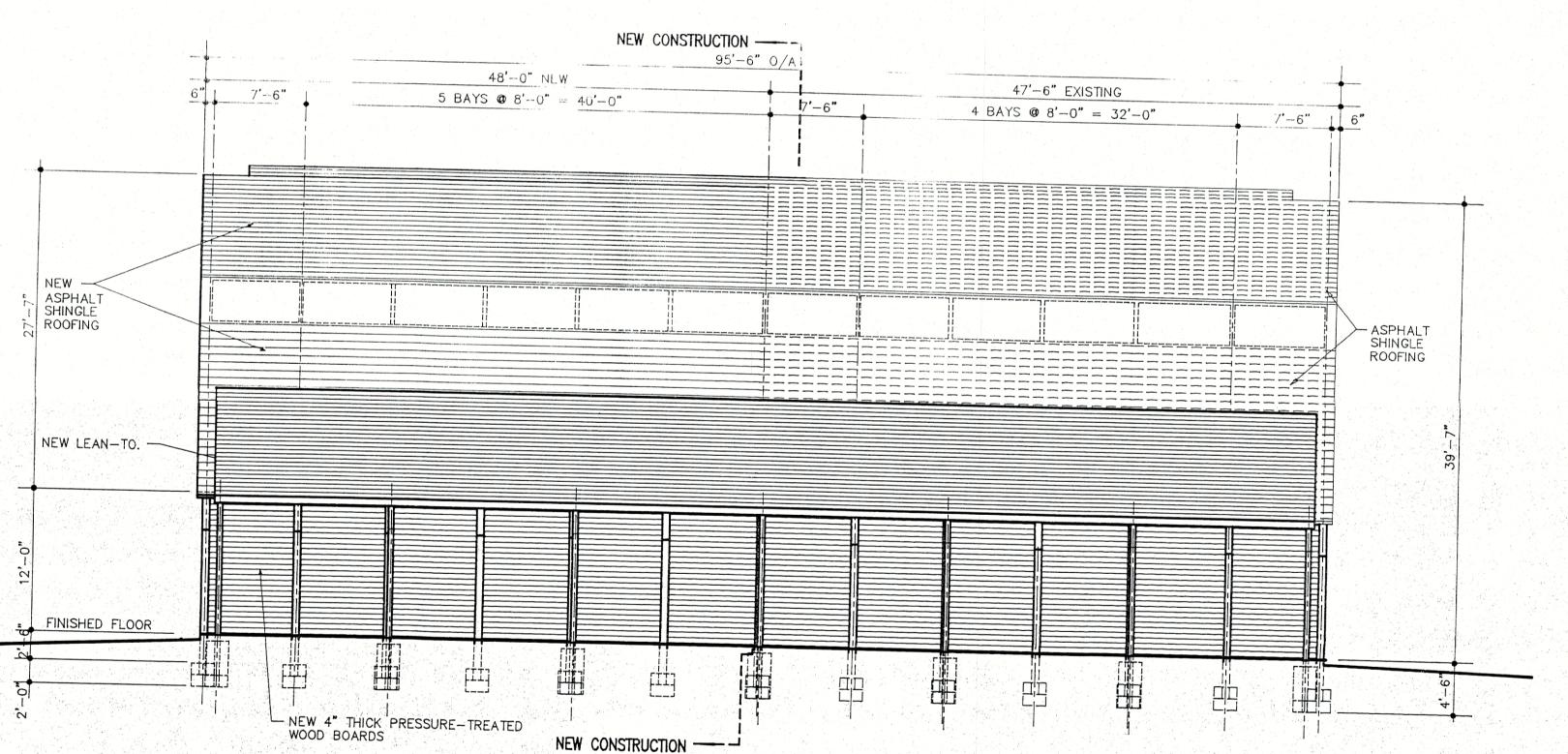
et gettembull

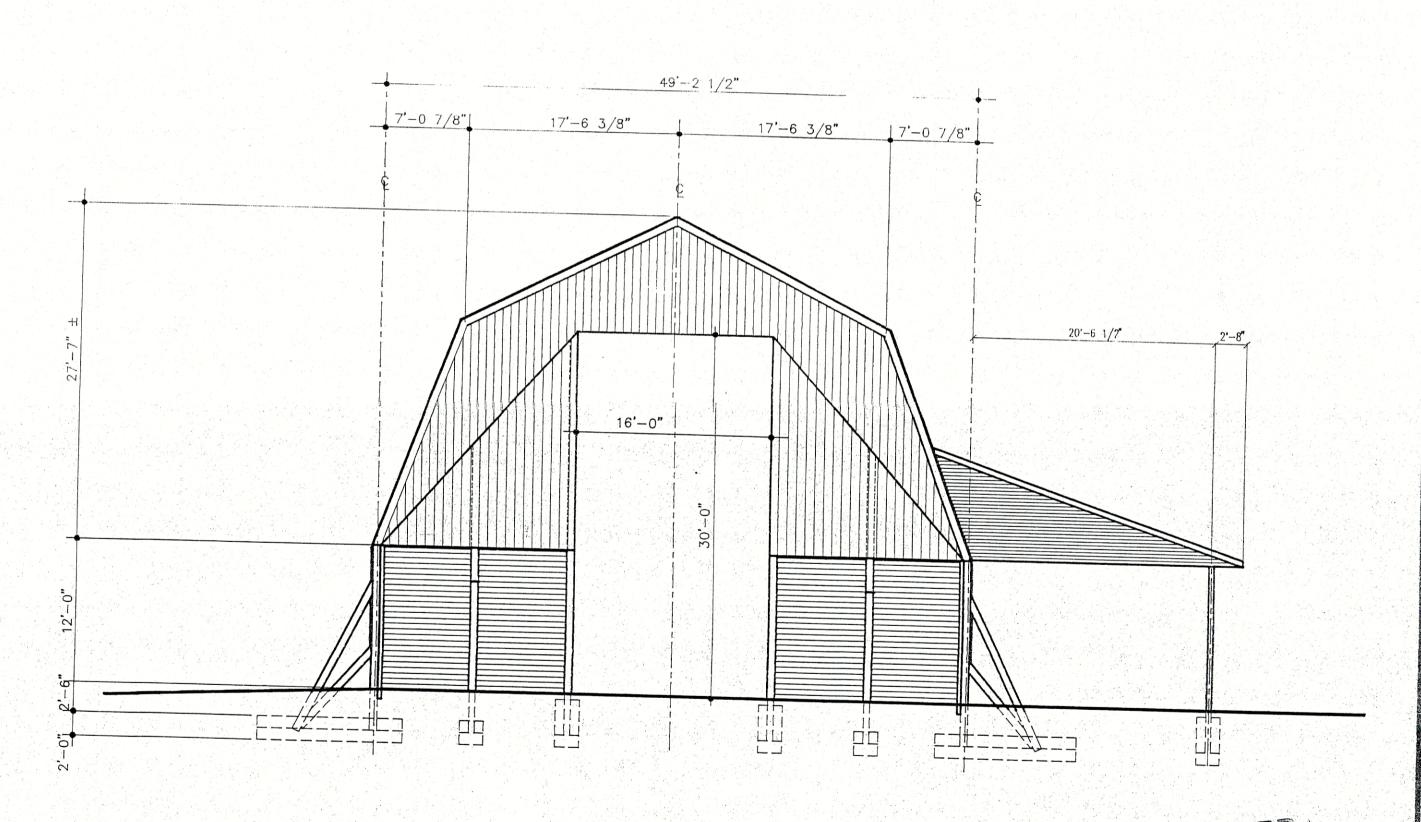
DRAWN K.F.	JOREVIEONS
CHECKED M.O.	89-347a
SCALE AS NOTED	DWG. NO.
ISSUED 6-30-89	4A





REAR FLEVATION
SCALE 1/6'=1'-0"





SIDE ELEVATION
SCALE 1/8"=1'-0"

TRUCK WASH

FRONT ELEVATION
SCALE 1/8"=1'-0"

JUL 1 0 1989

TOWN OF SIMSBURY
BUILDING DEPT.

PROPOSED EXPANSION AND LEAN-TO FOR

SALT STORAGE BUILDING

SIMSBURY, CONNECTICUT

ADVANCED STORAGE TECHNOLOGY

* MINNEAPLIS, MINN. *

* ELMIRA, NY *

* AMHERST, NY *

ORFI & UNDERHILL
OF AMHERST, P.C.
ARCHITECTS & ENGINEERS

Lever Mindeall

REVISIONS

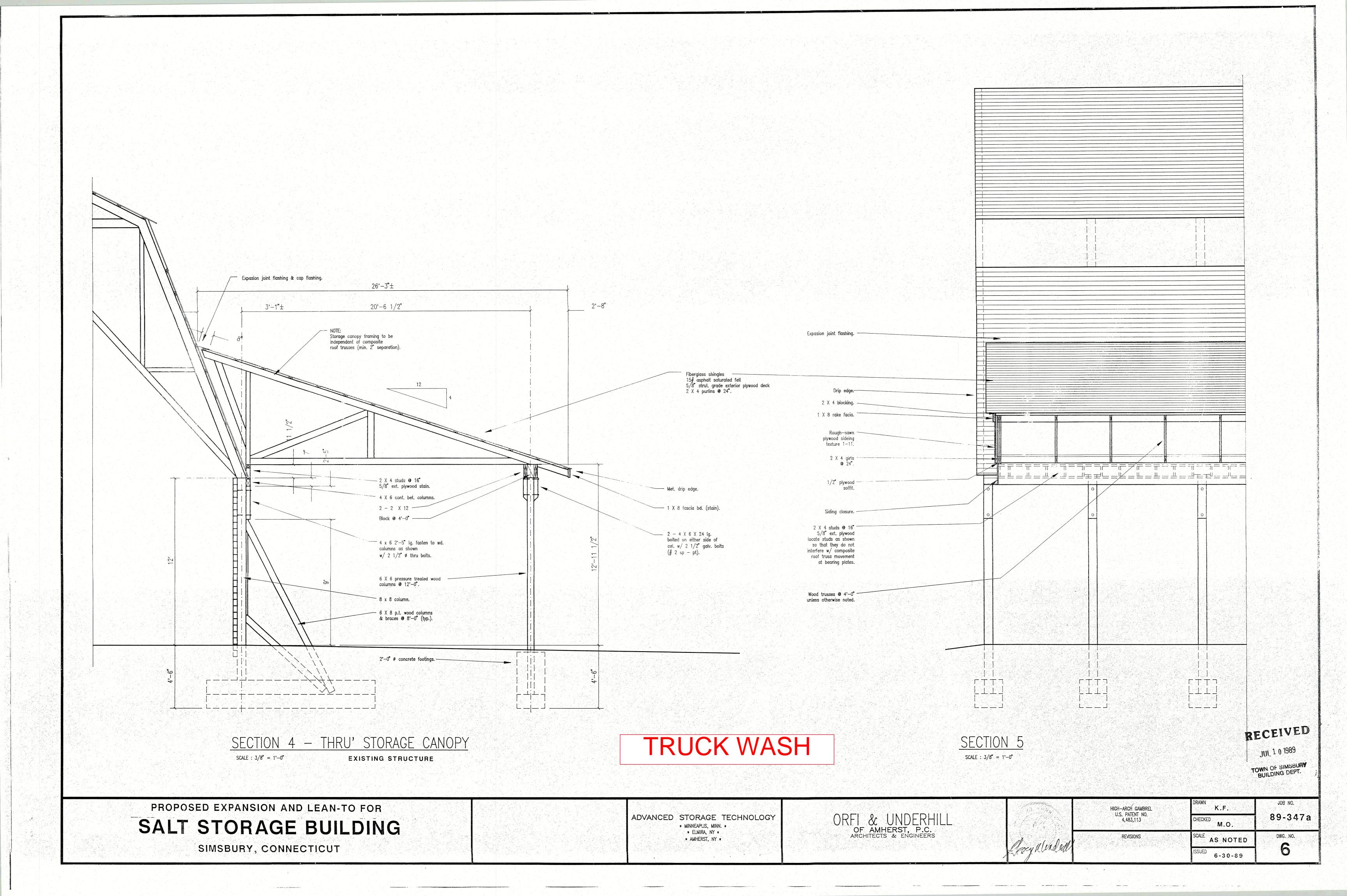
DRAWN
K.F.

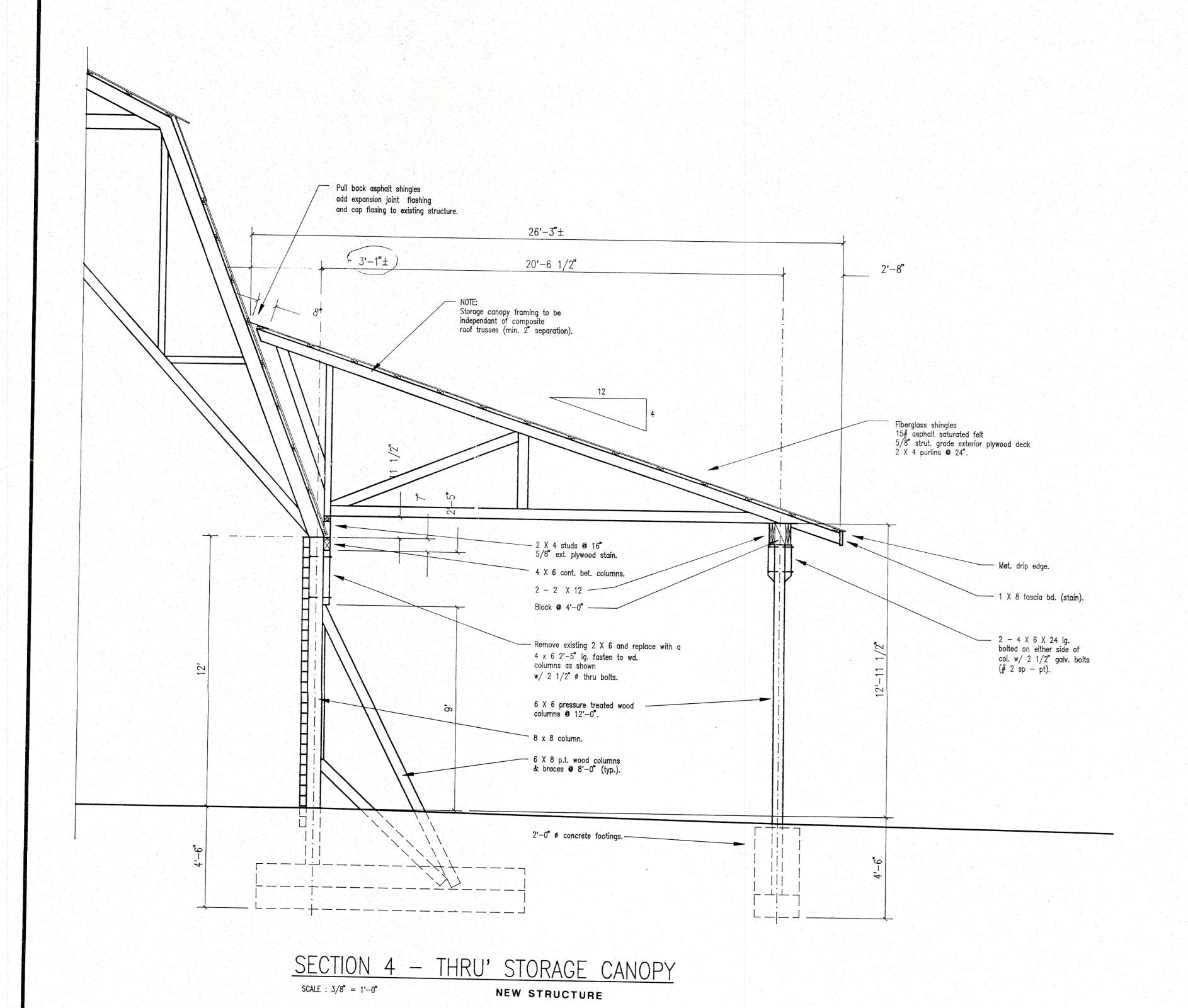
CHECKED
M.O.

SCALE
AS NOTED

DWG. NO.

ISSUED
6-30-89





TRUCK WASH

RECEIVED

JUL 1 0 1989

TOWN OF SIMBBURY
BUILDING DEPT.

PROPOSED EXPANSION AND LEAN-TO FOR

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* MINNEAPLIS, MINN. *

* ELMIRA, NY *

* AMHERST, NY *

ORFI & UNDERHILL

OF AMHERST, P.C.

ARCHITECTS & ENGINEERS

HIGH-ARCH GAMBREL
U.S. PATENT NO.
4,483,113

REVISIONS

HIGH-ARCH GAMBREL
U.S. PATENT NO.
4,483,113

REVISIONS

DRAWN

K.F.

CHECKED

M.O.

89-347a

AS NOTED

6-30-89

APPENDIX 3 PPA PRICING AND EQUIPMENT SPECIFICATION FORM

Project Site:
Project Size (kW DC):
System Price (\$ per watt DC):
CT ZREC Incentive Level (cents/kWh): \$.09/kWh
For each +/- \$0.01 change in CT ZREC Incentive Level change in PPA price \$:

Fixed PPA Option

10/ Facalatay Oution			
1% Escalat	1% Escalator Option		
\$kWl	n% Escal	ator	
Year	Expected Production (kWh)	PPA Rate (kWh)	Expected Payment
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

\$kWl	n% Escala	ator	
Year	Expected Production (kWh)	PPA Rate (kWh)	Expected Payment
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

Equipment Specifications:

Project Site:	
Photovoltaic Module:	
Thotovoltale Module.	
Manufacturer:	
Model:	
Inverter:	
Type:	
Racking System:	
Manufacturer:	
Material (Aluminum/Steel):	
Monitoring Equipment (if any)	
Manufacturer:	

Item	Cost(\$)	Cost/Watt DC (\$)
PV Modules:		
Inverter:		
Racking System:		
Monitoring Equipment:		
Balance of System:		
Construction Labor:		
Engineering:		
Permitting:		
Operation & Maintenance (15 yrs.)		
Operation & Maintenance (20 yrs.)		
Other Costs and Expenses:		
Total:		

APPENDIX 4 BUY-OUT OPTION

Project Site:				
•				
Project Size (kW DC):				

Please complete the table below specifying the amount for the Town to purchase the installed solar PV system from the Provider. The purchase will be a complete transfer of ownership to the Town. All information regarding the solar PV project must be given to the Town upon purchase. The buy-out will constitute a termination of the PPA, and as such, the buy-out price will be inclusive of all liquidated damages of an early termination. The Proposer will not claim any additional amount for any reason in connection with an early termination of the PPA. Please provide a dollar value for each year.

1% Escalator Option			
Year	Termination Amount (kWh)	Termination Amount per kW DC (\$/wDC)	Total Termination Value (\$)
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

Fixed	ed PPA Option		
Year	Termination Amount (kWh)	Termination Amount per kW DC (\$/wDC)	Total Termination Value (\$)
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
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20			

BIDDER'S QUALIFICATIONS STATEMENT

The BIDDER shall answer all of the following questions, as part of the Bid, so that the OWNER can judge the BIDDER's ability, experience and facilities for performing the proposed work.

1. Name of BIDDER:		
2. Bidder's Tax Identification Number:		
5. What is the general character or type of work you perform?		
6. Has a claim ever been brought in court or to arbitration against the BIDDER for failure to complete any contracted work or default on a contract?		
If yes, explain with whom and why:		
7. For other similar projects you have under contract at the present time: Attach list with description of work; the name of the client/owner with telephone number; and the approximate value of the work to be performed.		
NOTE: The BIDDER is required to have completed a minimum of five (5) similar projects as a demonstration of competency and experience for the project proposed herein. Such projects are to be listed below.		
8. Attach a list of all projects that your present organization has completed within the past ten years or is presently working on, including name of project, owner and name and telephone number of the owner's representative. Indicate here how many additional pages attached: pages.		
9. Attach a list of the names, addresses and the background/experience of all principal or key members of the BIDDERS organization, including its officers:		
Indicate the number of pages attached:pages		
NOTE: If requested, the BIDDER agrees to furnish the OWNER with a detailed financial statement and other relevant information that may be required by the Town of Simsbury to properly evaluate the qualifications of the BIDDER.		

NON-COLLUSION AFFIDAVIT OF BIDDER

Sta	ate of, County of, be	eing	
fir	est duly sworn, disposes and says that:		
1.	He is the owner, officer, representative or agent of: the BIDDER that has submitted the attached BID;		
2.	The attached BID is genuine; it is not a collusive or sham BID.		
3.	He is fully informed respecting the preparation, and contents of, and knowledgeable pertinent circumstances respecting the attached BID.	le of all	
4.	4. Neither BIDDER nor any of its officers, partners, owners, agents, representative employees, or parties in interest, including this affiant, has in any way colluded, conspire connived, or agreed, directly or indirectly, with any other bidder, firm or person to submit collusive or sham BID in connection with the AGREEMENT for which the attached BID heen submitted or to refrain from bidding in connection with any contract, or has in a manner, directly or indirectly, sought by agreement, collusion, communication or conferent with any other bidder, firm or person to fix the price or prices in the attached BID or of any other bidder, or to fix any overhead, profit or cost element of the BID prices or the bid pri of any other bidder, or to secure through collusion, conspiracy, connivance or unlawf agreement any advantage against the Town of Simsbury or any other person interested in the proposed AGREEMENT.		
5.	The price(s) quoted in the attached BID are fair and proper and are not tainted by a collusion, conspiracy, connivance or unlawful agreement on the part of the BIDDER or a of its agents, representatives, owners, employees, or parties in interest, including this affia and		
6.	That no elected or appointed official or other officer or employee of the Town of Sir who is directly or indirectly interested in this BID, or in the supplies, materials, equivork or labor to which it relates, or in any of the profits thereof.	•	
	(Signed)		
	(Name of Bidd	ler)	
Su	abscribed and sworn to before me thisday of, 2017		
	Title y Commission expires, 20		

TOWN OF SIMSBURY

Acknowledgement Form and Charter Section 1103 Code of the Town of Simsbury

ACKNOWLEDGEMENT FORM

I have read Section 1103 of the Charter of the Town of Simsbury, the Code of Ethics Ordinance, and the Guidelines issued thereunder. I understand my responsibilities as a Contractor retained by the Town of Simsbury, and I am in compliance with the Charter and the Code of Ethics. I have indicated in the space below any areas of conflict should they arise in matters before our board, commission, agency or department, and I agree to report any future conflicts under the provisions of Section 1103 of the Charter.

	CONFLICTS OF INTEREST SECTION 1103
appointed officer, any member of any financial interest, direct or indirect, in the Town or any board or commission shall record such disclosure upon the interest, direct or indirect, in any cont of any board or commission shall dis- board of commission or such town discussion of said contract, transact	nereby declared to be the policy of the Town that any elected or y board or commission or any employee of the Town who has a n any contract, transaction or decision of any officer or agent of on, shall disclose that interest to the Board of Selectmen, which e official record of its meetings. Such disclosure of a financial tract, transaction or decision of any officer or agent of the town or squalify such elected or appointed official or such member of a memployee from participation in the awarding, assignment or ection or decision. Violation by any such official, board or the provisions of this section shall be grounds for his/her removal.
Signature	
Name (Please Print)	
Date	

A copy of the Town Code is available from the Office of the Town Clerk or is available on line at http://www.simsbury-ct.gov/sites/simsburyct/files/file/file/towncode_1.pdf

Areas of Exception

STATEMENT OF BIDDERS COMPLIANCE WITH EQUAL EMPLOYMENT OPPORTUNITY LAW AND REGULATION INCLUDING EXECUTIVE ORDER NO. 3

This statement must be completed by the Bidder and shall accompany his bid for this project.

Γ IS HEREBY CERTIFIED THAT:	
IAME OF BIDDER:	
SUSINESS ADDRESS:	
To the extent required by law, the Bidder has complied on past Contracts and will fully contract that the project with all applicable laws and regulation regarding equal employment opportunity or minorities and women, and;	
Ias has not previously performed work under the conditions of the Govern executive Order No. 3 of the State of Connecticut, or any preceding similar Executive Order the regards to Non-Discrimination.	
Signature	
Title	
ubscribed and sworn to before me thisday of, 2017	
Title	
My Commission expires, 2017_	
IMPORTANT: THIS STATEMENT MUST BE SUBMITTED WITH BID	

END OF SECTION