ROOF REPLACEMENT J. Hal and Allyne Machat Music Facility (Band Hall) Blinn College - Brenham Campus 1005 College Avenue - Brenham, Texas 77833

Blinn College 902 College Avenue Brenham, Texas 77833 December 17, 2024

SITE MAP





Facilities Engineering Consultants TBPE Firm Registration No. F-1695 955 Dairy Ashford, Suite 204 Houston, Texas 77079 (281) 556-1522 (28)1) 556-1546 Fax

AESTIMO PROJECT NO. 245300-01



GENERAL SCOPE OF WORK

BASE BID:

- REMOVE AND PROPERLY DISPOSE OF EXISTING SURFACING (GRAVEL); ROOF MEMBRANE AND FLASHINGS; INSULATION BOARD; ETC. TO PREPARE FOR THE INSTALLATION OF A NE ROOF MEMBRANE SYSTEM
- IF NECESSARY TO PERFORM ROOF REPLACEMENT. REMOVE AND RISEWALL PANELS. RE-INSTALL METAL PANELS AFTER COMPLETION C
- 3. REPAIR/REPLACE ANY DAMAGED/DETERIORATED LIGHTWEIGHT INSULATING CONCRET
- REPAIR/REPLACE ANY DAMAGED/DETERIORATED STEEL DECK
- 5. RAISE EXISTING EXHAUST FAN CURBS TO ALLOW FOR A MINIMUM OF 8 INCHES IN BASE FLASHING HEIGHT AT EACH LOCATION.
- 6. EXTEND EXISTING PLUMBING VENTS TO ALLOW FOR A MINIMUM OF 8 INCHES IN FLASHING HEIGHT AT EACH LOCATION.
- INSTALL 1/4"/FT. TAPERED POLYISOCYANURATE INSULATION BOARD: MECHANICALLY FASTEN FHROUGH LIGHTWEIGHT INSULATING CONCRETE TO EXISTING STEEL DECK
- 8. INSTALL 1/2" RECOVERY BOARD (4'x4' BOARDS) OVER TAPERED POLYISOCYANURATE INSULATION BOARD; SET IN LOW-RISE FOAM URETHANE ADHESIVE
- INSTALL SBS MODIFIED BITUMEN BASE SHEET MEMBRANE: TORCH APPLIED
-). INSTALL FIRE-RATED, GRANULE-SURFACED SBS MODIFIED BITUMEN COOL ROOF CAP SHEE MEMBRANE: TORCH APPLIED
- 11. INSTALL FIRE-RATED, GRANULE-SURFACED SBS MODIFIED BITUMEN BASE FLASHING MEMBRANE TORCH APPLIED.
- 12. INSTALL NEW 16 OZ. COPPER EDGE FLASHINGS ON ROOF AREA A. EXISTING TWO-PIECE COPPER FASCIA FLASHING TO REMAIN IN PLACE.
- 13. INSTALL NEW 16 OZ. COPPER EDGE FLASHINGS ON ROOF AREA B. EXISTING COPPER GUTTERS AND DOWNSPOUTS TO REMAIN IN PLACE. 14. INSTALL NEW COPPER EXPANSION JOINT FLASHING AND EXPANSION JOINT COVER AT THE SOUTH
- PERIMETER OF ROOF AREA B. 15. INSTALL NEW COUNTER-FLASHINGS, PENETRATION FLASHINGS, AND OTHER SHEET METAL
- COMPONENTS. 16. REMOVE CORROSION FROM, PROPERLY PREPARE AND APPLY NEW PAINT TO ALL ROOF-TOP APPURTENANCES.

ALTERNATES:

- 1. REMOVE AND PROPERLY DISPOSE OF EXISTING METAL RISEWALL PANELS. INSTALL NEW PRE-FINISHED SHEET METAL RISEWALL PANELS, PROFILE TO MATCH EXISTING, COLOR TO BE SELECTED BY OWNER.
- 2. REMOVE AND PROPERLY DISPOSE OF EXISTING TWO-PIECE FASCIA FLASHING AT PERIMETER OF ROOF AREA A AND EXISTING GUTTERS AND DOWNSPOUTS AT THE PERIMETER OF ROOF AREA B. INSTALL NEW TWO-PIECE COPPER FASCIA FLASHING ON ROOF AREA A, PROFILE TO MATCH EXISTING. INSTALL NEW COPPER GUTTERS AND DOWNSPOUTS ON ROOF AREA B, SIZE AND DOWNSPOUT LOCATIONS TO MATCH EXISTING.

D, P.E. ON DECEMBER 17, 2024.
RISTIAN FAIRCHILD
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INDEX OF DRAWINGS

- R-1 ROOF DEMOLITION PLAN
- **R-2** BUILDING CODE COMPLIANCE PLAN
- R-3 INSULATION LAYOUT PLAN
- R-4 ROOF REPLACEMENT PLAN
- R-5 ROOF REPLACEMENT DETAILS

NOTES: 1. NON-FRIABLE ASBESTOS CONTAINING MATERIALS WERE FOUND IN THE ROOFING MATERIALS ON ROOF AREA A. THE ASBESTOS REPORT IS PROVIDED IN SECTION 003126 OF THE PROJECT MANUAL. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROPERLY ABATING AND DISPOSING OF ASBESTOS CONTAINING MATERIALS ACCORDING TO ALL APPLICABLE CODES AND REGULATIONS.

- 2. ANY CONDITIONS NOT SPECIFICALLY ADDRESSED IN THESE DRAWINGS OR REFERENCED SPECIFICATIONS TO BE DETAILED IN ACCORDANCE WITH ACCEPTED INDUSTRY STANDARDS, ROOF SYSTEM MANUFACTURER'S RECOMMENDATIONS AND AS APPROVED BY CONSULTANT TO PROVIDE A WATER-TIGHT ROOF SYSTEM THAT QUALIFIES FOR THE SPECIFIED WARRANTY PERIOD.
- 3. CONTRACTOR IS REQUIRED TO MAINTAIN THE BUILDING IN A WATER-TIGHT CONDITION THROUGHOUT THE CONSTRUCTION PROCESS.
- 4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS.



ROOF CORE INFORMATION NOTES:

- 1. ROOF CORE INFORMATION IS REPRESENTATIVE OF EXISTING CONDITIONS AT ROOF CORE LOCATIONS ONLY. THIS INFORMATION IS PROVIDED FOR GENERAL INFORMATION PURPOSES AND IS NOT INTENDED TO BE USED AS THE SOLE BASIS FOR ESTABLISHING THE COST OF ROOF SYSTEM DEMOLITION.
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RC-1 (Roof Area A)

FLOOD COAT AND GRAVEL MULTIPLE PLIES - HOT ASPHALT BITUMEN FIBER BOARD - APPROX. 1" ONE PLY - HOT ASPHALT BITUMEN A: . 4 Ą A . . LIGHTWEIGHT INSULATING CONCRETE APPROX. 3" (per original construction drawings)

RC-2 (Roof Area B)

FLOOD COAT AND GRAVEL A: . 4 4 · A. .

MULTIPLE PLIES - HOT ASPHALT BITUMEN

FIBER BOARD - APPROX. 1" ONE PLY - HOT ASPHALT BITUMEN

LIGHTWEIGHT INSULATING CONCRETE APPROX. 3" (per original construction drawings)

BLINN COLLEGE.

REVISIONS
1 ISSUED FOR PROPOSALS 12/17/24 0 ISSUED FOR REVIEW 12/16/24
NO. DESCRIPTION DATE
ROOF DEMOLITION PLAN
J. HAL & ALLYNE MACHAT MUSIC FACILITY (BAND HALL) 1005 COLLEGE AVENUE BRENHAM, TEXAS 77833
BLINN COLLEGE
AESTIMO PROJECT NO. 245300-01
THIS DOCUMENT CONTAINS AN ELECTRONICALLY- APPLIED SEAL AND SIGNATURE AUTHORIZED BY JOHN C. FAIRCHILD, P.E. ON DECEMBER 17, 2024.
DRAWING NO. SCALE R-1 1/8"=1'-0" DRAWN BY DATE C.D.S. 11/25/24 CHECKED BY DATE J.C.F.
AESTIMO INC
Facilities Engineering Consultants TBPE Firm Registration No. F-1695 955 Dairy Ashford, Suite 204 Houston, Texas 77079 (281) 556-1522 (281) 556-1546 Fax
R-1

ROOF PLAN -- WIND ZONES



L	E	G	Ε	Ν	C
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I EGEND	
	FIELD ZONE 1' (8 fasteners per 4'x4' board) (adhesive ribbons spaced @ 12" o.c.)
	PERIMETER ZONE 1 (8 fasteners per 4'x4' board) (adhesive ribbons spaced @ 12" o.c.)
	PERIMETER ZONE 2 (8 fasteners per 4'x4' board) (adhesive ribbons spaced @ 6" o.c.)

																0					
Roof				Least Horizontal	Zone Width	Corner Zone	Step I	Height	L.	Fi	eld Zone	(1')	Perim	eter Zor	ne (1)	Perin	eter Zor	ne (2)	Corr	ner Zone	: (3)
Area	Approx. Mean Roof Height	Wind Velocity Pressure Coefficient	Wind Velocity Pressure (ah) (ap)	Dimension B (ft)	(0.6h) (ft)	Deptn (0.2h) (ft)	h	1	D (ft)	GCp (FT)	p (ULT)	р (x0.6)									
	(z) (ft)	(Kz)	(psf)	()	()	()	(FT)	LOC	()		(psf)	(psf)									
OOF AREA A (Ro	of Slope = 1/4	"/FT)																			
utward/Uplift	22	0.64	22.2	60	13	4	4	D	6	-0.9	-24	-14	-1.7	-42	-25	-2.3	-55	-33	-3.2	-75	-45
ward Pressure							13	E	19.5	0.3	11	6	0.3	11	6	0.3	11	6	0.3	11	6
OOF AREA B (Ro	of Slope = 1/4	"/FT)																			
utward/Uplift	13	0.57	19.9	99	8	3	4	D	6	-0.9	-21	-13	-1.7	-37	-22	-2.3	-49	-30	-3.2	-67	-40
ward Pressure							13	E	19.5	0.3	10	6	0.3	10	6	0.3	10	6	0.3	10	6

Exposure Constant (alpha) =	7	
Exposure Constant (zg) =	1200	
Gust Effect Factor (G) =	0.85	
Internal Pressure Coefficient (GCpi)	0.18	
Components and Cladding Pressure p=qh [(GCp) - (GCpi)]		

	. (/	
2. D+L	6. D + 0.75L	+ 0.75(0.6W) + 0.75(Lr or S or R)	
3. D + (Lr or S or R)	7. 0.6D + 0.6	SW .	
4. D + 0.75L + 0.75(Lr or S or R)			
For Uplift Conservatively Assume D = 0.0; therefore De	esign Uplift Pressure =	= 0.6W	
Design Pressure for Comp & Cladding: (p) =	qh(GCp) - (G	GCpi)	(ANSI/ASCE 7-16 Equation 30.3-1 h-
For simplicity, conservatively assume qh = qi p = q	h(GCp - GCpi)		
Design Wind Velocity Pressure (q) = qh = qi =	0.00256 Kz	Kzt KdKe(V^2)	(ANSI/ASCE 7-16 Equation 26.10-1) (conservatively evaluate q=qh=qi)
Velocity Pressure Coefficient (Kz) =	2.01 ((z/zg)* 2.01 ((z/zg)*	*2/alpha) - for 15 ft = z </= zg<br *2/alpha) for z < 15 ft	(ANSI/ASCE 7-16 Table 26.10-1, Note
Topographic Factor (Kzt) =	1		(ANSI/ASCE 7-16 Section 26.8.2)
Internal Pressure Coefficient (GCpi):	0.18		(ANSI/ASCE 7-16 Table 26.13-1)
Site Specific Data:			
Wind Directionality Factor (Kd) =	0.85		(ANSI/ASCE 7-16 Table 26.6-1)
Basic Wind Velocity (V) =	126	(MRI = 1,700YR.)	(ANSI/ASCE 7-16 Fig. 26.5-1B)
Risk Category =	Ш		(ANSI/ASCE 7-16 Table 1.5-1)
Exposure =	В		(ANSI/ASCE 7-16 Section 26.7.3)
Exposure Constant (alpha) =	7		(ANSI/ASCE 7-16 Table 26.11-1)
Exposure Constant (zg) =	1200		(ANSI/ASCE 7-16 Table 26.11-1)
Gust Effect Factor (G) =	0.85		(ANSI/ASCE 7-16 Section 26.11.1)
Internal Pressure Coefficient (GCpi)	0.18	-0.18	(ANSI/ASCE 7-16 Table 26.13-1)

Dimensional Data

=qi) [′]

6.10-1) 8.2) 3-1)

0-1, Note 1)

30.3-1 -- h<60 feet)

Roof Component Design Pressures

Blinn College - Band Hall 1005 College Avenue Brenham, Texas 77833 Aestimo, Inc. (TBPE Firm Registration No. F-1695) John C. Fairchild, P.E. (TBPE No. 68313) 955 Dairy Ashford, Suite 204 Houston, Texas 77079

Engineer:

BUILDING CODE REQUIREMENTS

Aestimo Project No.: Revision Date:

Project:

Notes:

November 27, 2024

Provided roof elevations are approximate and in relation to adjacent ground elevation.
The design is for an ENCLOSED structure – openings protected or impact resistant.

The design is for an ENCLOSED structure - Openings protected of impact resistant.
Roof slope is less than 1:12.
The design wind forces/pressures under this criteria have been calculated in accordance with ANSI/ASCE 7-16 "Minimum Design Loads for Building and Other Structures" and meets requirements of IBC 2021.
Height of roof areas less than 60 feet, use factors as appropriate for height.

245300-01

Design Information:

Load Combinations: (Allowable Stress Design) (per AISC/ASCE 7-16 -- 2.4.1) 5. D + (0.6W) 1. D

ROOF DRAINAGE REVIEW

Primary Gutters and Downspouts:

(per 2021 International Plumbing Code and 2021 International Existing Building Code -- Section 705.1 - Exemption 2)

Roof AreaTotal (ontributing AreaRainfail Intensity (i) (in/hr)IAProposed Gutter Dimensions (Depth x Width)Max Length to Closest DownspoutProposed Gutter M (Depth/Width)Required M (Depth/Width)Compliance with M (Depth/Width)Proposed Gutter M (Depth/Width)Proposed GutterProposed GutterProposed GutterProposed GutterProposed GutterProposed GutterProposed GutterPropos		-					-						-
A-1 1,306 4.5 5,877 5" x 5" 30 1.00 0.70 YES (1) 3" Round 61 92 YES A-2 1,082 4.5 4,869 5" x 5" 24 1.00 0.65 YES (2) 3" Round 25 92 YES A-3 1,082 4.5 4,869 5" x 5" 24 1.00 0.70 YES (2) 3" Round 25 92 YES A-4 1,306 4.5 5,877 5" x 5" 30 1.00 0.70 YES (1) 3" Round 61 92 YES A-4 1,306 4.5 5,877 5" x 5" 30 1.00 0.70 YES (1) 3" Round 61 92 YES A-5 1,306 4.5 5,877 5" x 5" 30 1.00 0.70 YES (1) 3" Round 61 92 YES A-6 940 4.5 4,230 5" x 5" 6 1.00 0.50 Y	Roof Area	Total Contributing Area (sf)	Rainfall Intensity (I) (in/hr)	IA	Proposed Gutter Dimensions (Depth x Width)	Max Length to Closest Downspout (ft)	Proposed Gutter M (Depth/Width)	Required M (Depth/Width) per SMACNA Chart 1-1	Compliance with Plumbing Code	Proposed Downspouts	Required Flow Rate per Downspout (GPM)	Actual Flow Rate per Downspout (GPM)	Compliance with Plumbing Code
A-2 1,082 4.5 4,869 5" x 5" 24 1.00 0.65 YES (2) 3" Round 25 92 YES A-3 1,082 4.5 4,869 5" x 5" 24 1.00 0.70 YES (2) 3" Round 25 92 YES A-4 1,306 4.5 5,877 5" x 5" 30 1.00 0.70 YES (1) 3" Round 61 92 YES A-5 1,306 4.5 5,877 5" x 5" 30 1.00 0.70 YES (1) 3" Round 61 92 YES A-6 940 4.5 4,230 5" x 5" 12 1.00 0.50 YES (2) 3" Round 22 92 YES A-7 844 4.5 3,798 5" x 5" 6 1.00 .050 YES (1) 3" Round 39 92 YES A-8 1,687 4.5 7,592 5" x 5" 30 1.00 0.85 YES	A-1	1,306	4.5	5,877	5" x 5"	30	1.00	0.70	YES	(1) 3" Round	61	92	YES
A-3 1,082 4.5 4,869 5" x 5" 24 1.00 0.70 YES (2) 3" Round 25 92 YES A-4 1,306 4.5 5,877 5" x 5" 30 1.00 0.70 YES (1) 3" Round 61 92 YES A-5 1,306 4.5 5,877 5" x 5" 30 1.00 0.70 YES (1) 3" Round 61 92 YES A-5 1,306 4.5 5,877 5" x 5" 30 1.00 0.70 YES (1) 3" Round 61 92 YES A-6 940 4.5 4,230 5" x 5" 12 1.00 0.50 YES (2) 3" Round 22 92 YES A-7 844 4.5 3,798 5" x 5" 6 1.00 .050 YES (1) 3" Round 39 92 YES A-8 1,687 4.5 7,592 5" x 5" 30 1.00 0.85 YES	A-2	1,082	4.5	4,869	5" x 5"	24	1.00	0.65	YES	(2) 3" Round	25	92	YES
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	A-8	1,687	4.5	7,592	5" x 5"	30	1.00	0.85	YES	(2) 3" Round	39	92	YES

ENERGY CONSERVATION CODE REVIEW (per 2021 International Energy Conservation Code)

	Code	Proposed				
	Requirement	Modified Bitumen Membrane (Soprema ELASTOPHENE FLAM FR GR (SG)	Compliance with Energy Code			
R-Value (Long Term LTTR)	R-25	TAPERED PLAN	Yes			
Solar Reflectance (Membrane) 3-Year Aged:	0.55	0.62	Yes			
Thermal Emittance (Membrane) 3-Year Aged:	0.75	0.90	Yes			



SCALE: 1/16"=1'-0"



ROOF PLAN -- DRAINAGE





BLINN COLLEGE.
REVISIONS
INSULATION LAYOUT PLAN
J. HAL & ALLYNE MACHAT MUSIC FACILITY (BAND HALL) 1005 COLLEGE AVENUE BRENHAM, TEXAS 77833
BLINN COLLEGE
AESTIMO PROJECT NO. 245300-01
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AESTIMO, INC. Facilities Engineering Consultants TBPE Firm Registration No. F-1695 955 Dairy Ashford, Suite 204 Houston, Texas 77079 (281) 556-1522 (281) 556-1546 Fax
R-3

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2. IF NECESSARY TO PERFORM ROOF REPLACEMENT, REMOVE AND PROPERLY STORE THE METAL RISEWALL PANELS. RE-INSTALL METAL PANELS AFTER COMPLETION OF ROOFING OPERATIONS. 3. REPAIR/REPLACE ANY DAMAGED/DETERIORATED LIGHTWEIGHT INSULATING CONCRETE. 4. REPAIR/REPLACE ANY DAMAGED/DETERIORATED STEEL DECK.

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BOARD; SET IN LOW-RISE FOAM URETHANE ADHESIVE. 9. INSTALL SBS MODIFIED BITUMEN BASE SHEET MEMBRANE; TORCH APPLIED.

INSTALL FIRE-RATED, GRANULE-SURFACED SBS MODIFIED BITUMEN COOL ROOF CAP SHEET MEMBRANE; TORCH APPLIED.

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BLINN COLLEGE.
REVISIONS
1ISSUED FOR PROPOSALS12/17/240ISSUED FOR REVIEW12/16/24NO.DESCRIPTIONDATE
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J. HAL & ALLYNE MACHAT MUSIC FACILITY
(BAND HALL) 1005 COLLEGE AVENUE BRENHAM, TEXAS 77833
BLINN COLLEGE
AESTIMO PROJECT NO.
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JOHN C. PAIRCHILD, P.E. ON DECEMBER 17, 2024.
JOHN CHRISTIAN FAIRCHILD 68313 68315 68315 68315 68315 68315 68315 68315 68315 68315 68315 6831
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R-4

