ADDENDUM #1

Project Name:
IMHI Cromwell Roof Replacement
DAS#9109.00
RFQ0920335013
Addendum #1
Dated: August 30th, 2019

This Addendum forms a part of the bidding and contract documents. This Addendum supersedes and supplements all portions of the original bidding and contract documents dated August 16th, 2019 with which it conflicts.

ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE SPACE PROVIDED ON THE BID FORM. FAILURE TO DO SO MAY SUBJECT THE BIDDER TO DISQUALIFICATION.

1. GENERAL CLARIFICATIONS

A. None Noted

2. SPECIFICATIONS

A. Project Manual cover sheet. The Project Manual cover sheet has the incorrect address. Revise the cover sheet from 402 Iowa Avenue, Iowa City, IA, 52240 to read 2277 Iowa Avenue, Independence, IA, 50644

3. DRAWINGS

A. See attached revised drawings C-1, D-1, A-1, and A-2.

4. QUESTIONS

A. I got a call from this gentleman looking for project prints. Can you point him in the right direction? A> Bidding Documents may be obtained from www.beelineandblue.com or by calling (515)-244-1611 on Monday, August 19th, 2019.

B. It appears the site location for the Mental Health Institute re-roof is in Iowa City, but the pre bid meeting tomorrow is in Independence. Is there a reason for this? I would like to set up a time to go to the job site to take a roof core and verify some measurements. Let me know. A> The Project Manual cover sheet has the incorrect address. Revise the

cover sheet from 402 Iowa Avenue, Iowa City, IA, 52240 to read 2277 Iowa Avenue, Independence, IA, 50644.

5. APPROVED MANUFACTURERS

A. EPDM Carlisle Syntec-EPDM

6. ATTACHMENTS

A. Substitution Request (Carlisle Syntec-EPDM) (6 pages)
B. Pre-bid Sign-In Sheet (1 page)
C. Revised drawings C-1, D-1, A-1 and A-2 (4 pages)

END OF ADDENDUM

SUBSTITUTION REQUEST FORM

Project: Independence Mental Health Institute Roof Replacement
Independence, IA
To: Horizon Architecture
The Samuels Group
Re: Substitution Request - EPDM Roofing

Substitution Request Number: _____
From: Luna & Associates
Date: 8/21/2019
A/E Project Number: 9109.00

Specification Title: Ethylene-propylene-diene-monomer (EPDM) Roofing
Description: Fully-adhered 60mil EPDM roof system
Section: 075323 Page: 4 Article/Paragraph: 2.3

Proposed Substitution: Carlisle Syntec Sure-seal 60mil fully-adhered EPDM roof system
Manufacturer: Carlisle Syntec Address: PO Box 7000 - Carlisle, PA Phone: 800-479-6832
Trade Name: Sure-seal EPDM roof system Model No.: n/a

History: ☐ New product ☐ 2-5 years old ☐ 5-10 yrs old ☒ More than 10 years old

Differences between proposed substitution and specified product: No differences.

☐ Point-by-point comparative data prepared by contractor and attached - REQUIRED BY A/E

Reason for not providing specified item: Similar product by non-listed manufacturer.

Similar Installation:
Project: Independence MHI Roofs
Address: Independence, IA
Architect: Shive-Hattery
Owner: State of IA Dept of Admin Services
Date Installed: 2008

Proposed substitution affects other parts of Work: ☒ No ☐ Yes; explain _____

Supporting Data Attached: ☐ Drawings ☒ Product Data ☐ Samples ☐ Tests ☐ Reports ☐ _____

SUBSTITUTION REQUEST FORM

(Continued)

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Cost data as stated above is complete. Claims for additional costs related to accepted substitution which may subsequently become apparent are to be waived.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.
- Coordination, installation, and changes in the Work as necessary for accepted substitution will be complete in all respects.

Submitted by: Stephanie Waggoner

Signed by: Stephanie Waggoner

Firm: Luna & Associates

Address: IA/NE

Telephone: 402-763-0206

Attachments: Fully-adhered System Sheet & EPDM membrane product data

A/E's REVIEW AND ACTION

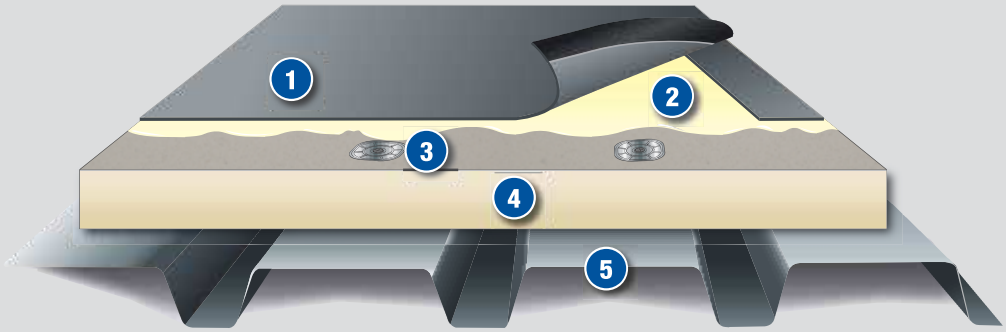
- [x] Substitution approved - Make submittals in accordance with Specification Section 01 3300.
- [ ] Substitution approved as noted - Make submittals in accordance with Specification Section 01 3300.
- [ ] Substitution rejected - Use specified materials.
- [ ] Substitution Request received too late - Use specified materials.

Signed by: Date: 8/22/2019

Additional Comments: ☐ Contractor ☐ Subcontractor ☐ Supplier ☐ Manufacturer ☐ A/E ☐ _____

CARLISLE SYNTEC SYSTEMS

Sure-Seal® EPDM
Fully-Adhered Roofing Systems



1. Sure-Seal Membrane with Factory-Applied Tape (FAT™)
2. Carlisle Bonding Adhesive
3. Carlisle Fasteners and Plates
4. Acceptable Insulation
5. Approved Roof Deck

Sure-Seal EPDM Membranes for fully adhered roofing systems are available in the following:

Color	Black
Thicknesses (mils)	45, 60 and 90
Standard Widths	10' – 30'
Standard Lengths	50' – 100'

System Features & Benefits:

- Over 50 years of proven performance
- In colder climates, dark-colored EPDM reduces heating costs, which are generally 3–5 times greater than cooling costs
- Industry leading UV resistance of 41,580 kJ/m²
- Full thickness of weathering material, no internal scrim
- 465% elongation results in superior hail damage resistance
- Lowest global warming potential, acid rain and smog impact according to EPA's TRACI model

	New Construction						Re-roofing		
Existing or New Deck Type	**Steel**	**Plywood or OSB**	**Lt. Wt. Concrete**	**Structural Concrete**	**Wood Planks**	**Gypsum & Fibrous Cement**	**Smooth Surface BUR**	**Gravel Surfaced BUR**	**Existing Single-Ply**
Insulation Required	Yes	No	*Refer to Specs	No	Yes	Yes	No	Yes	Yes
Recommended Insulations	Carlisle Polyiso, OSB or SecurShield™ HD Cover Board over Polystyrene						← Refer to New Construction		
Insulation Attached By	FAST™ Adhesive (non-penetrating) or Carlisle Fasteners and Plates						← Refer to New Construction		
Membrane Attached By	Carlisle-Approved Bonding Adhesive						← Refer to New Construction		

FOR TEAR OFF OPTIONS REFER TO NEW CONSTRUCTION ABOVE.
For current code approvals, warranties and specifications and details, visit Carlisle's web site or contact Project Review.
* Refer to Carlisle's Adhered Design Criteria portion of the current specification for requirements.

CARLISLE SYNTEC SYSTEMS

Sure-Seal® EPDM
Fully-Adhered Roofing Systems

Installation

Carlisle's fully adhered roofing system utilizes 45-, 60- and 90-mil Sure-Seal non-reinforced or 45-, 60- and 75-mil Sure-Tough™ reinforced membranes.

Insulation is either mechanically fastened to the roof deck every two square feet, adhered with FAST Adhesive or other Carlisle approved insulation adhesive. Membrane is adhered to the insulation with Carlisle Approved Bonding Adhesive. Adjoining sheets of EPDM are spliced together a minimum of 3" using Carlisle's SecurTAPE™ or FAT™ seam technology.

The above information represents a typical Carlisle fully adhered roofing system. Refer to Carlisle's published specifications and details for more complete information.

Membrane and System Strengths

- Carlisle manufactures all major components of the roof system
- Dimensionally stable in both hot and cold climates
- No slope restrictions
- Lightweight assembly for a variety of decks
- Reduces carbon footprint by lowering heating costs
- Reduces safety hazard from snow and ice accumulation
- Reduces hazardous rooftop conditions from frost, dew, or ice that are difficult to see on white membrane
- Reduces potential condensation problems that can erode system performance
- FAT Seam Technology and Pressure-Sensitive Flashing accessories enhance workmanship quality
- 45-mil, 60-mil and 90-mil Sure-Seal membranes available for 15-, 25- and 30-year system warranties
- Available in 10', 16½', 20', 25' and 30' widths. These widths of non-reinforced Sure-Seal membrane reduce splices between sheets
- Using Sure-Tough reinforced membrane increases puncture resistance and tolerates heavy foot traffic
- Carlisle's Fully Adhered Roof System offers design flexibility, addresses unconventional building configurations, and conforms to steeply sloped roof designs
- Zero (no growth) rating for fungal growth

System Codes

- UL Class A and B ratings are available over most deck types
- FM uplift ratings up to 1-120 are available

For code specifics, refer to Carlisle's Code Approval Guide.

Quality Assurance

Carlisle Authorized Applicators have been trained to install fully adhered roofing systems.

Inspection

Upon installation completion, and prior to the issuance of a membrane system warrranty, an inspection will be conducted by a Carlisle Technical Representative.

Warranty

Consult your Authorized Applicator or Carlisle Manufacturer's Representative/Distributor for associated warranty charges.

This system properly installed and inspected on a commercial project may receive:

- A 10-, 15-, 20-, 25- or 30-year (75-mil or 90-mil required) Golden Seal™ Total System Warranty may be requested when all materials used for the roofing installation are manufactured or marketed by Carlisle. A maximum peak gust wind speed coverage of 55 miles per hour is standard. Additional coverage up to 30 years and 120 mph is available.
- A 1" hail warranty is available with 60-mil EPDM and a 2" hail warranty is available with 75-mil or 90-mil EPDM
- A 40-year non-prorated ELITE membrane material warranty is available with 90-mil black EPDM
- Warranty for systems incorporating Carlisle's Sure-Tough membrane include coverage for damage caused by accidental punctures

For more specifics or for international warranty programs, contact Carlisle.

FM APPROVED

CLASSIFIED UL

800-479-6832 | P.O. Box 7000 | Carlisle, PA 17013 | Fax: 717-245-7053 | **www.carlislesyntec.com**

CARLISLE SYNTEC SYSTEMS

Sure-Seal® EPDM
Kleen Non-Reinforced Membranes

Overview

Carlisle's Sure-Seal Kleen Non-Reinforced roofing membranes are available in thicknesses of 45-mil (1.14 mm), 60-mil (1.52 mm), and 90-mil (2.29 mm). Ideal for new single-ply roof construction and re-roofing applications, Sure-Seal EPDM Kleen Non-Reinforced membranes are available in widths of up to 10' (3 m) and lengths of up to 100' (30 m). These membranes are Fire Retardant (FR), which means they are specially formulated to inhibit the spread of flame and meet or exceed code body testing criteria for fire-retardant roofing membranes.

Features and Benefits

- Carlisle EPDM has 50 years of proven performance and industry-leading weathering resistance (41,580 kJ/m² total radiant exposure without cracking or crazing)
- Factory-Applied Tape™ seam technology and a full line of Pressure-Sensitive flashing accessories enhance workmanship quality
- Dark-colored EPDM is the smart choice in colder climates:
  - Reduces heating costs, which are generally 3–5 times greater than air conditioning costs
  - Reduces carbon footprint by lowering heating costs
  - Reduces safety hazards caused by snow and ice accumulation
  - Reduces hazardous conditions caused by frost, dew, and ice
  - Reduces the potential for condensation problems
- Life Cycle Assessment using EPA's TRACI model analyzed EPDM, TPO, PVC and Modified Bitumen:
  - EPDM had the lowest global warming potential
  - EPDM had the lowest acid rain impact
  - EPDM had the lowest contribution to smog
- Numerous studies and real-world experience confirm that Sure-Seal EPDM's 465% elongation and weathering resistance result in superior hail damage resistance (UL 2218 Class 4 rating)
- EPDM is the most dimensionally stable heat resistant membrane and stays flexible even in extremely cold conditions, down to -40°F (-40°C): see flexibility/torsion DMA data
- Extruded manufacturing technology results in seamless sheets that are UL Classified and FM Approved
- Industry-leading 15-, 20-, 25-, and 30-year warranties are available
- Carlisle manufactures all the major components of a typical roofing system, including membrane, flashings, tapes, adhesives, sealants, insulations, and insulating cover boards

Carlisle's Factory-Applied Tape Seam Technology

The Factory-Applied Tape process results in a reliable seam with greater peel and shear strengths and no entrapped air bubbles. Consistent placement of the Factory-Applied Tape maximizes the splice area and results in a high-quality seam. Factory-Applied Tape has a shelf life of one year.

Productivity Boosting Features and Benefits:

- Pre-cleaned EPDM allows primer to be roller applied
- With Carlisle's Factory-Applied Tape, most of the labor to create seams between membrane panels is completed in a quality-controlled, state-of-the-art environment
- Factory-Applied Tape is available on all Sure-Seal Kleen membranes up to 10' (3 m) in width, providing the fastest way to complete a seam in today's roofing market

30-Year Warranty

Carlisle's 30-year Sure-Seal EPDM roof system features a thicker, more durable membrane complemented by enhanced details and accessories. Carlisle's 90-mil EPDM is used for 30-year warranty installations to provide long-term value and performance. In addition to 30 years of guaranteed protection, this system is available with warranties to cover hail, accidental punctures, and wind speeds up to 120 mph.

CARLISLE SYNTEC SYSTEMS

Sure-Seal EPDM
Kleen Non-Reinforced Membranes

Installation

Sure-Seal Kleen 45-mil (1.14 mm), 60-mil (1.52 mm), and 90-mil (2.29 mm) membranes are utilized primarily in Design A (Fully Adhered roofing systems).

Design A (Fully Adhered Roofing System): insulation is mechanically fastened or adhered to the roof deck. The substrate and membrane are coated with the appropriate Carlisle bonding adhesive. The membrane is then rolled into place and broomed down. To complete seams between two adjoining membrane panels, apply primer to the splice area in conjunction with Carlisle's Factory-Applied Tape. As an alternative, Carlisle's hand-applied SecurTAPE™ may be used.

Follow these steps for splicing in temperatures below 40°F (5°C):

1. Heat the primed area of the bottom membrane with a hot-air gun as the top sheet with Factory-Applied Tape is applied and pressed into place.
2. Prior to rolling the splice area with a 2"-wide steel hand roller, apply heat to the top side of the membrane with a hot-air gun. The heated surface should be hot to the touch. Be careful not to burn or blister the membrane.

Consult Carlisle specifications for complete installation information.

Precautions

- Use proper stacking procedures to ensure sufficient stability of the materials.
- Exercise caution when walking on wet membrane. Membranes are slippery when wet.
- Membranes with Factory-Applied Tape should not be exposed to prolonged jobsite storage temperatures in excess of 90°F (32°C), otherwise the shelf life of the tape may be affected.
- When membranes with Factory-Applied Tape are used in warm, sunny weather, shade the tape end of the rolls until ready to use.
- Factory-Applied Tape has a shelf life of one year.

LEED® Information

Pre-consumer Recycled Content	5%
Post-consumer Recycled Content	0%
Manufacturing Location	Carlisle, PA
Solar Reflectance Index	9

Typical Properties and Characteristics

Physical Property	Test Method	SPEC. (PASS)	Typical
Tolerance on Nominal Thickness, %	ASTM D412	±10	±10
Weight, lbs/ft² (kg/m²) 45-mil 60-mil 90-mil			 0.29 (1.43) 0.39 (1.91) 0.59 (2.86)
Tensile Strength, min, psi (MPa)	ASTM D412	1305 (9)	1600 (11.0)
Elongation, Ultimate, min, %	ASTM D412	300	465
Tear Strength, min, lbf/in (kN/m)	ASTM D624 (Die C)	150 (26.3)	200 (35.0)
Factory Seam Strength, min	Modified ASTM D816	Membrane Rupture	Membrane Rupture
Resistance to Heat Aging* Properties after 28 days @ 240°F (116°C) Tensile Strength, min, psi (MPa) Elongation, Ultimate, min, % Tear Strength, min, lbf/in (kN/m) Linear Dimensional Change, max, %	ASTM D573 ASTM D412 ASTM D412 ASTM D624 ASTM D1204	 1205 (8.3) 200 125 (21.9) ±1.0	 1450 (10.0) 280 215 (37.6) -0.5
Ozone Resistance* Condition after exposure to 100 pphm Ozone in air for 168 hours @ 104°F (40°C) Specimen is at 50% strain	ASTM D1149	No Cracks	No Cracks
Brittleness Temp., max, °F (°C)*	ASTM D746	-49 (-45)	-49 (-45)
Resistance to Water Absorption* After 7 days immersion @ 158°F (70°C) Change in mass, max, %	ASTM D471	+8, -2	+2.0
Water Vapor Permeance* Max, perms	ASTM E 96 (Proc. B or BW)	0.10	0.03
Flexibility/Torsion DMA	ASTM D5279-08	N/A	225 MPa @ -40°F
Fungi Resistance	ASTM G21	N/A	0 (No Growth)
Resistance to Outdoor (Ultraviolet) Weathering* Xenon-Arc, total radiant exposure at 0.70 W/m² irradiance, 80°C black panel temperature	ASTM G155	No Cracks No Crazing 7,560 kJ/m² 3,000 hrs	No Cracks No Crazing 41,480 kJ/m² 16,500 hrs
At 0.35 W/m² irradiance, 80°C black panel temperature		6,000 hrs	33,000 hrs

*Not a quality control test due to the time required for the test or the complexity of the test. However, all tests are run on a statistical basis to ensure overall long-term performance of the sheeting.

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.

Note: Sure-Seal Kleen Non-Reinforced EPDM Membrane meets or exceeds the minimum requirements set forth by ASTM D4637 for Type I non-reinforced EPDM single-ply roofing membranes.

800-479-6832 | P.O. Box 7000 | Carlisle, PA 17013 | Fax: 717-245-7053 | **www.carlislesyntec.com**

CONTRACTORS. INNOVATORS. OVER ACHIEVERS.
THE Samuels Group

WISCONSIN
311 Financial Way
Suite 300
Wausau, WI 54401
715.842.2222
715.848.8088

IOWA
317 6th Avenue
Suite 720
Des Moines, IA 50309
515.232.6443
515.288.0471

environments
www.samuelsgroup.net

PROJECT NAME: IMHI CROMWELL ROOF REPLACEMENT

MEETING LOCATION: INDEPENDENCE MENTAL HEALTH INSTITUTE (IMHI)

MEETING TYPE: PRE-BID MEETING/RFQ0920335013

DATE AND TIME: TUESDAY, AUGUST 27TH, 2019 @ 10:30 AM

Contact Person	Company	Phone Number	Email Address
BRIAN Polzin	Samuels Group	515-218 0227	bpolzin@samuelsgroup.net
Mike Cook	IMHI	563-608-6633	mcook@dhs.state.ia.us
GREG SMALLEY	ADVANCE BUILDERS	319 247-7178	GREG@IAROOFER.COM
Greg Herting	BHRC	319 277 9355	greg@blackhawkroof.com
MIKE NOCO	HOLTZOW ARCHITECTURE	563 506-4965	MICHAEL@HOLTZOW-ARCHITECTS.COM

DAS 9109.00 CROMWELL ROOF REPLACEMENT
RFQ #0920335013
IOWA MENTAL HEALTH INSTITUTE
INDEPENDENCE, IA 52641

BUILDING INFORMATION

OFFICE BUILDING - BUSINESS OCCUPANCY
SINGLE STORY BUILDING - TYPE VB CONSTRUCTION

OCCUPANCY:	VACANT
TOTAL GROSS BUILDING AREA	**44,000 SQ. FT.**

DESIGN CRITERIA

ULTIMATE WIND SPEED (Vult)	115 MPH
EXPOSURE	B
INTERNAL PRESSURE COEFFICIENT	+/- 0.18
BASIS OF DESIGN	FM-90

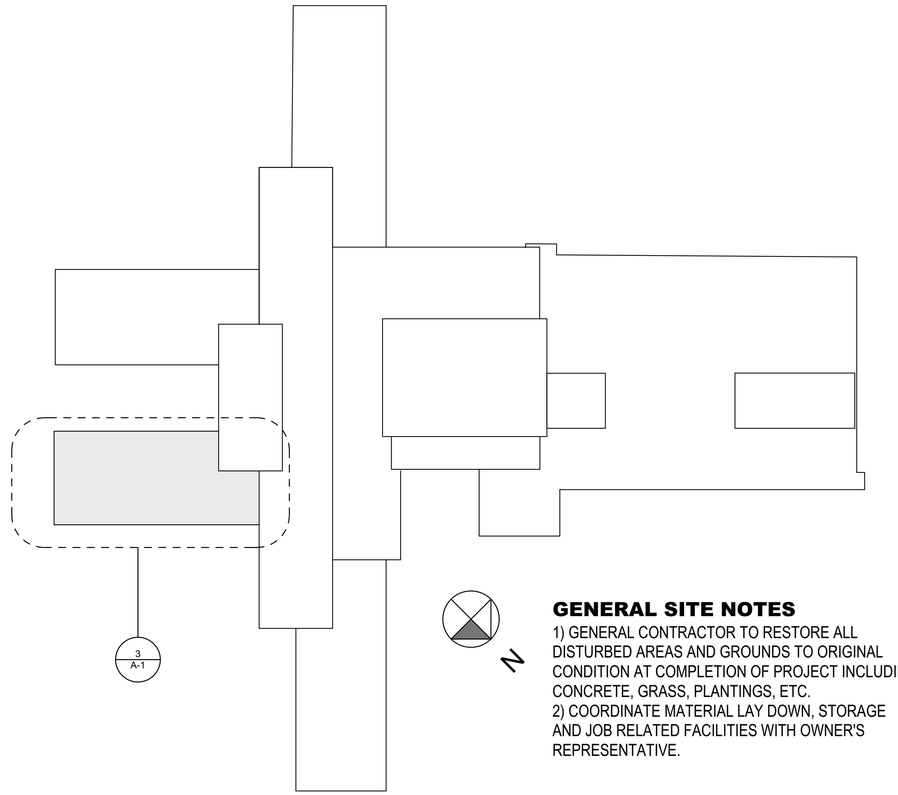
PROJECT DIRECTORY

OWNER
IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES (DAS)
109 EAST 13TH STREET
DES MOINES, IA 50319
OWNER'S REPRESENTATIVE: DOUGLAS CARPER
PHONE: 515.745.3244
EMAIL: douglas.carper@iowa.gov

CONSTRUCTION MANAGER
THE SAMUELS GROUP
317 6TH AVENUE SUITE 720
DES MOINES, IA 50309
PROJECT MANAGER: JERRY DEHNKE
PHONE: 515.661.7142
EMAIL: jdehnke@samuelsgroup.net

ARCHITECT
HORIZON ARCHITECTURE
3116 ALPINE COURT IOWA CITY IA 52245
PHONE: (563) 506-4965
CONTACT: MICHAEL NOLAN, AIA
EMAIL: MICHAEL@HORIZON-ARCHITECTURE.COM

SHEET INDEX	
ID	Name
C-1	COVER SHEET
1 D-1	DEMOLITION PLAN
1 A-1	ROOF PLAN
1 A-2	ROOF DETAILS



2 KEY PLAN
SCALE: 1" = 30'

0 30' 60'

GENERAL SITE NOTES
1) GENERAL CONTRACTOR TO RESTORE ALL DISTURBED AREAS AND GROUNDS TO ORIGINAL CONDITION AT COMPLETION OF PROJECT INCLUDING CONCRETE, GRASS, PLANTINGS, ETC.
2) COORDINATE MATERIAL LAY DOWN, STORAGE AND JOB RELATED FACILITIES WITH OWNER'S REPRESENTATIVE.

3 LOCATION KEY
NOT TO SCALE

GRAPHIC SYMBOLS

WINDOW MARKER — W01
SKYLIGHT MARKER — S01
DOOR IDENTIFIERS
DOOR IDENTIFIER (ELEVATIONS/SECTIONS) — D01.1
6" TYPICAL, UNLESSOTHERWISE NOTED
DOOR IDENTIFIER (PLANS) — D01.1

SECTION / DETAIL MARKER
INDICATES SECTION LOCATION ON SHEET
INDICATES SHEET ON WHICH DRAWING IS SHOWN

INTERIOR ELEVATION MARKER
INDICATES ELEVATION LOCATION ON SHEET
INDICATES SHEET ON WHICH ELEVATION IS SHOWN

ELEVATION / SECTION MARKER
INDICATES ELEVATION LOCATION ON SHEET
INDICATES SHEET ON WHICH DRAWING IS SHOWN

DETAIL / ENLARGED PLAN MARKER
INDICATES DETAIL LOCATION ON SHEET
INDICATES SHEET ON WHICH DETAIL IS SHOWN

SPACE DESIGNATION
OFFICE
003 +
1/A-201
SPACE NAME
SPACE NUMBER
ENLARGED PLAN REFERENCE

WALL TYPE MARKER
(SEE PARTITION LEGEND)
XC

KEYNOTE IDENTIFIER
1.01.01 — KEYNOTE: SEE KEYNOTE LEGEND ON DRAWING'S LAYOUT
1.01.01 — ALTERNATE KEYNOTE: SEE KEYNOTE LEGEND ON DRAWING'S LAYOUT

ABBREVIATIONS

A.D.	AREA DRAIN	DN	DOWN	HORIZ.	HORIZONTAL	PL. LAM	PLASTIC LAMINATE	U.L.	UNDERWRITERS LABORATORIES
ABV.	ABOVE	DWG.	DRAWING	HT.	HEIGHT	QTY.	QUANTITY	VEST.	VESTIBULE
ADA	ACCESSIBLE / AMERICANS WITH DISABILITIES ACT	DEPT.	DEPARTMENT	INSUL.	INSULATION / INSULATING	R	RISER	V.C.T.	VINYL COMPOSITION TILE
		DBL.	DOUBLE	I.D.	INSIDE DIAMETER	R.W.C.	RAIN WATER CONDUCTOR	W	WITH
ADJ.	ADJUSTABLE	DIM.	DIMENSION	INCAND.	INCANDESCENT	REINF.	REINFORCING / REINFORCED	W.C.	WATER CLOSET
A.o.R.	AREA OF REFUGE	DR.	DOOR	JAN.	JANITOR	REQ.	REQUIRED	WD	WOOD
ALUM.	ALUMINUM	EXIST.	EXISTING	JT.	JOINT	R.O.	ROUGH OPENING		
ALT.	ALTERNATE	EQ.	EQUAL	LBS.	POUNDS	REV.	REVISED / REVISION	&	AND
A.F.F.	ABOVE FINISHED FLOOR	E.C.	ELECTRICAL CONTRACTOR	LAV.	LAVATORY	REFL.	REFLECTED	@	AT
AC.	ACOUSTIC / ACOUSTICAL	EL.	ELEVATION	LAM.	LAMINATE	REC.	RECESSED	±	PLUS OR MINUS
A.F.	ALUMINUM FACE	ELEV.	ELEVATOR	L.P.	LOW POINT	RAD.	RADIUS	°	DEGREE
APPX.	APPROXIMATE / APPROXIMATELY	ELEC.	ELECTRIC / ELECTRICAL	MAX.	MAXIMUM	S.S.	STAINLESS STEEL	∠	ANGLE
		EXP.	EXPANSION	MFR.	MANUFACTURER / MANUFACTURED	ST.	STREET	[	CHANNEL
BD.	BOARD	EXT.	EXTERIOR	MTL.	METAL	SIM.	SIMILAR	#	NUMBER
BLK.	BLOCK / BLOCKING	EA.	EACH	MIN.	MINIMUM	STL.	STEEL	□	SQUARE
BLDG.	BUILDING	F.D.	FLOOR DRAIN	MIRR.	MIRRORED	SQ.	SQUARE	Ø	ROUND / DIAMETER
B.O.	BOTTOM OF	F.E.	FIRE EXTINGUISHER	MTD.	MOUNTED	SAN.	SANITARY	℄ / C.L.	CENTER LINE
B.O.S.	BOTTOM OF STEEL	F.E.C.	FIRE EXTINGUISHER CABINET	M.O.	MASONRY OPENING	SUSP.	SUSPENDED	// PL.	PLATE
CAB.	CABINET	FIN.	FINISH / FINISHED	MISC.	MISCELLANEOUS	STD.	STANDARD	⊓	U-BAR
C.C.	CENTER-TO-CENTER	FLR.	FLOOR	MECH.	MECHANICAL	SPEC.	SPECIFICATION	L.	LEG-BAR
CLG.	CEILING	F.O.	FACE OF	N.I.C.	NOT IN CONTRACT	TEL.	TELEPHONE		
CLOS.	CLOSET	FT.	FEET / FOOT	NO.	NUMBER	T.O.	TOP OF		
C.M.	CONSTRUCTION MANAGER	FLUOR.	FLUORESCENT	N.T.S.	NOT TO SCALE	T.O.S.	TOP OF STEEL		
CMU	CONCRETE MASONRY UNIT	GYP.	GYPSUM	O.C.	ON CENTER	T.O.W.	TOP OF WALL		
C.J.	CONTROL JOINT	GALV.	GALVANIZED	O.D.	OUTSIDE DIAMETER	TOIL.	TOILET		
CONC.	CONCRETE	GA.	GAUGE	OPP.	OPPOSITE	TYP.	TYPICAL		
CORR.	CORRIDOR	G.C.	GENERAL CONTRACTOR	OPG.	OPENING	THK.	THICK		
COL.	COLUMN	HR.	HOUR	P.C.	PLUMBING CONTRACTOR	TMP.	TEMPERED		
CONT.	CONTINUE / CONTINUOUS	H.P.	HIGH POINT	P.F.	PANEL FACE	T.S.G.	TEMPERED SAFETY GLASS		
CONTR.	CONTRACTOR	HVAC	HEAT, VENTILATION, AIR-CONDITIONING	PR.	PAIR	U.O.N.	UNLESS OTHERWISE NOTED		
DIA.	DIAMETER			P.T.	PRESSURE TREATED				
DTL.	DETAIL								

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

ISSUED FOR BIDDING AND CONSTRUCTION

horizon. original. architecture.

DAS 9109.00 CROMWELL ROOF REPLACEMENT
RFQ #0920335013
IOWA MENTAL HEALTH INSTITUTE
INDEPENDENCE, IA 52641

MARK	DATE	DESCRIPTION
1	8/29/2019	BIDDING ADDENDUM 1

PROJECT NO: #Pln
DATE: 8/16/2019
DRAWN BY: MSN
COPYRIGHT

SHEET TITLE
COVER SHEET

C-1

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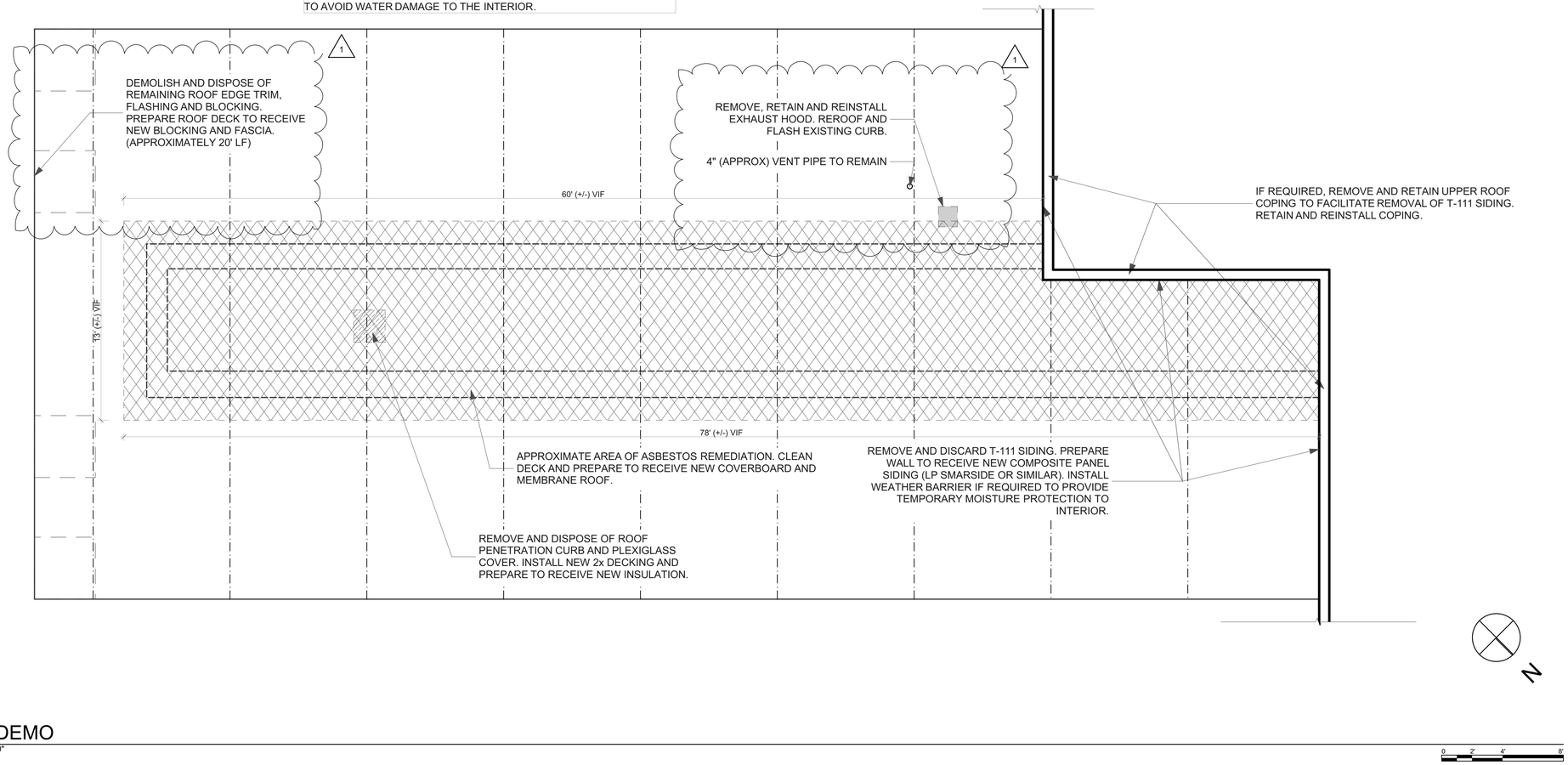
GENERAL DEMOLITION NOTES

1) REMOVE AND DISPOSE OF ALL REMAINING ROOF MEMBRANE, DRIP EDGE, FLASHING AND DAMAGED ROOF EDGE BLOCKING.
2) REMOVE AND DISPOSE OF ALL INSULATION FASTENERS AND PLATES.
3) REMOVE AND DISPOSE OF ALL REMAINING FIBERBOARD COVERBOARD
4) PREPARE ROOF SURFACE TO REMAIN TO RECEIVE NEW COVERBOARD AND MEMBRANE.
5) IF REQUIRED, COMPLETE DEMOLITION IN PHASES. ENSURE TEMPORARY COVER REMAINS IN PLACE THROUGHOUT CONSTRUCTION TO AVOID WATER DAMAGE TO THE INTERIOR.



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

0 2' 4' 8'

ISSUED FOR BIDDING AND CONSTRUCTION

horizon. original. architecture.

DAS 9109.00 CROMWELL ROOF REPLACEMENT
RFQ #0920335013

IOWA MENTAL HEALTH INSTITUTE
INDEPENCENCE, IA 52641

MARK	DATE	DESCRIPTION
1	8/29/2019	BIDDING ADDENDUM 1

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SHEET TITLE
DEMOLITION PLAN

D-1

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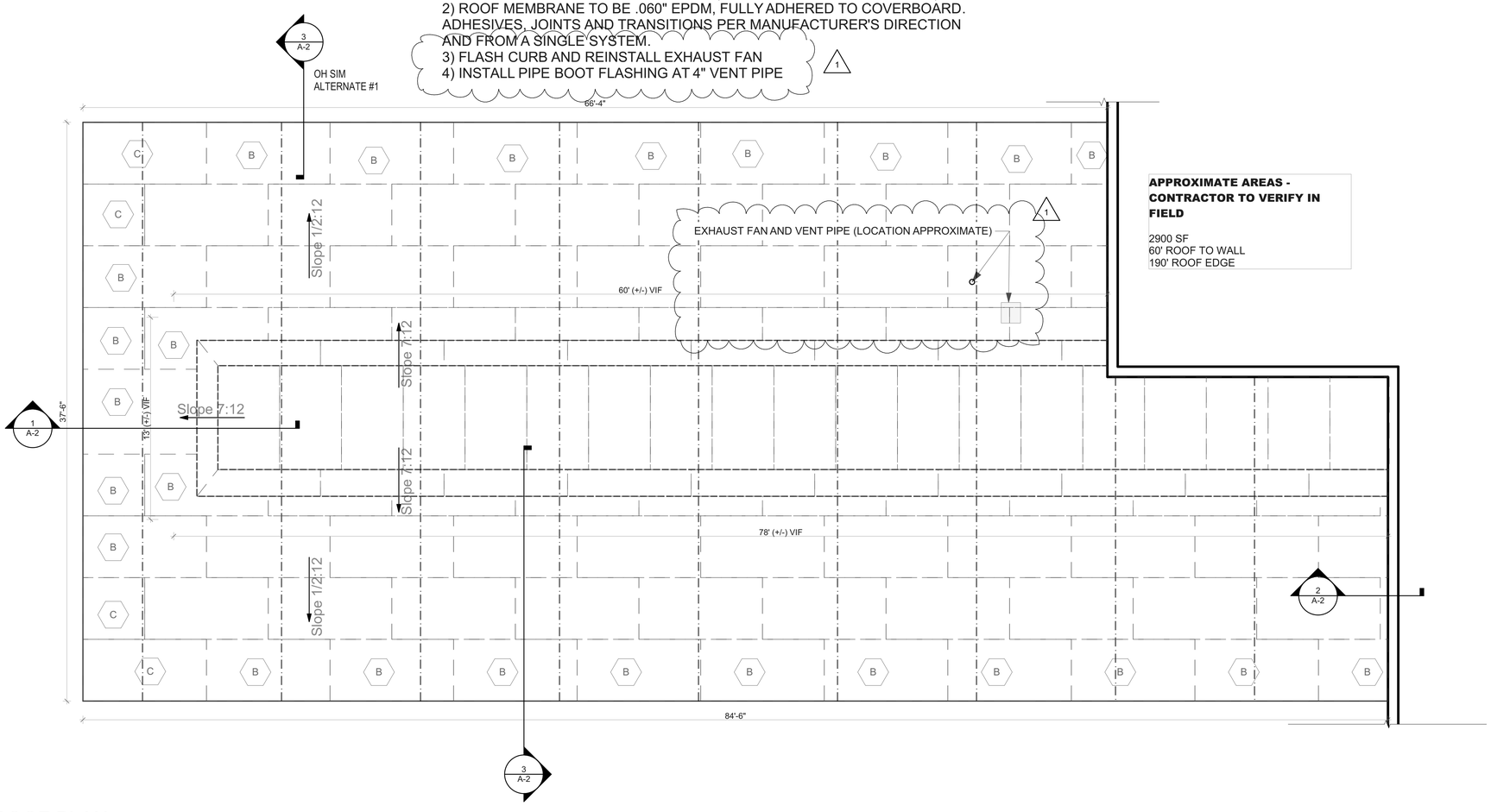
INITIALS _____

GENERAL NOTES

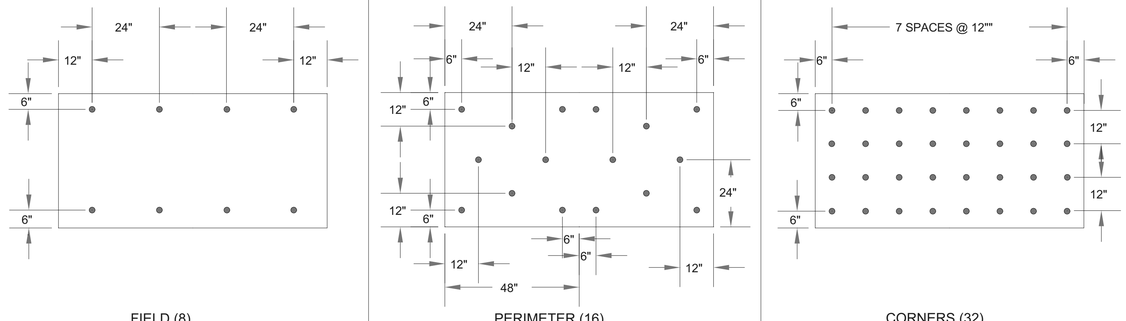
1) ROOF TO BE MECHANICALLY FASTENED FIBERGLASS REINFORCED GYPSUM COVERBOARD (1/2" DENSGLASS OR SIMILAR) FASTENED WITH 3" PLATES AND 4" SCREWS OR AS REQUIRED TO ENSURE 1" MIN EMBEDMENT IN WOOD DECK.
2) REFER TO FASTENING PATTERN KEY. ANY PANELS NOT SPECIFICALLY KEYED TO BE FASTENING PATTERN "A" (8 FASTENERS PER 4'X8' SHEET).
2) ROOF MEMBRANE TO BE .060" EPDM, FULLY ADHERED TO COVERBOARD. ADHESIVES, JOINTS AND TRANSITIONS PER MANUFACTURER'S DIRECTION AND FROM A SINGLE SYSTEM.
3) FLASH CURB AND REINSTALL EXHAUST FAN
4) INSTALL PIPE BOOT FLASHING AT 4" VENT PIPE



APPROXIMATE AREAS - CONTRACTOR TO VERIFY IN FIELD

2900 SF
60' ROOF TO WALL
190' ROOF EDGE

3 ROOF PLAN
SCALE: 1/4" = 1'-0"



FIELD (8)
1 FASTENER PER EVERY 4 SQ. FT.
Ⓐ

PERIMETER (16)
1 FASTENER PER EVERY 2 SQ. FT.
Ⓑ

CORNERS (32)
1 FASTENER PER EVERY 1 SQ. FT.
Ⓒ

4 FASTENER LAYOUTS
SCALE: 1/2" = 1'-0"

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SHEET TITLE
ROOF PLAN

A-1

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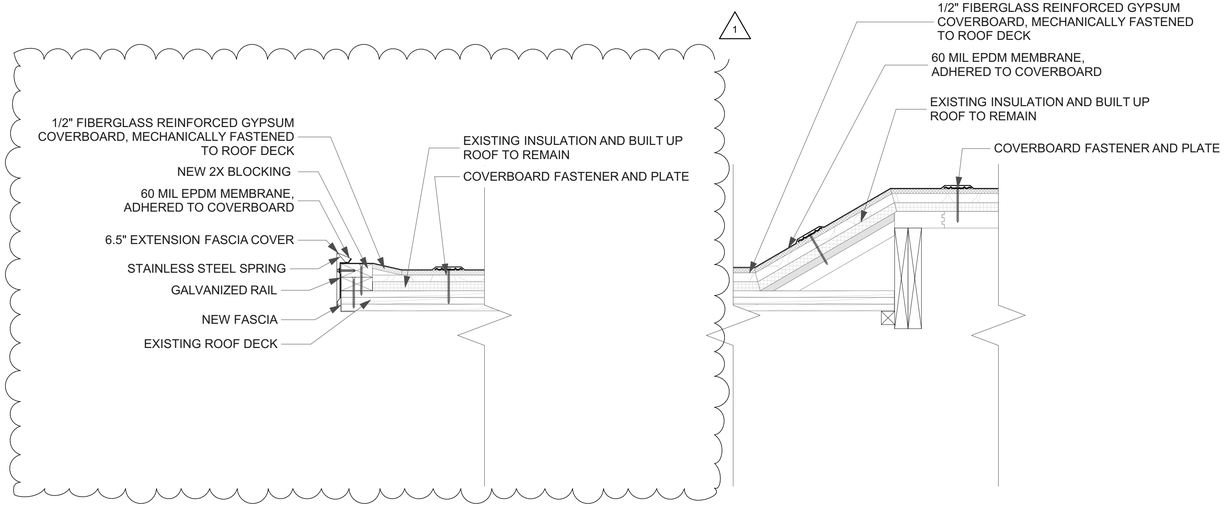
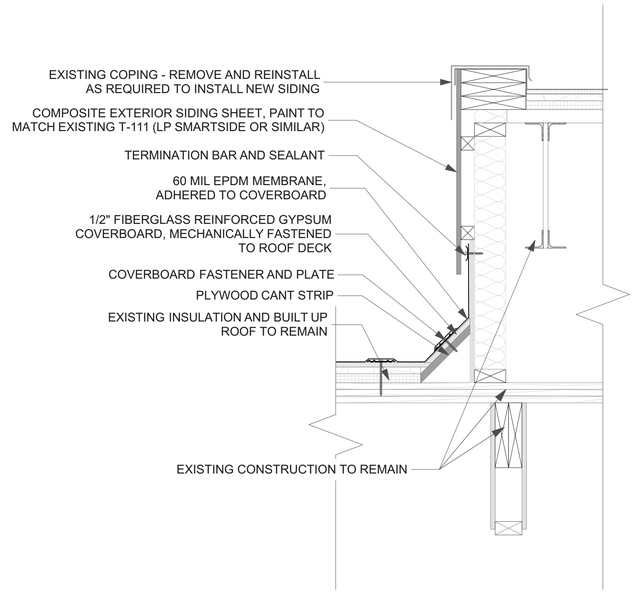
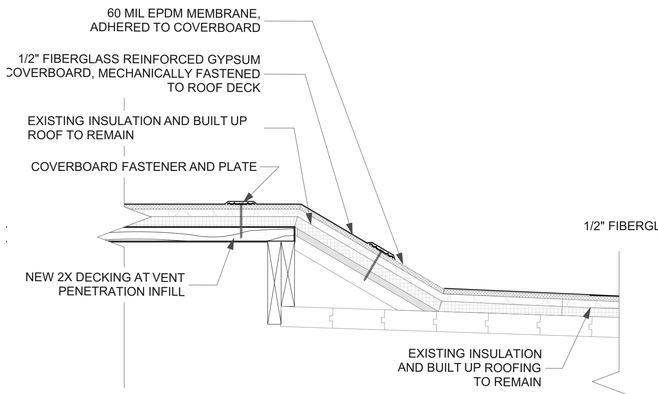
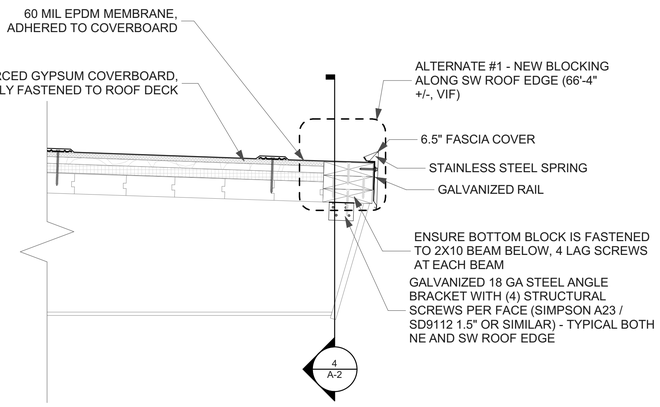


1 ROOF EDGE DETAILS - PARAPET
SCALE: 1 1/2"= 1'-0"

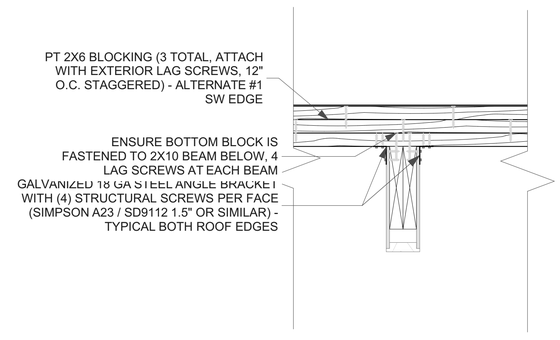


2 ROOF WALL INTERSECTION DETAIL
SCALE: 1 1/2"= 1'-0"





3 ROOF EDGE DETAIL - DRIP EDGE
SCALE: 1 1/2"= 1'-0"



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

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SHEET TITLE
ROOF DETAILS

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