



ADDENDUM #1

Client:	Lucas County Commissioners	Project:	2014 Roof Replacement
Facility:	County Courthouse	Project No.:	T14084.RFG4
Address:	700 Adams St. Toledo, OH 43604	Date:	8-5-14

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents, dated June 2014. Acknowledge receipt of this addendum in the space provided on the Bid Form. Failure to do so may subject bidder to disqualification.

This addendum consists of 13 page(s).

- Item #1:** For Reference: Attached is the Pre-Bid Sign-In Sheet with contact information from all contractors that attended the pre-bid meeting.
- Item #2:** For Clarification: Coordinate any return visits, for field verifications, etc. through Tom Dodds; 419-779-6647, tdodds@co.lucas.oh.us.
- Item #3:** For Clarification: Reference Project Manual, Drawings and Details, Detail D-4 Membrane Termination at Sloped Tile Roof; Remove tile courses necessary to achieve minimum of 8 inches of flashing height from finished roof surface. Existing perimeter metal counterflashings shall be reused.
- Item #4:** For Clarification: Reference Project Manual, Drawings and Details, Detail D-5 Gravel Stop Fascia and Drain Detail; Provide min 1x6 wood blocking secured along the outside perimeter of the built-in gutter. Provide tapered insulation edge stripping for a smooth transition.
- Item #5:** For Clarification: Reference Project Manual, Drawings and Details, Detail D-8 Termination Bar Detail; All screen walls shall be flashed and terminated per the referenced detail, and new sheet metal slip insert counterflashing shall be installed to cover the termination bar. Cut the base of the existing fiberglass panels as required.
- Item #6:** For Clarification: Reference Project Manual, Drawings and Details, Detail D-14 Field Fabricated Single-Ply Penetration Flashing. All screen wall columns shall be field wrapped per the referenced detail. Cut the base of the existing fiberglass panels as required. No rain collars are required at these locations.
- Item #7:** For Revision: Reference Project Manual, Section 00010 Table of Contents; REPLACE with the revised section appended to this Addendum.
- Item #8:** For Revision: Reference Project Manual, Section 01100 Summary of Work, Page 2, Paragraph 8. Plumbing; REVISE Sentence "a" as follows; Install (1) new roof drain bowl and associated piping at northwest corner of Roof Area E. Piping shall penetrate west roof level wall and drain onto lower roof Area A.

- Item #9:** For Revision: Reference Project Manual, Section 01100 Summary of Work, Page 2, Paragraph 8. Plumbing; REVISE Sentence “d” as follows; Install threaded cast iron pipe nozzle at the end of the new penetrating drain pipe at the west roof level elevation facing Roof Area A.
- Item #10:** For Revision; Reference Project Manual, Section 07620 Sheet Metal Flashing and Trim; REPLACE with the revised section appended to this Addendum.
- Item #11:** For Revision: Reference Project Manual, Drawings and Details, Roof Replacement Plan; REPLACE with the revised drawing appended to this Addendum.
- Item #12:** For Revision: Reference Project Manual, Drawings and Details, Detail D-6 Base-Flashing for Non-Wall Supported Deck; REPLACE with the revised detail appended to this Addendum.
- Item #13:** For Addition: Reference Project Manual, Section 01100 Summary of Work, Page 3, Paragraph 9. Miscellaneous; ADD Sentence; c. Walkpads shall be provided at all roof access points.
- Item #14:** For Addition: Reference Project Manual, Section 01100 Summary of Work, Page 3, Paragraph 9. Miscellaneous; ADD Sentence; d. Walkpad path shall be provided from access ladder to mechanical room hatch at northeast corner of Area E.
- Item #15:** For Addition: Reference Project Manual, Drawings and Details: ADD Detail D-17 appended to this Addendum.



StructureTec Representative



StructureTec Representative

END OF ADDENDUM

SECTION 00010

TABLE OF CONTENTS

BIDDING REQUIREMENTS

00010 Table of Contents – (Rev. Addendum #1)

DIVISION 01 - GENERAL REQUIREMENTS

01100 Summary of Work
01210 Allowances
01270 Unit Prices
01290 Payment Procedures
01310 Project Meetings
01330 Submittal Procedures
01430 Quality Assurance
01500 Temporary Facilities and Controls
01630 Product Substitution Procedures
01660 Product Storage and Handling Requirements
01780 Project Closeout and Warranties
01785 Operating and Maintenance Data

DIVISION 02 - SITE CONSTRUCTION

02220 Selective Demolition
02900 Landscaping

DIVISION 06 - WOOD AND PLASTICS

06100 Rough Carpentry

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

07220 Roof and Deck Insulation
07531 Adhered EPDM Roofing
07620 Sheet Metal Flashing and Trim – (Rev. Addendum #1)
07790 Fastening Systems
07920 Joint Sealants

DIVISION 15 - MECHANICAL

15160 Roof Drains

LIST OF DRAWINGS AND DETAILS

<u>Drawing #</u>	<u>Title</u>
RP-1	2014 Roof Replacement Plan – County Courthouse – (Rev. Addendum #1)

<u>Detail #</u>	<u>Title</u>
D-1	Construction Profile – Wood Deck One Course Cover Board and Fully Adhered Single-Ply Roofing
D-2	Securement: Cover Board Fastener Pattern
D-3	Wood Block Fastening Pattern
D-4	Membrane Termination at Sloped Tile Roof
D-5	Gravel Stop Fascia System and Drain Detail
D-6	Gravel Stop Fascia - (Rev. Addendum #1)
D-7	Two-Piece Reglet Counterflashing
D-8	Termination Bar Detail
D-9	Roof Drain
D-10	Curb with Removal Cap
D-11	Curb with Non-Removal Cap
D-12	Seam Cross Section with Cover Strip
D-13	Walkway Pad Installation
D-14	Field Fabricated Single-Ply Penetration Flashing
D-15	Pre-Fabricated Single-Ply Penetration Flashing
D-16	Flashing at Heated Stack Penetration
D-17	Drip Edge Fascia – (Added Addendum #1)

END OF SECTION

SECTION 07620

SHEET METAL FLASHING AND TRIM

PART 1 - GENERAL

1.01 SUMMARY

A. SECTION INCLUDES:

1. Furnish all labor, materials, equipment and supervision to install in accordance with the specifications and drawings all items listed, but not limited to:
 - a. Shop Fabricated Fascia components
 - b. Shop Fabricated Sheet Metal Flashing components
 - c. Field of the Roof Sheet Metal components

1.02 REFERENCES

- A. ASTM A 666 - AUSTENITIC STAINLESS STEEL SHEET, STRIP, PLATE, AND FLAT BAR.
- B. ASTM B 32 - SPECIFICATION FOR SOLDER METAL.
- C. SMACNA (SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION) ARCHITECTURAL SHEET METAL MANUAL, LATEST EDITION.
- D. NRCA (NATIONAL ROOFING CONTRACTORS ASSOCIATION) - ROOFING AND WATERPROOFING MANUAL, LATEST EDITION.
- E. ASTM A 653/A0653M - STEEL SHEET, ZINC COATED (GALVANIZED) OF ZINC-IRON ALLOY-COATED BY THE HOT-DIP PROCESS.
- F. ASTM B 209/B 209M - SPECIFICATION FOR ALUMINUM AND ALUMINUM-ALLOY SHEET AND PLATE
- G. ANSI/SPRI ES-1, WIND DESIGN STANDARD FOR EDGE SYSTEMS USED WITH LOW-SLOPE ROOFING SYSTEMS.

1.03 PERFORMANCE REQUIREMENTS

- A. GENERAL PERFORMANCE: INSTALLED SHEET METAL FLASHINGS SHALL WITHSTAND SPECIFIED UPLIFT PRESSURES, THERMALLY INDUCED MOVEMENT, AND EXPOSURE TO WEATHER WITHOUT FAILURE DUE TO DEFECTIVE MANUFACTURE, FABRICATION, INSTALLATION, OR OTHER DEFECTS IN CONSTRUCTION.
- B. MATERIAL COMPATIBILITY: PROVIDE SHEET METAL MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER UNDER CONDITIONS OF SERVICE AND APPLICATION REQUIRED..

1.04 SUBMITTALS**A. PRODUCT DATA:**

1. Submit Manufacturer's latest descriptive literature for each type of sheet metal materials as specified.

B. MATERIALS LIST:

1. List of materials proposed to be furnished and installed under this portion of the Work.
2. This shall in no way be construed as permitting substitution of materials for those specified.

C. SHOP DRAWINGS: FOR ROOFING SYSTEM. INCLUDE PLANS, ELEVATIONS, SECTIONS, DETAILS, AND ATTACHMENTS TO OTHER WORK.

1. Metal profiles and attachment methods.
2. Identification of materials, thickness, weight and finish for each item, and locations for each to be installed.

D. MANUFACTURER'S INFORMATION:

1. Installation Instructions: Submit special procedures for perimeter conditions requiring special attention.
2. Manufacturer's Certificate: Certify submitted products meet or exceed specified requirements.

1.05 QUALITY ASSURANCE

A. MANUFACTURER: COMPANY SPECIALIZING IN MANUFACTURING PRODUCTS SPECIFIED IN THIS SECTION WITH A MINIMUM OF TEN YEARS DOCUMENTED EXPERIENCE FOR SHEET METAL SYSTEM SPECIFIED HEREIN.

B. APPLICATOR: COMPANY SPECIALIZING IN PERFORMING WORK OF THIS SECTION WITH MINIMUM OF FIVE YEARS DOCUMENTED IN-SERVICE EXPERIENCE APPROVED, AUTHORIZED, OR LICENSED BY MANUFACTURER TO INSTALL MANUFACTURER'S PRODUCT AND THAT IS ELIGIBLE TO RECEIVE MANUFACTURER'S WARRANTY.

1.06 DELIVERY, STORAGE, AND HANDLING

A. STACK MATERIAL TO PREVENT TWISTING, BENDING, ABRASION, AND TO PROVIDE VENTILATION. SLOPE METAL SHEETS TO ENSURE DRAINAGE.

B. PREVENT CONTACT WITH MATERIALS CAUSING DISCOLORATION OR STAINING.

1.07 COORDINATION

A. COORDINATE WORK OF THIS SECTION WITH INTERFACING AND ADJOINING WORK FOR PROPER SEQUENCING OF EACH INSTALLATION.

- B. COORDINATE WITH WORK OF OTHER SECTIONS FOR INSTALLING RECESSED FLASHING REGLETS.

PART 2 – PRODUCTS

2.01 SHOP FABRICATED METAL COMPONENTS

A. GENERAL FABRICATION

- 1. Form all sheet metal pieces in longest practical lengths.
- 2. Hem exposed edges on underside of all perimeter systems every six (6) feet and all ends; miter and seam corners.

B. FASCIA SYSTEMS

- 1. Cleat/Cant Dam
 - a. 22 gage galvanized, face and top fastened.
 - b. Minimum 4 inch flange and 3/4 inch to 1 inch cleat return. Vertical face shall extend below perimeter wood blocking by a minimum of one (1) inch.
- 2. Fascia Metal
 - a. Pre-Finished Galvanized Steel Sheet: ASTM A 924/A 924M, Grade A, 24 gage core steel, shop pre-coated with fluoropolymer (Kynar/Hylar) coating; color as selected by Owner from manufacturer's standard colors.
 - b. Mitered Corners: Solid inside and outside fabricated corners are required to ensure complete coverage with sheet metal.

C. COUNTERFLASHING

- 1. Reglet and Slip Insert Counterflashing
 - a. Materials
 - 1) Pre-Finished Galvanized Steel Sheet: ASTM A 924/A 924M, Grade A, 24 gage core steel, shop pre-coated with fluoropolymer (Kynar/Hylar) coating; color as selected by Owner from manufacturer's standard colors.

- D. METAL COMPONENTS USED FOR FLANGES, RAIN COLLARS AND PENETRATION POCKETS WITHIN THE FIELD OF ROOF AS SPECIFIED SHALL BE: STAINLESS STEEL: ASTM A 666, TYPE 304, SOFT TEMPER, 24 GAGE THICK; SMOOTH FINISH.

2.02 ACCESSORIES

- A. SECONDARY WATERPROOFING MEMBRANE: ICE & WATER SHIELD BY GRACE CONSTRUCTION PRODUCTS.
- B. REFER TO SECTION 07790 – FASTENING SYSTEMS FOR SPECIFIC FASTENER REQUIREMENTS FOR THE SUBSTRATE CONDITIONS ENCOUNTERED.

- C. SOLDER: ASTM B 32; TYPE SUITABLE FOR APPLICATION AND MATERIAL BEING SOLDERED WITH COMPATIBLE FLUX.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. VERIFY ROOF OPENINGS, CURBS, BLOCKING PIPES, SLEEVES, DUCTS, AND VENTS THROUGH ROOF ARE SOLIDLY SET, REGLETS IN PLACE, AND NAILING STRIPS LOCATED.
- B. VERIFY ROOFING TERMINATIONS AND BASE FLASHINGS ARE IN PLACE, SEALED, AND SECURE.
- C. VERIFY SURFACES TO RECEIVE SHEET METAL FLASHINGS ARE CLEAN AND IN SOUND CONDITION.
- D. EXAMINE SUBSTRATES AND CONDITIONS UNDER WHICH SHEET METAL FLASHING AND TRIM ARE TO BE INSTALLED AND VERIFY THAT WORK WILL PROPERLY COMMENCE. DO NOT PROCEED WITH INSTALLATION UNTIL UNSATISFACTORY CONDITIONS ARE CORRECT.

3.02 GENERAL REQUIREMENTS

- A. EXAMINE THE AREAS OF WORK AND VERIFY THAT EXISTING CONDITIONS ARE ACCEPTABLE FOR THE SPECIFIED INSTALLATION PROCEDURES. REPORT, IN WRITING, ADVERSE CONDITIONS THAT COULD AFFECT THE PERFORMANCE OF THE WORK WITHIN FIVE CALENDAR DAYS. ABSENCE OF WRITTEN NOTIFICATION WILL INDICATE THE CONTRACTOR'S ACCEPTANCE OF EXISTING PROJECT CONDITIONS.
 - 1. Verify surfaces to receive sheet metal are clean and in sound condition.
 - 2. Examine substrates and conditions under which sheet metal components are to be installed and verify that Work will properly commence.
- B. MEASUREMENTS: BEFORE ORDERING MATERIALS OR PERFORMING WORK, OBTAIN AND VERIFY ALL MEASUREMENTS AT THE BUILDING SITE. EXACT MEASUREMENTS ARE THE CONTRACTOR'S RESPONSIBILITY.
- C. PREPARATION:
 - 1. Secure flashings in place using specified fasteners.
 - 2. Fit flashings tight in place. Make corners square, surfaces true and straight in planes, and lines accurate to profiles.
 - 3. Seal metal joints watertight.
- D. MANUFACTURER'S RECOMMENDATIONS: COMPLY WITH THE MANUFACTURER'S WRITTEN APPROVED INSTALLATION INSTRUCTIONS AND WITH ANY GOVERNING REGULATIONS AND INDUSTRY STANDARDS APPLICABLE TO THE WORK.

- E. FORM SHEET METAL ON A BENDING BREAK. PERFORM SHAPING, TRIMMING, AND HAND SEAMING IN THE SHOP AS FAR AS PRACTICABLE, WITH THE PROPER SHEET-METAL WORKING TOOLS. MAKE THE ANGLE OF THE BENDS AND THE FOLDS FOR INTERLOCKING THE METAL WITH FULL REGARD FOR EXPANSION AND CONTRACTION, TO AVOID BUCKLING OR OTHER DEFORMATION IN SERVICE. ALL LINES SHALL BE STRAIGHT AND CRISP EXCEPT WHERE THICKNESS OF METAL DICTATES RADIUS BEND, AND ALL EXPOSED EDGES SHALL BE HEMMED 1/2 INCH MINIMUM.
- F. SOLDERING - STAINLESS STEEL FLASHING: PRIOR TO SOLDERING, MECHANICALLY CLEAN ALL METAL TO BE SOLDERED WITH STEEL WOOL OR BY OTHER ACCEPTABLE MEANS, APPLY FLUX, AND PRE-TIN. FOR LEAD COATED COPPER, REMOVE LEAD COATING BY SANDING OR GRINDING TO PRODUCE BRIGHT RED SURFACE PRIOR TO APPLYING FLUX AND PRE-TINNING. CLEAN METAL AGAIN IF IT IS NOT SOLDERED ON THE SAME WORK DAY. PERFORM ALL SOLDERING WITH WELL HEATED HEAVY (10 POUNDS PER PAIR) IRONS WITH TINNED CLEAN BLUNT TIPS. DO NOT USE TORCHES. APPLY ENOUGH HEAT TO SWEAT THE SOLDER THROUGH THE FULL WIDTH OF THE SEAM. CLOSE CLINCH LOCK SEAMS GENTLY WITH A BLOCK OF WOOD AND Mallet, THEN FLUX AND SHOW AT LEAST ONE FULL INCH OF CONTINUOUS SOLDER. WHENEVER POSSIBLE, DO ALL SOLDERING IN FLAT POSITION. ALL SLOPED AND VERTICAL SEAMS SHALL BE LACED AND SOLDERED A SECOND TIME. WIPE AND WASH CLEAN SOLDERED JOINTS TO REMOVE ALL TRACES OF ACID FROM THE FLUX AFTER THE JOINTS ARE MADE.
- G. PREFABRICATED TRANSITIONS/TERMINATIONS:
1. Provide pre-fabricated corner pieces with joints locked, riveted, and soldered watertight. Space rivets at 1 inch on-center in staggered pattern unless otherwise indicated.

3.03 INSTALLATION OF SHOP FABRICATED METAL COMPONENTS

A. FASCIA SYSTEM

1. Prior to setting and nailing horizontal flanges of metal edge, install a layer of specified butyl based sealant between substrate blocking and metal flange.
2. Fabricate and install metal edge detail with formed drip edge incorporating a 3/4 inch lock.
 - a. Flange Width: Four inches (minimum)
 - b. Rise: 3/4 inch x 45 degrees
3. Position cleat square at perimeter edges and secure vertically to substrate using specified fasteners spaced no greater than six (6) inches on center.
4. Install fascia system over fully secured cleat. Secure fascia bottom with a 3/4 inch lock. Gap fascia ends 1/2 inch; overlap cleat joints one inch. Cover fascia ends with enclosure profiled to slide through gap between fascia joints.
5. Install mitered and sealed corners.
6. Nail interior portion of fascia flange to wood blocking three inches o.c., staggered.

B. TERMINATION BAR/COUNTERFLASHING (WALL TRANSITIONS)

1. Install termination bar across top edge of base flashing assembly.
2. Mechanical securement shall be on six inch centers.
3. Wipe top of bar clean with metal cleaner. Prime metal surface to receive sealant with metal primer. Allow to dry.
4. Apply approved elastomeric sealant to the top of pressure bar. Provide watershed. Tool neatly.
5. Install counterflashing detail over top of pressure bar in conformance to counterflashing detail, and approved manufacturer's specification requirements.
6. Insert flashings into reglets to form tight fit. Secure in place with lead wedges. Pack remaining spaces with lead wool. Seal flashings into reglets with sealant.

C. ROUND PROTRUSIONS

1. Round protrusions will be flashed with a two piece flange and umbrella metal flashing.
2. Flanges and umbrellas shall be constructed of stainless steel.
3. All seams and splices shall be soldered. Flanges that will not slide over the top of the pipe will require job site soldering. Clean and prime top and bottom sides of flanges.
4. Mechanically fasten flashing flange to treated wood nailers beneath.
5. Set umbrella and seal the umbrella with two side Butyl tape on inside flange/face.

NOTE: On "hot" stack projections, heat resistant gasket shall be installed in lieu of Butyl tape.

6. Secure clamp at umbrella. Apply a heavy cove bead of elastomeric sealant to the upper leading edge. Tool in place.
7. At small pipes:
 - a. Fabricate and install stainless steel umbrella with minimum one inch flange/face.
 - b. Wipe clean top of umbrella and projection with metal cleaner.
 - c. Apply elastomeric sealant to the stack sheet metal interface.
 - d. Provide watershed. Tool neatly.
8. Prime top of flange with asphalt primer, as required.

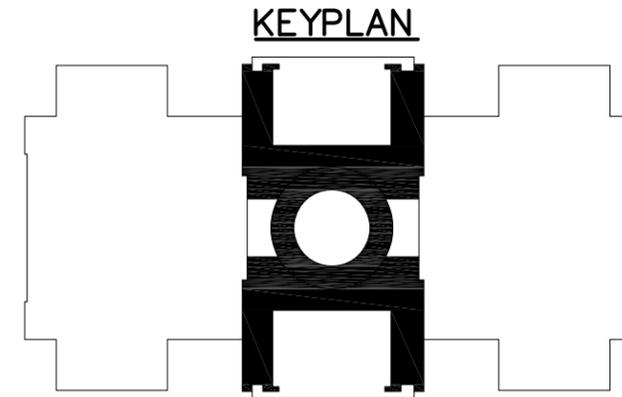
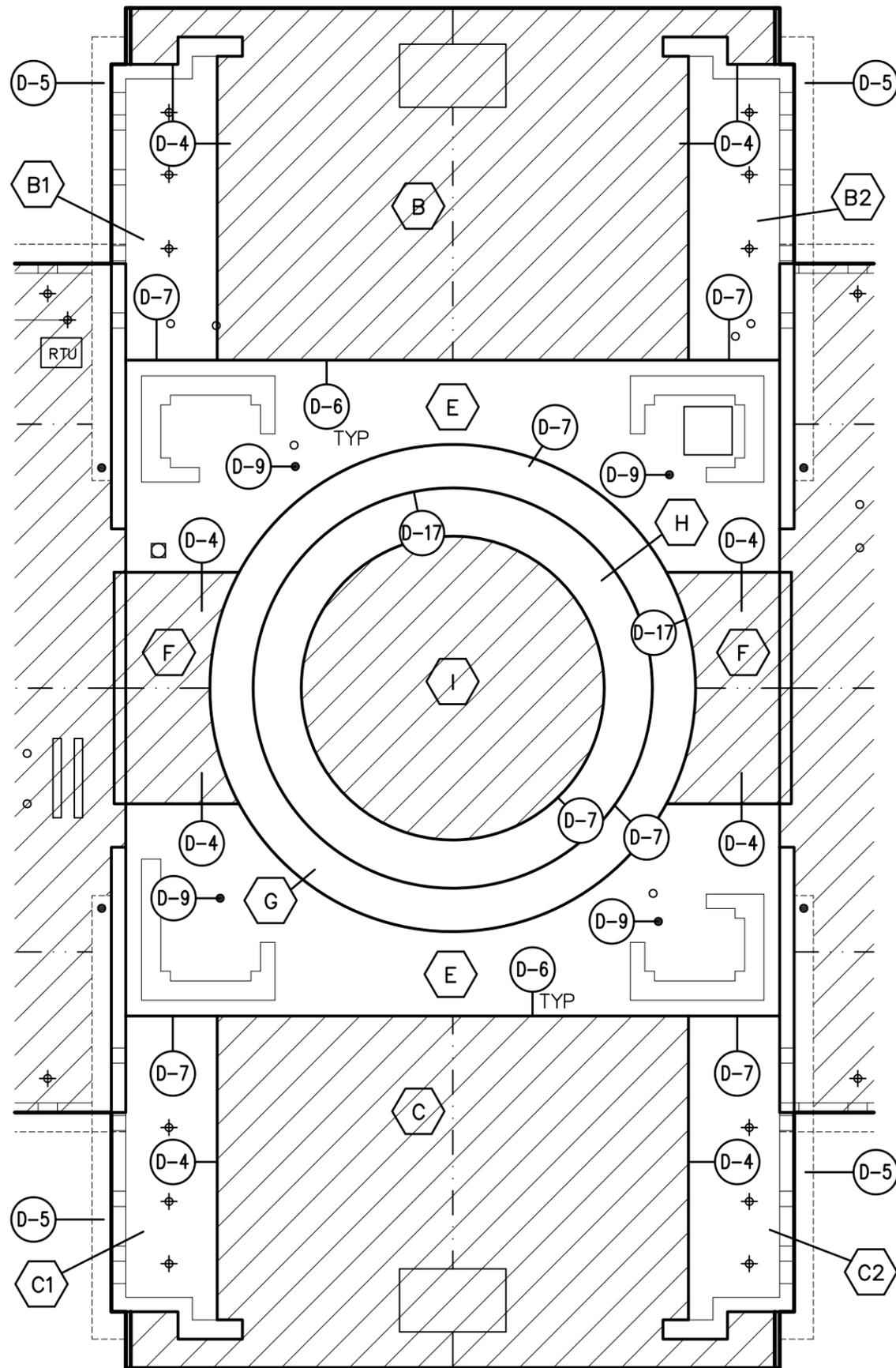
D. SLIP INSERT COUNTERFLASHINGS

1. Install specified counterflashing behind the existing roof top unit flashing receiver.

3.04 FIELD QUALITY CONTROL

- A. INSPECTION WILL INVOLVE SURVEILLANCE OF WORK DURING INSTALLATION TO ASCERTAIN COMPLIANCE WITH SPECIFIED REQUIREMENTS.

END OF SECTION



GENERAL NOTES:

1. PERFORM ROOF REPLACEMENT IN CONFORMANCE WITH WRITTEN SPECIFICATIONS IN THE PROJECT MANUAL.
2. DRAWING AND DETAILS ARE PROVIDED FOR GENERAL ILLUSTRATION OF TYPICAL BUILDING CONDITIONS ONLY.
3. CONTRACTOR IS REQUIRED TO VERIFY ALL CONDITIONS, DIMENSIONS, AND DETERMINE QUANTITIES FOR SPECIFIED WORK PRIOR TO SUBMITTING A BID.

StructureTec. STANDARD KEY OF SYMBOLS

	AREA DESIGNATION		ROOF EDGE
	SLOPE TRANSITION		ROUND HOOD EXHAUST FAN
	ROOF DRAIN		EQUIPMENT CURB
	SOIL PIPE		SLEEPERS
	PIPE PROJECTION		DETAIL REFERENCE
	ROOF TOP UNIT		NOT IN CONTRACT

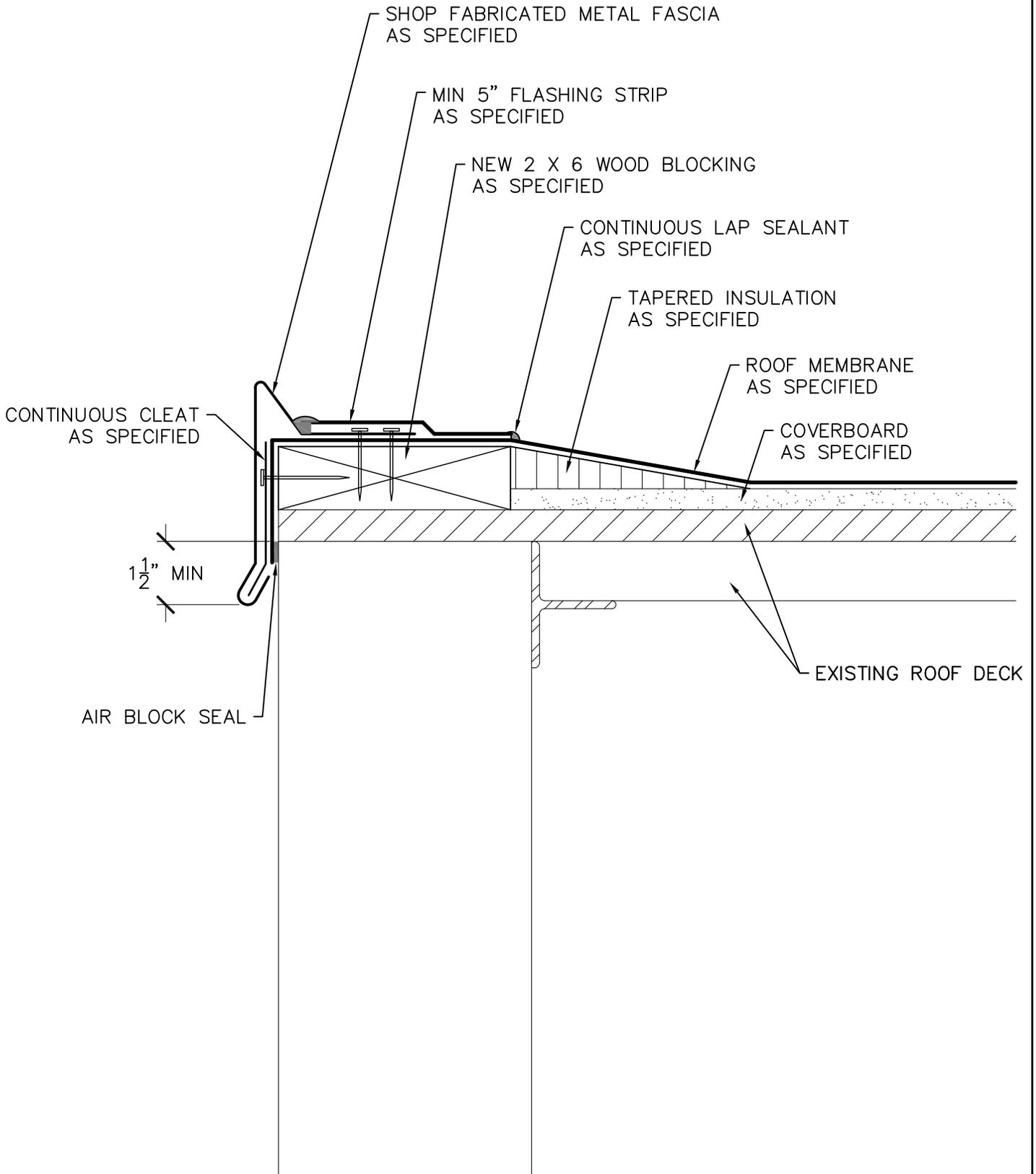


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ROOF REPLACEMENT PLAN

2014 ROOF REPLACEMENT
 LUCAS COUNTY COURTHOUSE
 TOLEDO, OHIO

REVISIONS / ADDENDA: ADDENDUM #1 08-05-14
SCALE: N.T.S.
APPROVED BY: R.A.F.
DRAWN BY: A.T.R.
DATE: MAY 2014
PROJECT NUMBER: T14084.RFG3
DRAWING NUMBER: RP-1



ADDENDUM #1 08-05-14

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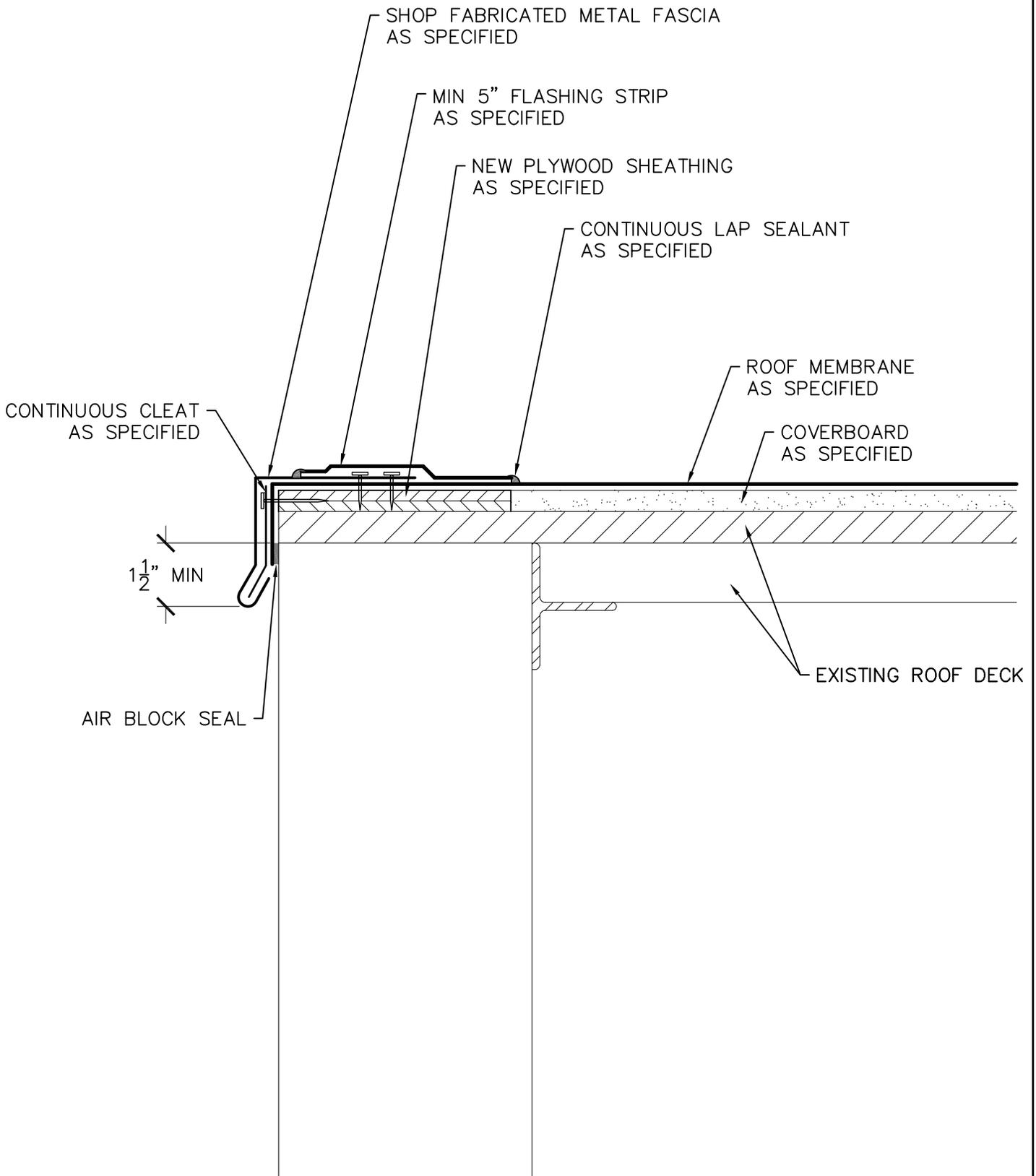
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GRAVEL STOP FASCIA

2014 ROOF REPLACEMENT
 LUCAS COUNTY COURTHOUSE
 TOLEDO, OHIO

SCALE: N.T.S.
APPROVED BY: R.A.F.
DRAWN BY: A.T.R.
DATE: AUGUST 2014
PROJECT #: T14084.RFG3
D-6



ADDENDUM #1 08-05-14

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DRIP EDGE FASCIA

2014 ROOF REPLACEMENT
 LUCAS COUNTY COURTHOUSE
 TOLEDO, OHIO

SCALE: N.T.S.
APPROVED BY: R.A.F.
DRAWN BY: A.T.R.
DATE: AUGUST 2014
PROJECT #: T14084.RFG3
D-17



PRE-BID MEETING SIGN IN

Client: Lucas County Commissioners

Project: County Courthouse 2014 Roof Replacement

Facility: County Courthouse

Project No. T14084

Date: July 31, 2014

Bid Due: August 11, 2014 @ 2:00 P.M. Local Time

NAME (circle prime contact)	COMPANY	ADDRESS	PHONE / FAX / EMAIL	DOC. REC'D
Steve Saum	Nordmann Roofing Co., Inc.	1722 Starr Avenue Toledo, OH 43605	419-691-5737	
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